

e-FILING REPORT COVER SHEET

COMPANY NAME: NW Natural

DOES REPORT CONTAIN CONFIDENTIAL INFORMATION? No Yes If yes, submit a redacted public version (or a cover letter) by email. Submit the confidential information as directed in OAR 860-001-0070 or the terms of an applicable protective order.

Select report type: RE (Electric) RG (Gas) RW (Water) RT (Telecommunications)
RO (Other, for example, industry safety information)
Did you previously file a similar report? No Second Yes, report docket number: RG 37
Report is required by: OAR 860-027-0070
Statute
Order
Note: A one-time submission required by an order is a compliance filing and not a report
(file compliance in the applicable docket)
Other
(For example, federal regulations, or requested by Staff)
Is this report associated with a specific docket/case? No Section Ves, docket number: RG 37

List Key Words for this report. We use these to improve search results.

2019 Annual Report for year ending December 31, 2019, FERC Form 2

Send the completed Cover Sheet and the Report in an email addressed to <u>PUC.FilingCenter@state.or.us</u>

Send confidential information, voluminous reports, or energy utility Results of Operations Reports to PUC Filing Center, PO Box 1088, Salem, OR 97308-1088 or by delivery service to 201 High Street SE Suite 100, Salem, OR 97301.



250 SW Taylor Street Portland, OR 97204 503-226-4211 nwnatural.com

VIA ELECTRONIC FILING

April 30, 2020

Public Utility Commission of Oregon Attn: Filing Center 201 High Street SE, Suite 100 Salem, Oregon 97301-3398

Re: RG 37 – Annual Report for the year ending December 31, 2019 FERC Form 2, Oregon Supplement to FERC Form 2, and Annual Report to Shareholders

In accordance with OAR 860-027-0070, Northwest Natural Gas Company, dba NW Natural ("NW Natural" or "Company") files herewith its Annual FERC Form 2 Report ("FERC Form 2"), the Oregon Supplement to FERC Form 2, and the Annual Report to Shareholders for the year ending December 31, 2019. A pdf and Excel version of the FERC Chart of Accounts Pre-Closing Trial Balance is also included.

Please note, NW Natural's FERC Form 2 and Oregon Supplement are not available in Excel format and due to the temporary waiver on hard copies (docket UM 2061, Order No. 20-088), CDs will not be provided at this time. Hard copies and CDs of the Annual Report to Shareholders will also not be provided at this time.

Please address any correspondence on this matter to me, with copies to Mr. Brody Wilson, Vice President, CAO, Controller & Treasurer, at the address above.

Sincerely,

/s/ Zachary Kravitz

Zachary Kravitz Director, Rates & Regulatory Affairs

Attachments

F.P.C. Form No. 2

UBI: 93-0256722

Form approved.

Budget Bureau No. 54-R009

NATURAL GAS COMPANIES

(Class A and B)

ANNUAL REPORT

OF

NORTHWEST NATURAL GAS COMPANY

(Exact Legal Name of Respondent) If name was changed during year, show also the previous name and date of change

PORTLAND, OREGON

(Address of Principal Business Office at End of Year)

TO THE

PUBLIC UTILITY COMMISSION OF OREGON

AND

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

FOR THE

YEAR ENDED DECEMBER 31, 2019

Name, Title, and address of officer or other person to whom should be addressed any communication concerning this report:

Brody J. Wilson, Vice President, Chief Accounting Officer, Controller and Treasurer 250 S.W. Taylor Street Portland, Oregon 97204 Blank Page

THIS FILING IS			
Item 1: 🗵 An Initial (Original	OR 🛛 Resubmission No		
Submission)			

Form 2 Approved OMB No. 1902-0028 (Expires 12/31/2020)

Form 3-Q Approved OMB No. 1902-0205 (Expires 12/31/2019)



FERC FINANCIAL REPORT FERC FORM No. 2: Annual Report of Major Natural Gas Companies and Supplemental Form 3-Q: Quarterly Financial Report

These reports are mandatory under the Natural Gas Act, Sections 10(a), and 16 and 18 CFR Parts 260.1 and 260.300. Failure to report may result in criminal fines, civil penalties, and other sanctions as provided by law. The Federal Energy Regulatory Commission does not consider these reports to be of a confidential nature.

Exact Legal Name of Respondent (Company)
NW NATURAL GAS COMPANY

Year/Period of Report End of 12/31/2019

FERC FORM No. 2 (02-04)

Blank Page

INSTRUCTIONS FOR FILING FERC FORMS 2, 2-A and 3-Q

GENERAL INFORMATION

I Purpose

FERC Forms 2, 2-A, and 3-Q are designed to collect financial and operational information form natural gas companies subject to the jurisdiction of the Federal Energy Regulatory Commission. These reports are also considered to be a non-confidential public use forms.

II. Who Must Submit

Each natural gas company whose combined gas transported or stored for a fee exceed 50 million dekatherms in each of the previous three years must submit FERC Form 2 and 3-Q.

Each natural gas company not meeting the filing threshold for FERC Form 2, but having total gas sales or volume transactions exceeding 200,000 dekatherms in each of the previous three calendar years must submit FERC Form 2-A and 3-Q.

Newly established entities must use projected data to determine whether they must file the FERC Form 3-Q and FERC Form 2 or 2-A.

III. What and Where to Submit

- (a) Submit Forms 2, 2-A and 3-Q electronically through the submission software at http://www.ferc.gov/docs-filing/eforms/form-2/elec-subm-soft.asp .
- (b) The Corporate Officer Certification must be submitted electronically as part of the FERC Form 2 and 3-Q filings.

(c) Submit immediately upon publication, by either eFiling or mailing two (2) copies to the Secretary of the Commission, the latest Annual Report to Stockholders and any annual financial or statistical report regularly prepared and distributed to bondholders, security analysts, or industry associations. Do not include monthly and quarterly reports. Indicate by checking the appropriate box on Form 2, Page 3, List of Schedules, if the reports to stockholders will be submitted or if no annual report to stockholders is prepared. Unless eFiling the Annual Report to Stockholders, mail these reports to the Secretary of the Commission at:

Secretary of the Commission Federal Energy Regulatory Commission 888 First Street, NE Washington, DC 20426

(d) For the Annual CPA certification, submit with the original submission of this form, a letter or report (not applicable to respondents classified as Class C or Class D prior to January 1, 1984) prepared in conformity with the current standards of reporting which will:

(i) Contain a paragraph attesting to the conformity, in all material respects, of the schedules listed below with the Commission's applicable Uniform Systems of Accounts (including applicable notes relating thereto and the Chief Accountant's published accounting releases), and

(ii) be signed by independent certified public accountants or an independent licensed public accountant certified or licensed by a regulatory authority of a State or other political subdivision of the U. S. (See 18 C.F.R. §§158.10-158.12 for specific qualifications.)

Reference	<u>Reference</u> Schedules Pages
Comparative Balance Sheet Statement of Income Statement of Retained Earnings Statement of Cash Flows Notes to Financial Statements	110-113 114-117 118-119 120-121 122-123

Filers should state in the letter or report, which, if any, of the pages above do not conform to the Commission's requirements. Describe the discrepancies that exist.

(e) Filers are encouraged to file their Annual Report to Stockholders, and the CPA Certification Statement using eFiling. To further that effort, new selections, "Annual Report to Stockholders" and "CPA Certification Statement," have been added to the dropdown "pick list" from which companies must choose when eFiling. Further instructions are found on the Commission website at http://www.ferc.gov/help/how-to.asp

(f) Federal, State and Local Governments and other authorized users may obtain additional blank copies of FERC Form 2 and 2-A free of charge from: <u>http://www.ferc.gov/docs-filing/eforms/form-2/form-2.pdf</u> and <u>http://w</u>

IV. When to Submit:

FERC Forms 2, 2-A, and 3-Q must be filed by the dates:

- (a) FERC Form 2 and 2-A --- by April 18th of the following year (18 C.F.R. §§ 260.1 and 260.2)
- (b) FERC Form 3-Q --- Natural gas companies that file a FERC Form 2 must file the FERC Form 3-Q within 60 days after the reporting quarter (18 C.F.R.§ 260.300), and
- (c) FERC Form 3-Q --- Natural gas companies that file a FERC Form 2-A must file the FERC Form 3-Q within 70 days after the reporting quarter (18 C.F.R. § 260.300).

V. Where to Send Comments on Public Reporting Burden.

The public reporting burden for the Form 2 collection of information is estimated to average 1,623 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data-needed, and completing and reviewing the collection of information. The public reporting burden for the Form 2A collection of information is estimated to average 250 hours per response. The public reporting burden for the Form 3-Q collection of information is estimated to average 165 hours per response.

Send comments regarding these burden estimates or any aspect of these collections of information, including suggestions for reducing burden, to the Federal Energy Regulatory Commission, 888 First Street NE, Washington, DC 20426 (Attention: Information Clearance Officer); and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503 (Attention: Desk Officer for the Federal Energy Regulatory Commission). No person shall be subject to any penalty if any collection of information does not display a valid control number (44 U.S.C. § 3512 (a)).

GENERAL INSTRUCTIONS

- I. Prepare all reports in conformity with the Uniform System of Accounts (USofA) (18 C.F.R. Part 201). Interpret all accounting words and phrases in accordance with the USofA.
- II. Enter in whole numbers (dollars or Dth) only, except where otherwise noted. (Enter cents for averages and figures per unit where cents are important. The truncating of cents is allowed except on the four basic financial statements where rounding is required.) The amounts shown on all supporting pages must agree with the amounts entered on the statements that they support. When applying thresholds to determine significance for reporting purposes, use for balance sheet accounts the balances at the end of the current reporting period, and use for statement of income accounts the current year's year to date amounts.
- III. Complete each question fully and accurately, even if it has been answered in a previous report. Enter the word "None" where it truly and completely states the fact.
- IV. For any page(s) that is not applicable to the respondent, omit the page(s) and enter "NA," "NONE," or "Not Applicable" in column (d) on the List of Schedules, pages 2 and 3.
- V. Enter the month, day, and year for all dates. Use customary abbreviations. **The "Date of Report" included in the header of each page is to be completed only for resubmissions**.
- VI. Generally, except for certain schedules, all numbers, whether they are expected to be debits or credits, must be reported as positive. Numbers having a sign that is different from the expected sign must be reported by enclosing the numbers in parentheses.
- VII. For any resubmissions, submit the electronic filing using the form submission only. Please explain the reason for the resubmission in a footnote to the data field.
- VIII. Footnote and further explain accounts or pages as necessary.
- IX. Do not make references to reports of previous periods/years or to other reports in lieu of required entries, except as specifically authorized.
- X. Wherever (schedule) pages refer to figures from a previous period/year, the figures reported must be based upon those shown by the report of the previous period/year, or an appropriate explanation given as to why the different figures were used.
- XI. Report all gas volumes in Dth unless the schedule specifically requires the reporting in another unit of measurement.

	DEFINITIONS
1.	<u>Btu per cubic foot</u> The total heating value, expressed in Btu, produced by the combustion, at constant pressure, of the amount of the gas which would occupy a volume of 1 cubic foot at a temperature of 60°F if saturated with water vapor and under a pressure equivalent to that of 30°F, and under standard gravitational force (980.665 cm. per sec) with air of the same temperature and pressure as the gas, when the products of combustion are cooled to the initial temperature of gas and air when the water formed by combustion is condensed to the liquid state (called gross heating value or total heating value).
11.	<u>Commission Authorization</u> The authorization of the Federal Energy Regulatory Commission, or any other Commission. Name the commission whose authorization was obtained and give date of the authorization.
111.	Dekatherm A unit of heating value equivalent to 10 therms or 1,000,000 Btu.
IV.	Respondent The person, corporation, licensee, agency, authority, or other legal entity or instrumentality on whose behalf the report is made.

EXCERPTS FROM THE LAW (Natural Gas Act, 15 U.S.C. 717-717w)

"Sec. 10(a). Every natural-gas company shall file with the Commission such annual and other periodic or special reports as the Commission may by rules and regulations or order prescribe as necessary or appropriate to assist the Commission in the proper administration of this act. The Commission may prescribe the manner and form in which such reports shall be made and require from such natural-gas companies specific answers to all questions upon which the Commission may need information. The Commission may require that such reports include, among other things, full information as to assets and liabilities, capitalization, investment and reduction thereof, gross receipts, interest dues and paid, depreciation, amortization, and other reserves, cost of facilities, costs of maintenance and operation of facilities for the production, transportation, delivery, use, or sale of natural gas, costs of renewal and replacement of such facilities, transportation, delivery, use and sale of natural gas..."

"Section 16. The Commission shall have power to perform all and any acts, and to prescribe, issue, make, amend, and rescind such orders, rules, and regulations as it may find necessary or appropriate to carry out the provisions of this act. Among other things, such rules and regulations may define accounting, technical, and trade terms used in this act; and may prescribe the form or forms of all statements declarations, applications, and reports to be filed with the Commission, the information which they shall contain, and

time within they shall be filed..."

General Penalties

The Commission may assess up to \$1 million per day per violation of its rules and regulations. See NGA § 22(a), 15 U.S.C. § 717t-1(a).

FERC FORM NO. 2:

ANNUAL REPORT OF MAJOR NATURAL GAS COMPANIES

	IDENTIFICATION					
01	Exact Legal Name of Respondent	02 Year of Report				
	Northwest Natural Gas Company	December 31, 2019				
03	Previous Name and Date of Change (If name changed durin	g year)				
04	Address of Principal Office at End of Year (Street, City, State	e, Zip Code)				
	220 N.W. Second Avenue, Portland OR 97209					
05	Name of Contact Person	Title of Contact Person				
	Brody J. Wilson	Vice President, Chief Accounting Off	icer, Controller and Treasurer			
07	Address of Contact Person (Street, City, State, Zip Code)					
	250 S.W.Taylor Street, Portland OR 97204					
08	Telephone of Contact Person, Including Area Code	This Report Is:	10 Date of Report			
		(1) 🗵 An Original	(Mo, Day, Yr)			
	(503) 226-4211	(2) 🛛 A Resubmission	May 1, 2020			
	ANNUAL CORPORATE	OFFICER CERTIFICATION				
The	e undersigned officer certifies that:					
state	ve examined this report and to the best of my knowledge, informar ements of the business affairs of the respondent and the financial form in all material respects to the Uniform System of Accounts.	tion, and belief all statements of fact c statements, and other financial inform	contained in this report are correct ation contained in this report,			
11	Name	12 Title				
<u> </u>	Brody J. Wilson	Vice President, Chief Accounting Off				
13	Signature		14 Date Signed (Mo, Day, Yr)			
	15 by		April 28, 2020			
— …			n antana at af tha bha't a b Ota't			
false	9 18, U.S.C. 1001, makes it a crime for any person knowingly and e, fictitious or fraudulent statements as to any matter within its juris	willingly to make to any Agency or De sdiction.	partment of the United States any			

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	List of Schedules (Natural Gas Compa	any)		
Enter i pages	in Column (d) the terms "none", "not applicable", or "NA" as appropriate, where no inform . . Omit pages where the responses are "none", "not applicable", or "NA".	ation or amounts	have been report	ed for certain
Line	Title of Schedule	Reference Page Number	Date Revised	Remarks
No.	(a)	(b)	(c)	(d)
	GENERAL CORPORATE INFORMATION AND FINANCIAL STATEMENTS	-	·	
1	General Information	101		
2	Control Over Respondent	102		
3	Corporations Controlled by Respondent	103		
4	Security Holders and Voting Powers	107		
5	Important Changes During the Year	108		
6	Comparative Balance Sheet	110-113		
7	Statement of Income for the Year	114-116		
8	Statement of Accumulated Comprehensive Income and Hedging Activities	117		
9	Statement of Retained Earnings for the Year	118-119		
10	Statements of Cash Flows	120-121		
11	Notes to Financial Statements	122		
	BALANCE SHEET SUPPORTING SCHEDULES (Assets and Other Debits)			
12	Summary of Utility Plant and Accumulated Provisions for Depreciation, Amortization, and Depletion	200-201		
13	Gas Plant in Service	204-209		
14	Gas Property and Capacity Leased from Others	212		
15	Gas Property and Capacity Leased to Others	213		NA
16	Gas Plant Held for Future Use	214		
17	Construction Work in Progress-Gas	216		
18	Non-Traditional Rate Treatment Afforded New Projects	217		NA
19	General Description of Construction Overhead Procedure	218		
20	Accumulated Provision for Depreciation of Gas Utility Plant	219		
21	Gas Stored	220		
22	Investments	222-223		
23	Investments in Subsidiary Companies	224-225		
24	Prepayments	230		
25	Extraordinary Property Losses	230		
26	Unrecovered Plant and Regulatory Study Costs	230		
27	Other Regulatory Assets	232	1 1	
28	Miscellaneous Deferred Debits	233		
29	Accumulated Deferred Income Taxes	234-235	 	
-	BALANCE SHEET SUPPORTING SCHEDULES (Liabilities and Other Credits)			
30	Capital Stock	250-251	<u> </u>	
31	Capital Stock Subscribed, Capital Stock Liability for Conversion, Premium on Capital Stock, and Installments Received on Capital Stock	252		
32	Other Paid-in Capital	253	 	
33	Discount on Capital Stock	254	 	NA
34	Capital Stock Expense	254	 	
35	Securities issued or Assumed and Securities Refunded or Retired During the Year	255	<u>├</u>	
36	Long-Term Debt	256-257		
37	Unamortized Debt Expense, Premium, and Discount on Long-Term Debt	258-259	<u>├</u> ───┤	

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

nter bages	in Column (d) the terms "none", "not applicable", or "NA" as appropriate, where no informa . Omit pages where the responses are "none", "not applicable", or "NA".	ation or amounts I	nave been report	ed for certai
Line	Title of Schedule	Reference Page Number	Date Revised	Remarks
No.	(a)	(b)	(C)	(d)
38	Unamortized Loss and Gain on Reacquired Debt	260		
39	Reconciliation of Reported Net Income with Taxable Income for Federal Income Taxes	261		
40	Taxes Accrued, Prepaid, and Charged During Year	262-263		
41	Miscellaneous Current and Accrued Liabilities	268		
42	Other Deferred Credits	269		
43	Accumulated Deferred Income Taxes-Other Property	274-275		NA
44	Accumulated Deferred Income Taxes-Other	276-277		
45	Other Regulatory Liabilities	278		
	INCOME ACCOUNT SUPPORTING SCHEDULES	•	•	
46	Monthly Quantity & Revenue Data by Rate Schedule	299	I	NA
47	Gas Operating Revenues	300-301		
48	Revenues from Transportation of Gas of Others Through Gathering Facilities	302-303		NA
49	Revenues from Transportation of Gas of Others Through Transmission Facilities	304-305		NA
50	Revenues from Storage Gas of Others	306		
51	Other Gas Revenues	308		
52	Discounted Rate Services and Negotiated Rate Services	313		NA
53	Gas Operation and Maintenance Expenses	317-325		
54	Exchange and Imbalance Transactions	328		NA
55	Gas Used in Utility Operations	331		
56	Transmission and Compression of Gas by Others	332		NA
57	Other Gas Supply Expenses	334		NA
58	Miscellaneous General Expenses-Gas	335		
59	Depreciation, Depletion, and Amortization of Gas Plant	336-338		
60	Particulars Concerning Certain Income Deduction and Interest Charges Accounts	340		
	COMMON SECTION		11	
61	Regulatory Commission Expenses	350-351		
62	Employee Pensions and Benefits (Account 926)	352		
63	Distribution of Salaries and Wages	354-355		
64	Charges for Outside Professional and Other Consultative Services	357		
65	Transactions with Associated (Affiliated) Companies	358		
	GAS PLANT STATISTICAL DATA		I I	
66	Compressor Stations	508-509	<u>г</u>	
67	Gas Storage Projects	512-513		
68	Transmission Lines	514		
69	Transmission System Peak Deliveries	518		NA
70	Auxiliary Peaking Facilities	519		
71	Gas Account-Natural Gas	520		
72	Shipper Supplied Gas for the Current Quarter	520		NA
73	System Map	521		NA
74	Footnote Reference	551		NA
74 75	Footnote Relefence	552		NA
		552	<u>├</u> ───┤	INA
76	Stockholder's Reports (check appropriate box)			

Name of Respondent	This Report is:	Date of Report	Year of Report	
	(1) 🗵 An Original	(Mo, Da, Yr)		
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019	
	GENERAL INFORMAT	ΓΙΟΝ		
1. Provide name and title of officer having custody of the general corporate books of account and address of office where the general corporate books are kept and address of office where any other corporate books of account are kept, if different from that where the general corporate books are kept.				
Brody J Wilson	Vice President Chief Accounting Offi	cer Controller and Treasurer		
Brody J. Wilson 250 S.W. Taylor Street, Portland, Ore	Vice President, Chief Accounting Offi egon 97204	cer, Controller and Treasurer		
250 S.W. Taylor Street, Portland, Ord 2. Prove the name of the State under t law, give reference to such law. If not	egon 97204 he laws of which respondent is incorporated incorporated, state that fact and give the type	and date of incorporation. If incorp		
250 S.W. Taylor Street, Portland, Ord 2. Prove the name of the State under t	egon 97204 he laws of which respondent is incorporated	and date of incorporation. If incorp		

NOT APPLICABLE

4. State the classes of utility and other services furnished by respondent during the year in each State in which the respondent operated.

GAS SERVICE IN OREGON AND WASHINGTON

5. Have you engaged as the principal accountant to audit your financial statements an accountant who is not the principal accountant for your previous year's certified financial statements?

(1)		YesEnter the date when such independent account was initially engaged
(2)	\mathbf{X}	No

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

		trol Over Responde						
1. Report held con report in	1. Report in column (a) the names of all corporations, partnerships, business trusts, and similar organizations that directly, indirectly, or jointly held control (see page 103 for definition of control) over the respondent at the end of the year. If control is in a holding company organization, report in a footnote the chain of organization.							
2. If cont purpose	2. If control is held by trustees, state in a footnote the names of trustees, the names of beneficiaries for whom the trust is maintained, and the purpose of the trust.							
3. In colu ultimate	umn (b) designate type of control over the responde control over the respondent. Otherwise, report a "D	nt. Report an "M" if the co " for direct, an "I" for indire	mpany is the main parent or ct, or a "J" for joint control.	or controlling company having				
Line	Company Name	Type of Control	State of Incorporation	Percent Voting Stock Owned				
No.	(a)	(b)	(C)	(d)				
1	Northwest Natural Holding Company	M	Oregon	100%				
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2)		December 31, 2019

CORPORATIONS CONTROLLED BY RESPONDENT

1. Report below the names of all corporations, business trusts, and similar organizations, controlled directly or indirectly by respondent at any time during the year. If control ceased prior to end of year, give particulars (details) in a footnote.

2. If control was by other means than a direct holding of voting rights, state in a footnote the manner in which control was held, naming any intermediaries involved.

3. If control was held jointly with one or more other interests, state the fact in a footnote and name the other interests.

4. In column (b) designate type of control of the respondent as "D" for direct, an "I" for indirect, or a "J" for joint control.

DEFINITIONS

1. See the Uniform System of Accounts for a definition of control.

2. Direct control is that which is exercised without interposition of an intermediary.

3. Indirect control is that which is exercised by the inter-position of an intermediary which exercises direct control.

4. Joint control is that in which neither interest can effectively control or direct action without the consent of the other, as where the voting control is equally divided between two holders, or each party holds a veto power over the other. Joint control may exist by mutual agreement or understanding between two or more parties who together have control within the meaning of the definition of control in the Uniform System of Accounts, regardless of the relative voting rights of each party.

Line No.	Name of Company Controlled	Type of Control	Kind of Business	Percent Voting Stock Owned	Footnote Ref.
	(a)	(b)	(c)		(d)
1	Northwest Energy Corporation	D	Intermediate Holding Company	100%	1
2	NWN Gas Reserves LLC	I	Gas Reserves	100%	2
1	Northwest Energy Corporation, is a wholly-owned subsid				
2	NWN Gas Reserves LLC, a wholly-owned subsidiary of Northwest Energy Corporation, was formed in 2012 as part of a joint venture with Encana Oil & Gas (USA) Inc. to develop, own and operate gas reserves. In 2014, Encana Oil & Gas (USA) Inc. sold its interest in the gas reserves to Jonah Energy LLC.				

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

SECURITY HOLDERS AND VOTING POWERS

1. Give the names and addresses of the 10 security holders of the respondent who, at the date of the latest closing of the stock book or compilation of list of stockholders of the respondent, prior to the end of the year, had the highest voting powers in the respondent, and state the number of votes which each would have had the right to cast on that date if a meeting were then in order. If any such holder held in trust, give in a footnote the known particulars of the trust (whether voting trust, etc.), duration of trust, and principal holders of beneficiary interests in the trust. If the stock book was not closed or a list of stock-holders was not compiled within one year prior to the end of the year, or if since the previous compilation of a list of stockholders, some other class of security has become vested with voting rights, then show such 10 security holders as of the close of the year. Arrange the names of the security holders in the order of voting power, commencing with the highest. Show in column (a) the titles of officers and directors included in such list of 10 security holders.

2. If any security other than stock carries voting rights, explain in a supplemental statement the circumstances whereby such security became vested with voting rights and give other important particulars (details) concerning the voting rights of such security. State whether voting rights are actual or contingent; if contingent, describe the contingency.

3. If any class or issue of security has any special privileges in the election of directors, trustees or managers, or in the determination of corporate action by any method, explain briefly in a footnote.

4. Furnish details concerning any options, warrants, or rights outstanding at the end of the year for others to purchase securities of the respondent or any securities or other assets owed by the respondent, including prices, expiration dates, and other material information relating to exercise of the options, warrants, or rights. Specify the amount of such securities or assets so entitled to be purchased by any officer, director, associated company, or any of the ten largest security holders. This instruction is inapplicable to convertible securities or to any securities substantially all of which are outstanding in the hands of the general public where the options, warrants, or rights were issued on a prorata basis.

 Give date of the latest closing of the stock book prior to end of year, and, in a footnote, state the purpose of such closing: See note (1) 		 State the total number of votes cast at the latest general meeting prior to the end of year for election of directors of the respondent and number of such votes cast by proxy. Total: See Note (2) By Proxy: See Note (2) 		3. Give the date and place of such meeting: Date: 5/24/2019 Place: See Note (3) Location: See Note (3)	
		VOTING SECURITIES	8	•	
		4. Number of votes as	of (date):		
Line	Name (Title) and Address of Security Holder	Total Votes	Common Stock	Preferred Stock	Other
No.	(a)	(b)	(C)	(d)	(e)
5	TOTAL votes of all voting securities	100	100		
6	TOTAL number of security holders	1 ⁽¹⁾	1 ⁽¹⁾		
7	Special Privileges	See Note (4)	See Note (4)	Limited Voting Junior Preferred	
8					
9	See page 107 B				
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Note 1: Effective October 1, 2018, NW Natural completed a reorganization into a holding company structure, as approved by the OPUC in 2017 pursuant to Order 17-526 (Reorganization). To effect the Reorganization, NWN Merger Sub, Inc., a wholly owned subsidiary of Northwest Natural Holding Company (NW Holdings), was merged with and into NW Natural and each outstanding share of NW Natural common stock was converted into one share of NW Holdings common stock and NW Natural became a wholly owned subsidiary of NW Holdings.

Note 2: Effective October 1, 2018, NW Natural completed a reorganization into a holding company structure, as approved by the OPUC pursuant to Order 17-526 (Reorganization). As a result of the Reorganization, there are only 100 shares of Common Stock entitled to cast votes at a general meeting for the election of directors, all of which are held by a single shareholder, Northwest Natural Holding Company.

Note 3: In 2019, the directors of NW Natural were elected by written consent of the sole shareholder of its Common Stock.

Note 4: In addition to the common stock, effective as of the Reorganization, NW Natural also has authorized, issued and outstanding, one share of Limited Voting Preferred Stock (Golden Share), \$1 par value, held by GSS Holdings (NWN), Inc. As specified in OPUC Order 17-526, NW Natural is not entitled to file a voluntary petition for bankruptcy unless approved by the holder of the Golden Share, which must be an independent party. Except as provided in NW Natural's Amended and Restated Articles of Incorporation or as otherwise provided by law, the holder of the Golden Share has no voting rights for any other purpose.

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

SECURITY HOLDERS AND VOTING POWERS (Continued)					
Line	Name and Address (1a)	Shares of Common Stock	Percentage of Stock Outstanding (Voting Control)		
No.	(a)	(b)	(c)		
1	NW Natural Holding Company (1)	100	100.00% (2)		
2	250 S.W. Taylor Street				
3	Portland, OR 97204				
4					
5	Officers	Stock Options for Officers as of 12/31/19	Stock Rights for Officers as of 12/31/19		
6	None				
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21	Directors		Stock Rights for Directors as of 12/31/19		
22	None				
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
(2) Effective pursuant to Natural Ho	ve October 1, 2018, NW Natural completer o Order 17-526 (Reorganization). To effect olding Company (NW Holdings), was merce	changed to 250 SW Taylor St, Portland, OR 97 d a reorganization into a holding company struct the Reorganization, NWN Merger Sub, Inc., a ed with and into NW Natural and each outstand non stock and NW Natural became a wholly ow	ture, as approved by the OPUC in 2017 wholly owned subsidiary of Northwest ding share of NW Natural common stock		

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2)		December 31, 2019

IMPORTANT CHANGES DURING THE YEAR

Give details concerning the matters indicated below. Make the statements explicit and precise, and number them in accordance with the inquiries. Answer each inquiry. Enter "none" or "not applicable" where applicable. If the answer is given elsewhere in the report, refer to the schedule in which it appears.

1. Changes in and important additions to franchise rights: Describe the actual consideration and state from whom the franchise rights were acquired. If the franchise rights were acquired without the payment of consideration, state that fact.

2. Acquisition of ownership in other companies by reorganization, merger, or consolidation with other companies: Give names of companies involved, particulars concerning the transactions, name of the Commission authorizing the transaction, and reference to Commission authorization.

3. Purchase or sale of an operating unit or system: Briefly describe the property, and the related transactions, and cite Commission authorization, if any was required. Give date journal entries called for by Uniform Systems of Accounts were submitted to the Commission.

4. Important leaseholds (other than leaseholds for natural gas lands) that have been acquired or given, assigned or surrendered: Give effective dates, lengths of terms, names of parties, rents, and other conditions. State name of Commission authorizing lease and give reference to such authorization.

5. Important extension or reduction or transmission or distribution system: State territory added or relinquished and date operations began or ceased and cite Commission authorization, if any was required. State also the approximate number of customers added or lost and approximate annual revenues of each class of service.

Each natural gas company must also state major new continuing sources of gas made available to it from purchases, development, purchase contract or otherwise, giving location and approximate total gas volumes available, period of contracts, and other parties to any such arrangements, etc.

6. Obligations incurred or assumed by respondent as guarantor for the performance by another of any agreement or obligation, including ordinary commercial paper maturing on demand or not later than one year after date of obligation. Cite commission authorization if any was required.

7. Changes in articles of incorporation or amendments to charter: Explain the nature and purpose of such changes or amendments.

8. State the estimated annual effect and nature of any important wage scale changes during the year.

9. State briefly the status of any materially important legal proceedings pending at the end of the year, and the results of any such proceedings

10. Describe briefly any materially important transactions of the respondent not disclosed elsewhere in this report in which an officer, director, security holder, voting trustee, associated company or know associate of any of these persons was a party or in which any such person had a material interest.

11. Estimated increase or decrease in annual revenues caused by important rate changes: State effective date and approximate amount of increase or decrease for each revenue classification. State the number of customers affected.

12. Describe fully any changes in officers, directors, major security holders and voting powers of the respondent that may have occurred during the reporting period.

13. In the event that the respondent participates in a cash management program(s) and its proprietary capital ratio is less than 30 percent please describe the significant events or transactions causing the proprietary capital ratio to be less than 30 percent, and the extent to which the respondent has amounts loaned or money advanced to its parent, subsidiary, or affiliated companies through a cash management program(s). Additionally, please describe plans, if any to regain at least a 30 percent proprietary ratio.

See Page 108 B

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗖 A Resubmission		December 31, 2019

	IMPORTANT CHANGES DURING THE YEAR (Continued)
1.	None
2.	None
3.	None
4.	None
5.	Reference to the 2018 Integrated Resource Plan that covers fiscal years 2018 and 2019 and the Gas Utility New Construction Budget for 2019 submitted to the OPUC and Washington Utility and Transportation Commission ("WUTC").
6.	None
7.	On May 23, 2019, the Board of Directors (the "Board") of Northwest Natural Gas Company ("NW Natural") approved the amendment and restatement of NW Natural's Amended and Restated Bylaws (the "Bylaws"). The amendments to the Bylaws were made primarily to: Provide for the position of Vice-Chairman of the Board and specify the duties and responsibilities of such position. Provide that if the Board elects a Vice-Chairman of the Board, the Board shall specify in the resolution electing the Vice-Chairman of the Board, the Vice-Chairman of the Board. Provide that in the absence of the Chairman of the Board, the Vice-Chairman of the Board shall become Chairman of the Board. Provide that in the absence of the Chairman of the Board, the Vice-Chairman of the Board shall exercise the duties of the Chairman of the Board as a member of the Governance Committee or, alternatively, the Chairman of the Board may designate the Vice-Chairman of the Board as a member of the Governance Committee. Eliminate the prohibition on a retired officer serving as the Chairman of the Public Affairs and Environmental Policy Committee.
8.	Bargaining unit employee average pay increase of 5.00% effective December 1, 2019. Non-bargaining unit employee annual salary increase of approximately 3.25% effective March 1, 2019.
9.	Reference is made to NOTE 17 - Commitment and Contingencies and NOTE 18 - Environmental Matters of the Notes to the Financial Statements, beginning on Page 122-A.
10.	The below describes certain transactions of the respondent since January 1, 2019 in which an officer, director, security holder, voting trustee, associated company or known associate of any of these persons was a party or in which such person had a material interest. However, the below transactions are not materially important transactions of the respondent and the below response is not to be construed as an indication that the respondent deems such transactions as materially important.
	Ms. Shawn M. Filippi, Vice President, Chief Compliance Officer and Corporate Secretary, is married to a Co-Managing Partner of the Portland office of Stoel Rives LLP. For many years prior to Ms. Filippi's employment at NW Natural, NW Natural engaged the law firm Stoel Rives LLP as outside legal counsel. The Company continues to engage Stoel Rives LLP from time to time, and intends to do so in the future. Total fees paid to Stoel Rives LLP in 2019 were approximately \$1,569,000. Ms. Filippi's husband is not compensated by Stoel Rives LLP based on work performed for the Company and does not routinely work on Company matters. Furthermore, his interest is less than 1% of Stoel Rives LLP's annual gross revenues.
	Reference to FERC Form No. 2 page 358 Transactions with Associated (Affiliated) Companies.
11.	Increase or decrease in annual revenues caused by important rate changes:
	OREGON
	The new rates for Oregon customers reflect the Phase II of the Oregon general rate case and the annual Purchased Gas Adjustment (PGA). The approval of the Phase II general rate case filing took effect on April 1, 2019 that increased revenue of \$1.4 million associated with Pension Balancing Account amortization and Tax Reform adjustment. The approval of the PGA went into effect on November 1, 2019 that increased the Company's annual Oregon revenues by \$15.1 million, or 2.43 percent, passing through certain purchased gas cost adjustments, and technical adjustments amortizing the Company's deferred revenue and gas costs. As of June 30, 2019, 669,250 customers were affected.
	OREGON RATE CASES
	2018 General Rate Case
	On March 25, 2019, the OPUC approved the Settlement in its entirety (Pension Order).
	Under the Pension Order, the OPUC found that NW Natural properly recorded the remeasurement of regulated utility excess deferred income taxes pursuant to the effects of TCJA, and that all of NW Natural's TCJA-related dockets are resolved. Commencing April 1, 2019, NW Natural is ordered to return excess deferred income taxes pursuant to TCJA as follows: (i) an annual credit to base rates of \$3.4 million; (ii) a credit of \$3.0 million per year for five years to sale customers; (iii) a credit to customers' benefit of \$5.44 million of deferred income taxes, and \$7.07 million of TCJA benefits deferred between January 1, 2018 and October 31, 2018, reflected as a reduction to NW Natural's pension balancing account, described below. As a result of these returns and credits, as of April 1, 2019, NW Natural's rate base is ordered to increase by \$15.38 million, and the revenue requirement is ordered to increase \$1.43 million. If NW Natural files a general rate case within five years of the date of the Pension Order, this revenue requirement may be adjusted as part of that general rate case.
	As to the future operation and timing of rate recovery of amounts reflected in NW Natural's pension balancing account, the Pension Order provides that, effective October 31, 2018, NW Natural would: (i) reduce the amount of the frozen pension balancing account by \$10.5 million, and apply \$12.51 million of the Company's deferred TCJA benefits, for a total reduction of the pension balancing account of approximately \$23.01 million; and (ii) reduce the interest rate on the pension balancing account from NW Natural's authorized rate of return of 7.317 percent to 4.3 percent. NW Natural would then collect the remainder of the pension balancing account balance over ten years in a customer tariff of \$7.3 million write-off to the Pension Order, NW Natural expects it will recognize a \$10.5 million write-off to the regulatory asset relating to the pension balancing account, resulting in an after-tax charge to earnings of approximately \$6.7 million in the first quarter.

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗖 A Resubmission		December 31, 2019

IMPORTANT CHANGES DURING THE YEAR (Continued)

2020 General Rate Case

On December 30, 2019, NW Natural filed a request for a general rate increase with the Public Utility Commission of Oregon (OPUC).

The filing includes a requested \$71.4 million annual revenue requirement increase based upon the following assumptions or requests:

Capital structure of 50% debt and 50% equity; Return on equity of 10.0%; Cost of capital of 7.298%; Average rate base of \$1.47 billion.

The filing includes an increase in average rate base of \$269.9 million compared to the last rate case due to the following items:

Investments supporting customer growth and reliability for the distribution system as well as for operating resiliency; Replacing key components of our Mist storage facility, which provides service during the peak winter months; and Upgrading technology including cybersecurity and critical customer interfacing systems.

NW Natural's filing will be reviewed by the OPUC and other stakeholders. The process is anticipated to take up to 10 months with new rates expected to take effect November 1, 2020.

WASHINGTON

The new rates for the Washington general rate case, the PGA and energy efficiency filings were allowed to go into effect, by operation of law, for service on and after November 1, 2019 at the WUTC Open Meeting held on October 24, 2019. The PGA filing revised rates for changes in purchased gas costs and temporary rate adjustments to amortize balances in deferred accounts. The combined effects of these filings increased the Company's annual Washington revenues by \$8.3 million, or 12.5 percent. As of June 30, 2019, 85,916 customers were affected.

WASHINGTON RATE CASE

2018 General Rate Case

As previously disclosed, on December 31, 2018, Northwest Natural Gas Company (NW Natural), a wholly owned subsidiary of Northwest Natural Holding Company (NW Holdings), filed a general rate case in Washington. Also as previously disclosed, on May 23, 2019, NW Natural and other parties to the rate case proceeding filed two settlements with the Washington Utilities and Transportation Commission (WUTC); a general joint settlement agreement, and a multi-party settlement agreement on NW Natural's proposed decoupling tariff. On October 21, 2019, the WUTC issued a final order approving the general joint settlement and rejecting the multiparty settlement on decoupling (Order).

Under the Order, effective November 1, 2019, NW Natural is authorized to implement base rate changes designed to increase annual revenues from its Washington customers by approximately \$5.14 million. The rate increases are based on the following assumptions:

Capital structure of 50.0% long-term debt, 1.0% short-term debt, and 49.0% common equity; Return on equity of 9.40%; Cost of capital of 7.161%; and Rate base of \$173.7 million, an increase of \$46 million since the last rate case.

The Order authorizes NW Natural to provide federal tax reform benefits to customers related to the Tax Cuts and Jobs Act enacted in December 2017. The Order directs NW Natural to provide customers with a rate reduction of \$2.1 million over one year to reflect the benefit of the lower federal corporate income tax rate accumulating from January 1, 2018 through October 31, 2019, and provides an additional annual rate reduction initially set at approximately \$0.5 million to reflect a benefit from the remeasurement of deferred tax liabilities of approximately \$15.0 million. The Order also permits NW Natural's recovery of environmental remediation expenses allocable to Washington customers for 2.2 parameter for purposed and power of environmental remediation expenses allocable to Washington customers and between the remediation provide and the termediation expenses allocable to Washington customers for 2.2 parameters for which parts are appreciated with permediation expenses allocable to the provide and power of the termediation expenses allocable to the termediated between the termediated with permeters.

The Order also permits NW Natural's recovery of environmental remediation expenses allocable to Washington customers for 3.32 percent of environmental remediation expense associated with remediation sites for which costs are shared between Oregon and Washington. The Order disallows approximately \$1.5 million of deferred environmental remediation expenses, but permits insurance proceeds to be applied to offset deferred environmental remediation application of insurance proceeds for a ten and one-half year period ending December 31, 2029. The order approves an environmental cost recovery mechanism tariff, with annual adjustments, to collect prudent environmental remediation expenditures made in the prior year, less that year's allocation of insurance proceeds. NW Natural expects to recognize an after-tax charge of approximately \$1.1 million in the fourth quarter of 2019 as a result of this order.

- 12. Effective April 1, 2019 Thomas J. Imeson retired as Vice President of Public Affairs. Effective April 1, 2019 Kathryn M. Williams was appointed Vice President, Public Affairs. Effective May 23, 2019 C. Scott Gibson was appointed Vice-Chairman of the Board of Directors of NW Natural . Effective August 1, 2019 Lori Russell retired as Vice President of Utility Services. Effective August 1, 2019 David A. Weber was appointed Vice President, Gas Supply and Utility Support Services. Effective November 12, 2019 Monica Enand was appointed to the Board of Directors of NW Natural.
- **13.** Not Applicable

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	COMPARATIVE BALANCE SHEET (ASSETS AND OTHER DEBITS)					
Line	Title of Account	Reference Page Number	Current Year End of Quarter/Balance Year	Prior Year End Balance 12/31/2018		
No.	(a)	(b)	(C)	(d)		
1	UTILITY PLANT					
2	Utility Plant (101-106, 114)	200-201	3,432,416,123	3,116,789,556		
3	Construction Work in Progress (107)	200-201	84,964,806	204,978,959		
4	TOTAL Utility Plant (Total of lines 2 and 3)	200-201	3,517,380,929	3,321,768,515		
5	(Less) Accum. Prov. for Depr. Amort. Depl. (108, 111, 115)	200-201	(1,425,460,561)	(1,353,446,498)		
6	Net Utility Plant (Total of line 4 less 5)	—	2,091,920,368	1,968,322,017		
7	Nuclear Fuel (120.1-120.4, 120.6)	—	_	—		
8	(Less) Accum. Prov. for Amort. of Nucl. Fuel Assemblies (120.5)	—	_	_		
9	Net Nuclear Fuel (Total of line 7 less 8)	—	_	—		
10	Net Utility Plant (Total of lines 6 and 9)	—	2,091,920,368	1,968,322,017		
11	Utility Plant Adjustments (116)	—	—	—		
12	Gas Stored-Base Gas (117.1)	220	25,409,543	18,494,189		
13	System Balancing Gas (117.2)	220	-	—		
14	Gas Stored in Reservoirs and Pipelines-Noncurrent (117.3)	220	_	_		
15	Gas Owned to System Gas (117.4)	220	_	_		
16	OTHER PROPERTY AND INVESTMENTS					
17	Nonutility Property (121)	204-209	69,061,380	71,338,418		
18	(Less) Accum. Prov. for Depreciation and Amortization (122)	219	(20,136,243)	(20,013,772)		
19	Investments in Associated Companies (123)	222-223	_	_		
20	Investment in Subsidiary Companies (123.1)	224-225	88,130,262	105,582,148		
21	(For Cost of Account 123.1, See Footnote Page 224, line 40)					
22	Noncurrent Portion of Allowances	_		—		
23	Other Investments (124)	222-223	49,836,949	49,921,908		
24	Sinking Funds (125)		_			
25	Depreciation Fund (126)	_	_	_		
26	Amortization Fund - Federal (127)	_	_	_		
27	Other Special Funds (128)	-		_		
28	Long-Term Portion of Derivative Assets (175)	_	3,336,883	725,000		
29	Long-Term Portion of Derivative Assets - Hedges (176)	_				
30	TOTAL Other Property and Investments (Total of lines 17-20, 22-29)		190,229,231	207,553,702		
31	CURRENT AND ACCRUED ASSETS			· ·		
32	Cash (131)		679,105	2,875,276		
33	Special Deposits (132-134)		4,999,226	4,850,774		
34	Working Funds (135)		209,569	204,200		
35	Temporary Cash Investments (136)	222-223	2,988,035	2,273,382		
36	Notes Receivable (141)					
37	Customer Accounts Receivable (142)		60,461,257	58,209,024		
38	Other Accounts Receivable (143)	+	5,087,344	6,148,203		
39	(Less) Accum. Prov. for Uncollectible Accounts-Credit (144)	+ $-$	(671,594)	(975,367)		
40	Notes Receivable from Associated Companies (145)		(071,034)	(975,507)		
40	Accounts Receivable from Associated Companies (145)		786,535	542,109		
42	Fuel Stock (151)	_				
42	Fuel Stock Expense Undistributed (152)					
73			_			

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	COMPARATIVE BALANCE SHEET (ASSETS AND OTHER DEBITS)					
Line	Title of Account	Reference Page Number	Current Year End of Quarter/Balance Year	Prior Year End Balance 12/31/2018		
No.	(a)	(b)	(C)	(d)		
44	Residuals (Elec) and Extracted Products (Gas) (153)	(2)	(*)	(")		
45	Plant Material and Operating Supplies (154)		15,484,130	13,381,651		
46	Merchandise (155)	_	944,230	879,463		
47	Other Material and Supplies (156)					
48	Nuclear Materials Held for Sale (157)		_			
49	Allowances (158.1 and 158.2)	_	_	_		
50	(Less) Noncurrent Portion of Allowances		_			
51	Stores Expenses Undistributed (163)		_			
52	Gas Stored Underground - Current (164.1)	220	24,753,544	26,164,527		
53	Liq. Natural Gas Stored and Held for Processing (164.2-164.3)	220	2,713,986	3,700,596		
54	Prepayments (165)	230	24,651,092	27,719,997		
55	Advances for Gas (166-167)					
56	Interest and Dividends Receivable (171)	_	_	_		
57	Rents Receivable (172)		_	_		
58	Accrued Utility Revenues (173)	_	56,139,400	57,773,088		
59	Miscellaneous Current and Accrued Assets (174)	_	3,796,240	4,015,983		
60	Derivative Instrument Assets (175)	_	10,138,486	9,726,000		
61	(Less) Long-Term Portion of Derivative Instrument Assets (175)	_	(3,336,883)	(725,000)		
62	Derivative Instrument Assets - Hedges (176)	_				
63	(Less) Long-Term Portion of Derivative Instrument Assets - Hedges (176)	_	_	_		
64	TOTAL Current and Accrued Assets (Total of lines 32 thru 63)	_	209,823,702	216,763,906		
65	DEFERRED DEBITS					
66	Unamortized Debt Expense (181)	259	6,731,211	6,859,484		
67	Extraordinary Property Losses (182.1)	230				
68	Unrecovered Plant and Regulatory Study Costs (182.2)	230	_	_		
69	Other Regulatory Assets (182.3)	232	19,381,684	21,402,172		
70	Prelim. Survey and Investigation Charges (Electric) (183)	_	_	_		
71	Prelim. Survey and Invest. Charges (Gas) (183.1, 183.2)	_	1,223,507	309,011		
72	Clearing Accounts (184)	_	25,793	398,385		
73	Temporary Facilities (185)	_	_	_		
74	Miscellaneous Deferred Debits (186)	233	359,690,847	389,388,768		
75	Def. Losses from Disposition of Utility Plant (187)	_				
76	Research, Devel. and Demonstration Expend. (188)	_	_	_		
77	Unamortized Loss on Reacquired Debt (189)	260	1,519,144	1,808,092		
78	Accumulated Deferred Income Taxes (190)	234-235				
79	Unrecovered Purchased Gas Costs (191)	_	19,773,514	(4,864,721)		
80	Total Deferred Debits (Total of lines 66 thru 79)		408,345,700	415,301,191		
81	Total Assets and Other Debits (Total of lines 10-15, 30, 64, and 80)		2,925,728,544	2,826,435,005		

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	COMPARATIVE BALANCE SHEET (LIABILITIES AND OTHER CREDITS)				
Line	Title of Account	Reference Page Number	Current Year End of Quarter/Balance Year	Prior Year End Balance 12/31/2018	
No.	(a)	(b)	(C)	(d)	
1	PROPRIETARY CAPITAL				
2	Common Stock Issued (201)	250-251	228,868,408	228,868,408	
3	Preferred Stock Issued (204)	250-251	1	1	
4	Capital Stock Subscribed (202, 205)	252	_	_	
5	Stock Liability for Conversion (203, 206)	252	_	_	
6	Premium on Capital Stock (207)	252	_	_	
7	Other Paid-In Capital (208-211)	253	94,806,835	1,649,864	
8	Installments Received on Capital Stock (212)	252	_	51,579	
9	(Less) Discount on Capital Stock (213)	254	—	_	
10	(Less) Capital Stock Expense (214)	254	(4,118,163)	(4,118,163)	
11	Retained Earnings (215, 215.1, 216)	118-119	513,824,815	500,860,482	
12	Unappropriated Undistributed Subsidiary Earnings (216.1)	118-119	—	_	
13	(Less) Reacquired Capital Stock (217)	250-251	—	_	
14	Accumulated Other Comprehensive Income (219)	117	(10,733,393)	(7,187,559)	
15	TOTAL Proprietary Capital (Total of lines 2 thru 14)	—	822,648,503	720,124,612	
16	LONG-TERM DEBT				
17	Bonds (221)	256-257	849,700,000	739,700,000	
18	(Less) Reacquired Bonds (222)	256-257	—		
19	Advances from Associated Companies (223)	256-257	—	_	
20	Other Long-Term Debt (224)	256-257	—	—	
21	Unamortized Premium on Long-Term Debt (225)	258-259	-	_	
22	(Less) Unamortized Discount on Long-Term Debt-Dr. (226)	258-259	—	_	
23	(Less) Current Portion of Long-Term Debt	256	(75,000,000)	(30,000,000)	
24	TOTAL Long-Term Debt (Total of lines 17 thru 23)	256	774,700,000	709,700,000	
25	OTHER NONCURRENT LIABILITIES				
26	Obligations Under Capital Leases - Noncurrent (227)	—	772,078	—	
27	Accumulated Provision for Property Insurance (228.1)	—	49,000	49,000	
28	Accumulated Provision for Injuries and Damages (228.2)	_	98,810,516	97,813,193	
29	Accumulated Provision for Pensions and Benefits (228.3)	—	250,467,983	243,230,414	
30	Accumulated Miscellaneous Operating Provisions (228.4)				
31	Accumulated Provision for Rate Refunds (229)	_	_	_	

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗖 A Resubmission		December 31, 2019

	COMPARATIVE BALANCE SHEET (LIABILITIES AND OTHER CREDITS)					
Line	Title of Account	Reference Page Number	Current Year End of Quarter/Balance Year	Prior Year End Balance 12/31/2018		
No.	(a)	(b)	(C)	(d)		
32	Long-Term Portion of Derivative Instrument Liabilities	_	608,623	3,025,000		
33	Long-Term Portion of Derivative Instrument Liabilities - Hedges	_	—	—		
34	Asset Retirement Obligations (230)	_	—	—		
35	TOTAL Other Noncurrent Liabilities (Total of lines 26 thru 34)	_	350,708,200	344,117,607		
36	CURRENT AND ACCRUED LIABILITIES					
37	Current Portion of Long-term Debt	256	75,000,000	30,000,000		
38	Notes Payable (231)		125,100,000	217,500,000		
39	Accounts Payable (232)	_	110,209,202	113,505,529		
40	Notes Payable to Associated Companies (233)	_	—	_		
41	Accounts Payable to Associated Companies (234)	_	17,251,481	20,521,744		
42	Customer Deposits (235)		4,855,552	4,994,176		
43	Taxes Accrued (236)	262-263	12,968,972	10,989,713		
44	Interest Accrued (237)	_	7,441,256	7,272,799		
45	Dividends Declared (238)		_	_		
46	Matured Long-Term Debt (239)		—	_		
47	Matured Interest (240)	_	_	_		
48	Tax Collections Payable (241)		6,001,360	5,681,850		
49	Miscellaneous Current and Accrued Liabilities (242)	268	47,698,664	39,688,332		
50	Obligations Under Capital Leases-Current (243)	_	2,170,810	_		
51	Derivative Instrument Liabilities (244)	_	2,608,418	15,406,000		
52	(Less) Long-Term Portion of Derivative Instrument Liabilities		(608,623)	(3,025,000)		
53	Derivative Instrument Liabilities - Hedges (245)	_	—	_		
54	(Less) Long-Term Portion of Derivative Instrument Liabilities - Hedges	_	_	_		
55	TOTAL Current and Accrued Liabilities (Total of lines 37 thru 54)		410,697,092	462,535,143		
56	DEFERRED CREDITS					
57	Customer Advances for Construction (252)	_	7,367,884	4,410,555		
58	Accumulated Deferred Investment Tax Credits (255)		—	2		
59	Deferred Gains from Disposition of Utility Plant (256)	_	_	_		
60	Other Deferred Credits (253)	269	6,116,933	32,686,031		
61	Other Regulatory Liabilities (254)	278	236,912,097	253,954,660		
62	Unamortized Gain on Reacquired Debt (257)	260	_			
63	Accumulated Deferred Income Taxes - Accelerated Amortization (281)	_		_		
64	Accumulated Deferred Income Taxes - Other Property (282)	_	<u> </u>	_		
65	Accumulated Deferred Income Taxes - Other (283)	276-277	316,577,835	298,906,395		
66	TOTAL Deferred Credits (Total of lines 57 thru 65)	_	566,974,749	589,957,643		
67	TOTAL Liabilities and Other Credits (Total of lines 15, 24, 35, 55 and 66)	_	2,925,728,544	2,826,435,005		

Blank Page

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATEMENT OF INCOME FOR THE YEAR

1. Report amounts for accounts 412 and 413, Revenue and Expenses from Utility Plant Leased to Others, in another utility column (i,j) in a similar manner to a utility department. Spread the amounts(s) over lines 2 thru 26 as appropriate. Include these amounts in columns (c) and (d) totals.

2. Report amounts in account 414, Other Utility Operating Income, in the same manner as accounts 412 and 413 above.

3. Report data for lines 8, 10, and 11 for Natural Gas companies using accounts 404.1, 404.2, 404.3, 407.1, and 407.2.

Line	Account	(Ref.) Page No.	Total Current Year (in dollars)	Total Previous Year (in dollars)	Current Three Months Ended Quarterly Only No Fourth Quarter	Prior Three Months Ended Quarterly Only No Fourth Quarter
No.	(a)	(b)	(c)	(d)	(e)	(f)
1	UTILITY OPERATING INCOME					
2	Gas Operating Revenues (400)	300-301	707,972,788	667,434,653		
3	Operating Expenses	—				
4	Operation Expenses (401)	320-325	434,864,232	399,875,625		
5	Maintenance Expenses (402)	320-325	16,751,989	17,251,204		
6	Depreciation Expense (403)	336-338	89,414,896	83,732,032		
7	Depreciation Expense for Asset Retirement Costs (403.1)	—	_	—		
8	Amort. & Depl. of Utility Plant (404-405)	336-338	_	—		
9	Amort. of Utility Plant Acu. Adjustment (406)	336-338		—		
10	Amort of Prop. Losses, Unrecovered Plant and Regulatory Study Costs (407.1)	_	_	_		
11	Amort. of Conversion Expenses (407.2)	-	_	—		
12	Regulatory Debits (407.3)	_	12,336,840	11,127,377		
13	(Less) Regulatory Credits (407.4)	—		—		
14	Taxes Other Than Income Taxes (408.1)	262-263	49,362,241	48,709,075		
15	Income Taxes - Federal (409.1)	262-263	5,322,258	6,512,869		
16	Income Taxes - Other (409.1)	262-263	1,596,168	2,927,402		
17	Provision for Deferred Income Taxes (410.1)	276-277	60,848,892	37,215,916		
18	(Less) Provision for Deferred Income Taxes-Cr. (411.1)	276-277	56,029,969	26,037,795		
19	Investment Tax Credit Adj Net (411.4)	—	(2)	—		
20	(Less) Gains from Disp. of Utility Plant (411.6)	—	_	—		
21	Losses from Disp. of Utility Plant (411.7)	—	_	—		
22	(Less) Gains from Disposition of Allowances (411.8)	—		—		
23	Losses from Disposition of Allowances (411.9)	—	_	—		
24	Accretion Expense (411.10)	—				
25	TOTAL Utility Operating Expenses (Total of lines 4 thru 24)	_	614,467,545	581,313,705		
26	Net Utility Operating income (Enter Total of line 2 less 25) (Carry forward to page 116, line 27)	_	93,505,243	86,120,948		

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATEMENT OF INCOME FOR THE YEAR

4. Explain in a footnote if the previous year's figures are different from that reported in prior reports.

5. If the columns are insufficient for reporting additional utility departments, supply the appropriate account titles, line 2 to 23 and report the information in the blank space on page 122 or in a supplemental statement.

	1				1	i
Elec. Utility	Elec. Utility	Gas Utility	Gas Utility	Other Utility	Other Utility	
Total Current Year (in dollars)	Total Previous Year (in dollars)	Total Current Year (in dollars)	Total Previous Year (in dollars)	Total Current Year (in dollars)	Total Previous Year (in dollars)	Line
(g)	(h)	(i)	(j)	(k)	(I)	No.
						1
		707,972,788	667,434,653			2
					_	3
		434,864,232	399,875,625			4
		16,751,989	17,251,204			5
		89,414,896	83,732,032			6
						7
						8
			—			9
		_	_			10
		_	_			11
		12,336,840	11,127,377			12
						13
		49,362,241	48,709,075			14
		5,322,258	6,512,869			15
		1,596,168	2,927,402			16
		60,848,892	37,215,916			17
		56,029,969	26,037,795			18
		(2)				19
						20
		_	_			21
						22
						23
			—			24
		614,467,545	581,313,705			25
		93,505,243	86,120,948			26

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗖 A Resubmission		December 31, 2019

	STATEMENT OF INCOME (Continued)						
Line	Title of Account	Ref. Page No.	Total Current Year To Date Balance for Quarter/Year	Total Current Year To Date Balance for Quarter/Year	Current Three Months Ended Quarterly Only No Fourth Quarter	Prior Three Months Ended Quarterly Only No Fourth Quarter	
No.	(a)	(b)	(c)	(d)	(e)	(f)	
27	Net Utility Operating Income (Carried forward from page 114)	_	93,505,243	86,120,948			
28	Other Income and Deductions						
29	Other Income						
30	Nonutility Operating Income						
31	Revenues From Merch, Jobbing and Contract Work (415)	—	5,500,680	5,631,537			
32	(Less) Costs and Exp. of Merch, Job & Contract Work (416)	_	5,542,888	5,483,291			
33	Revenues From Nonutility Operations (417)	_	32,697,836	37,537,508			
34	(Less) Expenses of Nonutility Operations (417.1)	—	20,640,048	20,496,890			
35	Nonoperating Rental Income (418)	—	531,803	1,122,624			
36	Equity in Earnings of Subsidiary Companies (418.1)	119	_	(1,723,137)			
37	Interest and Dividend Income (419)		2,052,440	3,962,217			
38	Allow. for Other Funds Used During Constr (419.1)	—	656,996	3,964,151			
39	Miscellaneous Nonoperating Income (421)	—	33,037	159,048			
40	Gain on disposition of Property (421.1)	_	_	_			
41	TOTAL Other Income (Total of lines 31 thru 40)	_	15,289,856	24,673,767			
42	Other Income Deductions						
43	Loss on Disposition of Property (421.2)	_	_				
44	Miscellaneous Amortization (425)	_	_				
45	Donations (426.1)	340	1,281,112	1,107,144			
46	Life Insurance (426.2)	_	(1,596,257)	(1,682,347)			
47	Penalties (426.3)	_	_				
48	Expenditures for Certain Civic, Political and Related Activities (426.4)	_	1,012,855	1,232,171			
49	Other Deductions (426.5)	_	13,156	51,252			
50	TOTAL Other Income Deductions (Total of Lines 43 thru 49)	340	710,866	708,220			
51	Taxes Applic. to Other Income and Deductions						
52	Taxes Other Than Income Taxes (408.2)	262-263	744,587	712,140			
53	Income Taxes - Federal (409.2)	262-263	1,433,253	2,614,005			
54	Income Taxes - Other (409.2)	262-263	505,145	918,648			
55	Provision for Deferred Inc. Taxes (410.2)	272-277	(1,055,888)	927,469			
56	(Less) Provision for Deferred Inc. Taxes - Cr. (411.2)	272-277	(2,935)	63,824			
57	Investment Tax Credit Adj Net (411.5)	—	_	_			
58	(Less) Investment Tax Credits (420)	—	_	_			
59	TOTAL Taxes on Other Inc. and Ded. (Total of 52 thru 58)	—	1,630,032	5,108,438			
60	Net Other Income and Deductions (Total of Lines 41, 50, 59)	—	12,948,958	18,857,109			
61	Interest Charges						
62	Interest on Long-Term Debt (427)	256-257	39,441,347	36,998,114			
63	Amortization of Debt Disc. and Expense (428)	258-259	1,521,518	1,693,322			
64	Amortization of Loss on Reacquired Debt (428.1)	260	288,948	309,472			
65	(Less) Amort. of Premium on Debt - Credit (429)	256-257	—	_			
66	(Less) Amortization of Gain on Reacquired Debt - Credit (429.1)	_					
67	Interest on Debt to Assoc. Companies (430)	340	—	_			
68	Other Interest Expense (431)	—	3,858,212	2,904,881			
69	(Less) Allow. for Borrowed Funds Used During ConstCr. (432)		3,626,359	4,796,752			

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗖 A Resubmission		December 31, 2019

	STATEMENT OF I	NCOME	(Continued)		
Line	Title of Account	Ref. Page No.	Total Current Year To Date Balance for Quarter/Year	Total Current Year To Date Balance for Quarter/Year	Current Three Months Ended Quarterly Only No Fourth Quarter	Prior Three Months Ended Quarterly Only No Fourth Quarter
No.	(a)	(b)	(c)	(d)	(e)	(f)
70	Net Interest Charges (Total of lines 62 thru 69) (See note 1 below)		41,483,666	37,109,037		
71	Income Before Extraordinary Items (Total of lines 27, 60 and 70)		64,970,535	67,869,020		
72	Extraordinary Items					
73	Extraordinary Income (434)	—	—	_		
74	(Less) Extraordinary Deductions (435)	—	_	_		
75	Net Extraordinary Items (Total of line 73 less 74)	_	_	_		
76	Income Taxes - Federal and Other (409.3)	262-263	_	_		
77	Extraordinary Items After Taxes (Total of line 75 less line 76)	_	_	_		
78	Net Income (Total of lines 71 and 77)	_	64,970,535	67,869,020		
Note	1					•
	Line 70 detail					
	Utility interest expense		40,645,828	36,092,688		
	Non-Utility interest expense		837,838	1,016,349		
			41,483,666	37,109,037	•	

Note 2

Accounting standards allow for the capitalization of all or part of an incurred cost that would otherwise be charged to expense if a regulator provides orders that create probable recovery of past costs through future revenues. NW Natural Gas Company accrues interest as specified by regulatory order on certain regulatory balances at our authorized rate of return (ROR). This ROR includes both a debt and equity component, which we are allowed to recover from customers in the form of a carrying cost on regulatory deferred account balances. The equity component of our ROR is not an incurred cost that would otherwise be charged to expense, and therefore is not capitalized and recognized as income for financial reporting purposes. This leads to a difference in reported Net Income between the FERC Form 2 and the Form 10-K filed with the Securities & Exchange Commission (SEC).

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATEMENT OF ACCUMULATED COMPREHENSIVE INCOME AND HEDGING ACTIVITIES

1. Report the amounts of accumulated other comprehensive income items, on a net-of-tax basis, where appropriate.

2. Report the amounts of other categories of other cash flow hedges.

3. For each category of hedges that have been accounted for as "fair value hedges", report the accounts affected and the related amounts in a footnote.

Line	Item	Current Year Amount
No.	(a)	(b)
1	Beginning AOCI Balance	(7,187,559)
2	Unrealized Gains/losses on available-for-sale securities, net of tax	—
3	Pension liability adjustment, net of tax	(2,655,343)
4	Amortization of pension liabilities, net of tax	476,121
5	Foreign currency hedges, net of tax	—
6	Change in unrealized loss from hedging, net of tax	_
7	Cash flow hedges, net of tax	—
8	Other adjustments, net of tax (See Note 1)	(1,366,612)
9	Ending Balance of AOCI	(10,733,393)
Note 1	· Other adjustments, net of tax represents a reclassification from Accumulated Other Comprehensive Income to	Retained Earnings for

Note 1: Other adjustments, net of tax represents a reclassification from Accumulated Other Comprehensive Income to Retained Earnings for the effects of the corporate income tax rate change in 2017 on deferred tax balances that would have been "stranded" as a result of remeasurement triggered by the rate change. This reclassification was done in accordance with Accounting Standards Update (ASU) 2018-02.

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

1. Report all changes in appropriated retained earnings, unappropriated retained earnings, and unappropriated undistributed subsidiary earnings for the year. 2. Each credit and debit during the year should be identified as to the retained earnings account in which recorded (Accounts 433, 436-439 inclusive). Show the contra primary account affected in column (b). 3. State the purpose and amount for each reservation or appropriation of retained earnings. 4. List first Account 439, Adjustments to Retained Earnings, reflecting adjustments to the opening balance of retained earnings. Follow by credit, then debit items, in that order. 5. Show dividends for each class and series of capital stock. Line Item No. (a) (b) (b) 2. Changes (identify by prescribed retained earnings accounts) 3. Adjustments to Retained Earnings (Account 439) 4 5 5 500,860,482 4 5 6 Balance Transferred from Income (Account 439) 4 64,970,535 5 69,592,157 7 Appropriations of Retained Earnings (Account 436) 8 (53,372,813) 9 Dividends Declared - Preferred Stock (Account 438) 12 Common Stock - Cash Dividends 12 Common Stock - Stock Dividends		STATEMENT OF RETAINED EARNINGS FOR THE YEAR						
2. Each credit and debit during the year should be identified as to the retained earnings account in which recorded (Accounts 433, 436-439 inclusive). Show the contra primary account affected in column (b). 3. State the purpose and amount for each reservation or appropriation of retained earnings. 4. List first Account 439, Adjustments to Retained Earnings, reflecting adjustments to the opening balance of retained earnings. Follow by credit, then debit items, in that order. 5. Show dividends for each class and series of capital stock. Line Item No. (a) (a) (b) (c) Current Year Amount (d) UNAPPROPRIATED RETAINED EARNINGS 1 Balance - Beginning of Year 2 Changes (Identify by prescribed retained earnings accounts) 3 Adjustments to Retained Earnings (Account 439) 4 5 6 Balance Transferred from Income (Account 436) 8 9 Dividends Declared - Preferred Stock (Account 437) 10 11 Dividends Declared - Common Stock (Account 438) 12 Common Stock - Cash Dividends 9 Dividends Declared - Common Stock (Account 438) 11 Dividends D		port all changes in appropriated retained earnings, unappropriated retained earnings, ar		undistributed su	osidiary			
inclusive). Show the contra primary account affected in column (b). 3. State the purpose and amount for each reservation or appropriation of retained earnings. 4. List first Account 439, Adjustments to Retained Earnings, reflecting adjustments to the opening balance of retained earnings. Follow by credit, then debit items, in that order. 5. Show dividends for each class and series of capital stock. Line Line Line Line Line Line Line Lin								
4. List first Account 439, Adjustments to Retained Earnings, reflecting adjustments to the opening balance of retained earnings. Follow by credit, then debit items, in that order. 5. Show dividends for each class and series of capital stock. Line Item Contra Primary Account Affected Amount (b) Current Year Amount (c) No. (a) (b) (c) (d) UNAPPROPRIATED RETAINED EARNINGS Image: Contra Primary Account Affected Amount (b) (c) (d) 1 Balance - Beginning of Year 500,860,482 472,303,081 2 Changes (Identify by prescribed retained earnings accounts) 3 Adjustments to Retained Earnings (Account 439) Image: Contra Primary Adjustments of Retained Earnings (Account 438) Image: Contra Primary Adjustments of Retained Earnings (Account 436) Image: Contra Primary Adjustments of Retained Earnings (Account 437)) 4 Image: Contra Primary Appropriations of Retained Earnings (Account 438) Image: Contra Primary Adjustments of Contra Primary Appropriations of Retained Earnings (Account 438) Image: Contra Primary Appropriations of Contra Primary Appropriations of Contra Primary Appropriations of Contra Primary Approprime Contra Primary Appropristed Primary Approprime Contra Primary Appropr	2. Ea inclus	ch credit and debit during the year should be identified as to the retained earnings accou ive). Show the contra primary account affected in column (b).	ant in which record	ed (Accounts 43	3, 436-439			
credit, then debit items, in that order. 5. Show dividends for each class and series of capital stock. Line Item Contra Primary Account Affected Current Year Amount Previous Year Amount No. (a) (b) (c) Previous Year Amount 1 Balance - Beginning of Year 500,860,482 472,303,081 2 Changes (Identify by prescribed retained earnings accounts) 3 Adjustments to Retained Earnings (Account 439) 4	3. Sta	ate the purpose and amount for each reservation or appropriation of retained earnings.						
LineItemContra Primary Account AffectedCurrent Year AmountPrevious Year Amount1Balance - Beginning of Year500,860,482472,303,0812Changes (Identify by prescribed retained earnings accounts)4500,860,482472,303,0813Adjustments to Retained Earnings (Account 439)456Balance Transferred from Income (Account 433 less Account 418.1)64,970,53569,592,1577Appropriations of Retained Earnings (Account 436)89Dividends Declared - Preferred Stock (Account 437))1011Dividends Declared - Common Stock (Account 438)12Common Stock - Cash Dividends12.2(Total of lines 12.1 thru 12.2)(53,372,813)(40,786,480)13Transfers from Acct. 216.1, Unappropriated Undistributed Subsidiary Earnings			ning balance of reta	ained earning	s. Follow by			
LineItemAccount AffectedAmountNo.(a)(b)(c)(d)UNAPPROPRIATED RETAINED EARNINGS(b)(c)(d)1Balance - Beginning of Year500,860,482472,303,0812Changes (Identify by prescribed retained earnings accounts)3Adjustments to Retained Earnings (Account 439)	5. Sh	ow dividends for each class and series of capital stock.						
No. (a) (b) (c) (d) UNAPPROPRIATED RETAINED EARNINGS	Line	ltem	Contra Primary					
UNAPPROPRIATED RETAINED EARNINGS 1 Balance - Beginning of Year 2 Changes (Identify by prescribed retained earnings accounts) 3 Adjustments to Retained Earnings (Account 439) 4								
1 Balance - Beginning of Year 500,860,482 472,303,081 2 Changes (Identify by prescribed retained earnings accounts) 4 3 Adjustments to Retained Earnings (Account 439)			(5)	(0)	(4)			
2 Changes (Identify by prescribed retained earnings accounts) 3 Adjustments to Retained Earnings (Account 439) 4	1			500 860 482	472 303 081			
3 Adjustments to Retained Earnings (Account 439) 4				000,000,102	112,000,001			
4 6 5 6 6 Balance Transferred from Income (Account 433 less Account 418.1) 64,970,535 7 Appropriations of Retained Earnings (Account 436) 8 6 9 Dividends Declared - Preferred Stock (Account 437)) 10 10 11 Dividends Declared - Common Stock (Account 438) 12 Common Stock - Cash Dividends 12.1 Common Stock - Stock Dividends 12.2 (ToTAL Dividends Declared - Common Stock (Account 438) 12.2.1 ToTAL Dividends Declared - Common Stock (Account 438) 12.2.2 (Total of lines 12.1 thru 12.2) 13 Transfers from Acct. 216.1, Unappropriated Undistributed Subsidiary Earnings —								
5 6 Balance Transferred from Income (Account 433 less Account 418.1) 64,970,535 69,592,157 7 Appropriations of Retained Earnings (Account 436) 64,970,535 69,592,157 8 9 Dividends Declared - Preferred Stock (Account 437)) 64,970,535 69,592,157 10 10 10 10 10 11 11 Dividends Declared - Common Stock (Account 438) (53,372,813) (40,786,480) 12 Common Stock - Cash Dividends 12,1 (53,372,813) (40,786,480) 12.1 Common Stock - Stock Dividends - - - 12.2 (Total of lines 12.1 thru 12.2) (53,372,813) (40,786,480) 13 Transfers from Acct. 216.1, Unappropriated Undistributed Subsidiary Earnings - -								
6 Balance Transferred from Income (Account 433 less Account 418.1) 64,970,535 69,592,157 7 Appropriations of Retained Earnings (Account 436) 8 9 Dividends Declared - Preferred Stock (Account 437)) 10 11 Dividends Declared - Common Stock (Account 438) 12 Common Stock - Cash Dividends (53,372,813) (40,786,480) 12.1 Common Stock - Stock Dividends 12.2.2 (Total of lines 12.1 thru 12.2) (53,372,813) (40,786,480) 13 Transfers from Acct. 216.1, Unappropriated Undistributed Subsidiary Earnings								
7 Appropriations of Retained Earnings (Account 436) 8 9 Dividends Declared - Preferred Stock (Account 437)) 10 11 Dividends Declared - Common Stock (Account 438) 12 Common Stock - Cash Dividends 12.1 Common Stock - Stock Dividends 12.2 TOTAL Dividends Declared - Common Stock (Account 438) 12.2.2 (Total of lines 12.1 thru 12.2) 13 Transfers from Acct. 216.1, Unappropriated Undistributed Subsidiary Earnings		Balance Transferred from Income (Account 433 less Account 418 1)		64 970 535	69 592 157			
8				01,010,000	00,002,101			
9 Dividends Declared - Preferred Stock (Account 437)) 10 10 11 Dividends Declared - Common Stock (Account 438) 12 Common Stock - Cash Dividends 12.1 Common Stock - Stock Dividends 12.1 Common Stock - Stock Dividends 12.2 TOTAL Dividends Declared - Common Stock (Account 438) 12.2.2 TOTAL Dividends Declared - Common Stock (Account 438) 12.3 Transfers from Acct. 216.1, Unappropriated Undistributed Subsidiary Earnings								
10 10 11 Dividends Declared - Common Stock (Account 438) 12 Common Stock - Cash Dividends 12.1 Common Stock - Stock Dividends 12.2 TOTAL Dividends Declared - Common Stock (Account 438) 12.2 TOTAL Dividends Declared - Common Stock (Account 438) 12.2 TOTAL Dividends Declared - Common Stock (Account 438) 13 Transfers from Acct. 216.1, Unappropriated Undistributed Subsidiary Earnings		Dividends Declared - Preferred Stock (Account 437))						
11 Dividends Declared - Common Stock (Account 438) 12 Common Stock - Cash Dividends (53,372,813) 12.1 Common Stock - Stock Dividends — 12.1 Common Stock - Stock Dividends — 12.2 TOTAL Dividends Declared - Common Stock (Account 438) (53,372,813) 12.2.2 TOTAL Dividends Declared - Common Stock (Account 438) (53,372,813) 13 Transfers from Acct. 216.1, Unappropriated Undistributed Subsidiary Earnings — —								
12 Common Stock - Cash Dividends (53,372,813) (40,786,480) 12.1 Common Stock - Stock Dividends — — — 12.1 Common Stock - Stock Dividends — — — TOTAL Dividends Declared - Common Stock (Account 438) (53,372,813) (40,786,480) 12.2 (Total of lines 12.1 thru 12.2) (53,372,813) (40,786,480) 13 Transfers from Acct. 216.1, Unappropriated Undistributed Subsidiary Earnings — —		Dividends Declared - Common Stock (Account 438)						
12.1 Common Stock - Stock Dividends — — 12.1 Common Stock - Stock Dividends — — TOTAL Dividends Declared - Common Stock (Account 438) (53,372,813) (40,786,480) 12.2 (Total of lines 12.1 thru 12.2) (53,372,813) (40,786,480) 13 Transfers from Acct. 216.1, Unappropriated Undistributed Subsidiary Earnings — —				(53,372,813)	(40,786,480)			
12.2 TOTAL Dividends Declared - Common Stock (Account 438) (Total of lines 12.1 thru 12.2) (53,372,813) (40,786,480) 13 Transfers from Acct. 216.1, Unappropriated Undistributed Subsidiary Earnings — —								
13 Transfers from Acct. 216.1, Unappropriated Undistributed Subsidiary Earnings — —	12.2	TOTAL Dividends Declared - Common Stock (Account 438) (Total of lines 12.1 thru 12.2)		(53,372,813)	(40,786,480)			
	13							
13.1 Other Changes (Explain) (see Note 1 below) 1,366,611 (248,276)	13.1			1,366,611	(248,276)			
14 Balance - End of Year (Total of lines 1, 4, 5, 6, 8, 10, 12, and 13) 513,824,815 500,860,482	14	Balance - End of Year (Total of lines 1, 4, 5, 6, 8, 10, 12, and 13)		513,824,815	500,860,482			
15 APPROPRIATED RETAINED EARNINGS (Account 215)	15			· ·				
16 TOTAL Appropriated Retained Earnings (Account 215)	16	TOTAL Appropriated Retained Earnings (Account 215)						
APPROPRIATED RETAINED EARNINGS - AMORTIZATION RESERVE, FEDERAL 17 (Account 215.1)	17							
18 TOTAL Appropriated Retained Earnings - Amortization Reserve,	18	TOTAL Appropriated Retained Earnings - Amortization Reserve,		_				
19 TOTAL Appropriated Retained Earnings (Accounts 215, 215.1)	19	TOTAL Appropriated Retained Earnings (Accounts 215, 215.1)						
	20			513,824,815	500,860,482			
21 UNAPPROPRIATED UNDISTRIBUTED SUBSIDIARY EARNINGS (ACCOUNT 216.1)	21	UNAPPROPRIATED UNDISTRIBUTED SUBSIDIARY EARNINGS (ACCOUNT 216.1)						
Report only on an Annual Basis No Quarterly		Report only on an Annual Basis No Quarterly						
22 Balance - Beginning of Year (Debit or Credit)	22	Balance - Beginning of Year (Debit or Credit)		_	(167,041,082)			
	23			_	(1,723,137)			
24 (Less) Dividends Received (Debit)	24	(Less) Dividends Received (Debit)		_	_			
25 Other Changes (Explain) (see Note 2 below) — 168,764,219	25	Other Changes (Explain) (see Note 2 below)		_	168,764,219			
26 Balance - End of year (Total of lines 20 thru 23) — — —	26	Balance - End of year (Total of lines 20 thru 23)		_				

Note 1: For 2019, Line 13.1 - Other Changes represents a reclassification from Accumulated Other Comprehensive Income (219) to Retained Earnings for the effects of the corporate income tax rate change in 2017 on deferred tax balances that would have been "stranded" as a result of remeasurement triggered by the rate change. This reclassification was done in accordance with Accounting Standards Update (ASU) 2018-02. For 2018, Line 13.1 - Other Changes include non-cash dividend adjustments to the LTIP awards and immaterial round differences.

Note 2: For 2018, Line 25 - Other Changes represent the reorganization of the Company into a Holding Company structure. As part of the reorganization, non-utility entities previously consolidated by NW Natural (i.e. Northwest Natural Gas Financing Corp.; KB Pipeline Corp.; NW Natural Energy LLC; NW Natural Gas Storage; Gill Ranch Storage; NW Natural Water; NW Natural Holding Company) were no longer consolidated effective October 1, 2018. As a result, unappropriated undistributed subsidiary earnings are now zero.

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATEMENT OF CASH FLOWS

1. Codes to be used: (a) Net Proceeds or Payments; (b) Bonds, debentures and other long-term debt; (c) Include commercial paper; (d) Identify separately such items as investments, fixed assets, intangibles, etc.

2. Information about noncash investing and financing activities should be provided on page 122. Provide also on page 122 a reconciliation between "Cash and Cash Equivalents at End of Year" with related amounts on the balance sheet.

3. Operating Activities-Other: Include gains and losses pertaining to operating activities only. Gains and losses pertaining to investing and financing activities should be reported in those activities. Show on page 122 the amounts of interest paid (net of amounts capitalized)and income taxes paid.

4. Investing Activities: Include at Other (line 25) net cash outflow to acquire other companies. Provide a reconciliation of assets acquired with liabilities assumed on page 122. Do not include on this statement the dollar amount of leases capitalized per the USofA General Instruction 20; instead provide a reconciliation of the dollar amount of leases capitalized with the plant cost.

Line	DESCRIPTION (See Instructions for Explanation of Codes)	Current Year Amount	Previous Year Amount
No.	(a)	(b)	(C)
1	Net Cash Flow from Operating Activities:		
2	Net Income (Line 78(c) on page 116)	64,970,535	67,869,020
3	Noncash Charges (Credits) to Income:		
4	Depreciation and Depletion	90,405,471	84,986,458
5	Amortization	1,810,466	1,693,322
5.01	FAS 109 Deferred Taxes	(2,020,488)	(806,352)
5.02	FAS 109 Regulatory Asset	2,020,488	806,352
6	Deferred Income Taxes (Net)	19,691,928	11,408,794
7	Investment Tax Credit Adjustments (Net)	(2)	
8	Net (Increase) Decrease in Receivables	(1,739,573)	272,563
9	Net (Increase) Decrease in Inventory	(1,088,738)	6,784,474
10	Net (Increase) Decrease in Allowances Inventory		_
11	Net Increase (Decrease) in Payables and Accrued Expenses	(13,313,922)	(14,932,083)
12	Minimum Pension Liability Adjustment	(2,179,222)	1,250,280
13	Unrealized (gain)/loss from price risk management activities	(30,252,631)	8,894,640
14	(Less) Allowance for Other Funds Used During Construction	(4,283,355)	(8,760,903)
15	(Less) Undistributed Earnings from Subsidiary Companies (See Note 1)		170,487,356
16	Other: Net (Increase) Decrease in Unbilled Revenues	1,633,688	4,607,808
16.01	Deferred Debits - Net	20,097,319	(46,143,075)
16.02	Net (Increase) Decrease in Other Current Assets & Liab.	14,309,316	5,805,807
16.03	Other - Noncurrent Liab., Deferred Credits, & Other Invest.	(19,136,054)	(1,977,718)
16.04	Other - Transfer of Subsidiaries to NW Holdings in 2018		(224,875,662)
17	Net Cash Provided by (Used in) Operating Activities		, <u>, , , , , , , , , , , , , , , , , , </u>
18	(Total of lines 2 thru 16.04)	140,925,226	67,371,081
19			
20	Cash Flows from Investment Activities:		
21	Construction and Acquisition of Plant (including land):		
22	Gross Additions to Utility Plant (less nuclear fuel)	(219,545,727)	(191,835,778)
23	Gross Additions to Nuclear Fuel		
24	Gross Additions to Common Utility Plant	_	_
25	Gross Additions to Nonutility Plant	(1,671,431)	(2,219,252)
26	(Less) Allowance for Other Funds Used During Construction	4,283,355	8,760,903
27	Other	(153,126)	471,346
28	Cash Outflows for Plant (Total of lines 22 thru 27)	(217,086,929)	
29			<u> </u>
30	Acquisition of Other Noncurrent Assets (d)	_	
31	Proceeds from Disposal of Noncurrent Assets (d)		_
32			
33	Investments in & Advances to Assoc. & Sub. Companies		_
34	Contributions & Advances from Assoc. & Sub. Companies	17,451,886	44,874,147
35	Disposition of Investments in (and Advances to)		
36	Associated and Subsidiary Companies		
37			
38	Purchase of Investment Securities (a)		_
39	Proceeds from Sales of Investment Securities (a)		_

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗖 A Resubmission		December 31, 2019

Line	STATEMENT OF CASH FLOWS (Cont DESCRIPTION (See Instructions for Explanation of Codes)		Previous Year Amount
No.	(a)	(b)	(C)
40	Loans Made or Purchased	(5)	(0)
41	Collections on Loans		
42			
43	Net (Increase) Decrease in Receivables	_	_
44	Net (Increase) Decrease in Inventory		_
45	Net (Increase) Decrease in Allowances Held for Speculation		
46	Net Increase (Decrease) in Payables and Accrued Expenses		_
47			_
48	Net Cash Provided by (Used in) Investing Activities		
49	(Total of lines 28 thru 47)	(199,635,043)	(139,948,634
50			
51	Cash Flows from Financing Activities:	-	
52	Proceeds from Issuance of:	-	
53	Long-Term Debt (b)	140,000,000	50,000,000
54	Preferred Stock	_	_
55	Common Stock	_	1,368,024
56	Other: Capital Contribution from Parent	93,154,933	-
57	Net Increase in Short-Term Debt (c)	(92,400,000)	163,300,004
58			
59	Cash Provided by Outside Sources (Total of lines 53 thru 58)	140,754,933	214,668,028
60			
61	Payments for Retirement of:		
62	Long-Term Debt (b)	(30,000,000)	(97,000,000
63	Preferred Stock	_	
64	Common Stock	—	483,714
65	Other: Capital Leases		_
66	Net Increase (Decrease) in Short-Term Debt (c)		_
67	Capital Stock Expense		
68	Dividends on Preferred Stock		-
69	Dividends on Common Stock	(53,372,813)	(40,786,48
70	Net Cash Provided by (Used in) Financing Activities		
71	(Total of lines 59 thru 69)	57,382,120	77,365,262
72			
73	Net Increase (Decrease) in Cash and Cash Equivalents		
74	(Total of lines 18, 49, and 71)	(1,327,697)	4,787,709
75			
76	Cash and Cash Equivalents at Beginning of Period	10,203,632	5,415,923
77			
78	Cash and Cash Equivalents at End of Period	8,875,935	10,203,632

Note 1: Effective October 1, 2018, NW Natural completed a reorganization into a holding company structure. As part of the reorganization, non-utility entities previously consolidated by NW Natural (i.e. Northwest Natural Gas Financing Corp.; KB Pipeline Corp.; NW Natural Energy LLC; NW Natural Gas Storage; Gill Ranch Storage; NW Natural Water; NW Natural Holding Company) were no longer consolidated effective October 1, 2018.

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

NOTES TO FINANCIAL STATEMENTS

1. Provide important disclosures regarding the Balance Sheet, Statement of Income for the Year, Statement of Retained Earnings for the Year, and Statement of Cash Flow, or any account thereof. Classify the disclosures according to each financial statement, providing a subheading for each statement except where a disclosure is applicable to more than one statement. The disclosures must be on the same subject matters and in the same level of detail that would be required if the respondent issued general purpose financial statements to the public or shareholders.

2. Furnish details as to any significant contingent assets or liabilities existing at year end, and briefly explain any action initiated by the Internal Revenue Service involving possible assessment of additional income taxes of material amount, or a claim for refund of income taxes of a material amount initiated by the utility. Also, briefly explain any dividends in arrears on cumulative preferred stock.

3. Furnish details on the respondent's pension plans, post-retirement benefits other than pensions (PBOP) plans, and post-employment benefit plans as required by instruction no. 1 and, in addition, disclose for each individual plan the current year's cash contributions. Furnish details on the accounting for the plans and any changes in the method of accounting for them. Include details on the accounting for transition obligations or assets, gains or losses, the amounts deferred and the expected recovery periods. Also, disclose any current year's plan or trust curtailments, terminations, transfers, or reversions of assets. Entities that participate in multiemployer postretirement benefit plans (e.g. parent company sponsored pension plans) disclose in addition to the required disclosures for the consolidated plan, (1) the amount of cost recognized in the respondent's financial statements for each plan for the period presented, and (2) the basis for determining the respondent's share of the total plan costs.

4. Furnish details on the respondent's asset retirement obligations (ARO) as required by instruction no. 1 and, in addition, disclose the amounts recovered through rates to settle such obligations. Identify any mechanism or account in which recovered funds are being placed (i.e. trust funds, insurance policies, surety bonds). Furnish details on the accounting for the asset retirement obligations and any changes in the measurement or method of accounting for the obligations. Include details on the accounting for settlement of the obligations and any gains or losses expected or incurred on the settlement.

5. Provide a list of all environmental credits received during the reporting period.

6. Provide a summary of revenues and expenses for each tracked cost and special surcharge.

7. Where Account 189, Unamortized Loss on Reacquired Debt, and 257, Unamortized Gain on Reacquired Debt, are not used, give an explanation, providing the rate treatment given these item. See General Instruction 17 of the Uniform System of Accounts.

8. Explain concisely any retained earnings restrictions and state the amount of retained earnings affected by such restrictions.

9. Disclose details on any significant financial changes during the reporting year to the respondent or the respondent's consolidated group that directly affect the respondent's gas pipeline operations, including: sales, transfers or mergers of affiliates, investments in new partnerships, sales of gas pipeline facilities or the sale of ownership interests in the gas pipeline to limited partnerships, investments in related industries (i.e., production, gathering), major pipeline investments, acquisitions by the parent corporation(s), and distributions of capital.

10. Explain concisely unsettled rate proceedings where a contingency exists such that the company may need to refund a material amount to the utility's customers or that the utility may receive a material refund with respect to power or gas purchases. State for each year affected the gross revenues or costs to which the contingency relates and the tax effects and explain the major factors that affect the rights of the utility to retain such revenues or to recover amounts paid with respect to power and gas purchases.

11. Explain concisely significant amounts of any refunds made or received during the year resulting from settlement of any rate proceeding affecting revenues received or costs incurred for power or gas purchases, and summarize the adjustments made to balance sheet, income, and expense accounts.

12. Explain concisely only those significant changes in accounting methods made during the year which had an effect on net income, including the basis of allocations and apportionments from those used in the preceding year. Also give the approximate dollar effect of such changes.

13. For the 3Q disclosures, respondent must provide in the notes sufficient disclosures so as to make the interim information not misleading. Disclosures which would substantially duplicate the disclosures contained in the most recent FERC Annual Report may be omitted.

14. For the 3Q disclosures, the disclosures shall be provided where events subsequent to the end of the most recent year have occurred which have a material effect on the respondent. Respondent must include in the notes significant changes since the most recently completed year in such items as: accounting principles and practices; estimates inherent in the preparation of the financial statements; status of long-term contracts; capitalization including significant new borrowings or modifications of existing financing agreements; and changes resulting from business combinations or dispositions. However where material contingencies exist, the disclosure of such matters shall be provided even though a significant change since year end may not have occurred.

15. Finally, if the notes to the financial statements relating to the respondent appearing in the annual report to the stockholders are applicable and furnish the data required by the above instructions, such notes may be included herein.

Note: The Notes to Consolidated Financial Statements included herein appear in the annual report to shareholders as filed with the Securities and Exchange Commission (SEC) on Form 10-K dated March 2, 2020. The annual report to shareholders is prepared on a combined-basis with NW Natural's parent company, Northwest Natural Holding Company (NW Holdings). As such, the Notes herein may contain information relating to NW Holdings or its other subsidiaries that are not relevant to this filing and may differ in presentation and classification, as appropriate, from FERC requirements.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

1. ORGANIZATION AND PRINCIPLES OF CONSOLIDATION

On October 1, 2018, we completed a reorganization into a holding company structure. In this reorganization, shareholders of NW Natural (the predecessor publicly held parent company) became shareholders of NW Holdings on a one-for-one basis; maintaining the same number of shares and ownership percentage as held in NW Natural immediately prior to the reorganization. NW Natural became a wholly-owned subsidiary of NW Holdings. Additionally, certain subsidiaries of NW Natural were transferred to NW Holdings. This reorganization was accounted for as a transaction among entities under common control. As required under accounting guidance, these subsidiaries are presented in this report as discontinued operations in the consolidated results of NW Natural. See Note 19 for additional information.

The accompanying consolidated financial statements represent the respective, consolidated financial results of NW Holdings and NW Natural and all respective companies that each registrant directly or indirectly controls, either through majority ownership or otherwise. This is a combined report of NW Holdings and NW Natural, which includes separate consolidated financial statements for each registrant.

NW Natural's regulated natural gas distribution activities are reported in the natural gas distribution (NGD) segment. The NGD segment is NW Natural's core operating business and serves residential, commercial, and industrial customers in Oregon and southwest Washington. The NGD segment is the only reportable segment for NW Holdings and NW Natural. All other activities, water businesses, and other investments are aggregated and reported as other at their respective registrant.

In addition, NW Holdings has reported discontinued operations results related to the pending sale of Gill Ranch Storage, LLC (Gill Ranch). All prior period amounts have been retrospectively adjusted to reflect this change both in operational results and reportable segments for NW Holdings and NW Natural, respectively. These reclassifications and the reorganization activities described above had no effect on the prior year's consolidated results of operations, financial condition, or cash flows. See Note 19 for additional information.

NW Holdings' direct and indirect wholly-owned subsidiaries as of the filing date of this report include:

- Northwest Natural Gas Company (NW Natural);
 - Northwest Energy Corporation (Energy Corp);
 - NWN Gas Reserves LLC (NWN Gas Reserves);
- NW Natural Energy, LLC (NWN Energy);
 - NW Natural Gas Storage, LLC (NWN Gas Storage);
 - Gill Ranch Storage, LLC (Gill Ranch), which is presented as a discontinued operation;
 - NNG Financial Corporation (NNG Financial);
 - KB Pipeline Company (KB);
- NW Natural Water Company, LLC (NWN Water);
 - Falls Water Co., Inc. (Falls Water);
 - Salmon Valley Water Company;
 - NW Natural Water of Oregon, LLC (NWN Water of Oregon);
 - Sunstone Water, LLC;
 - Sunstone Infrastructure, LLC;
 - Sunriver Water, LLC (Sunriver Water);
 - Sunriver Environmental, LLC (Sunriver Environmental);
 - NW Natural Water of Washington, LLC (NWN Water of Washington);
 - Cascadia Water, LLC (Cascadia Water);
 - Cascadia Infrastructure, LLC;
 - Suncadia Water Company, LLC (Suncadia Water);
 - Suncadia Environmental Company, LLC (Suncadia Environmental);
 - NW Natural Water of Idaho, LLC (NWN Water of Idaho);
 - Gem State Water Company, LLC (Gem State Water);
 - Gem State Infrastructure, LLC; and
 - NW Natural Water of Texas, LLC (NWN Water of Texas);
 - Blue Topaz Water, LLC; and
 - Blue Topaz Infrastructure, LLC.

Investments in corporate joint ventures and partnerships that NW Holdings does not directly or indirectly control, and for which it is not the primary beneficiary, include NNG Financial's investment in Kelso-Beaver Pipeline and NWN Energy's investment in Trail West Holdings, LLC (TWH), which are accounted for under the equity method. NW Holdings and its direct and indirect subsidiaries are collectively referred to herein as NW Holdings, and NW Natural and its direct and indirect subsidiaries are collectively referred to herein as NW Holdings financial statements of NW Holdings and NW Natural are presented after elimination of all intercompany balances and transactions.

During the second quarter of 2018, we moved forward with our long-term strategic plans, which include a shift away from the California gas storage business. In June 2018, NWN Gas Storage, a wholly-owned subsidiary of NW Natural at the time and now a wholly-owned subsidiary of NW Holdings, entered into a Purchase and Sale Agreement that provides for the sale of all of the membership interests in its wholly-owned subsidiary, Gill Ranch. We received regulatory approval for the sale in December 2019. We have concluded that the pending sale of Gill Ranch qualifies as assets and liabilities held for sale and discontinued operations. As such, the results of Gill Ranch have been presented as a discontinued operation for NW Holdings for all periods presented and for NW Natural up until the holding company reorganization was effective on October 1, 2018 on the consolidated statements of comprehensive income and cash flows, and the assets and liabilities associated with Gill Ranch have been classified as discontinued operations. Additionally, we reevaluated reportable segments and concluded that the remaining gas storage activities no longer met the requirements to be separately reported as a segment. Interstate Storage Services is now reported in Other under NW Natural and NW Holdings as applicable, and all prior periods reflect this change. See Note 4, which provides segment information.

Notes to the consolidated financial statements reflect the activity of continuing operations for both NW Holdings and NW Natural for all periods presented, unless otherwise noted.

2. SIGNIFICANT ACCOUNTING POLICIES

Use of Estimates

The preparation of financial statements in conformity with generally accepted accounting principles in the United States of America (U.S. GAAP) requires management to make estimates and assumptions that affect reported amounts in the consolidated financial statements and accompanying notes. Actual amounts could differ from those estimates, and changes would most likely be reported in future periods. Management believes the estimates and assumptions used are reasonable.

Industry Regulation

NW Holdings' principal business is to operate as a holding company for NW Natural and its other subsidiaries.

NW Natural's principal business is the distribution of natural gas, which is regulated by the OPUC and WUTC. NW Natural also has natural gas storage services, which are regulated by the FERC, and to a certain extent by the OPUC and WUTC. Additionally, certain of NW Holdings' subsidiaries own water businesses, which are regulated by the public utility commission in the state in which the water utility is located, which is currently Oregon, Washington and Idaho. Accounting records and practices of the regulated businesses conform to the requirements and uniform system of accounts prescribed by these regulatory authorities in accordance with U.S. GAAP. The businesses in which customer rates are regulated by the OPUC, WUTC, IPUC, and FERC have approved cost-based rates which are intended to allow such businesses to earn a reasonable return on invested capital.

In applying regulatory accounting principles, NW Holdings and NW Natural capitalize or defer certain costs and revenues as regulatory assets and liabilities pursuant to orders of the applicable state public utility commission, which provide for the recovery of revenues or expenses from, or refunds to, utility customers in future periods, including a return or a carrying charge in certain cases.

Amounts NW Natural deferred as regulatory assets and liabilities were as follows:

	Regu	latory A	Assets	
In thousands	2019		2018	
Current:				
Unrealized loss on derivatives ⁽¹⁾	\$ 2,0	00 \$	12,38	
Gas costs	20,1	40	2,873	
Environmental costs ⁽²⁾	4,7	62	5,601	
Decoupling ⁽³⁾	1,9	69	9,140	
Pension balancing ⁽⁴⁾	5,9	39	_	
Income taxes	2,2	09	2,218	
Other ⁽⁵⁾	4,9	10	9,717	
Total current	\$ 41,9	29 \$	41,930	
Non-current:				
Unrealized loss on derivatives ⁽¹⁾	\$ 6	09 \$	3,025	
Pension balancing ⁽⁴⁾	48,2	51	74,173	
Income taxes	17,1	73	19,185	
Pension and other postretirement benefit liabilities	173,2		174,993	
Environmental costs ⁽²⁾	87,6	24	76,149	
Gas costs	2,8	66	9,978	
Decoupling ⁽³⁾		_	2,545	
Other ⁽⁵⁾	13,3	61	11,738	
Total non-current	\$ 343,1		371,786	
	Regula	tory Lia	abilities	
In thousands	2019		2018	
Current:				
Gas costs	\$ 1,2	23 \$	17,182	
Unrealized gain on derivatives ⁽¹⁾	¢ ·· 6,6		8,740	
Decoupling ⁽³⁾	4,8		2,264	
Income taxes ⁽⁶⁾	8,4		_,	
Other ⁽⁵⁾	23,5		19,250	
Total current	\$ 44,6		47,436	
Non-current:	<u> </u>	<u> </u>	,	
Gas costs	\$ 2,0	13 \$	552	
Unrealized gain on derivatives ⁽¹⁾	3,3		725	
Decoupling ⁽³⁾	6,3		_	
Income taxes ⁽⁶⁾	198,2		225,408	
Accrued asset removal costs ⁽⁷⁾	401,8		380,464	
Other ⁽⁵⁾	13,8		4,411	
Total non-current		17 \$	611,560	
⁽¹⁾ Unrealized gains or losses on derivatives are non-cash items and, therefore				

⁽¹⁾ Unrealized gains or losses on derivatives are non-cash items and, therefore, do not earn a rate of return or a carrying charge. These amounts are recoverable through natural gas distribution rates as part of the annual Purchased Gas Adjustment (PGA) mechanism when realized at settlement.

⁽²⁾ Refer to the Environmental Cost Deferral and Recovery table in Note 18 for a description of environmental costs.

⁽³⁾ This deferral represents the margin adjustment resulting from differences between actual and expected volumes.

⁽⁴⁾ Refer to Note 10 for information regarding the deferral of pension expenses.

⁽⁵⁾ Balances consist of deferrals and amortizations under approved regulatory mechanisms and typically earn a rate of return or carrying charge.

⁽⁶⁾ This balance represents estimated amounts associated with the Tax Cuts and Jobs Act. See Note 11.

(7) Estimated costs of removal on certain regulated properties are collected through rates. See "Accounting Policies—*Plant, Property, and Accrued Asset Removal Costs*" below.

The amortization period for NW Natural's regulatory assets and liabilities ranges from less than one year to an indeterminable period. Regulatory deferrals for gas costs payable are generally amortized over 12 months beginning each November 1 following the gas contract year during which the deferred gas costs are recorded. Similarly, most other regulatory deferred accounts are amortized over 12 months. However, certain regulatory account balances, such as income taxes, environmental costs, pension

liabilities, and accrued asset removal costs, are large and tend to be amortized over longer periods once NW Natural has agreed upon an amortization period with the respective regulatory agency.

We believe all costs incurred and deferred at December 31, 2019 are prudent. All regulatory assets and liabilities are reviewed annually for recoverability, or more often if circumstances warrant. If we should determine that all or a portion of these regulatory assets or liabilities no longer meet the criteria for continued application of regulatory accounting, then NW Natural would be required to write-off the net unrecoverable balances in the period such determination is made.

Regulatory interest income of \$19.6 million and \$7.6 million and regulatory interest expense of \$12.3 million and \$5.9 million was recognized within other income (expense), net for the years ended December 31, 2019 and 2018, respectively.

Environmental Regulatory Accounting

See Note 18 for information about the SRRM and OPUC orders regarding implementation.

New Accounting Standards

NW Natural and NW Holdings consider the applicability and impact of all accounting standards updates (ASUs) issued by the Financial Accounting Standards Board (FASB). ASUs not listed below were assessed and determined to be either not applicable or are expected to have minimal impact on consolidated financial position or results of operations.

Recently Adopted Accounting Pronouncements

ACCUMULATED OTHER COMPREHENSIVE INCOME. On February 14, 2018, the FASB issued ASU 2018-02, "Income Statement—Reporting Comprehensive Income: Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income." This update was issued in response to concerns from certain stakeholders regarding the current requirements under U.S. GAAP that deferred tax assets and liabilities are adjusted for a change in tax laws or rates, and the effect is to be included in income from continuing operations in the period of the enactment date. This requirement is also applicable to items in accumulated other comprehensive income where the related tax effects were originally recognized in other comprehensive income. The adjustment of deferred taxes due to the new corporate income tax rate enacted through the Tax Cuts and Jobs Act (TCJA) on December 22, 2017 recognized in income from continuing operations causes the tax effects of items within accumulated other comprehensive income (referred to as stranded tax effects) to not reflect the appropriate tax rate. The amendments in this update allow but do not require a reclassification from accumulated other comprehensive income to retained earnings for stranded tax effects resulting from the TCJA and require certain disclosures about stranded tax effects. NW Natural adopted and applied the standard in the first quarter of 2019. NW Natural elected to reclassify the stranded tax effects of the TCJA of \$1.4 million from accumulated other comprehensive loss to retained earnings in the period of adoption. Going forward, our policy is that, in the event that regulation changes result in stranded tax effects, such amounts will be reclassified from accumulated other comprehensive income (loss) to retained earnings in the final period that the related deferred tax balance remeasurement is expected to impact income from continuing operations.

DERIVATIVES AND HEDGING. On August 28, 2017, the FASB issued ASU 2017-12, "Derivatives and Hedging: Targeted Improvements to Accounting for Hedging Activities." The purpose of the amendment is to more closely align hedge accounting with companies' risk management strategies. The ASU amends the accounting for risk component hedging, the hedged item in fair value hedges of interest rate risk, and amounts excluded from the assessment of hedge effectiveness. The guidance also amends the recognition and presentation of the effect of hedging instruments and includes other simplifications of hedge accounting. The amendments in this update were effective beginning January 1, 2019 and were applied prospectively to hedging instruments. The adoption did not have an impact on the financial statements or disclosures of NW Holdings or NW Natural.

GOODWILL. On January 26, 2017, the FASB issued ASU 2017-04, "Simplifying the Test for Goodwill Impairment." The ASU removes Step 2 from the goodwill impairment test and under the amended guidance an entity should perform its annual goodwill impairment test by comparing the fair value of a reporting unit with its carrying amount and recognize an impairment charge for the amount in which the carrying amounts exceed the fair value of the reporting unit. The amendments in this standard are effective for us beginning January 1, 2020 and early adoption is permitted for interim or annual goodwill impairment tests performed after January 1, 2017. NW Natural early adopted ASU 2017-04 in the quarter ended September 30, 2018. The adoption of this ASU did not materially affect the financial statements and disclosures of NW Holdings or NW Natural.

LEASES. On February 25, 2016, the FASB issued ASU 2016-02, "Leases," which revises the existing lease accounting guidance. Pursuant to the new standard ("ASC 842"), lessees are required to recognize all leases, including operating leases that are greater than 12 months at lease commencement, on the balance sheet and record corresponding right of use assets and lease liabilities. Lessor accounting will remain substantially the same under the new standard. Quantitative and qualitative disclosures are also required for users of the financial statements to have a clear understanding of the nature of our leasing activities.

We elected the alternative prospective transition approach for adoption beginning January 1, 2019. All comparative periods prior to January 1, 2019 will retain the financial reporting and disclosure requirements of ASC 840 "Leases" ("ASC 840"). There was no cumulative effect adjustment to the opening balance of retained earnings recorded as of January 1, 2019 for adoption as there were no initial direct costs or other capitalized costs related to the legacy leases that needed to be derecognized upon adoption of ASC 842.

We elected the land easement optional practical expedient to not evaluate existing or expired land easements that were not previously accounted for as leases under the ASC 840 lease guidance. For the existing lease portfolio, we did not elect the optional practical expedient package to retain the legacy lease accounting conclusions upon adoption; we re-assessed our existing contracts under the new leasing standard including whether the contract meets the definition of a lease and lease classification. As a result, we determined that most of our underground gas storage contracts no longer meet the definition of a lease under the new lease standard.

In October 2017, NW Natural entered into a 20-year operating lease agreement commencing in 2020 for a new corporate operations center location in Portland, Oregon. The lease was analyzed under ASC 840 in consideration of build-to-suit lease accounting guidance with the conclusion that NW Natural was the owner of the asset during construction for accounting purposes. Under the new lease standard, ASC 842, NW Natural is no longer considered the owner of the asset during construction for accounting purposes. As such, in January 2019 we derecognized the build-to-suit asset and liability balances of \$26.0 million as of December 31, 2018 that were previously recorded within property, plant and equipment and other non-current liabilities in the consolidated balance sheet.

Upon adoption on January 1, 2019, NW Holdings recorded an operating lease right of use asset and an associated operating lease liability of approximately \$7.3 million, of which \$7.0 million was recorded at NW Natural. Lease liabilities are measured using NW Natural's incremental borrowing rate based on information available at the lease commencement date in determining the present value of lease payments. As of December 31, 2019, our lessee portfolio under the new standard consists primarily of our current leased corporate operations center, which expires in 2020. Our lessor portfolio primarily consists of our North Mist Facility which classified as a sales-type lease. See Note 7 for more information.

CLOUD COMPUTING. On August 29, 2018, the FASB issued ASU 2018-15, "Customer's Accounting for Implementation Costs Incurred in a Cloud Computing Arrangement That Is a Service Contract." The purpose of the amendment is to align the requirements for capitalizing implementation costs incurred in a hosting arrangement that is a service contract with the requirements for capitalizing implementation costs incurred to develop or obtain internal-use software. The amendments in this update are effective for us beginning January 1, 2020. Early adoption is permitted, and NW Holdings and NW Natural early adopted ASU 2018-15 in the quarter ended March 31, 2019 utilizing the prospective application methodology. The adoption of this ASU did not materially affect the financial statements and disclosures of NW Holdings or NW Natural.

Recently Issued Accounting Pronouncements

INCOME TAXES. On December 18, 2019, the FASB issued ASU 2019-12, "Income Taxes (Topic 740): Simplifying the Accounting for Income Taxes." The purpose of the amendment is to reduce cost and complexity related to accounting for income taxes by removing certain exceptions to the general principles and improving consistent application for other areas in Topic 740. The amendments in this update are effective for us beginning January 1, 2021. Early adoption is permitted. The amended presentation and disclosure guidance should be applied retrospectively. We do not expect this ASU to materially affect the financial statements and disclosures of NW Holdings or NW Natural.

RETIREMENT BENEFITS. On August 28, 2018, the FASB issued ASU 2018-14, "Changes to the Disclosure Requirements for Defined Benefit Plans." The purpose of the amendment is to modify the disclosure requirements for defined benefit pension and other postretirement plans. The amendments in this update are effective for us beginning January 1, 2020. Early adoption is permitted. The amended presentation and disclosure guidance should be applied retrospectively. We do not expect this ASU to materially affect the financial statements and disclosures of NW Holdings or NW Natural.

FAIR VALUE MEASUREMENT. On August 28, 2018, the FASB issued ASU 2018-13, "Changes to the Disclosure Requirements for Fair Value Measurement." The purpose of the amendment is to modify the disclosure requirements for fair value measurements. The amendments in this update are effective for us beginning January 1, 2020. Early adoption is permitted. The amendments on changes in unrealized gains and losses, the range and weighted average of significant unobservable inputs used to develop Level 3 fair value measurements and the narrative description of measurement uncertainty should be applied prospectively. All other amendments should be applied retrospectively. NW Holdings and NW Natural do not have either Level 3 fair value measurements or transfers between Level 1 or Level 2 in their current portfolios, and therefore, we do not expect this ASU to have an impact on the financial statements and disclosures of NW Holdings or NW Natural.

CREDIT LOSSES. On June 16, 2016, the FASB issued ASU 2016-13, "Measurement of Credit Losses on Financial Instruments," which applies to financial assets subject to credit losses and measured at amortized cost. The new standard will require financial assets measured at amortized cost to be presented at the net amount expected to be collected and the allowance for credit losses is to be recorded as a valuation account that is deducted from the amortized cost basis. The amendments in this update are effective beginning January 1, 2020. Early adoption is permitted for fiscal years beginning after December 15, 2018. The majority of NW Holdings' and NW Natural's financial assets are short-term in nature, such as trade receivables, and therefore, we do not expect this ASU to materially affect our financial statements and disclosures.

Accounting Policies

The accounting policies discussed below apply to both NW Holdings and NW Natural.

Plant, Property, and Accrued Asset Removal Costs

Plant and property are stated at cost, including capitalized labor, materials, and overhead. In accordance with regulatory accounting standards, the cost of acquiring and constructing long-lived plant and property generally includes an allowance for funds used during construction (AFUDC) or capitalized interest. AFUDC represents the regulatory financing cost incurred when debt and equity funds are used for construction (see "*AFUDC*" below). When constructed assets are subject to market-based rates rather than cost-based rates, the financing costs incurred during construction are included in capitalized interest in accordance with U.S. GAAP, not as regulatory financing costs under AFUDC.

In accordance with long-standing regulatory treatment, our depreciation rates consist of three components: one based on the average service life of the asset, a second based on the estimated salvage value of the asset, and a third based on the asset's estimated cost of removal. We collect, through rates, the estimated cost of removal on certain regulated properties through depreciation expense, with a corresponding offset to accumulated depreciation. These removal costs are non-legal obligations as defined by regulatory accounting guidance. Therefore, we have included these costs as non-current regulatory liabilities rather than as accumulated depreciation on our consolidated balance sheets. In the rate setting process, the liability for removal costs is treated as a reduction to the net rate base on which the NGD business has the opportunity to earn its allowed rate of return.

The costs of NGD plant retired or otherwise disposed of are removed from NGD plant and charged to accumulated depreciation for recovery or refund through future rates. Gains from the sale of regulated assets are generally deferred and refunded to customers. For assets not related to NGD, we record a gain or loss upon the disposal of the property, and the gain or loss is recorded in operating income or loss in the consolidated statements of comprehensive income.

The provision for depreciation of NGD property, plant, and equipment is recorded under the group method on a straight-line basis with rates computed in accordance with depreciation studies approved by regulatory authorities. The weighted-average depreciation rate for NGD assets in service was approximately 2.9% for 2019, and 2.8% for 2018, and 2017, reflecting the approximate weighted-average economic life of the property. This includes 2019 weighted-average depreciation rates for the following asset categories: 2.6% for transmission and distribution plant, 2.2% for gas storage facilities, 5.7% for general plant, and 4.7% for intangible and other fixed assets.

AFUDC. Certain additions to NGD plant include AFUDC, which represents the net cost of debt and equity funds used during construction. AFUDC is calculated using actual interest rates for debt and authorized rates for ROE, if applicable. If short-term debt balances are less than the total balance of construction work in progress, then a composite AFUDC rate is used to represent interest on all debt funds, shown as a reduction to interest charges, and on ROE funds, shown as other income. While cash is not immediately recognized from recording AFUDC, it is realized in future years through rate recovery resulting from the higher NGD cost of service. Our composite AFUDC rate was 3.9% in 2019, 5.2% in 2018, and 5.5% in 2017.

IMPAIRMENT OF LONG-LIVED ASSETS. We review the carrying value of long-lived assets whenever events or changes in circumstances indicate the carrying amount of the assets may not be recoverable. Factors that would necessitate an impairment assessment of long-lived assets include a significant adverse change in the extent or manner in which the asset is used, a significant adverse change in legal factors or business climate that could affect the value of the asset, or a significant decline in the observable market value or expected future cash flows of the asset, among others.

When such factors are present, we assess the recoverability by determining whether the carrying value of the asset will be recovered through expected future cash flows. An asset is determined to be impaired when the carrying value of the asset exceeds the expected undiscounted future cash flows from the use and eventual disposition of the asset. If an impairment is indicated, we record an impairment loss for the difference between the carrying value and the fair value of the long-lived assets. Fair value is estimated using appropriate valuation methodologies, which may include an estimate of discounted cash flows.

In the fourth quarter of 2017, a non-cash pre-tax impairment of long-lived assets at the Gill Ranch Facility of \$192.5 million was recognized. The income approach was used to estimate fair value, using the estimated future net cash flows. We also compared the results of the income approach to our own recent sale experience and recent market comparable transactions in order to estimate fair value. The Gill Ranch Facility was originally included in the gas storage segment, which has since been eliminated, and is now included in discontinued operations. We determined circumstances existed that indicated the carrying value of the assets may not be recoverable. Those circumstances included the completion of a comprehensive strategic review process that evaluated various alternatives including a potential sale, as well as contracting for available storage at lower than anticipated values for the coming storage year. Given these considerations, management re-evaluated the estimated cash flows from our interests in the Gill Ranch Facility, and determined that those estimated cash flows were no longer sufficient to cover the carrying value of the assets. The results of Gill Ranch have been presented as a discontinued operation for NW Holdings and NW Natural on the consolidated statements of comprehensive income and cash flows, and the assets and liabilities associated with Gill Ranch have been classified as discontinued operations assets and liabilities on the consolidated balance sheets. See Note 19 for additional information.

Cash and Cash Equivalents

For purposes of reporting cash flows, cash and cash equivalents include cash on hand plus highly liquid investment accounts with original maturity dates of three months or less. At December 31, 2019 and 2018, NW Holdings had outstanding checks of approximately \$3.2 million and \$2.7 million, respectively, substantially all of which is recorded at NW Natural. These balances are included in accounts payable in the NW Holdings and NW Natural balance sheets.

Revenue Recognition and Accrued Unbilled Revenue

Revenues, derived primarily from the sale and transportation of natural gas, are recognized upon delivery of the gas commodity or service to customers. Revenues include accruals for gas or water delivered but not yet billed to customers based on estimates of deliveries from meter reading dates to month end (accrued unbilled revenue). Accrued unbilled revenue is dependent upon a number of factors that require management's judgment, including total natural gas receipts and deliveries, customer use of natural gas or water by billing cycle, and weather factors. Accrued unbilled revenue is reversed the following month when actual billings occur. NW Holdings' accrued unbilled revenue at December 31, 2019 and 2018 was \$56.2 million and \$57.8 million respectively, substantially all of which is accrued unbilled revenue at NW Natural.

Revenues not related to NGD are derived primarily from Interstate Storage Services, asset management activities at the Mist gas storage facility, and other investments and business activities. At the Mist underground storage facility, revenues are primarily firm service revenues in the form of fixed monthly reservation charges. In addition, we also have asset management service revenue from an independent energy marketing company that optimizes commodity, storage, and pipeline capacity release transactions. Under this agreement, guaranteed asset management revenue is recognized using a straight-line, pro-rata methodology over the term of each contract. Revenues earned above the guaranteed amount are recognized as they are earned.

Revenue Taxes

Revenue-based taxes are primarily franchise taxes, which are collected from customers and remitted to taxing authorities. In 2018, revenue taxes are included in operating expenses in the statements of comprehensive income for NW Holdings and NW Natural. In 2017 and 2016, revenue taxes are included in operating revenues in the statements of comprehensive income for NW Holdings and NW Holdings and NW Natural. All revenue taxes are recorded at NW Natural and were \$30.3 million, \$30.1 million, and \$19.1 million for 2019, 2018, and 2017, respectively.

Accounts Receivable and Allowance for Uncollectible Accounts

Accounts receivable consist primarily of amounts due for natural gas sales and transportation services to NGD customers, plus amounts due for gas storage services. At NW Holdings and NW Natural we establish allowances for uncollectible accounts (allowance) for trade receivables, including accrued unbilled revenue, based on the aging of receivables, collection experience of past due account balances including payment plans, and historical trends of write-offs as a percent of revenues. A specific allowance is established and recorded for large individual customer receivables when amounts are identified as unlikely to be partially or fully recovered. Inactive accounts are written-off against the allowance after they are 120 days past due or when deemed uncollectible. Differences between the estimated allowance and actual write-offs will occur based on a number of factors, including changes in economic conditions, customer creditworthiness, and natural gas prices. The allowance for uncollectible accounts is adjusted quarterly, as necessary, based on information currently available.

Inventories

NGD gas inventories, which consist of natural gas in storage for NGD customers, are stated at the lower of weighted-average cost or net realizable value. The regulatory treatment of these inventories provides for cost recovery in customer rates. NGD gas inventories injected into storage are priced in inventory based on actual purchase costs, and those withdrawn from storage are charged to cost of gas during the period they are withdrawn at the weighted-average inventory cost.

Gas storage inventories, which primarily represent inventories at the Gill Ranch Facility and are included in Discontinued operations - current assets on the consolidated balance sheets, mainly consist of natural gas received as fuel-in-kind from storage customers. Gas storage inventories are valued at the lower of average cost or net realizable value. Cushion gas is not included in inventory balances, is recorded at original cost, and is classified as a long-term plant asset.

Materials and supplies inventories consist of inventories both related to and unrelated to NGD and are stated at the lower of average cost or net realizable value.

NW Natural's NGD and gas storage inventories totaled \$27.5 million and \$29.9 million at 2019 and 2018, respectively. At December 31, 2019 and 2018, NW Holdings' materials and supplies inventories, which are comprised primarily of NW Natural's materials and supplies, totaled \$16.5 million and \$14.2 million, respectively.

Gas Reserves

Gas reserves are payments to acquire and produce natural gas reserves. Gas reserves are stated at cost, adjusted for regulatory amortization, with the associated deferred tax benefits recorded as liabilities on the balance sheet. The current portion is calculated based on expected gas deliveries within the next fiscal year. NW Natural recognizes regulatory amortization of this asset on a volumetric basis calculated using the estimated gas reserves and the estimated therms extracted and sold each month. The amortization of gas reserves is recorded to cost of gas along with gas production revenues and production costs. See Note 13.

Derivatives

NW Natural's derivatives are measured at fair value and recognized as either assets or liabilities on the balance sheet. Changes in the fair value of the derivatives are recognized in earnings unless specific regulatory or hedge accounting criteria are met. Accounting for derivatives and hedges provides an exception for contracts intended for normal purchases and normal sales for which physical delivery is probable. In addition, certain derivative contracts are approved by regulatory authorities for recovery or refund through customer rates. Accordingly, the changes in fair value of these approved contracts are deferred as regulatory assets or liabilities pursuant to regulatory accounting principles. NW Natural's financial derivatives generally qualify for deferral under regulatory accounting. NW Natural's index-priced physical derivative contracts also qualify for regulatory deferral accounting treatment.

Derivative contracts entered into for NGD requirements after the annual PGA rate has been set and maturing during the PGA year are subject to the PGA incentive sharing mechanism. In Oregon, NW Natural participates in a PGA sharing mechanism under which it is required to select either an 80% or 90% deferral of higher or lower gas costs such that the impact on current earnings from the gas cost sharing is either 20% or 10% of gas cost differences compared to PGA prices, respectively. For each of the PGA years in Oregon beginning November 1, 2019, 2018, and 2017, NW Natural selected the 90% deferral of gas cost differences. In Washington, 100% of the differences between the PGA prices and actual gas costs are deferred. See Note 16.

NW Natural's financial derivatives policy sets forth the guidelines for using selected derivative products to support prudent risk management strategies within designated parameters. NW Natural's objective for using derivatives is to decrease the volatility of gas prices and cash flows without speculative risk. The use of derivatives is permitted only after the risk exposures have been identified, are determined not to exceed acceptable tolerance levels, and are determined necessary to support normal business activities. NW Natural does not enter into derivative instruments for trading purposes. All derivatives for NW Holdings are currently held at NW Natural.

Fair Value

In accordance with fair value accounting, we use the following fair value hierarchy for determining inputs for our debt, pension plan assets, and derivative fair value measurements:

- Level 1: Valuation is based on quoted prices for identical instruments traded in active markets;
- Level 2: Valuation is based on quoted prices for similar instruments in active markets, quoted prices for identical or similar instruments in markets that are not active, and model-based valuation techniques for which all significant assumptions are observable in the market; and
- Level 3: Valuation is generated from model-based techniques that use significant assumptions not observable in the market. These unobservable assumptions reflect our own estimates of assumptions market participants would use in valuing the asset or liability.

In addition, the fair value for certain pension trust investments is determined using Net Asset Value per share (NAV) as a practical expedient, and therefore they are not classified within the fair value hierarchy. These investments primarily consist of institutional investment products.

When developing fair value measurements, it is our policy to use quoted market prices whenever available or to maximize the use of observable inputs and minimize the use of unobservable inputs when quoted market prices are not available. Fair values are primarily developed using industry-standard models that consider various inputs including: (a) quoted future prices for commodities; (b) forward currency prices; (c) time value; (d) volatility factors; (e) current market and contractual prices for underlying instruments; (f) market interest rates and yield curves; (g) credit spreads; and (h) other relevant economic measures. NW Natural considers liquid points for natural gas hedging to be those points for which there are regularly published prices in a nationally recognized publication or where the instruments are traded on an exchange.

Goodwill and Business Combinations

NW Holdings, through its wholly-owned subsidiary NWN Water and NW Water's wholly-owned subsidiaries, has completed various acquisitions that resulted in the recognition of goodwill. Goodwill is measured as the excess of the acquisition-date fair value of the consideration transferred over the acquisition-date fair value of the net identifiable assets assumed. Adjustments are recorded during the measurement period to finalize the allocation of the purchase price. The carrying value of goodwill is reviewed annually during the fourth quarter using balances as of October 1, or whenever events or changes in circumstance indicate that such carrying values may not be recoverable. The goodwill assessment policy begins with a qualitative analysis in which events and circumstances are evaluated, including macroeconomic conditions, industry and market conditions, regulatory environments, and overall financial performance of the reporting unit. If the qualitative assessment indicates that the carrying value may be at

risk of recoverability, a quantitative evaluation is performed to measure the carrying value of the goodwill against the fair value of the reporting unit. The reporting unit is determined primarily based on current operating segments and the level of review provided by the Chief Operating Decision Maker (CODM) and/or segment management on the operating segment's financial results. Reporting units are evaluated periodically for changes in the corporate environment.

As of December 31, 2019 and 2018, NW Holdings had goodwill of \$49.9 million and \$9.0 million, respectively. All of NW Holdings' goodwill was acquired in 2018 and 2019 through the business combinations completed by NWN Water and its wholly-owned subsidiaries. No impairment charges were recorded as a result of the fourth quarter goodwill impairment assessment.

Business combinations are accounted for using the acquisition method. The cost of an acquisition is measured as the aggregate of the consideration transferred, measured at fair value at the acquisition date, and the fair value of any non-controlling interest in the acquiree. Acquisition-related costs are expensed as incurred. When NW Natural acquires a business, it assesses the financial assets acquired and liabilities assumed for appropriate classification and designation in accordance with the contractual terms, economic circumstances and pertinent conditions as of the acquisition date. When there is substantial judgment or uncertainty around the fair value of acquired assets, we may engage a third party expert to assist in determining the fair values of certain assets or liabilities.

Income Taxes

We account for income taxes under the asset and liability method, which requires the recognition of deferred tax assets and liabilities for the expected future tax consequences of events that have been included in the financial statements. Under this method, deferred tax assets and liabilities are determined on the basis of the differences between the financial statement and tax basis of assets and liabilities using enacted tax rates in effect for the year in which the differences are expected to reverse. The effect of a change in tax rates on deferred tax assets and liabilities is recognized in income in the enactment date period unless, for NW Natural, a regulatory order specifies deferral of the effect of the change in tax rates over a longer period of time.

For NW Natural, deferred income tax assets and liabilities are also recognized for temporary differences where the deferred income tax benefits or expenses have previously been flowed through in the ratemaking process of the NGD business. Regulatory tax assets and liabilities are recorded on these deferred tax assets and liabilities to the extent it is believed they will be recoverable from or refunded to customers in future rates.

Deferred investment tax credits on NGD plant additions, which reduce income taxes payable, are deferred for financial statement purposes and amortized over the life of the related plant.

NW Holdings files consolidated or combined income tax returns that include NW Natural. Income tax expense is allocated on a separate company basis incorporating certain consolidated return considerations. Subsidiary income taxes payable or receivable are generally settled with NW Holdings, the common agent for income tax matters.

Interest and penalties related to unrecognized tax benefits, if any, are recognized within income tax expense and accrued interest and penalties are recognized within the related tax liability line in the consolidated balance sheets. No accrued interest or penalties for uncertain tax benefits have been recorded. See Note 11.

Environmental Contingencies

Loss contingencies are recorded as liabilities when it is probable a liability has been incurred and the amount of the loss is reasonably estimable in accordance with accounting standards for contingencies. Estimating probable losses requires an analysis of uncertainties that often depend upon judgments about potential actions by third parties. Accruals for loss contingencies are recorded based on an analysis of potential results.

With respect to environmental liabilities and related costs, estimates are developed based on a review of information available from numerous sources, including completed studies and site specific negotiations. NW Natural's policy is to accrue the full amount of such liability when information is sufficient to reasonably estimate the amount of probable liability. When information is not available to reasonably estimate the probable liability, or when only the range of probable liabilities can be estimated and no amount within the range is more likely than another, it is our policy to accrue at the low end of the range. Accordingly, due to numerous uncertainties surrounding the course of environmental remediation and the preliminary nature of several site investigations, in some cases, it may not be possible to reasonably estimate the high end of the range cannot be reasonably estimated is disclosed. See Note 18.

Subsequent Events

We monitor significant events occurring after the balance sheet date and prior to the issuance of the financial statements to determine the impacts, if any, of events on the financial statements to be issued. Refer to Note 20 for our subsequent events.

3. EARNINGS PER SHARE

Basic earnings or loss per share are computed using NW Holdings' net income or loss and the weighted average number of common shares outstanding for each period presented. Diluted earnings per share are computed in the same manner, except using the weighted average number of common shares outstanding plus the effects of the assumed exercise of stock options and the payment of estimated stock awards from other stock-based compensation plans that are outstanding at the end of each period presented. Anti-dilutive stock awards are excluded from the calculation of diluted earnings or loss per common share.

NW Holdings' diluted earnings or loss per share are calculated as follows:

In thousands, except per share data	2019	2018	2017
Net income from continuing operations	\$ 65,311	\$ 67,311	\$ 72,073
Loss from discontinued operations, net of tax	(3,576)	(2,742)	(127,696)
Net income (loss)	\$ 61,735	\$ 64,569	\$ (55,623)
Average common shares outstanding - basic	 29,786	 28,803	 28,669
Additional shares for stock-based compensation plans (See Note 8)	73	70	84
Average common shares outstanding - diluted	 29,859	 28,873	28,753
Earnings from continuing operations per share of common stock:			
Basic	\$ 2.19	\$ 2.34	\$ 2.51
Diluted	2.19	2.33	2.51
Loss from discontinued operations per share of common stock:			
Basic	\$ (0.12)	\$ (0.10)	\$ (4.45)
Diluted	(0.12)	(0.09)	(4.44)
Earnings (loss) per share of common stock:			
Basic	\$ 2.07	\$ 2.24	\$ (1.94)
Diluted	2.07	2.24	(1.93)
Additional information:			
Anti-dilutive shares	_	2	13

4. SEGMENT INFORMATION

We primarily operate in one reportable business segment, which is NW Natural's local gas distribution business and is referred to as the NGD segment. During the second quarter of 2018, we moved forward with long-term strategic plans, which include a shift away from the California gas storage business, by entering into a Purchase and Sale Agreement that provides for the sale of all of the membership interests in Gill Ranch. As such, we reevaluated reportable segments and concluded that the remaining gas storage activities no longer meet the requirements of a reportable segment. Interstate Storage Services and asset management activities at the Mist gas storage facility are now reported as other under NW Natural. NW Natural and NW Holdings also have investments and business activities not specifically related to the NGD segment, which are aggregated and reported as other and described below for each entity.

No individual customer accounts for over 10% of NW Holdings' or NW Natural's operating revenues.

Natural Gas Distribution

NW Natural's local gas distribution segment (NGD) is a regulated utility principally engaged in the purchase, sale, and delivery of natural gas and related services to customers in Oregon and southwest Washington. The NGD business is responsible for building and maintaining a safe and reliable pipeline distribution system, purchasing sufficient gas supplies from producers and marketers, contracting for firm and interruptible transportation of gas over interstate pipelines to bring gas from the supply basins into its service territory, and re-selling the gas to customers subject to rates, terms, and conditions approved by the OPUC or WUTC. NGD also includes taking customer-owned gas and transporting it from interstate pipeline connections, or city gates, to the customers' end-use facilities for a fee, which is approved by the OPUC or WUTC. Approximately 89% of NGD customers are located in Oregon and 11% in Washington. On an annual basis, residential and commercial customers typically account for around 60% of total NGD volumes delivered and around 90% of NGD margin. Industrial customers largely account for the remaining volumes and NGD margin. A small amount of the margin is also derived from miscellaneous services, gains or losses from an incentive gas cost sharing mechanism, and other service fees.

Industrial sectors served by the NGD business include: pulp, paper, and other forest products; the manufacture of electronic, electrochemical and electrometallurgical products; the processing of farm and food products; the production of various mineral products; metal fabrication and casting; the production of machine tools, machinery, and textiles; the manufacture of asphalt, concrete, and rubber; printing and publishing; nurseries; and government and educational institutions.

In addition to NW Natural's local gas distribution business, the NGD segment also includes the portion of the Mist underground storage facility used to serve NGD customers, the North Mist gas storage expansion in Oregon, and NWN Gas Reserves, which is a wholly-owned subsidiary of Energy Corp.

NW Natural

NW Natural's activities in Other include Interstate Storage Services and third-party asset management services for the Mist facility in Oregon, appliance retail center operations, and corporate operating and non-operating revenues and expenses that cannot be allocated to NGD operations.

Earnings from Interstate Storage Services assets are primarily related to firm storage capacity revenues. Earnings from the Mist facility also include revenue, net of amounts shared with NGD customers, from management of NGD assets at Mist and upstream pipeline capacity when not needed to serve NGD customers. Under the Oregon sharing mechanism, NW Natural retains 80% of the pre-tax income from these services when the costs of the capacity were not included in NGD rates, or 10% of the pre-tax income when the costs have been included in these rates. The remaining 20% and 90%, respectively, are recorded to a deferred regulatory account for crediting back to NGD customers.

NW Holdings

NW Holdings' activities in Other include all remaining activities not associated with NW Natural, specifically NWN Water, which consolidates the water and wastewater utility operations and is pursuing other investments in the water sector through itself and wholly-owned subsidiaries; NWN Gas Storage, a wholly-owned subsidiary of NWN Energy; NWN Energy's equity investment in TWH, which is pursuing development of a cross-Cascades transmission pipeline project (TWP); and other pipeline assets in NNG Financial. For more information on TWP, see Note 14. Other also includes corporate revenues and expenses that cannot be allocated to other operations, including certain business development activities.

All prior period amounts have been retrospectively adjusted to reflect the change in reportable segments and the designation of Gill Ranch as a discontinued operation for NW Holdings, and the designation of subsidiaries previously owned by NW Natural that are now owned by NW Holdings as discontinued operations for NW Natural.

Segment Information Summary

Inter-segment transactions were immaterial for the periods presented. The following table presents summary financial information concerning the reportable segment and other for continuing operations. See Note 19 for information regarding discontinued operations for NW Holdings and NW Natural.

In thousands	NGD	(N\	Other (NW Natural) NW Natural		(NV	Other (NW Holdings)		W Holdings	
2019									
Operating revenues	\$ 720,528	\$	19,416	\$	739,944	\$	6,428	\$	746,372
Depreciation and amortization	89,415		990		90,405		1,091		91,496
Income (loss) from operations	135,918		11,428		147,346		(3,872)		143,474
Net income (loss) from continuing operations	60,828		8,146		68,974		(3,663)		65,311
Capital expenditures	219,880		1,500		221,380		2,091		223,471
Total assets at December 31, 2019 ⁽¹⁾	3,273,835		47,652		3,321,487		91,833		3,413,320
2018									
Operating revenues	\$ 680,648	\$	24,923	\$	705,571	\$	572	\$	706,143
Depreciation and amortization	83,732		1,254		84,986		170		85,156
Income (loss) from operations	118,095		15,004		133,099		(937)		132,162
Net income (loss) from continuing operations	57,491		10,558		68,049		(738)		67,311
Capital expenditures	212,323		2,005		214,328		308		214,636
Total assets at December 31, 2018 ⁽¹⁾	3,141,969		50,767		3,192,736		36,657		3,229,393
2017									
Operating revenues	\$ 732,942	\$	22,096	\$	755,038	\$	—	\$	755,038
Depreciation and amortization	79,734		1,290		81,024		29		81,053
Income (loss) from operations ⁽²⁾	138,450		12,472		150,922		(20)		150,902
Net income from continuing operations	60,509		11,211		71,720		353		72,073
Capital expenditures	211,672		1,653		213,325		_		213,325
Total assets at December 31, 2017 ⁽¹⁾	2,961,326		50,471		3,011,797		14,075		3,025,872

⁽¹⁾ Total assets for NW Holdings exclude assets related to discontinued operations of \$15.1 million, \$13.3 million and \$13.9 million as of December 31, 2019, 2018, and 2017, respectively. Total assets for NW Natural exclude assets related to discontinued operations of \$31.9 million as of December 31, 2017.

⁽²⁾ Includes \$1.0 million of tax expense in NGD, \$4.0 million of tax benefit in Other (NW Natural), and \$0.4 million of tax benefit in Other (NW Holdings) from the TCJA remeasurement for the year ended December 31, 2017.

Natural Gas Distribution Margin

NGD margin is a financial measure used by the CODM, consisting of NGD operating revenues, reduced by the associated cost of gas, environmental remediation expense, and revenue taxes. The cost of gas purchased for NGD customers is generally a pass-through cost in the amount of revenues billed to regulated NGD customers. Environmental remediation expense represents collections received from customers through environmental recovery mechanisms in Oregon and Washington as well as adjustments for the Oregon environmental earnings test when applicable. This is offset by environmental remediation expense presented in operating expenses. Revenue taxes are collected from NGD customers and remitted to taxing authorities. The collections from customers are offset by the expense recognition of the obligation to the taxing authority. By subtracting cost of gas, environmental remediation expense, and revenue taxes from NGD operating revenues, NGD margin provides a key metric used by the CODM in assessing the performance of the NGD segment.

The following table presents additional segment information concerning NGD margin:

In thousands	2019	2018		2017
NGD margin calculation:				
NGD operating revenues	\$ 720,528	\$	680,648	\$ 732,942
Less: NGD cost of gas	255,135		255,743	325,019
Environmental remediation expense	12,337		11,127	15,291
Revenue taxes ⁽¹⁾	30,325		30,082	_
NGD margin	\$ 422,731	\$	383,696	\$ 392,632
1)				

(1) The change in presentation of revenue taxes was a result of the adoption of ASU 2014-09 "Revenue From Contracts with Customers" and all related amendments on January 1, 2018. This change had no impact on NGD margin results as revenue taxes were previously presented net in NGD operating revenue. For additional information, see Note 2.

5. COMMON STOCK

As of December 31, 2019 and 2018, NW Holdings had 100 million shares of common stock authorized. As of December 31, 2019, NW Holdings had 206,560 shares reserved for issuance of common stock under the Employee Stock Purchase Plan (ESPP) and 340,133 shares reserved for issuance under the Dividend Reinvestment and Direct Stock Purchase Plan (DRPP). At NW Holdings' election, shares sold through the DRPP may be purchased in the open market or through original issuance of shares reserved for issuance under the DRPP.

The Restated Stock Option Plan (SOP) was terminated with respect to new grants in 2012; however, options granted before the Restated SOP was terminated remain outstanding until the earlier of their expiration, forfeiture, or exercise. Options are now exercisable for shares of NW Holdings common stock. There were 10,938 options outstanding at December 31, 2019, which were granted prior to termination of the plan.

On June 7, 2019, NW Holdings completed the issuance of 1,437,500 shares of common stock, inclusive of the overallotment option granted to the underwriters, which was exercised in full. All shares were issued on June 7, 2019 at an offering price of \$67.00 per share. The issuance resulted in proceeds to NW Holdings of \$93.0 million, net of discounts and expenses. The issuance was executed to raise funds for general corporate purposes, including for equity contributions to NW Holdings' subsidiaries, that are reflected as equity transfers on occurrence. Contributions received by NW Natural were also used, in part, to repay short-term indebtedness.

Stock Repurchase Program

NW Holdings has a share repurchase program under which it may purchase its common shares on the open market or through privately negotiated transactions. NW Holdings currently has Board authorization through May 2022 to repurchase up to an aggregate of the greater of 2.8 million shares or \$100 million. No shares of common stock were repurchased pursuant to this program during the year ended December 31, 2019. Since the plan's inception in 2000 under NW Natural, a total of 2.1 million shares have been repurchased at a total cost of \$83.3 million.

The following table summarizes the changes in the number of shares of NW Holdings' common stock issued and outstanding:

In thousands	Shares
Balance, December 31, 2016	28,630
Sales to employees under ESPP	18
Stock-based compensation	88
Balance, December 31, 2017	28,736
Sales to employees under ESPP	19
Stock-based compensation	64
Sales to shareholders under DRPP	61
Balance, December 31, 2018	28,880
Sales to employees under ESPP	18
Stock-based compensation	83
Equity Issuance	1,438
Sales to shareholders under DRPP	53
Balance, December 31, 2019	30,472

6. REVENUE

The following table presents disaggregated revenue from continuing operations:

	Year ended December 31, 2019										
In thousands		NGD		Other (NW Natural)		NW Natural		Other (NW Holdings)		V Holdings	
Natural gas sales	\$	729,296	\$	_	\$	729,296	\$	_	\$	729,296	
Gas storage revenue, net		_		10,240		10,240		_		10,240	
Asset management revenue, net		_		3,705		3,705		_		3,705	
Appliance retail center revenue		_		5,471		5,471		_		5,471	
Other revenue		847		_		847		6,428		7,275	
Revenue from contracts with customers		730,143		19,416		749,559		6,428		755,987	
Alternative revenue		(20,984)		_		(20,984)		_		(20,984)	
Leasing revenue		11,369		_		11,369		_		11,369	
Total operating revenues	\$	720,528	\$	19,416	\$	739,944	\$	6,428	\$	746,372	

	Year ended December 31, 2018									
In thousands	NGD		(N	Other W Natural)	NW Natural		Other (NW Holdings)		NW Holdings	
Natural gas sales	\$	670,662	\$		\$	670,662	\$		\$	670,662
Gas storage revenue, net		_		10,780		10,780		_		10,780
Asset management revenue, net		_		8,548		8,548		_		8,548
Appliance retail center revenue		_		5,595		5,595		_		5,595
Other revenue		_		_		_		572		572
Revenue from contracts with customers		670,662		24,923		695,585		572		696,157
Alternative revenue		8,989		_		8,989		_		8,989
Leasing revenue		997		_		997		_		997
Total operating revenues	\$	680,648	\$	24,923	\$	705,571	\$	572	\$	706,143

NW Natural's revenue represents substantially all of NW Holdings' revenue and is recognized for both registrants when the obligation to customers is satisfied and in the amount expected to be received in exchange for transferring goods or providing services. Revenue from contracts with customers contains one performance obligation that is generally satisfied over time, using the output method based on time elapsed, due to the continuous nature of the service provided. The transaction price is determined by a set price agreed upon in the contract or dependent on regulatory tariffs. Customer accounts are settled on a monthly basis or paid at time of sale and based on historical experience. It is probable that we will collect substantially all of the consideration to which we are entitled.

NW Holdings and NW Natural do not have any material contract assets, as net accounts receivable and accrued unbilled revenue balances are unconditional and only involve the passage of time until such balances are billed and collected. NW Holdings and NW Natural do not have any material contract liabilities.

Revenue-based taxes are primarily franchise taxes, which are collected from NGD customers and remitted to taxing authorities. Beginning January 1, 2018, revenue taxes are included in operating revenues with an equal and offsetting expense recognized in operating expenses in the consolidated statements of comprehensive income.

Natural Gas Distribution

Natural gas sales. NW Natural's primary source of revenue is providing natural gas to customers in the NGD service territory, which includes residential, commercial, industrial and transportation customers. NGD revenue is generally recognized over time upon delivery of the gas commodity or service to the customer, and the amount of consideration received and recognized as revenue is dependent on the Oregon and Washington tariffs. Customer accounts are to be paid in full each month, and there is no right of return or warranty for services provided. Revenues include firm and interruptible sales and transportation services, franchise taxes recovered from the customer, late payment fees, service fees, and accruals for gas delivered but not yet billed (accrued unbilled revenue). The accrued unbilled revenue balance is based on estimates of deliveries during the period from the last meter reading and management judgment is required for a number of factors used in this calculation, including customer use and weather factors.

We applied the significant financing practical expedient and have not adjusted the consideration NW Natural expects to receive from NGD customers for the effects of a significant financing component as all payment arrangements are settled annually. Due to the election of the right to invoice practical expedient, we do not disclose the value of unsatisfied performance obligations as of December 31, 2019.

Alternative revenue. Weather normalization (WARM) and decoupling mechanisms are considered to be alternative revenue programs. Alternative revenue programs are considered to be contracts between NW Natural and its regulator and are excluded from revenue from contracts with customers.

Leasing revenue. Leasing revenue primarily consists of revenues from NW Natural's North Mist Storage contract with Portland General Electric (PGE) in support of PGE's gas-fired electric power generation facilities under an initial 30-year contract with options to extend, totaling up to an additional 50 years upon mutual agreement of the parties. The facility is accounted for as a sales-type lease with regulatory accounting deferral treatment. The investment is included in rate base under an established cost-of-service tariff schedule, with revenues recognized according to the tariff schedule and as such, profit upon commencement was deferred and will be amortized over the lease term. Leasing revenue also contains rental revenue from small leases of property owned by NW Natural to third parties. The majority of these transactions are accounted for as operating leases and the revenue is recognized over the term of the lease agreement. Lease revenue is excluded from revenue from contracts with customers. See Note 7.

NW Natural Other

Gas storage revenue. NW Natural's other revenue includes gas storage activity, which includes Mist Interstate Storage Services used to store natural gas for customers. Gas storage revenue is generally recognized over time as the gas storage service is provided to the customer and the amount of consideration received and recognized as revenue is dependent on set rates defined per the storage agreements. Noncash consideration in the form of dekatherms of natural gas is received as consideration for providing gas injection services to gas storage customers. This noncash consideration is measured at fair value using the average spot rate. Customer accounts are generally paid in full each month, and there is no right of return or warranty for services provided. Revenues include firm and interruptible storage services, net of the regulatory sharing amount refunded to NGD customers.

Asset management revenue. Revenues include the optimization of the storage assets and pipeline capacity and are provided net of the profit sharing amount refunded to NGD customers. Certain asset management revenues received are recognized over time using a straight-line approach over the term of each contract, and the amount of consideration received and recognized as revenue is dependent on a variable pricing model. Variable revenues earned above guaranteed amounts are estimated and recognized at the end of each period using the most likely amount approach. Additionally, other asset management revenues may be based on a fixed rate. Generally, asset management accounts are settled on a monthly basis.

As of December 31, 2019, unrecognized revenue for the fixed component of the transaction price related to gas storage and asset management revenue was approximately \$73.4 million. Of this amount, approximately \$16.0 million will be recognized in 2020, \$18.2 million in 2021, \$14.5 million in 2022, \$11.6 million in 2023, \$7.8 million in 2024, and \$5.3 million thereafter. The amounts presented here are calculated using current contracted rates.

Appliance retail center revenue. NW Natural owns and operates an appliance store that is open to the public, where customers can purchase natural gas home appliances. Revenue from the sale of appliances is recognized at the point in time in which the appliance is transferred to the third party responsible for delivery and installation services and when the customer has legal title to the appliance. It is required that the sale be paid for in full prior to transfer of legal title. The amount of consideration received and recognized as revenue varies with changes in marketing incentives and discounts offered to customers.

NW Holdings Other

NW Holdings' primary source of other revenue is providing water and wastewater services to customers. Water distribution and wastewater collection revenue is generally recognized over time upon delivery of the water commodity or wastewater collection service to the customer, and the amount of consideration received and recognized as revenue is dependent on the water customer rates set by the applicable state public utility commission and contractual rates for wastewater customers. Customer accounts are to be paid in full each month, and there is no right of return or warranty for services provided.

We applied the significant financing practical expedient and have not adjusted the consideration we expect to receive from water distribution and wastewater collection customers for the effects of a significant financing component as all payment arrangements are settled annually. Due to the election of the right to invoice practical expedient, we do not disclose the value of unsatisfied performance obligations as of December 31, 2019.

7. LEASES

Lease Revenue

Leasing revenue primarily consists of NW Natural's North Mist natural gas storage agreement with PGE which is billed under an OPUC-approved rate schedule and includes an initial 30-year term with options to extend, totaling up to an additional 50 years upon mutual agreement of the parties. Under U.S. GAAP, this agreement is classified as a sales-type lease and qualifies for regulatory accounting deferral treatment. The investment in the storage facility is included in rate base under a separately established cost-of-service tariff, with revenues recognized according to the tariff schedule. As such, the selling profit that was calculated upon commencement as part of the sale-type lease recognition was deferred and will be amortized over the lease term. Billing rates under the cost-of-service tariff will be updated annually to reflect current information including depreciable asset levels, forecasted operating expenses, and the results of regulatory proceedings, as applicable, and revenue received under this agreement is recognized as operating revenue on the consolidated statements of comprehensive income. There are no variable payments or residual value guarantees. The lease does not contain an option to purchase the underlying assets.

NW Natural also maintains a sales-type lease for specialized compressor facilities to provide high pressure compressed natural gas (CNG) services. Lease payments are outlined in an OPUC-approved rate schedule over a 10-year term. There are no variable payments or residual value guarantees. The selling profit computed upon lease commencement was not significant.

Our lessor portfolio also contains small leases of property owned by NW Natural to third parties. These transactions are accounted for as operating leases and the revenue is recognized over the term of the lease agreement.

The components of lease revenue at NW Natural were as follows:

In thousands	ar ended ber 31, 2019
Lease revenue	
Operating leases	\$ 171
Sales-type leases	11,198
Total lease revenue	\$ 11,369

Total future minimum lease payments to be received under non-cancelable leases at NW Natural at December 31, 2019 are as follows:

In thousands	Ope	erating	ng Sales-Type			Total
2020	\$	65	\$	18,228	\$	18,293
2021		49		17,518		17,567
2022		45		17,026		17,071
2023		45		16,557		16,602
2024		45		15,867		15,912
Thereafter		93		264,740		264,833
Total lease revenue	\$	342	\$	349,936	\$	350,278
Less: imputed interest		·		202,319		
Total leases receivable			\$	147,617		

The total leases receivable above is reported under the NGD segment and the short- and long-term portions are included within other current assets and assets under sales-type leases on the consolidated balance sheets, respectively. The total amount of unguaranteed residual assets at December 31, 2019 was \$4.0 million and is included in assets under sales-type leases on the consolidated balance sheets. Additionally, under regulatory accounting, the revenues and expenses associated with these agreements are presented on the consolidated statements of comprehensive income such that their presentation aligns with similar regulated activities at NW Natural.

Additionally, future minimum lease payments of \$0.5 million for each of the years ending 2020, 2021 and 2022 are to be received under non-cancelable operating leases associated with non-utility property rentals. For the year ended December 31, 2019, approximately \$0.5 million of lease revenue is presented in other income (expense), net on the consolidated statements of comprehensive income as it is non-operating income.

Lease Expense

Operating Leases

We have operating leases for land, buildings and equipment. Our primary lease is for NW Natural's operations center. Our leases have remaining lease terms of one year to 11 years. Many of our lease agreements include options to extend the lease, which we do not include in our minimum lease terms unless they are reasonably certain to be exercised. Short-term leases with a term of 12 months or less are not recorded on the balance sheet.

As most of our leases do not provide an implicit rate and are entered into by NW Natural, we use NW Natural's incremental borrowing rate based on information available at the lease commencement date in determining the present value of lease payments.

The components of lease expense, a portion of which is capitalized, were as follows:

	Year ended December 31, 2019								
In thousands	 NW Natural	Other (NW Holdings)			NW Holdings				
Operating lease expense	\$ 4,620	\$	191	\$	4,811				
Short-term lease expense	1,146		_		1,146				

Supplemental balance sheet information related to operating leases as of December 31, 2019 is as follows:

In thousands	NW	NW	NW Holdings		
Operating lease right of use assets	\$	2,760	\$ 190	\$	2,950
Operating lease liabilities - current liabilities	\$	1,979	\$ 122	\$	2,101
Operating lease liabilities - non-current liabilities		772	69		841
Total operating lease liabilities	\$	2,751	\$ 191	\$	2,942

As of December 31, 2019, the weighted average remaining lease term for the operating leases is one year for NW Natural. The weighted average discount rate used in the valuation of the operating lease right of use assets over the remaining lease term is 3.98% for NW Natural.

Maturities of operating lease liabilities at December 31, 2019 were as follows:

In thousands	NW)ther Holdings)	NW Holdings		
2020	\$	2,029	\$ 126	\$	2,155
2021		143	52		195
2022		111	18		129
2023		88	_		88
2024		89	_		89
Thereafter		526	_		526
Total lease payments		2,986	196		3,182
Less: imputed interest		235	5		240
Total lease obligations		2,751	 191		2,942
Less: current obligations		1,979	122		2,101
Long-term lease obligations	\$	772	\$ 69	\$	841

As of December 31, 2019, finance lease liabilities with maturities of less than one year were \$0.2 million at NW Natural.

Significant Lease Not Yet Commenced

In October 2017, NW Natural entered into a 20-year operating lease agreement for a new corporate operations center in Portland, Oregon in anticipation of the expiration of the current operations center lease in 2020. The lease commenced in the first quarter of 2020 and total estimated base rent payments over the life of the lease are approximately \$160 million. There is an option to extend the term of the lease for two additional periods of seven years.

Cash Flow Information

Supplemental cash flow information related to leases was as follows:

	Year ended December 31, 2019							
		N Natural	Other Natural (NW Holdings)		NW Holdings			
Cash paid for amounts included in the measurement of lease liabilities								
Operating cash flows from operating leases	\$	4,447	\$	182	\$	4,629		
Finance cash flows from finance leases		120		_		120		
Right of use assets obtained in exchange for lease obligations								
Operating leases	\$	7,205	\$	372	\$	7,577		
Finance leases		312		—		312		

Finance Leases

NW Natural also leases building storage spaces for use as a gas meter room in order to provide natural gas to multifamily or mixed use developments. These contracts are accounted for as finance leases and typically involve a one-time upfront payment with no remaining liability. The right of use asset for finance leases was \$0.5 million at December 31, 2019.

Lease Disclosures Related to Periods Prior to the First Quarter of 2019

Land, buildings, and equipment are leased under agreements that expire in various years, including a 99-year land lease that extends through 2108. Rental costs for continuing operations were \$5.9 million, \$7.3 million, and \$5.9 million for the years ended December 31, 2018, 2017, and 2016, respectively, a portion of which was capitalized.

The following table reflects NW Natural's future minimum lease payments due under non-cancelable operating leases for continuing operations at December 31, 2018. These commitments relate principally to the lease of the corporate operations center and underground gas storage facilities.

In thousands	Minimum lease payments
2019	\$ 5,368
2020	4,812
2021	7,077
2022	7,223
2023	7,304
Thereafter	149,881
Total	\$ 181,665

8. STOCK-BASED COMPENSATION

Stock-based compensation plans are designed to promote stock ownership in NW Holdings by employees and officers of NW Holdings and its affiliates. These compensation plans include a Long Term Incentive Plan (LTIP), an ESPP, and a Restated SOP.

Long Term Incentive Plan

The LTIP is intended to provide a flexible, competitive compensation program for eligible officers and key employees. Under the LTIP, shares of NW Holdings common stock are authorized for equity incentive grants in the form of stock, restricted stock, restricted stock units, stock options, or performance shares. An aggregate of 1,100,000 shares were authorized for issuance as of December 31, 2019. Shares awarded under the LTIP may be purchased on the open market or issued as original shares.

Of the 1,100,000 shares of common stock authorized for LTIP awards at December 31, 2019, there were 510,931 shares available for issuance under any type of award. This assumes market, performance, and service-based grants currently outstanding are awarded at the target level. There were no outstanding grants of restricted stock or stock options under the LTIP at December 31, 2019 or 2018. The LTIP stock awards are compensatory awards for which compensation expense is based on the fair value of stock awards, with expense being recognized over the performance and vesting period of the outstanding awards. Forfeitures are recognized as they occur.

Performance Shares

LTIP performance shares incorporate a combination of market, performance, and service-based factors. The following table summarizes performance share expense information:

Dollars in thousands	Shares ⁽¹⁾	Expense During Award Year ⁽²⁾	To	otal Expense for Award
Estimated award:				
2017-2019 grant ⁽³⁾	41,573	\$ 572	\$	1,971
Actual award:				
2016-2018 grant	28,218	598		1,413
2015-2017 grant	18,304	(346))	1,169

⁽¹⁾ In addition to common stock shares, a participant also receives a dividend equivalent cash payment equal to the number of shares of common stock received on the award payout multiplied by the aggregate cash dividends paid per share during the performance period.

(2) Amount represents the expense recognized in the third year of the vesting period noted above. For the 2015-2017 grant, targets were not met and expense that had been previously recognized was reversed during 2017.

⁽³⁾ This represents the estimated number of shares to be awarded as of December 31, 2019 as certain performance share measures have been achieved. Amounts are subject to change with final payout amounts authorized by the Board of Directors in February 2020.

The aggregate number of performance shares granted and outstanding at the target and maximum levels were as follows:

Dollars in thousands	Performance S Outstan			2019	Cumulative Expense	
Performance Period	Target	Maximum	Expense		December 31 2019	
2017-19	30,234	60,468	\$	572	\$	1,971
2018-20	—	—		—		—
2019-21	—	—		—		_
Total	30,234	60,468	\$	572		
	 Page 122 A					

For the 2017-2019 performance period, performance share awards are based on the achievement of EPS and Return on Invested Capital (ROIC) factors, which can be modified by a Total Shareholder Return (TSR) factor relative to the performance of the Russell 2500 Utilities Index over the three-year performance period and a growth modifier based on accumulative EBITDA. For the 2018-2020 and 2019-2021 performance period, performance share awards are based on the achievement of a three-year ROIC threshold that must be met and a cumulative EPS factor, which can be modified by a TSR factor relative to the performance of the Russell 2500 Utilities Index over the three-year performance period. The 2018-2020 and 2019-2021 performance factors to remain variable until the first quarter of the third year of the award period. As the performance factor will not be approved until the first quarter of 2020 and 2021, there is not a mutual understanding of the awards' key terms and conditions between NW Natural and the participants as of December 31, 2019, and therefore, no expense was recognized for the 2018-2020 and 2019-2021 performance period. NW Natural will calculate the grant date fair value and recognize expense once the final performance factor has been approved. If the target is achieved for the 2018-2020 and 2019-2021 awards, NW Holdings would grant 31,825 and 35,170 shares in the first quarter of 2020 and 2021, respectively.

Compensation expense is recognized in accordance with accounting standards for stock-based compensation and calculated based on performance levels achieved and an estimated fair value using the Monte-Carlo method. Due to there not being a mutual understanding of the 2018-2020 and 2019-2021 awards' key terms and conditions as noted above, the grant date fair value has not yet been determined and no nonvested shares existed at December 31, 2019. The weighted-average grant date fair value of nonvested shares associated with the 2017-2019 awards was \$57.05 per share at December 31, 2018. The weighted-average grant date fair value of shares vested during the year was \$57.05 per share and there were no performance shares granted during the year and no unrecognized compensation expense for accounting purposes as of December 31, 2019.

Restricted Stock Units

In 2012, RSUs began being granted under the LTIP instead of stock options under the Restated SOP. Generally, the RSUs awarded are forfeitable and include a performance-based threshold as well as a vesting period of four years from the grant date. Upon vesting, the RSU holder is issued one share of common stock plus a cash payment equal to the total amount of dividends paid per share between the grant date and vesting date of that portion of the RSU. The fair value of an RSU is equal to the closing market price of NW Holdings' common stock on the grant date. During 2019, total RSU expense was \$1.8 million compared to \$1.8 million in 2018 and \$1.6 million in 2017. As of December 31, 2019, there was \$3.4 million of unrecognized compensation cost from grants of RSUs, which is expected to be recognized over a period extending through 2024.

Information regarding the RSU activity is summarized as follows:

	Number of RSUs	Weighted - Average Price Per RSU
Nonvested, December 31, 2016	89,973	\$ 48.85
Granted	32,168	60.51
Vested	(35,341)	47.07
Forfeited	(2,278)	53.78
Nonvested, December 31, 2017	84,522	53.90
Granted	32,450	57.59
Vested	(32,689)	50.75
Forfeited	(1,603)	59.95
Nonvested, December 31, 2018	82,680	56.47
Granted	36,018	65.29
Vested	(35,778)	54.22
Forfeited	(3,187)	63.89
Nonvested, December 31, 2019	79,733	\$ 61.17

Restated Stock Option Plan

The NW Natural Restated SOP was terminated for new option grants in 2012; however, options granted before the plan terminated remain outstanding until the earlier of their expiration, forfeiture, or exercise and are now exercisable for shares of NW Holdings common stock. Any new grants of stock options will be made under NW Holdings' LTIP, however, no option grants have been awarded since 2012 and all stock options were vested as of December 31, 2015.

Options under the Restated SOP were granted to officers and key employees designated by a committee of the Board of Directors. All options were granted at an option price equal to the closing market price on the date of grant and may be exercised for a period of up to 10 years and seven days from the date of grant. Option holders may exchange shares they have owned for at least six months, valued at the current market price, to purchase shares at the option price.

Information regarding the Restated SOP activity is summarized as follows:

	Option Shares	Weighted - Average Price Per Share	Intrinsic Value (In millions)
Balance outstanding and exercisable, December 31, 2016	180,163	\$ 44.38	\$ 2.8
Exercised	(88,275)	44.33	1.8
Forfeited	(200)	41.15	n/a
Balance outstanding and exercisable, December 31, 2017	91,688	44.43	1.4
Exercised	(35,450)	43.61	0.8
Forfeited	(300)	43.29	n/a
Balance outstanding and exercisable, December 31, 2018	55,938	44.96	0.9
Exercised	(45,000)	44.79	1.0
Expired	—	—	n/a
Balance outstanding and exercisable, December 31, 2019	10,938	\$ 45.67	\$ 0.3

During 2019, cash of \$2.0 million was received for stock options exercised and \$0.2 million related tax benefit was recognized. The weighted-average remaining life of options exercisable and outstanding at December 31, 2019 was 1.12 years.

Employee Stock Purchase Plan

NW Holdings' ESPP allows employees of NW Holdings, NW Natural and certain designated subsidiaries to purchase common stock at 85% of the closing price on the trading day immediately preceding the initial offering date, which is set annually. For the 2019-2020 ESPP period, each eligible employee may purchase up to \$21,222 worth of stock through payroll deductions over a period defined by the Board of Directors, with shares issued at the end of the subscription period.

Stock-Based Compensation Expense

Stock-based compensation expense is recognized as operations and maintenance expense or is capitalized as part of construction overhead at the entity at which the award recipient is employed. The following table summarizes the NW Holdings' financial statement impact, substantially all of which was recorded at NW Natural, of stock-based compensation under the LTIP, Restated SOP and ESPP:

In thousands	2019	2018	2017
Operations and maintenance expense, for stock-based compensation	\$ 2,172	\$ 2,489	\$ 2,354
Income tax benefit	(575)	(659)	(930)
Net stock-based compensation effect on net income (loss)	 1,597	1,830	 1,424
Amounts capitalized for stock-based compensation	\$ 430	\$ 531	\$ 528

9. DEBT

Short-Term Debt

The primary source of short-term liquidity for NW Holdings is cash balances, dividends from its operating subsidiaries, in particular NW Natural, available cash from a multi-year credit facility, and short-term credit facilities it may enter into from time to time.

The primary source of short-term liquidity for NW Natural is from the sale of commercial paper, its multi-year credit facilities, and short-term credit facilities it may enter into from time to time. In addition to issuing commercial paper or bank loans to meet working capital requirements, including seasonal requirements to finance gas purchases and accounts receivable, short-term debt may also be used to temporarily fund capital requirements. For NW Natural, commercial paper and bank loans are periodically refinanced through the sale of long-term debt or equity contributions from NW Holdings. NW Natural's commercial paper is sold through two commercial banks under an issuing and paying agency agreement and is supported by one or more unsecured revolving credit facilities. See "Credit Agreements" below.

At December 31, 2019 and 2018, NW Holdings had short-term debt outstanding of \$149.1 million and \$217.6 million, respectively. The weighted average interest rate of NW Holdings' short-term debt outstanding at December 31, 2019 and 2018 was 2.0% and 3.0%, respectively. At December 31, 2019 and 2018, NW Natural had \$125.1 million and \$217.5 million of commercial paper outstanding, respectively. The weighted average interest rate of commercial paper outstanding at December 31, 2019 and 3.0%, respectively.

The carrying cost of commercial paper approximates fair value using Level 2 inputs. See Note 2 for a description of the fair value hierarchy. At December 31, 2019, NW Natural's commercial paper had a maximum remaining maturity of 22 days and an average remaining maturity of 10 days.

Credit Agreements

NW Holdings

In October 2018, NW Holdings entered into a \$100.0 million credit agreement, with a feature that allows it to request increases in the total commitment amount, up to a maximum of \$150.0 million. The maturity date of the agreement is October 2, 2023, with available extensions of commitments for two additional one-year periods, subject to lender approval.

The NW Holdings credit agreement permits the issuance of letters of credit in an aggregate amount of up to \$40.0 million. The principal amount of borrowings under the credit agreement is due and payable on the maturity date. The credit agreement requires NW Holdings to maintain a consolidated indebtedness to total capitalization ratio of 70% or less. Failure to comply with this covenant would entitle the lenders to terminate their lending commitments and accelerate the maturity of all amounts outstanding. NW Holdings was in compliance with this covenant at December 31, 2019 and 2018.

The agreement also requires NW Holdings to maintain debt ratings (which are defined by a formula using NW Natural's credit ratings in the event NW Holdings does not have a credit rating) with Standard & Poor's (S&P) and Moody's Investors Service, Inc. (Moody's) and notify the lenders of any change in its senior unsecured debt ratings or senior secured debt ratings, as applicable, by such rating agencies. A change in NW Holdings' debt ratings by S&P or Moody's is not an event of default, nor is the maintenance of a specific minimum level of debt rating a condition of drawing upon the credit agreement. Rather, interest rates on any loans outstanding under the credit agreements are tied to debt ratings and therefore, a change in the debt rating would increase or decrease the cost of any loans under the credit agreements when ratings are changed. NW Holdings does not currently maintain ratings with S&P or Moody's.

There was a \$24.0 million outstanding balance and no outstanding balances under the NW Holdings agreement at December 31, 2019 and 2018, respectively. No letters of credit were issued or outstanding under the NW Holdings agreement at December 31, 2019 and 2018. NW Holdings had \$1.0 million and \$2.8 million of letters of credit issued and outstanding in support of acquisitions of water companies, separate from the aforementioned credit agreement, at December 31, 2019 and 2018, respectively.

NW Natural

In October 2018, NW Natural entered into a new multi-year credit agreement for unsecured revolving loans totaling \$300.0 million, with a feature that allows NW Natural to request increases in the total commitment amount, up to a maximum of \$450.0 million. The maturity date of the agreement is October 2, 2023 with available extensions of commitments for two additional one-year periods, subject to lender approval. The new credit agreement is substantially similar to the prior credit agreement which was terminated upon the closing of the New Credit Agreement. The new credit agreement permits the issuance of letters of credit in an aggregate amount of up to \$60.0 million. The principal amount of borrowings under the credit agreement is due and payable on the maturity date. There were no outstanding balances under NW Natural's prior credit agreement or the new credit agreement and no letters of credit issued or outstanding at December 31, 2019 and 2018.

NW Natural's prior credit agreement and the new credit agreement require NW Natural to maintain a consolidated indebtedness to total capitalization ratio of 70% or less. Failure to comply with this covenant would entitle the lenders to terminate their lending commitments and accelerate the maturity of all amounts outstanding. NW Natural was in compliance with this covenant at December 31, 2019 and 2018.

The new credit agreement also requires NW Natural to maintain credit ratings with S&P and Moody's and notify the lenders of any change in NW Natural's senior unsecured debt ratings or senior secured debt ratings, as applicable, by such rating agencies. A change in NW Natural's debt ratings by S&P or Moody's is not an event of default, nor is the maintenance of a specific minimum level of debt rating a condition of drawing upon the new credit agreement. Rather, interest rates on any loans outstanding under the new credit agreement are tied to debt ratings and therefore, a change in the debt rating would increase or decrease the cost of any loans under the new credit agreement when ratings are changed.

Long-Term Debt

NW Holdings

At December 31, 2019 and 2018, NW Holdings had long-term debt outstanding of \$881.1 million and \$736.2 million, respectively; which included \$5.7 million and \$5.6 million of unamortized debt issuance costs at NW Natural, respectively. NW Holdings' long-term debt is primarily comprised of debt held at its wholly-owned subsidiaries NW Natural (shown below) and NWN Water. Long-term debt at NWN Water is primarily comprised of a two-year term loan agreement for \$35.0 million, due in 2021. NWN Water entered into this agreement in June 2019 and the loan carried an interest rate of 2.35% at December 31, 2019, which is based upon the one-month LIBOR rate. The loan is guaranteed by NW Holdings and requires NW Holdings to maintain a consolidated indebtedness to total capitalization ratio of 70% or less. Failure to comply with this covenant would entitle the lenders to terminate their lending commitments and accelerate the maturity of all amounts outstanding. NW Holdings was in compliance with this covenant at December 31, 2019, with a consolidated indebtedness to total capitalization ratio of 54.3%.

NW Natural

NW Natural's issuance of FMBs, which includes NW Natural's medium-term notes, under the Mortgage and Deed of Trust (Mortgage) is limited by eligible property, adjusted net earnings, and other provisions of the Mortgage. The Mortgage constitutes a first mortgage lien on substantially all of NW Natural's NGD property.

Maturities and Outstanding Long-Term Debt

Retirement of long-term debt for each of the annual periods through December 31, 2024 and thereafter are as follows:

In thousands	Long-term debt maturities
2020	\$ 75,000
2021	60,000
2022	_
2023	90,000
2024	_
Thereafter	624,700

The following table presents debt outstanding as of December 31:

In thousands		2019	2018
NW Natural			
First Mortgage Bonds:			
8.310% Series due 2019	\$	_	\$ 10,000
7.630% Series due 2019		_	20,000
5.370% Series due 2020		75,000	75,000
9.050% Series due 2021		10,000	10,000
3.176% Series due 2021		50,000	50,000
3.542% Series due 2023		50,000	50,000
5.620% Series due 2023		40,000	40,000
7.720% Series due 2025		20,000	20,000
6.520% Series due 2025		10,000	10,000
7.050% Series due 2026		20,000	20,000
3.211% Series due 2026		35,000	35,000
7.000% Series due 2027		20,000	20,000
2.822% Series due 2027		25,000	25,000
6.650% Series due 2027		19,700	19,700
6.650% Series due 2028		10,000	10,000
3.141% Series due 2029		50,000	_
7.740% Series due 2030		20,000	20,000
7.850% Series due 2030		10,000	10,000
5.820% Series due 2032		30,000	30,000
5.660% Series due 2033		40,000	40,000
5.250% Series due 2035		10,000	10,000
4.000% Series due 2042		50,000	50,000
4.136% Series due 2046		40,000	40,000
3.685% Series due 2047		75,000	75,000
4.110% Series due 2048		50,000	50,000
3.869% Series due 2049		90,000	
Long-term debt, gross		849,700	739,700
Less: current maturities		75,000	30,000
Total long-term debt	\$	774,700	\$ 709,700
	Page 122 Δ =		

First Mortgage Bonds

In June 2019, NW Natural issued \$140.0 million of FMBs consisting of \$50.0 million with an interest rate of 3.141%, due in 2029, and \$90.0 million with an interest rate of 3.869%, due in 2049.

In September 2018, NW Natural issued \$50.0 million of FMBs with an interest rate of 4.110%, due in 2048.

Retirements of Long-Term Debt

In September 2019, NW Natural retired \$10.0 million of FMBs with an interest rate of 8.310%, and retired \$20.0 million of FMBs with an interest rate of 7.630% in December 2019.

In March 2018, NW Natural retired \$22.0 million of FMBs with an interest rate of 6.600%, and retired \$75.0 million of FMBs with an interest rate of 1.545% in December 2018.

Fair Value of Long-Term Debt

NW Holdings' and NW Natural's outstanding debt does not trade in active markets. The fair value of debt is estimated using natural gas distribution companies with similar credit ratings, terms, and remaining maturities to NW Holdings' and NW Natural's debt that actively trade in public markets. Substantially all outstanding debt at NW Holdings is comprised of NW Natural debt. These valuations are based on Level 2 inputs as defined in the fair value hierarchy. See Note 2.

The following table provides an estimate of the fair value of NW Holdings' long-term debt, including current maturities of long-term debt, using market prices in effect on the valuation date:

	December 31,						
In thousands Gross long-term debt	 2019						
	\$ 886,776	\$	741,813				
Unamortized debt issuance costs	(5,712)		(5,577)				
Carrying amount	\$ 881,064	\$	736,236				
Estimated fair value	\$ 957,268	\$	762,335				

The following table provides an estimate of the fair value of NW Natural's long-term debt, including current maturities of long-term debt, using market prices in effect on the valuation date:

	December 31,						
In thousands Gross long-term debt		2019					
	\$	849,700	\$	739,700			
Unamortized debt issuance costs		(5,712)		(5,577)			
Carrying amount	\$	843,988	\$	734,123			
Estimated fair value	\$	919,835	\$	760,222			

10. PENSION AND OTHER POSTRETIREMENT BENEFIT COSTS

NW Natural maintains a qualified non-contributory defined benefit pension plan (Pension Plan), non-qualified supplemental pension plans for eligible executive officers and other key employees, and other postretirement employee benefit plans. NW Natural also has a qualified defined contribution plan (Retirement K Savings Plan) for all eligible employees. The Pension Plan and Retirement K Savings Plan have plan assets, which are held in qualified trusts to fund retirement benefits.

Effective January 1, 2007 and 2010, the qualified defined benefit pension plans and postretirement benefits for non-union employees and union employees, respectively, were closed to new participants.

Non-union and union employees hired or re-hired after December 31, 2006 and 2009, respectively, and employees of NW Natural subsidiaries are provided an enhanced Retirement K Savings Plan benefit.

The following table provides a reconciliation of the changes in NW Natural's benefit obligations and fair value of plan assets, as applicable, for NW Natural's pension and other postretirement benefit plans, excluding the Retirement K Savings Plan, and a summary of the funded status and amounts recognized in NW Holdings' and NW Natural's consolidated balance sheets as of December 31:

	Postretirement Benefit Plans								
	Pension Benefits			Other Benefits					
In thousands	2019			2018	2019			2018	
Reconciliation of change in benefit obligation:									
Obligation at January 1	\$	455,568	\$	486,289	\$	28,172	\$	28,927	
Service cost		6,308		7,185		244		282	
Interest cost		18,683		16,991		1,117		964	
Net actuarial (gain) loss		58,269		(32,979)		1,809		(327)	
Benefits paid		(23,160)		(21,918)		(1,774)		(1,674)	
Obligation at December 31	\$	515,668	\$	455,568	\$	29,568	\$	28,172	
Reconciliation of change in plan assets:									
Fair value of plan assets at January 1	\$	257,797	\$	287,925	\$	_	\$	_	
Actual return on plan assets		65,104		(25,925)		_		_	
Employer contributions		13,310		17,715		1,774		1,674	
Benefits paid		(23,160)		(21,918)		(1,774)		(1,674)	
Fair value of plan assets at December 31	\$	313,051	\$	257,797	\$	_	\$	_	
Funded status at December 31	\$	(202,617)	\$	(197,771)	\$	(29,568)	\$	(28,172)	

NW Natural's Pension Plan had a projected benefit obligation of \$477.3 million and \$420.2 million at December 31, 2019 and 2018, respectively, and fair values of plan assets of \$313.1 million and \$257.8 million, respectively. The plan had an accumulated benefit obligation of \$434.9 million and \$385.9 million at December 31, 2019 and 2018, respectively.

The following table presents amounts realized through regulatory assets or in other comprehensive loss (income) for the years ended December 31:

			Other Comp	prehensive Los	s (Income)							
	Pe	ension Benefi	its	Other P	ostretiremen	t Benefits	Pension Benefits					
In thousands	2019	2018	2017	2019	2018	2017	2019	2018	2017			
Net actuarial loss (gain)	\$ 10,424	\$ 14,261	\$ 12,177	\$ 1,809	\$ (327)	\$ (214)	\$ 3,595	\$ (677)	\$ 2,777			
Amortization of:												
Prior service cost	(7)	(42)	(127)	468	468	468	_	_	_			
Actuarial loss	(14,057)	(18,761)	(14,802)	(369)	(448)	(696)	(648)	(1,052)	(946)			
Total	\$ (3,640)	\$ (4,542)	\$ (2,752)	\$ 1,908	\$ (307)	\$ (442)	\$ 2,947	\$ (1,729)	\$ 1,831			

The following table presents amounts recognized in regulatory assets and accumulated other comprehensive loss (AOCL) at December 31:

	Regulatory Assets									AOCL			
	 Pension Benefits				Other Postretirement Benefits				Pension Benefits				
In thousands	 2019		2018		2019		2018		2019		2018		
Prior service cost (credit)	\$ _	\$	7	\$	(1,270)	\$	(1,738)	\$	_	\$	_		
Net actuarial loss	166,903		170,535		7,629		6,189		14,484		11,537		
Total	\$ 166,903	\$	170,542	\$	6,359	\$	4,451	\$	14,484	\$	11,537		

The following table presents amounts recognized by NW Holdings and NW Natural in AOCL and the changes in AOCL related to NW Natural's non-qualified employee benefit plans:

		iber 31,			
In thousands		2019	2018		
Beginning balance	\$	(7,188) \$	(8,438)		
Amounts reclassified to AOCL		(3,611)	642		
Amounts reclassified from AOCL:					
Amortization of actuarial losses		648	1,052		
Reclassification of stranded tax effects ⁽¹⁾		(1,366)	—		
Total reclassifications before tax		(4,329)	1,694		
Tax expense (benefit)		784	(444)		
Total reclassifications for the period		(3,545)	1,250		
Ending balance	\$	(10,733) \$	(7,188)		

⁽¹⁾ Reclassification of \$1.4 million of income tax effects resulting from the TCJA from accumulated other comprehensive loss to retained earnings was made pursuant to the adoption of ASU 2018-02. See Note 2.

In 2020, NW Natural will amortize an estimated \$18.3 million from regulatory assets to net periodic benefit costs, consisting of \$18.8 million of actuarial losses offset by \$0.5 million of prior service credits. A total of \$0.9 million will be amortized from AOCL to earnings related to actuarial losses in 2020.

The assumed discount rates for NW Natural's Pension Plan and other postretirement benefit plans were determined independently based on the FTSE Above Median Curve (discount rate curve), which uses high quality corporate bonds rated AAor higher by S&P or Aa3 or higher by Moody's. The discount rate curve was applied to match the estimated cash flows in each of the plans to reflect the timing and amount of expected future benefit payments for these plans.

The assumed expected long-term rate of return on plan assets for the Pension Plan was developed using a weighted-average of the expected returns for the target asset portfolio. In developing the expected long-term rate of return assumption, consideration was given to the historical performance of each asset class in which the plan's assets are invested and the target asset allocation for plan assets.

The investment strategy and policies for Pension Plan assets held in the retirement trust fund were approved by the NW Natural Retirement Committee, which is composed of senior management with the assistance of an outside investment consultant. The policies set forth the guidelines and objectives governing the investment of plan assets. Plan assets are invested for total return with appropriate consideration for liquidity, portfolio risk, and return expectations. All investments are expected to satisfy the prudent investments rule under the Employee Retirement Income Security Act of 1974. The approved asset classes may include cash and short-term investments, fixed income, common stock and convertible securities, absolute and real return strategies, and real estate. Plan assets may be invested in separately managed accounts or in commingled or mutual funds. Investment rebalancing takes place periodically as needed, or when significant cash flows occur, in order to maintain the allocation of assets within the stated target ranges. The retirement trust fund is not currently invested in NW Holdings or NW Natural securities.

The following table presents the Pension Plan asset target allocation at December 31, 2019:

Asset Category	Target Allocation		
Long government/credit	20%		
U.S. large cap equity	18		
Non-U.S. equity	18		
Absolute return strategies	12		
U.S. small/mid cap equity	10		
Real estate funds	7		
High yield bonds	5		
Emerging markets equity	5		
Emerging market debt	5		

Non-qualified supplemental defined benefit plan obligations were \$38.3 million and \$35.4 million at December 31, 2019 and 2018, respectively. These plans are not subject to regulatory deferral, and the changes in actuarial gains and losses, prior service costs, and transition assets or obligations are recognized in AOCL, net of tax until they are amortized as a component of net periodic benefit cost. These are unfunded, non-qualified plans with no plan assets; however, a significant portion of the obligations is indirectly funded with company and trust-owned life insurance and other assets.

Other postretirement benefit plans are unfunded plans but are subject to regulatory deferral. The actuarial gains and losses, prior service costs, and transition assets or obligations for these plans are recognized as a regulatory asset.

Net periodic benefit costs consist of service costs, interest costs, the expected returns on plan assets, and the amortization of gains and losses and prior service costs. The gains and losses are the sum of the actuarial and asset gains and losses throughout the year and are amortized over the average remaining service period of active participants. The asset gains and losses are based in part on a market-related valuation of assets. The market-related valuation reflects differences between expected returns and actual investment returns with the differences recognized over a two-year period from the year in which they occur, thereby reducing year-to-year net periodic benefit cost volatility.

The service cost component of net periodic benefit cost for NW Natural pension and other postretirement benefit plans is recognized in operations and maintenance expense in the consolidated statements of comprehensive income. The other nonservice cost components are recognized in other income (expense), net in the consolidated statements of comprehensive income. The following table provides the components of net periodic benefit cost for NW Natural's pension and other postretirement benefit plans for the years ended December 31:

		F	Pens	sion Benefit	s		Other Postretirement Benefits						
In thousands	2019			2018		2017		2019	2018		2017		
Service cost	\$	6,308	\$	7,185	\$	7,090	\$	244	\$	282	\$	341	
Interest cost		18,684		16,991		18,111		1,116		964		1,141	
Expected return on plan assets		(20,854)		(20,639)		(20,433)		_		_		_	
Amortization of prior service costs		7		43		127		(468)		(468)		(468)	
Amortization of net actuarial loss		14,704		19,813		15,748		368		448		696	
Net periodic benefit cost		18,849		23,393		20,643		1,260		1,226		1,710	
Amount allocated to construction		(2,493)		(2,764)		(6,597)		(86)		(98)		(587)	
Amount deferred to regulatory balancing account		_		(10,314)		(6,542)		_		_		_	
Net periodic benefit cost charged to expense		16,356		10,315		7,504		1,174		1,128		1,123	
Regulatory pension disallowance		10,500		_		_		_		_		_	
Amortization of regulatory balancing account		16,841		_		_		_		_		_	
Net amount charged to expense	\$	43,697	\$	10,315	\$	7,504	\$	1,174	\$	1,128	\$	1,123	

Net periodic benefit costs are reduced by amounts capitalized to NGD plant. In addition, a certain amount of net periodic benefit costs were recorded to the regulatory balancing account, representing net periodic pension expense for the Pension Plan above the amount set in rates, as approved by the OPUC, from 2011 through October 31, 2018.

In March 2019, the OPUC issued an order concluding the NW Natural 2018 Oregon rate case. The order allowed for the application of certain deferred revenues and tax benefits from the TCJA to reduce NW Natural's pension regulatory balancing account. A corresponding total of \$12.5 million in pension expenses were recognized in operating and maintenance expense and other income (expense), net in the consolidated statements of comprehensive income in the first quarter of 2019, with offsetting benefits recorded within operating revenues and income taxes. The order also directed NW Natural to reduce the balancing account by an additional \$10.5 million, of which \$3.9 million was charged to operations and maintenance expense and \$6.6 million was charged to other income (expense), net in the consolidated statements of comprehensive income and maintenance expense and \$6.6 million was charged to other income (expense), net in the second quarter of 2019 in accordance with the order.

Total amortization of the regulatory balancing account of \$16.8 million in 2019, of which \$6.2 million was charged to operations and maintenance expense and \$10.6 million was charged to other income (expense), net. Total deferrals of the regulatory balancing account were \$10.3 million in 2018, of which \$2.4 million was deferred from operations and maintenance expense and \$7.9 million was deferred from other income (expense), net.

The following table provides the assumptions used in measuring periodic benefit costs and benefit obligations for the years ended December 31:

	Pe	ension Benefits		Other Postretirement Benefits				
	2019	2018	2017	2019	2018	2017		
Assumptions for net periodic benefit cost:								
Weighted-average discount rate	4.19%	3.51%	3.99%	4.13%	3.44%	3.85%		
Rate of increase in compensation	3.25-3.5%	3.25-4.5%	3.25-4.5%	n/a	n/a	n/a		
Expected long-term rate of return	7.50%	7.50%	7.50%	n/a	n/a	n/a		
Assumptions for year-end funded status:								
Weighted-average discount rate	3.16%	4.20%	3.52%	3.11%	4.13%	3.44%		
Rate of increase in compensation ⁽¹⁾	3.50-6.50%	3.25-4.5%	3.25-4.5%	n/a	n/a	n/a		
Expected long-term rate of return	7.25%	7.50%	7.50%	n/a	n/a	n/a		

⁽¹⁾Rate assumption is 6.50% in 2020 and 3.50% thereafter. The 2020 compensation increase assumption was a result of the 2019 execution of a new collective bargaining agreement with unionized members of NW Natural effective December 1, 2019.

The assumed annual increase in health care cost trend rates used in measuring other postretirement benefits as of December 31, 2019 was 6.50%. These trend rates apply to both medical and prescription drugs. Medical costs and prescription drugs are assumed to decrease gradually each year to a rate of 4.75% by 2026.

Assumed health care cost trend rates can have a significant effect on the amounts reported for the health care plans; however, other postretirement benefit plans have a cap on the amount of costs reimbursable by NW Natural.

A one percentage point change in assumed health care cost trend rates would have the following effects:

In thousands	1%	Increase	1% Decrease		
Effect on net periodic postretirement health care benefit cost	\$	49	\$ (44)		
Effect on the accumulated postretirement benefit obligation		710	(640)		

Mortality assumptions are reviewed annually and are updated for material changes as necessary. In 2019, mortality rate assumptions were updated from RP-2014 mortality tables using scale MP-2018 to Pri-2012 mortality tables using scale MP-2019, which partially offset increases of the projected benefit obligation.

The following table provides information regarding employer contributions and benefit payments for NW Natural's Pension Plan, non-qualified pension plans, and other postretirement benefit plans for the years ended December 31, and estimated future contributions and payments:

In thousands	Pens	ion Benefits	Othe	er Benefits
Employer Contributions:				
2018	\$	17,715	\$	1,674
2019		13,310		1,774
2020 (estimated)		31,338		1,756
Benefit Payments:				
2017		31,580		1,737
2018		21,918		1,674
2019		23,160		1,774
Estimated Future Benefit Payments:				
2020		23,412		1,756
2021		24,304		1,833
2022		25,094		1,848
2023		25,941		1,899
2024		26,757		1,903
2025-2029		148,000		8,945

Employer Contributions to Company-Sponsored Defined Benefit Pension Plans

NW Natural makes contributions to its qualified defined benefit Pension Plans based on actuarial assumptions and estimates, tax regulations, and funding requirements under federal law. The Pension Protection Act of 2006 (the Act) established funding requirements for defined benefit plans. The Act establishes a 100% funding target over seven years for plan years beginning after December 31, 2008. In July 2012, President Obama signed the Moving Ahead for Progress in the 21st Century Act

(MAP-21) into law, which changed several provisions affecting pension plans, including temporary funding relief and Pension Benefit Guaranty Corporation (PBGC) premium increases, which shifts the level of minimum required contributions from the short-term to the long-term as well as increasing the operational costs of running a pension plan. MAP-21 established a new minimum and maximum corridor for segment rates based on a 25-year average of bond yields, which resulted in lower minimum contributions requirements than those under previous regulations. MAP-21, as amended, provides for the current corridor to be in effect through 2020 and subsequently broaden on an annual basis from 2021 through 2024.

The Pension Plan was underfunded by \$164.3 million at December 31, 2019. NW Natural made cash contributions totaling \$11.0 million to its Pension Plan for 2019. During 2020, NW Natural expects to make contributions of approximately \$29.0 million to this plan.

Multiemployer Pension Plan

In addition to the NW Natural-sponsored Pension Plan presented above, prior to 2014 NW Natural contributed to a multiemployer pension plan for its NGD union employees known as the Western States Office and Professional Employees International Union Pension Fund (Western States Plan). That plan's employer identification number is 94-6076144. Effective December 22, 2013, NW Natural withdrew from the plan, which was a noncash transaction. Vested participants will receive all benefits accrued through the date of withdrawal. As the plan was underfunded at the time of withdrawal, NW Natural was assessed a withdrawal liability of \$8.3 million, plus interest, which requires NW Natural to pay \$0.6 million each year to the plan for 20 years beginning in July 2014. The cost of the withdrawal liability was deferred to a regulatory account on the balance sheet.

Payments were \$0.6 million for 2019, and as of December 31, 2019 the liability balance was \$6.5 million. Contributions to the plan were \$0.6 million for each of 2018 and 2017, which was approximately 5% to 6% of the total contributions to the plan by all employer participants in those years.

Defined Contribution Plan

NW Natural's Retirement K Savings Plan is a qualified defined contribution plan under Internal Revenue Code Sections 401(a) and 401(k). NW Natural contributions totaled \$7.0 million, \$6.5 million, and \$5.4 million for 2019, 2018, and 2017, respectively. The Retirement K Savings Plan includes an Employee Stock Ownership Plan.

Deferred Compensation Plans

NW Natural's supplemental deferred compensation plans for eligible officers and senior managers are non-qualified plans. These plans are designed to enhance the retirement savings of employees and to assist them in strengthening their financial security by providing an incentive to save and invest regularly.

Fair Value

Below is a description of the valuation methodologies used for assets measured at fair value. In cases where NW Natural's Pension Plan is invested through a collective trust fund or mutual fund, the fund's market value is utilized. Market values for investments directly owned are also utilized.

U.S. EQUITY. These are non-published net asset value (NAV) assets. The non-published NAV assets consist of commingled trusts where NAV is not published but the investment can be readily disposed of at NAV or market value. The underlying investments in this asset class includes investments primarily in U.S. common stocks.

INTERNATIONAL/GLOBAL EQUITY. These are Level 1 and non-published NAV assets. The Level 1 asset is a mutual fund, and the non-published NAV assets consist of commingled trusts where the NAV/unit price is not published, but the investment can be readily disposed of at the NAV/unit price. The mutual funds has a readily determinable fair value, including a published NAV, and the commingled trusts are valued at unit price. This asset class includes investments primarily in foreign equity common stocks.

LIABILITY HEDGING. These are non-published NAV assets. The non-published NAV assets consist of commingled trusts where NAV is not published but the investment can be readily disposed of at NAV or market value. The underlying investments in this asset class include long duration fixed income investments primarily in U.S. treasuries, U.S. government agencies, municipal securities, mortgage-backed securities, asset-backed securities, as well as U.S. and international investment-grade corporate bonds.

OPPORTUNISTIC. These are non-published NAV assets consisting of commingled trusts where the investments can be readily disposed of at unit price, and a hedge fund of funds where the valuation is not published. This hedge fund of funds is winding down. Based on recent dispositions, NW Natural believes the remaining investment is fairly valued. The hedge fund of funds is valued at the weighted average value of investments in various hedge funds, which in turn are valued at the closing price of the underlying securities. This asset class includes investments in emerging market debt, leveraged loans, REITs, high yield bonds, a commodities fund, and a hedge fund of funds.

ABSOLUTE RETURN STRATEGY. This is a non-published NAV asset consisting of a hedge fund of funds where the valuation is not published. This hedge fund of funds is winding down. Based on recent dispositions, NW Natural believes the remaining investment is fairly valued. The hedge fund of funds is valued at the weighted average value of investments in various hedge funds, which in turn are valued at the closing price of the underlying securities. This asset class primarily includes investments in common stocks and fixed income securities.

CASH AND CASH EQUIVALENTS. These are Level 1 and non-published NAV assets. The Level 1 assets consist of cash in U.S. dollars, which can be readily disposed of at face value. The non-published NAV assets represent mutual funds without published NAV's but the investment can be readily disposed of at the NAV. The mutual funds are valued at the NAV of the shares held by the plan at the valuation date.

The preceding valuation methods may produce a fair value calculation that is not indicative of net realizable value or reflective of future fair values. Although we believe these valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain investments could result in a different fair value measurement at the reporting date.

Investment securities are exposed to various financial risks including interest rate, market, and credit risks. Due to the level of risk associated with certain investment securities, it is reasonably possible that changes in the values of NW Natural's investment securities will occur in the near term and such changes could materially affect NW Natural's investment account balances and the amounts reported as plan assets available for benefit payments.

The following tables present the fair value of NW Natural's plan assets, including outstanding receivables and liabilities, of NW Natural's retirement trust fund:

In thousands	December 31, 2019									
Investments	Level 1 Level 2 Level 3 NAV ⁽¹⁾							Total		
US equity	\$	_	\$	_	\$	_	\$	95,604	\$	95,604
International / Global equity		33,168		_		_		74,337		107,505
Liability hedging		_		_		_		93,028		93,028
Opportunistic		_		_		_		9,864		9,864
Cash and cash equivalents		_		_		_		7,049		7,049
Total investments	\$	33,168	\$		\$	_	\$	279,882	\$	313,050

					Dec	ember 31, 20	10			
Investments	_	Non-Publis Level 1 Level 2 Level 3 NAV ⁽¹⁾				on-Published NAV ⁽¹⁾	d Total			
US equity	\$	_	\$	_	\$	_	\$	85,233	\$	85,233
International / Global equity		24,994		_		_		70,017		95,011
Liability hedging		_		_		_		45,659		45,659
Opportunistic		_		_		_		23,186		23,186
Cash and cash equivalents		_		_		_		8,707		8,707
Total investments	\$	24,994	\$	_	\$	_	\$	232,802	\$	257,796
			_		_		_		_	

December 31, 2018

	Dece	ember 31,
	2019	2018
Receivables:		
Accrued interest and dividend income	\$ 3,24	3 \$ 1
Due from broker for securities sold	-	
Total receivables	3,24	3 1
Liabilities:		
Due to broker for securities purchased	3,24	2 —
Total investment in retirement trust	\$ 313,05	1 \$ 257,797

(1) The fair value for these investments is determined using Net Asset Value per share (NAV) as of December 31, as a practical expedient, and therefore they are not classified within the fair value hierarchy. These investments primarily consist of institutional investment products, for which the NAV is generally not publicly available.

The following table provides a reconciliation between income taxes calculated at the statutory federal tax rate and the provision for income taxes reflected in the NW Holdings and NW Natural statements of comprehensive income or loss for December 31:

		NW Holdings	i	NW Natural					
Dollars in thousands	2019	2018	2017	2019	2018	2017			
Income taxes at federal statutory rate	\$ 16,370	\$ 19,222	\$ 39,578	\$ 17,438	\$ 19,434	\$ 39,624			
Increase (decrease):									
State income tax, net of federal	4,422	4,927	5,066	4,716	4,982	5,072			
Differences required to be flowed-through by regulatory commissions	(5,772)	1,302	2,357	(5,772)	1,302	2,357			
Effect of the TCJA	_	_	(3,376)	_	_	(2,956)			
Deferred tax rate differential post-TCJA	_	(76)	_	_	(75)	_			
Regulatory settlement	(1,129)	_	_	(1,129)	_	_			
Other, net	(1,249)	(1,184)	(2,617)	(1,188)	(1,184)	(2,619)			
Total provision for income taxes	\$ 12,642	\$ 24,191	\$ 41,008	\$ 14,065	\$ 24,459	\$ 41,478			
Effective tax rate	16.2%	26.4%	36.3%	16.9%	26.4%	36.6%			

The NW Holdings and NW Natural effective income tax rates for 2019 compared to 2018 changed primarily as a result of lower pre-tax income and amortization of excess deferred income tax benefits as ordered by regulatory commissions. The NW Holdings and NW Natural effective income tax rates for 2018 compared to 2017 changed primarily as a result of the lower federal corporate income tax rate provided for by the TCJA.

The provision for current and deferred income taxes consists of the following at December 31:

	NW Holdings				NW Natural					
In thousands	2019		2018		2017	2019		2018		2017
Current										
Federal	\$ 5,530	\$	8,953	\$	19,345	\$ 6,755	\$	9,127	\$	19,304
State	1,667		3,785		5,963	2,101		3,846		5,956
	 7,197		12,738		25,308	 8,856		12,973		25,260
Deferred										
Federal	1,515		9,001		13,869	1,340		9,025		14,371
State	3,930		2,452		1,831	3,869		2,461		1,847
	5,445		11,453		15,700	5,209		11,486		16,218
Income tax provision	\$ 12,642	\$	24,191	\$	41,008	\$ 14,065	\$	24,459	\$	41,478

The following table summarizes the tax effect of significant items comprising NW Holdings and NW Natural's deferred income tax balances recorded at December 31:

	NW Holdings			NW Natural				
In thousands		2019		2018		2019		2018
Deferred tax liabilities:								
Plant and property	\$	269,886	\$	288,385	\$	281,044	\$	303,186
Leases receivable		40,133		_		40,133		_
Pension and postretirement obligations		22,635		27,135		22,635		27,135
Income tax regulatory asset		19,382		21,403		19,382		21,402
Other		751		1,061		410		537
Total deferred income tax liabilities	\$	352,787	\$	337,984	\$	363,604	\$	352,260
Deferred income tax assets:								
Income tax regulatory liability	\$	54,259	\$	57,469	\$	54,259	\$	57,469
Other intangible assets		2,723		_		_		_
Net operating losses and credits carried forward		162		52		48		52
Total deferred income tax assets	\$	57,144	\$	57,521	\$	54,307	\$	57,521
Total net deferred income tax liabilities	\$	295,643	\$	280,463	\$	309,297	\$	294,739
			_		_			

At December 31, 2019 and 2018, regulatory income tax assets of \$16.9 million and \$19.1 million, respectively, were recorded by NW Natural, a portion of which is recorded in current assets. These regulatory income tax assets primarily represent future rate recovery of deferred tax liabilities, resulting from differences in NGD plant financial statement and tax bases and NGD plant removal costs, which were previously flowed through for rate making purposes and to take into account the additional future taxes, which will be generated by that recovery. These deferred tax liabilities, and the associated regulatory income tax assets, are currently being recovered through customer rates. At December 31, 2019 and 2018, regulatory income tax assets of \$2.5 million and \$2.3 million, respectively, were recorded by NW Natural, representing future recovery of deferred tax liabilities resulting from the equity portion of AFUDC.

At December 31, 2019 and 2018, deferred tax assets of \$54.3 million and \$57.5 million, respectively, were recorded by NW Natural representing the future income tax benefit associated with the excess deferred income tax regulatory liability recorded as a result of the lower federal corporate income tax rate provided for by the TCJA. At December 31, 2019 and 2018, regulatory liability balances representing the benefit of the change in deferred taxes as a result of the TCJA of \$205.0 million and \$217.1 million, respectively, were recorded by NW Natural.

NW Natural's natural gas utility rates include an allowance to provide for the recovery of the anticipated provision for income taxes incurred as a result of providing regulated services. As a result of the 21 percent federal corporate income tax rate enacted in 2017, NW Natural recorded an additional regulatory liability in 2018 and 2019 reflecting the deferral of the estimated rate benefit for customers. The deferral period for Oregon ended on October 31, 2018 coincident with new rates beginning November 1, 2018. The deferral period for Washington ended on October 31, 2019 coincident with new rates beginning November 1, 2019. At December 31, 2019 and 2018, a regulatory liability of \$1.7 million and \$8.2 million, respectively, was recorded to reflect this estimated revenue deferral.

NW Holdings and NW Natural assess the available positive and negative evidence to estimate if sufficient taxable income will be generated to utilize their respective existing deferred tax assets. Based upon this assessment, NW Holdings and NW Natural determined that it is more likely than not that all of their respective deferred tax assets recorded as of December 31, 2019 will be realized.

The Company estimates it has net operating loss (NOL) carryforwards of \$0.4 million for federal taxes and \$0.4 million for Oregon taxes at December 31, 2019. We anticipate fully utilizing these NOL carryforward balances before they begin to expire in 2027 for federal and 2022 for Oregon. California alternative minimum tax (AMT) credits of \$0.1 million are also available. The AMT credits do not expire.

Uncertain tax positions are accounted for in accordance with accounting standards that require an assessment of the anticipated settlement outcome of material uncertain tax positions taken in a prior year, or planned to be taken in the current year. Until such positions are sustained, the uncertain tax benefits resulting from such positions would not be recognized. No reserves for uncertain tax positions were recorded as of December 31, 2019, 2018, or 2017.

The federal income tax returns for tax years 2015 and earlier are closed by statute. The IRS Compliance Assurance Process (CAP) examination of the 2016 and 2017 tax years have been completed. There were no material changes to these returns as filed. The 2018 and 2019 tax years are currently under IRS CAP examination. Our 2020 CAP application has been filed. Under the CAP program, NW Holdings and NW Natural work with the IRS to identify and resolve material tax matters before the tax return is filed each year.

As of December 31, 2019, income tax years 2015 through 2018 remain open for examination by the State of California. Income tax year 2018 is open for examination by the State of Idaho. The State of Oregon examined the Oregon corporate income tax returns for tax years 2015, 2016, and 2017. No material changes occurred as a result of this examination.

U.S. Federal TCJA Matters

On December 22, 2017, the TCJA was enacted and permanently lowered the U.S. federal corporate income tax rate to 21% from the previous maximum rate of 35%, effective for the tax year beginning January 1, 2018. The TCJA included specific provisions related to regulated public utilities that provide for the continued deductibility of interest expense and the elimination of bonus tax depreciation for property both acquired and placed into service on or after January 1, 2018.

Under pre-TCJA law, business interest was generally deductible in the determination of taxable income. The TCJA imposed a new limitation on the deductibility of net business interest expense in excess of approximately 30 percent of adjusted taxable income. Taxpayers operating in the trade or business of a regulated utility are excluded from these new interest expense limitations. Proposed U.S. Treasury Regulations were published in November of 2018 which provide a de minimis rule whereby if 90 percent or more of a taxpayer's adjusted asset basis is allocable to regulated utility activities, then all of the business interest expense of that taxpayer is deemed to be excepted business interest of the regulated utility activity and is thereby not limited under the TCJA. As a result of the de minimis rule, NW Holdings and NW Natural anticipate that business interest expense will not be limited under the TCJA.

The TCJA generally provides for immediate full expensing for qualified property both acquired and placed in service after September 27, 2017 and before January 1, 2023. This would generally provide for accelerated cost recovery for capital investments. However, the definition of qualified property excludes property used in the trade or business of a regulated utility. Final U.S. Treasury Regulations were published in September of 2019 which clarified that bonus tax depreciation would not be available for regulated utility activity assets both acquired and placed in service by NW Holdings or NW Natural on or after January 1, 2018. Proposed U.S. Treasury Regulations released in September of 2019 indicated that long production period property acquired before September 27, 2017 continues to qualify for bonus depreciation in the year placed in service consistent with pre-TCJA law.

The SEC staff previously issued Staff Accounting Bulletin 118, which provided guidance on accounting for the tax effects of the TCJA. SAB 118 provided a measurement period that should not extend beyond one year from the TCJA enactment date for companies to complete the accounting for the TCJA under ASC 740. To the extent that a company's accounting for certain income tax effects of the TCJA was incomplete but a reasonable estimate could be made, a company would record a provisional estimate in the financial statements. NW Natural previously disclosed that due to uncertainties with respect to the availability of bonus tax depreciation for regulated utility activity assets under the TCJA that the effects of bonus tax depreciation for assets placed in service after September 27, 2017 but before January 1, 2018 had not been recorded. The determination to exclude all assets placed in service after September 27, 2017 but before January 1, 2018 from bonus tax depreciation was provisional as provided for under SAB 118.

As a result of the Proposed Regulations on bonus tax depreciation published in August of 2018, NW Natural revised the provisional estimate of deferred taxes and income taxes payable to reflect the effects of bonus tax depreciation for assets placed in service after September 27, 2017 but before January 1, 2018. In the third quarter of 2018, NW Natural recognized increases to prepaid income tax of \$7.4 million, deferred income tax liability of \$4.1 million, and regulatory liability of \$3.3 million. In the fourth quarter of 2018, NW Natural recognized additional increases to prepaid income tax of \$0.5 million, deferred income tax liability of \$0.3 million, and regulatory liability of \$0.2 million. The accounting for income tax effects of the TCJA was complete at the end of calendar year 2018.

NW Natural previously filed applications with the OPUC and WUTC to defer the NGD net income tax benefits resulting from the TCJA. In March 2019, the OPUC issued an order addressing the regulatory amortization of the income tax benefits from the TCJA that NW Natural deferred for Oregon customers in December of 2017. Under the order, NW Natural will provide the benefit of these TCJA income tax deferrals to Oregon customers through ongoing annual credits to customer base rates and as a one-time recovery of a portion of the pension balancing account regulatory asset balance. On an annualized basis, it is anticipated that the income tax benefits from the provision of these TCJA benefits to customers should approximate the reduction to pretax income that occurs as a result of the customer base rate credits and one-time recovery of a portion of the pension balancing account.

In October 2019, the WUTC issued an order addressing the regulatory amortization of the income tax benefits from the TCJA that NW Natural deferred for Washington customers in December of 2017. Under the order, NW Natural will provide deferred income tax benefits from the TCJA to customers through base rate credits beginning November 1, 2019.

The following table sets forth the major classifications of property, plant, and equipment and accumulated depreciation of continuing operations at December 31:

In thousands	2019		2018
NW Natural:			
NGD plant in service	\$ 3,302,04	9 \$	3,134,122
NGD work in progress	84,96	5	204,978
Less: Accumulated depreciation	1,017,93	51	974,252
NGD plant, net	2,369,08	3	2,364,848
Other plant in service	63,5	3	66,009
Other construction work in progress	5,54	.8	5,330
Less: Accumulated depreciation	18,66	62	18,603
Other plant, net ⁽¹⁾	50,35	19	52,736
Total property, plant, and equipment	\$ 2,419,48	82 \$	2,417,584
Other (NW Holdings):			
Other plant in service	\$ 20,67	'1 \$	4,051
Less: Accumulated depreciation	1,2	4	263
Other plant, net ⁽¹⁾	19,4	7	3,788
NW Holdings:			
Total property, plant, and equipment	\$ 2,438,85	9 \$	2,421,372
NW Natural and NW Holdings:			
Capital expenditures in accrued liabilities	\$ 32,50)2 \$	23,676

⁽¹⁾ NW Natural previously reported other balances which were restated due to certain assets and liabilities now being classified as discontinued operations assets and liabilities in its balance sheets. See Note 19 for further discussion.

Accumulated depreciation does not include the accumulated provision for asset removal costs of \$401.9 million and \$380.5 million at December 31, 2019 and 2018, respectively. These accrued asset removal costs are reflected on the balance sheet as regulatory liabilities. See Note 2. During 2019 and 2018, no equipment was acquired under capital leases.

NW Holdings

Other plant balances include long-lived assets associated with water operations and non-regulated activities not held by NW Natural or its subsidiaries.

NW Natural

Other plant balances include long-lived assets not related to NGD and long-lived assets that may be used to support NGD operations.

The weighted average depreciation rate for NGD assets was 2.9% during 2019 and 2.8% during 2018, and 2017. The weighted average depreciation rate for assets not related to NGD was 1.8% in 2019, 2.2% in 2018, and 1.9% in 2017.

In October 2017, NW Natural entered into a 20-year lease agreement expected to commence in 2020 for its new corporate operations center location in Portland, Oregon. Under the new lease standard, NW Natural is no longer considered the accounting owner of the asset during construction. As such, the build to suit asset and liability balances at December 31, 2018 of \$26.0 million were derecognized in January 2019. The previous build to suit balances were recorded under ASC 840 within property, plant and equipment and other non-current liabilities in the consolidated balance sheet.

In May 2019, NW Natural placed its North Mist gas storage expansion facility into service and commenced storage services to the facility's single customer, PGE. Under U.S. GAAP, this agreement is classified as a sales-type lease and qualifies for regulatory accounting deferral treatment. Accordingly, the project was de-recognized from property, plant and equipment upon lease commencement and the investment balance is presented net of the current portion of scheduled billings within assets under sales-type leases on the consolidated balance sheets. A total of \$146.0 million was de-recognized from plant on the lease commencement date. The facility is included within rate base for ratemaking purposes. See Note 7 for information regarding leases, including North Mist.

13. GAS RESERVES

NW Natural has invested \$188 million through the gas reserves program in the Jonah Field located in Wyoming as of December 31, 2019. Gas reserves are stated at cost, net of regulatory amortization, with the associated deferred tax benefits recorded as liabilities in the consolidated balance sheets. The investment in gas reserves provides long-term price protection for NGD customers through the original agreement with Encana Oil & Gas (USA) Inc. under which NW Natural invested \$178 million and the amended agreement with Jonah Energy LLC under which an additional \$10 million was invested.

NW Natural entered into the original agreements with Encana in 2011 under which NW Natural holds working interests in certain sections of the Jonah Field. Gas produced in these sections is sold at prevailing market prices, and revenues from such sales, net of associated operating and production costs and amortization, are credited to the NGD cost of gas. The cost of gas, including a carrying cost for the rate base investment, is included in the annual Oregon PGA filing, which allows NW Natural to recover these costs through customer rates. The investment under the original agreement, less accumulated amortization and deferred taxes, earns a rate of return.

In March 2014, NW Natural amended the original gas reserves agreement in order to facilitate Encana's proposed sale of its interest in the Jonah field to Jonah Energy. Under the amendment, NW Natural ended the drilling program with Encana, but increased its working interests in its assigned sections of the Jonah field. NW Natural also retained the right to invest in new wells with Jonah Energy. Under the amended agreement there is still the option to invest in additional wells on a well-by-well basis with drilling costs and resulting gas volumes shared at NW Natural's amended proportionate working interest for each well in which it invests. NW Natural elected to participate in some of the additional wells drilled in 2014, but has not participated in additional wells since 2014. However, there may be the opportunity to participate in more wells in the future.

Gas produced from the additional wells is included in the Oregon PGA at a fixed rate of \$0.4725 per therm, which approximates the 10-year hedge rate plus financing costs at the inception of the investment.

Gas reserves acted to hedge the cost of gas for approximately 5%, 6%, and 6% of NGD gas supplies for the years ended December 31, 2019, 2018, and 2017 respectively.

The following table outlines NW Natural's net gas reserves investment at December 31:

In thousands	2019		
Gas reserves, current	\$ 15,278	\$	16,647
Gas reserves, non-current	172,029		170,660
Less: Accumulated amortization	123,635		104,463
Total gas reserves ⁽¹⁾	 63,672		82,844
Less: Deferred taxes on gas reserves	15,515		20,071
Net investment in gas reserves	\$ 48,157	\$	62,773

⁽¹⁾ The net investment in additional wells included in total gas reserves was \$3.8 million and \$4.8 million at December 31, 2019 and 2018, respectively.

NW Natural's investment is included in NW Holdings' and NW Natural's consolidated balance sheets under gas reserves with the maximum loss exposure limited to the investment balance.

14. INVESTMENTS

Investments include financial investments in life insurance policies, and equity method investments in certain partnerships and limited liability companies. The following table summarizes other investments at December 31:

	NW Holdings			NW Natural				
In thousands		2019		2018		2019		2018
Investments in life insurance policies	\$	49,837	\$	49,922	\$	49,837	\$	49,922
Investments in gas pipeline		13,472		13,571		_		_
Other		24		65		_		_
Total other investments	\$	63,333	\$	63,558	\$	49,837	\$	49,922

Investment in Life Insurance Policies

NW Natural has invested in key person life insurance contracts to provide an indirect funding vehicle for certain long-term employee and director benefit plan liabilities. The amount in the above table is reported at cash surrender value, net of policy loans.

Investments in Gas Pipeline

Trail West Pipeline, LLC (TWP), a wholly-owned subsidiary of TWH, is pursuing the development of a new gas transmission pipeline that would provide an interconnection with NW Natural's NGD system. NWN Energy, a wholly-owned subsidiary of NW Holdings, owns 50% of TWH, and 50% is owned by TransCanada American Investments Ltd., an indirect wholly-owned subsidiary of TransCanada Corporation.

Variable Interest Entity (VIE) Analysis

TWH is a VIE, with NW Holdings' investment in TWP reported under equity method accounting. It has been determined that NW Holdings is not the primary beneficiary of TWH's activities as it only has a 50% share of the entity, and there are no stipulations that allow NW Holdings a disproportionate influence over it. Investments in TWH and TWP are included in other investments on NW Holdings' balance sheet. If this investment is not developed, then the maximum loss exposure related to TWH is limited to NW Holdings' equity investment balance, less its share of any cash or other assets available to NW Holdings as a 50% owner. The investment balance in TWH was \$13.4 million at December 31, 2019 and 2018.

Impairment Analysis

Investments in nonconsolidated entities accounted for under the equity method are reviewed for impairment at each reporting period and following updates to our corporate planning assumptions. If it is determined a loss in value is other than temporary, a charge is recognized for the difference between the investment's carrying value and its estimated fair value. Fair value is based on quoted market prices when available or on the present value of expected future cash flows. Differing assumptions could affect the timing and amount of a charge recorded in any period.

In 2011, TWP withdrew its original application with the FERC for a proposed natural gas pipeline in Oregon and informed FERC that it intended to re-file an application to reflect changes in the project scope aligning the project with the region's current and future gas infrastructure needs. TWP continues working with customers in the Pacific Northwest to further understand their gas transportation needs and determine the commercial support for a revised pipeline proposal. A new FERC certificate application is expected to be filed to reflect a revised scope based on these regional needs.

NW Holdings' equity investment was not impaired at December 31, 2019 as the fair value of expected cash flows from planned development exceeded NW Holdings' remaining equity investment of \$13.4 million at December 31, 2019. However, if NW Holdings learns that the project is not viable or will not go forward, it could be required to recognize a maximum charge of up to approximately \$13.4 million based on the current amount of the equity investment, net of cash and working capital at TWP. NW Holdings will continue to monitor and update the impairment analysis as required.

15. BUSINESS COMBINATIONS

2019 Business Combinations

Sunriver

On May 31, 2019, NWN Water of Oregon, a wholly-owned indirect subsidiary of NW Holdings, completed the acquisition of Sunriver Water and Sunriver Environmental (collectively referred to as Sunriver), a privately-owned water utility and wastewater treatment company located in Sunriver, Oregon that serves approximately 9,400 connections. The acquisition-date fair value of the total consideration transferred, after closing adjustments, was approximately \$55.0 million in cash consideration. The transaction aligns with NW Holdings' water sector strategy as it continues to expand its water utility service territory in the Pacific Northwest and begins to pursue wastewater investment opportunities.

The Sunriver acquisition met the criteria of a business combination, and as such a preliminary allocation of the consideration to the acquired assets based on their estimated fair value as of the acquisition date was performed. In accordance with U.S. GAAP, the fair value determination was made using existing regulatory conditions for assets associated with Sunriver Water, LLC as well as existing market conditions and standard valuation approaches for assets associated with Sunriver Environmental, LLC in order to allocate value as determined by an independent third party assessor for certain assets, which involved the use of management judgment in determining the significant estimates and assumptions used by the assessor, with the remaining difference from the consideration transferred being recorded as goodwill. This allocation is considered preliminary as of December 31, 2019, as facts and circumstances that existed as of the acquisition date may be discovered as we continue to integrate Sunriver. As a result, subsequent adjustments to the preliminary valuation of tangible assets, contract assets and liabilities, tax positions, and goodwill may be required. Subsequent adjustments are not expected to be significant, and any such adjustments are expected to be completed within the one-year measurement period. The acquisition costs were expensed as incurred.

Preliminary goodwill of \$40.1 million was recognized from this acquisition. The goodwill recognized is attributable to Sunriver's regulated water utility service territory, experienced workforce, and the strategic benefits for both the water utility and wastewater services expected from growth in its service territory. No intangible assets aside from goodwill were acquired. The total amount of goodwill that is expected to be deductible for income tax purposes is approximately \$50.2 million.

The preliminary purchase price for the acquisition has been allocated to the net assets acquired as of the acquisition date and is as follows:

In thousands	December 31, 2019
Current assets	\$ 221
Property, plant and equipment	13,819
Goodwill	40,118
Deferred tax assets	812
Current liabilities	(22)
Total net assets acquired	\$ 54,948

The amount of Sunriver revenues included in NW Holdings' consolidated statements of comprehensive income is \$3.7 million for the year ended December 31, 2019. Earnings from Sunriver activities for the year ended December 31, 2019 were not material to the results of NW Holdings.

Other Acquisitions

During the year ended December 31, 2019, NWN Water completed three additional acquisitions qualifying as business combinations. The aggregate fair value of the preliminary consideration transferred for these acquisitions was approximately \$2.0 million. These business combinations were not significant to NW Holdings' results of operations.

2018 Business Combinations

Falls Water

On September 13, 2018, NWN Water, then a wholly-owned subsidiary of NW Natural and now a wholly-owned subsidiary of NW Holdings, completed the acquisition of Falls Water, a privately-owned water utility in the Pacific Northwest for non-cash consideration of \$8.5 million, in the form of 125,000 shares of NW Natural common stock, which were converted to NW Holdings common stock in our October 1, 2018 reorganization. Falls Water became a wholly-owned subsidiary of NWN Water and marked its first acquisition in the water utility sector. This acquisition aligns with NW Holdings' water sector strategy as the acquisition provides NWN Water entry into Idaho, expands service area, and opens further opportunity for growth. Falls Water is based in Idaho Falls, Idaho and served approximately 5,300 connections at the time of acquisition.

Through the purchase of all of the outstanding shares of Falls Water, NWN Water acquired the net assets and 100% control of Falls Water. We determined that the Falls Water acquisition met the criteria of a business combination, and as such performed an allocation of the consideration to the acquired assets and assumed liabilities based on their fair value as of the acquisition date, the majority of which was allocated to goodwill. The acquisition costs were insignificant and were expensed as incurred. The results of Falls Water are not material to the consolidated financial results of NW Holdings.

Goodwill of \$6.2 million was recognized from this acquisition and is attributable to Falls Water's regulated service territory and experienced workforce as well as the strategic benefits expected from this high-growth service territory. NW Holdings has included this goodwill in other for segment reporting purposes, and it is not deductible for income tax purposes. No intangible assets aside from goodwill were acquired. See Note 2 for goodwill impairment information.

Other Acquisitions

During 2018, in addition to the Falls Water acquisition, NWN Water completed three acquisitions qualifying as business combinations. The aggregate fair value of the consideration transferred for these acquisitions was approximately \$2.8 million. These business combinations, both individually and in aggregate, were not significant to NW Holdings' results of operations.

As a result of all acquisitions completed, total goodwill was \$49.9 million and \$9.0 million as of December 31, 2019 and 2018, respectively. The increase in the goodwill balance was due to additions associated with our acquisitions in the water sector. All of our goodwill is related to water and wastewater acquisitions and is included in the other category for segment reporting purposes. The annual impairment assessment of goodwill occurs in the fourth quarter of each year. There have been no impairments recognized to date.

16. DERIVATIVE INSTRUMENTS

NW Natural enters into financial derivative contracts to hedge a portion of the NGD segment's natural gas sales requirements. These contracts include swaps, options, and combinations of option contracts. These derivative financial instruments are primarily used to manage commodity price variability. A small portion of NW Natural's derivative hedging strategy involves foreign currency exchange contracts.

NW Natural enters into these financial derivatives, up to prescribed limits, primarily to hedge price variability related to physical gas supply contracts as well as to hedge spot purchases of natural gas. The foreign currency forward contracts are used to hedge the fluctuation in foreign currency exchange rates for pipeline demand charges paid in Canadian dollars.

In the normal course of business, NW Natural also enters into indexed-price physical forward natural gas commodity purchase contracts and options to meet the requirements of NGD customers. These contracts qualify for regulatory deferral accounting treatment.

NW Natural also enters into exchange contracts related to the third-party asset management of its gas portfolio, some of which are derivatives that do not qualify for hedge accounting or regulatory deferral, but are subject to NW Natural's regulatory sharing agreement. These derivatives are recognized in operating revenues, net of amounts shared with NGD customers.

Notional Amounts

The following table presents the absolute notional amounts related to open positions on NW Natural derivative instruments:

	At December 31,					
In thousands		2019		2018		
Natural gas (in therms):						
Financial		651,540		408,850		
Physical		512,849		472,275		
Foreign exchange	\$	6,650	\$	6,936		

Purchased Gas Adjustment (PGA)

Derivatives entered into by NW Natural for the procurement or hedging of natural gas for future gas years generally receive regulatory deferral accounting treatment. In general, commodity hedging for the current gas year is completed prior to the start of the gas year, and hedge prices are reflected in the weighted-average cost of gas in the PGA filing. Rates and hedging approaches may vary between states due to different rate structures and mechanisms. In addition, as required with the Washington PGA filing, NW Natural incorporated and began implementing risk-responsive hedging strategies for the 2019-20 PGA for its Washington gas supplies. Hedge contracts entered into after the start of the PGA period are subject to the PGA incentive sharing mechanism in Oregon. NW Natural entered the 2019-20 and 2018-19 gas years with forecasted sales volumes hedged at 52% and 48% in financial swap and option contracts, and 19% and 24% in physical gas supplies, respectively. Hedge contracts entered into after the PGA for the 2019-20 gas year. Hedge contracts entered into after the PGA for the 2019-20 gas year. Hedge contracts entered into after the PGA for the 2019-20 gas year. Hedge contracts entered into after the PGA for the 2019-20 gas year. Hedge contracts entered into after the PGA filing, and related to subsequent gas years, may be included in future PGA filings and qualify for regulatory deferral.

Unrealized and Realized Gain/Loss

The following table reflects the income statement presentation for the unrealized gains and losses from NW Natural's derivative instruments, which also represents all derivative instruments at NW Holdings:

	December 31, 2019				December 31, 2018			
In thousands		tural gas mmodity		⁻ oreign change		tural gas mmodity		oreign change
Benefit (expense) to cost of gas	\$	9,863	\$	102	\$	(1,239)	\$	(284)
Operating revenues (expense)		(568)		—		1,660		—
Amounts deferred to regulatory accounts on balance sheet		(9,376)		(102)		(211)		284
Total gain (loss) in pre-tax earnings	\$	(81)	\$	_	\$	210	\$	_

Unrealized Gain/Loss

Outstanding derivative instruments related to regulated NGD operations are deferred in accordance with regulatory accounting standards. The cost of foreign currency forward and natural gas derivative contracts are recognized immediately in the cost of gas; however, costs above or below the amount embedded in the current year PGA are subject to a regulatory deferral tariff and therefore, are recorded as a regulatory asset or liability.

Realized Gain/Loss

NW Natural realized net gains of \$17.9 million and net gains of \$7.4 million for the years ended December 31, 2019 and 2018, respectively, from the settlement of natural gas financial derivative contracts. Realized gains and losses offset the higher or lower cost of gas purchased, resulting in no incremental amounts to collect or refund to customers.

Credit Risk Management of Financial Derivatives Instruments

No collateral was posted with or by NW Natural counterparties as of December 31, 2019 or 2018. NW Natural attempts to minimize the potential exposure to collateral calls by diversifying counterparties to manage liquidity risk. Counterparties generally allow a certain credit limit threshold before requiring NW Natural to post collateral against loss positions. Given NW Natural's counterparty credit limits and portfolio diversification, it was not subject to collateral calls in 2019 or 2018. The collateral call exposure is set forth under credit support agreements, which generally contain credit limits. NW Natural could also be subject to collateral call exposure where it has agreed to provide adequate assurance, which is not specific as to the amount of credit limit allowed, but could potentially require additional collateral in the event of a material adverse change.

Based upon current commodity financial swap and option contracts outstanding, which reflect unrealized gains of \$5.6 million at December 31, 2019, we have estimated the level of collateral demands, with and without potential adequate assurance calls, using current gas prices and various credit downgrade rating scenarios for NW Natural as follows:

			Credit Rating Downgrade Scenarios					
In thousands	(Cur Rating A	s) A+/	3BB+/Baa1	BBB/Baa2	BBB-/Baa3	Speculative		
With Adequate Assurance Calls	\$	— \$	_	\$ —	\$ —	\$ (66)		
Without Adequate Assurance Calls		_	_	_	_	(66)		

NW Natural's financial derivative instruments are subject to master netting arrangements; however, they are presented on a gross basis in the consolidated balance sheets. NW Natural and its counterparties have the ability to set-off obligations to each other under specified circumstances. Such circumstances may include a defaulting party, a credit change due to a merger affecting either party, or any other termination event.

If netted by counterparty, NW Natural's physical and financial derivative position would result in an asset of \$9.4 million and a liability of \$1.9 million as of December 31, 2019, and an asset of \$3.6 million and a liability of \$9.3 million as of December 31, 2018.

NW Natural is exposed to derivative credit and liquidity risk primarily through securing fixed price natural gas commodity swaps with financial counterparties. NW Natural utilizes master netting arrangements through International Swaps and Derivatives Association contracts to minimize this risk along with collateral support agreements with counterparties based on their credit ratings. In certain cases, NW Natural requires guarantees or letters of credit from counterparties to meet its minimum credit requirement standards.

NW Natural's financial derivatives policy requires counterparties to have an investment-grade credit rating at the time the derivative instrument is entered into, and specifies limits on the contract amount and duration based on each counterparty's credit rating. NW Natural does not speculate with derivatives. Derivatives are used to hedge exposure above risk tolerance limits. Increases in market risk created by the use of derivatives is offset by the exposures they modify.

We actively monitor NW Natural's derivative credit exposure and place counterparties on hold for trading purposes or require other forms of credit assurance, such as letters of credit, cash collateral, or guarantees as circumstances warrant. The ongoing assessment of counterparty credit risk includes consideration of credit ratings, credit default swap spreads, bond market credit spreads, financial condition, government actions, and market news. A Monte Carlo simulation model is used to estimate the change in credit and liquidity risk from the volatility of natural gas prices. The results of the model are used to establish trading limits. NW Natural's outstanding financial derivatives at December 31, 2019 mature by October 31, 2022.

We could become materially exposed to credit risk with one or more of our counterparties if natural gas prices experience a significant increase. If a counterparty were to become insolvent or fail to perform on its obligations, we could suffer a material loss; however, we would expect such a loss to be eligible for regulatory deferral and rate recovery, subject to a prudence review. All of our existing counterparties currently have investment-grade credit ratings.

Fair Value

In accordance with fair value accounting, NW natural includes non-performance risk in calculating fair value adjustments. This includes a credit risk adjustment based on the credit spreads of NW Natural counterparties when in an unrealized gain position, or on NW Natural's own credit spread when it is in an unrealized loss position. The inputs in our valuation models include natural gas futures, volatility, credit default swap spreads, and interest rates. Additionally, the assessment of non-performance risk is generally derived from the credit default swap market and from bond market credit spreads. The impact of the credit risk adjustments for all outstanding derivatives was immaterial to the fair value calculation at December 31, 2019. As of Page 122 A

December 31, 2019 and 2018, the net fair value was an asset of \$7.5 million and a liability of \$5.7 million, respectively, using significant other observable, or Level 2, inputs. No Level 3 inputs were used in our derivative valuations, and there were no transfers between Level 1 or Level 2 during the years ended December 31, 2019 and 2018.

17. COMMITMENTS AND CONTINGENCIES

Gas Purchase and Pipeline Capacity Purchase and Release Commitments

NW Natural has signed agreements providing for the reservation of firm pipeline capacity under which it is required to make fixed monthly payments for contracted capacity. The pricing component of the monthly payment is established, subject to change, by U.S. or Canadian regulatory bodies, or is established directly with private counterparties, as applicable. In addition, NW Natural has entered into long-term agreements to release firm pipeline capacity. NW Natural also enters into short-term and long-term gas purchase agreements.

The aggregate amounts of these agreements were as follows at December 31, 2019:

In thousands	PipelineGasCapacityPurchasePurchaseAgreementsAgreements		Gas Capacity Capa chase Purchase Rele		Pipeline Capacity Release reements
2020	\$ 86,175	\$	76,897	\$	4,201
2021	2,899		70,638		3,904
2022	_		68,943		3,904
2023	_		68,563		3,904
2024	—		67,052		3,904
Thereafter			527,148		3,253
Total	89,074		879,241		23,070
Less: Amount representing interest	481		147,613		840
Total at present value	\$ 88,593	\$	731,628	\$	22,230

Total fixed charges under capacity purchase agreements were \$82.2 million for 2019, \$82.6 million for 2018, and \$85.3 million for 2017, of which \$4.3 million, \$4.3 million, and \$4.5 million, respectively, related to capacity releases. In addition, per-unit charges are required to be paid based on the actual quantities shipped under the agreements. In certain take-or-pay purchase commitments, annual deficiencies may be offset by prepayments subject to recovery over a longer term if future purchases exceed the minimum annual requirements.

Leases

Refer to Note 7 for a discussion of lease commitments and contingencies.

Environmental Matters

Refer to Note 18 for a discussion of environmental commitments and contingencies.

18. ENVIRONMENTAL MATTERS

NW Natural owns, or previously owned, properties that may require environmental remediation or action. The range of loss for environmental liabilities is estimated based on current remediation technology, enacted laws and regulations, industry experience gained at similar sites, and an assessment of the probable level of involvement and financial condition of other potentially responsible parties (PRPs). When amounts are prudently expended related to site remediation of those sites described herein, NW Natural has recovery mechanisms in place to collect 96.68% of remediation costs allocable to Oregon customers and 3.32% of costs allocable to Washington customers.

These sites are subject to the remediation process prescribed by the Environmental Protection Agency (EPA) and the Oregon Department of Environmental Quality (ODEQ). The process begins with a remedial investigation (RI) to determine the nature and extent of contamination and then a risk assessment (RA) to establish whether the contamination at the site poses unacceptable risks to humans and the environment. Next, a feasibility study (FS) or an engineering evaluation/cost analysis (EE/CA) evaluates various remedial alternatives. It is at this point in the process when NW Natural is able to estimate a range of remediation costs and record a reasonable potential remediation liability, or make an adjustment to the existing liability. From this study, the regulatory agency selects a remedy and issues a Record of Decision (ROD). After a ROD is issued, NW Natural would seek to negotiate a consent decree or consent judgment for designing and implementing the remedy. NW Natural would have the ability to further refine estimates of remediation liabilities at that time.

Remediation may include treatment of contaminated media such as sediment, soil and groundwater, removal and disposal of media, institutional controls such as legal restrictions on future property use, or natural recovery. Following construction of the remedy, the EPA and ODEQ also have requirements for ongoing maintenance, monitoring and other post-remediation care that may continue for many years. Where appropriate and reasonably known, NW Natural will provide for these costs in the remediation liabilities described below.

Due to the numerous uncertainties surrounding the course of environmental remediation and the preliminary nature of several site investigations, in some cases, NW Natural may not be able to reasonably estimate the high end of the range of possible loss. In those cases, the nature of the possible loss has been disclosed, as has the fact that the high end of the range cannot be reasonably estimated where a range of potential loss is available. Unless there is an estimate within the range of possible losses that is more likely than other cost estimates within that range, NW Natural records the liability at the low end of this range. It is likely changes in these estimates and ranges will occur throughout the remediation process for each of these sites due to the continued evaluation and clarification concerning responsibility, the complexity of environmental laws and regulations and the determination by regulators of remediation alternatives. In addition to remediation costs, NW Natural could also be subject to Natural Resource Damages (NRD) claims. NW Natural will assess the likelihood and probability of each claim and recognize a liability if deemed appropriate. Refer to "*Other Portland Harbor*" below.

Environmental Sites

The following table summarizes information regarding liabilities related to environmental sites, which are recorded in other current liabilities and other noncurrent liabilities in NW Natural's balance sheet at December 31:

	Current Liabilities				Non-Current Liabilitie			
In thousands	 2019		2018		2019		2018	
Portland Harbor site:								
Gasco/Siltronic Sediments	\$ 11,632	\$	5,117	\$	46,082	\$	44,351	
Other Portland Harbor	2,543		2,600		6,920		6,273	
Gasco/Siltronic Upland site	14,203		13,983		43,616		44,830	
Central Service Center site	_		10		_		_	
Front Street site	10,847		11,402		_		3	
Oregon Steel Mills	_		_		179		179	
Total	\$ 39,225	\$	33,112	\$	96,797	\$	95,636	
-	\$ 39,225	\$		\$	-	\$	-	

Portland Harbor Site

The Portland Harbor is an EPA listed Superfund site that is approximately 10 miles long on the Willamette River and is adjacent to NW Natural's Gasco uplands site. NW Natural is one of over one hundred PRPs to the Superfund site. In January 2017, the EPA issued its Record of Decision, which selects the remedy for the clean-up of the Portland Harbor site (Portland Harbor ROD). The Portland Harbor ROD estimates the present value total cost at approximately \$1.05 billion with an accuracy between -30% and +50% of actual costs.

NW Natural's potential liability is a portion of the costs of the remedy for the entire Portland Harbor Superfund site. The cost of that remedy is expected to be allocated among more than one hundred PRPs. NW Natural is participating in a non-binding allocation process with the other PRPs in an effort to resolve its potential liability. The Portland Harbor ROD does not provide any additional clarification around allocation of costs among PRPs; accordingly, NW Natural has not modified any of the recorded liabilities at this time as a result of the issuance of the Portland Harbor ROD.

NW Natural manages its liability related to the Superfund site as two distinct remediation projects, the Gasco/Siltronic Sediments and Other Portland Harbor projects.

Gasco/Siltronic Sediments. In 2009, NW Natural and Siltronic Corporation entered into a separate Administrative Order on Consent with the EPA to evaluate and design specific remedies for sediments adjacent to the Gasco uplands and Siltronic uplands sites. NW Natural submitted a draft EE/CA to the EPA in May 2012 to provide the estimated cost of potential remedial alternatives for this site. In February 2020, NW Natural and the EPA reached an agreement to amend the Administrative Order on Consent to include additional remedial design activities for sediment investigation costs adjacent to the Gasco uplands. At this time, the estimated costs for the various sediment remedy alternatives in the draft EE/CA for the additional studies and design work needed before the cleanup can occur, and for regulatory oversight throughout the cleanup range from \$57.7 million to \$350 million. NW Natural has recorded a liability of \$57.7 million for the sediment clean-up, which reflects the low end of the range. At this time, we believe sediments at this site represent the largest portion of NW Natural's liability related to the Portland Harbor site discussed above.

Other Portland Harbor. While we believe liabilities associated with the Gasco/Siltronic sediments site represent NW Natural's largest exposure, there are other potential exposures associated with the Portland Harbor ROD, including NRD costs and harborwide remedial design and cleanup costs (including downstream petroleum contamination), for which allocations among the PRPs have not yet been determined.

NW Natural and other parties have signed a cooperative agreement with the Portland Harbor Natural Resource Trustee council to participate in a phased NRD assessment to estimate liabilities to support an early restoration-based settlement of NRD claims. One member of this Trustee council, the Yakama Nation, withdrew from the council in 2009, and in 2017, filed suit against NW Natural and 29 other parties seeking remedial costs and NRD assessment costs associated with the Portland Harbor site, set forth in the complaint. The complaint seeks recovery of alleged costs totaling \$0.3 million in connection with the selection of a remedial action for the Portland Harbor site as well as declaratory judgment for unspecified future remedial action costs and for costs to assess the injury, loss or destruction of natural resources resulting from the release of hazardous substances at and from the Portland Harbor site. The Yakama Nation has filed two amended complaints addressing certain pleading defects and dismissing the State of Oregon. On the motion of NW Natural and certain other defendants the federal court has stayed the case pending the outcome of the non-binding allocation proceeding discussed above. NW Natural has recorded a liability for NRD claims which is at the low end of the range of the potential liability; the high end of the range cannot be reasonably estimated at this time. The NRD liability is not included in the aforementioned range of costs provided in the Portland Harbor ROD.

Gasco Uplands Site

A predecessor of NW Natural, Portland Gas and Coke Company, owned a former gas manufacturing plant that was closed in 1958 (Gasco site) and is adjacent to the Portland Harbor site described above. The Gasco site has been under investigation by NW Natural for environmental contamination under the ODEQ Voluntary Cleanup Program (VCP). It is not included in the range of remedial costs for the Portland Harbor site noted above. The Gasco site is managed in two parts, the uplands portion and the groundwater source control action.

NW Natural submitted a revised Remedial Investigation Report for the uplands to ODEQ in May 2007. In March 2015, ODEQ approved Remedial Assessment (RA) for this site, enabling commencement of work on the FS in 2016. NW Natural has recognized a liability for the remediation of the uplands portion of the site which is at the low end of the range of potential liability; the high end of the range cannot be reasonably estimated at this time.

In October 2016, ODEQ and NW Natural agreed to amend their VCP agreement to incorporate a portion of the Siltronic property adjacent to the Gasco site formerly owned by Portland Gas & Coke between 1939 and 1960 into the Gasco RA and FS, excluding the uplands for Siltronic. Previously, NW Natural was conducting an investigation of manufactured gas plant constituents on the entire Siltronic uplands for ODEQ. Siltronic will be working with ODEQ directly on environmental impacts to the remainder of its property.

In September 2013, NW Natural completed construction of a groundwater source control system, including a water treatment station, at the Gasco site. NW Natural has estimated the cost associated with the ongoing operation of the system and has recognized a liability which is at the low end of the range of potential cost. NW Natural cannot estimate the high end of the range at this time due to the uncertainty associated with the duration of running the water treatment station, which is highly dependent on the remedy determined for both the upland portion as well as the final remedy for Gasco sediment exposure.

Other Sites

In addition to those sites above, NW Natural has environmental exposures at three other sites: Central Service Center, Front Street and Oregon Steel Mills. NW Natural may have exposure at other sites that have not been identified at this time. Due to the uncertainty of the design of remediation, regulation, timing of the remediation and in the case of the Oregon Steel Mills site, pending litigation, liabilities for each of these sites have been recognized at their respective low end of the range of potential liability; the high end of the range could not be reasonably estimated at this time.

Central Service Center site. The investigative phase to characterize the existing site has been completed and determined by the Oregon Department of Environmental Quality (DEQ) to be sufficient to allow for the issuance of a Conditional No Further Action (cNFA). The Company is now conducting ongoing environmental monitoring activities over the next 5 years in order to meet the conditions which were included within the cNFA.

Front Street site. The Front Street site was the former location of a gas manufacturing plant NW Natural operated (the former Portland Gas Manufacturing site, or PGM). At ODEQ's request, NW Natural conducted a sediment and source control investigation and provided findings to ODEQ. In December 2015, an FS on the former Portland Gas Manufacturing site was completed.

In July 2017, ODEQ issued the PGM ROD. The ROD specifies the selected remedy, which requires a combination of dredging, capping, treatment, and natural recovery. In addition, the selected remedy also requires institutional controls and long-term inspection and maintenance. NW Natural revised the liability in the second quarter of 2017 to incorporate the estimated undiscounted cost of approximately \$10.5 million for the selected remedy. Further, NW Natural has recognized an additional

liability of \$0.3 million for additional studies and design costs as well as regulatory oversight throughout the cleanup. NW Natural plans to construct the remedy in 2020.

Oregon Steel Mills site. Refer to the "Legal Proceedings," below.

Environmental Cost Deferral and Recovery

NW Natural has authorizations in Oregon and Washington to defer costs related to remediation of properties that are owned or were previously owned by NW Natural. In Oregon, a Site Remediation and Recovery Mechanism (SRRM) is currently in place to recover prudently incurred costs allocable to Oregon customers, subject to an earnings test. On October 21, 2019 the WUTC authorized an Environmental Cost Recovery Mechanism (ECRM) for recovery of prudently incurred costs allocable to Washington customers beginning November 1, 2019.

The following table presents information regarding the total regulatory assets deferred as of December 31:

In thousands	2019	2018		
Deferred costs and interest ⁽¹⁾	\$ 36,673 \$	41,883		
Accrued site liabilities ⁽²⁾	135,662	128,369		
Insurance proceeds and interest	(79,949)	(88,502)		
Total regulatory asset deferral ⁽¹⁾	\$ 92,386 \$	81,750		
Current regulatory assets ⁽³⁾	4,762	5,601		
Long-term regulatory assets ⁽³⁾	87,624	76,149		

(1) Includes pre-review and post-review deferred costs, amounts currently in amortization, and interest, net of amounts collected from customers. In Oregon, NW Natural earns a carrying charge on cash amounts paid, whereas amounts accrued but not yet paid do not earn a carrying charge until expended. NW Natural also accrues a carrying charge on insurance proceeds for amounts owed to customers. In Washington, neither the cash paid nor insurance proceeds accrue a carrying charge.

(2) Excludes 3.32% of the Front Street site liability, or \$0.4 million in 2019 and \$0.4 million in 2018, as the OPUC only allows recovery of 96.68% of costs for those sites allocable to Oregon, including those that historically served only Oregon customers.

(3) Amounts included in this estimate are still subject to a prudence review by the OPUC and WUTC, and earnings test review by the OPUC. Amounts do not include the \$5.0 million tariff rider. See "Oregon SRRM" below.

Oregon SRRM

COLLECTIONS FROM OREGON CUSTOMERS. Under the SRRM collection process there are three types of deferred environmental remediation expense:

- Pre-review This class of costs represents remediation spend that has not yet been deemed prudent by the OPUC. Carrying costs on these remediation expenses are recorded at NW Natural's authorized cost of capital. NW Natural anticipates the prudence review for annual costs and approval of the earnings test prescribed by the OPUC to occur by the third quarter of the following year.
- Post-review This class of costs represents remediation spend that has been deemed prudent and allowed after applying the earnings test, but is not yet included in amortization. NW Natural earns a carrying cost on these amounts at a rate equal to the five-year treasury rate plus 100 basis points.
- Amortization This class of costs represents amounts included in current customer rates for collection and is generally
 calculated as one-fifth of the post-review deferred balance. NW Natural earns a carrying cost equal to the amortization rate
 determined annually by the OPUC, which approximates a short-term borrowing rate.

In addition to the collection amount noted above, an order issued by the OPUC provides for the annual collection of \$5.0 million from Oregon customers through a tariff rider. As NW Natural collects amounts from customers, it recognizes these collections as revenue and separately amortizes an equal and offsetting amount of its deferred regulatory asset balance through the environmental remediation operating expense line shown separately in the operating expense section of the income statement.

NW Natural received total environmental insurance proceeds of approximately \$150 million as a result of settlements from litigation that was dismissed in July 2014. Under a 2015 OPUC order which established the SRRM, one-third of the Oregon allocated proceeds were applied to costs deferred through 2012 with the remaining two-thirds applied to costs at a rate of \$5.0 million per year plus interest over the following 20 years. NW Natural accrues interest on the Oregon allocated insurance proceeds in the customer's favor at a rate equal to the five-year treasury rate plus 100 basis points. As of December 31, 2019, NW Natural has applied \$78.2 million of insurance proceeds to prudently incurred remediation costs allocated to Oregon.

OREGON ENVIRONMENTAL EARNINGS TEST. To the extent NW Natural earns at or below its authorized Return on Equity (ROE), remediation expenses and interest in excess of the \$5.0 million tariff rider and \$5.0 million insurance proceeds are recoverable through the SRRM. To the extent NW Natural earns more than its authorized ROE in a year, it is required to cover environmental expenses and interest on expenses greater than the \$10.0 million with those earnings that exceed its authorized ROE.

Washington ECRM

WASHINGTON DEFERRAL. On October 21, 2019 the WUTC issued an order (WUTC Order) establishing the ECRM which allows for recovery of past deferred and future prudently incurred environmental remediation costs allocable to Washington customers through application of insurance proceeds and collections from customers. Environmental remediation expenses relating to sites that previously served both Oregon and Washington customers are allocated between states with Washington customers receiving 3.32% percent of the costs and insurance proceeds.

As a result of the WUTC Order, in the fourth quarter of 2019 approximately \$3.0 million of prudently incurred costs deferred from the initial deferral authorization in February 2011 through November 2018 were fully offset with insurance proceeds. In addition, approximately \$1.5 million of disallowed deferred environmental remediation expenses incurred prior to the deferral authorization were charged to environmental remediation expense.

Insurance proceeds will be fully applied to costs incurred between December 2018 and June 2019 once deemed prudent in future rate proceedings. Remaining insurance proceeds will be amortized over a 10.5 year period ending December 31, 2029. On an annual basis, NW Natural will file for a prudence determination and a request to amortize costs to the extent that remediation expenses exceed the insurance amortization. After insurance proceeds are fully amortized, if in a particular year the request to collect deferred amounts exceeds one percent of Washington normalized revenues, then the excess will be collected over three years with interest.

Legal Proceedings

NW Holdings is not currently party to any direct claims or litigation, though in the future it may be subject to claims and litigation arising in the ordinary course of business.

NW Natural is subject to claims and litigation arising in the ordinary course of business. Although the final outcome of any of these legal proceedings cannot be predicted with certainty, including the matter described below, NW Natural and NW Holdings do not expect that the ultimate disposition of any of these matters will have a material effect on financial condition, results of operations, or cash flows.

OREGON STEEL MILLS SITE. In 2004, NW Natural was served with a third-party complaint by the Port of Portland (the Port) in a Multnomah County Circuit Court case, Oregon Steel Mills, Inc. v. The Port of Portland. The Port alleges that in the 1940s and 1950s petroleum wastes generated by NW Natural's predecessor, Portland Gas & Coke Company, and 10 other third-party defendants, were disposed of in a waste oil disposal facility operated by the United States or Shaver Transportation Company on property then owned by the Port and now owned by Evraz Oregon Steel Mills. The complaint seeks contribution for unspecified past remedial action costs incurred by the Port regarding the former waste oil disposal facility as well as a declaratory judgment allocating liability for future remedial action costs. No date has been set for trial. In August 2017, the case was stayed pending the outcome of the Portland Harbor allocation process or other mediation. Although the final outcome of this proceeding cannot be predicted with certainty, NW Natural and NW Holdings do not expect the ultimate disposition of this matter will have a material effect on NW Natural's or NW Holdings' financial condition, results of operations, or cash flows.

For additional information regarding other commitments and contingencies, see Note 17.

19. DISCONTINUED OPERATIONS

NW Holdings

On June 20, 2018, NWN Gas Storage, then a wholly-owned subsidiary of NW Natural, entered into a Purchase and Sale Agreement (the Agreement) that provides for the sale by NWN Gas Storage of all of the membership interests in Gill Ranch. Gill Ranch owns a 75% interest in the natural gas storage facility located near Fresno, California known as the Gill Ranch Gas Storage Facility. Pacific Gas and Electric Company (PG&E) owns the remaining 25% interest in the Gill Ranch Gas Storage Facility. The CPUC regulates Gill Ranch under a market-based rate model which allows for the price of storage services to be set by the marketplace. The CPUC also regulates the issuance of securities, system of accounts, and regulates intrastate storage services. The sale of Gill Ranch was approved by the CPUC in December 2019.

The Agreement provides for an initial cash purchase price of \$25.0 million (subject to a working capital adjustment), plus potential additional payments to NWN Gas Storage of up to \$26.5 million in the aggregate if Gill Ranch achieves certain economic performance levels for the first three full gas storage years (April 1 of one year through March 31 of the following year) occurring after the closing and the remaining portion of the gas storage year during which the closing occurs.

As a result of the strategic shift away from the California gas storage market and the significance of Gill Ranch's financial results in 2017, we concluded that the pending sale of Gill Ranch qualified it as assets and liabilities held for sale and discontinued operations. As such, the assets and liabilities associated with Gill Ranch have been classified as discontinued operations assets and discontinued operations liabilities, respectively, and, the results of Gill Ranch are presented, net of tax, as discontinued operations separately from the results of continuing operations for all periods presented. The expenses included in the results of discontinued operations are the direct operating expenses incurred by Gill Ranch that may be reasonably segregated from the costs of NW Holdings' continuing operations. The following table presents the carrying amounts of the major components of Gill Ranch that are classified as discontinued operations assets and liabilities on the consolidated balance sheets:

	NW H	NW Holdings Discontinued Operations				
In thousands		2019				
Assets:						
Accounts receivable	\$	333	\$	390		
Inventories		695		685		
Other current assets		457		333		
Property, plant, and equipment		13,291		11,621		
Less: Accumulated depreciation		7		7		
Operating lease right of use asset		118				
Other non-current assets		247		247		
Total discontinued operations assets - current assets ⁽¹⁾	\$	15,134	\$	13,269		
Liabilities:						
Accounts payable	\$	1,250	\$	873		
Other current liabilities		848		307		
Operating lease liabilities		116				
Other non-current liabilities		11,495		11,779		
Total discontinued operations liabilities - current liabilities ⁽¹⁾	\$	13,709	\$	12,959		
1) The total excepts and lightliking of Cill Danch are alreading as summer as of Dance				امان میں مام		

⁽¹⁾ The total assets and liabilities of Gill Ranch are classified as current as of December 31, 2018 because it was probable that the sale would be completed within one year.

The following table presents the operating results of Gill Ranch, which was historically reported within the gas storage segment, and is presented net of tax on NW Holdings' consolidated statements of comprehensive income:

	NW Holdings Discontinued Operations						
In thousands, except per share data	2019			2018	2017		
Revenues	\$	5,301	\$	3,579	\$	7,135	
Expenses							
Operations and maintenance		8,587		5,771		7,245	
General taxes		219		479		1,373	
Depreciation and amortization		423		430		4,525	
Other expenses and interest		931		609		975	
Impairment expense		_		_		192,478	
Total expenses		10,160		7,289		206,596	
Loss from discontinued operations before income tax		(4,859)		(3,710)		(199,461)	
Income tax benefit ⁽¹⁾		(1,283)		(968)		(71,765)	
Loss from discontinued operations, net of tax	\$	(3,576)	\$	(2,742)	\$	(127,696)	
Loss from discontinued operations per share of common stock:							
Basic	\$	(0.12)	\$	(0.10)	\$	(4.45)	
Diluted		(0.12)		(0.09)		(4.44)	

⁽¹⁾ 2017 income tax benefit includes approximately \$18 million of tax benefit from the enactment of the TCJA. The TCJA was enacted December 22, 2017 and resulted in the federal tax rate changing from 35% to 21%.

NW Natural

As part of the holding company reorganization in October 2018, NWN Energy, NWN Gas Storage, Gill Ranch, NNG Financial, NWN Water, and NW Holdings, which were direct and indirect subsidiaries of NW Natural prior to the reorganization, are no longer subsidiaries of NW Natural. See Note 1 for additional information. As a result, NW Natural's financial statements reflect amounts related to these entities as discontinued operations for all periods presented. The expenses included in the results of discontinued operations are the direct operating expenses incurred by the entities that may be reasonably segregated from the costs of NW Natural's continuing operations.

The following table presents the operating results prior to the holding company reorganization effective October 1, 2018 of NWN Energy, NWN Gas Storage, Gill Ranch, NNG Financial, NWN Water, and NW Holdings, which were historically reported within the gas storage segment and other, and is presented net of tax on NW Natural's consolidated statements of comprehensive income:

	NW N	NW Natural Discontin			
In thousands, except per share data		2018			
Revenues	\$	3,016	\$	7,360	
Expenses					
Operations and maintenance		4,151		7,423	
General taxes		448		1,410	
Depreciation and amortization		420		4,555	
Other expenses and interest		342		650	
Impairment expense		—		192,478	
Total expenses		5,361		206,516	
Loss from discontinued operations before income tax		(2,345)		(199,156)	
Income tax benefit ⁽¹⁾		(622)		(71,813)	
Loss from discontinued operations, net of tax	\$	(1,723)	\$	(127,343)	

⁽¹⁾ 2017 income tax benefit includes approximately \$18 million of tax benefit from the enactment of the TCJA. The TCJA was enacted December 22, 2017 and resulted in the federal tax rate changing from 35% to 21%.

20. Subsequent Events

Suncadia Acquisition Completed

On January 31, 2020, NWN Water of Washington, a wholly-owned indirect subsidiary of NW Holdings, completed the acquisition of Suncadia Water, a privately-owned water utility, and Suncadia Environmental, a wastewater company (collectively referred to as Suncadia). The acquisition was made for preliminary cash consideration of \$18.9 million, subject to closing adjustments. Suncadia is based in Cle Elum, Washington and serves approximately 2,800 connections. A \$1.0 million letter of credit outstanding at NW Holdings as of December 31, 2019 for purposes of facilitating the acquisition was extinguished upon the close of the transaction.

The preliminary allocation of consideration to the acquired assets and assumed liabilities based on their fair value is not yet complete as valuation procedures are pending. We expect the purchase price to be primarily allocated to property, plant and equipment and goodwill. Acquisition costs were insignificant and were expensed as incurred.

See Note 2 and Note 15 for more information regarding business combinations.

Name of Respondent	This Report is: Date of Re		Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

SUI	MMARY OF UTILITY PLANT AND ACCUMULATED PROVISIONS FOR DEPRECIATION, AND DEPLETION	AMORTIZATION
Line	Item	Total
No.	(a)	(b)
1	UTILITY PLANT	
2	In Service	
3	Plant in Service (Classified)	2,698,692,715
4	Property Under Capital Leases	7,657,435
5	Plant Purchased or Sold	
6	Completed Construction not Classified	725,095,905
7	Experimental Plant Unclassified	_
8	TOTAL Utility Plant (Total of lines 3 thru 7)	3,431,446,055
9	Leased to Others	_
10	Held for Future Use	970,068
11	Construction Work in Progress	84,964,806
12	Acquisition Adjustments	_
13	TOTAL Utility Plant (Total of lines 8 thru 12)	3,517,380,929
14	Accumulated Provisions for Depreciation, Amortization, & Depletion	1,425,460,561
15	Net Utility Plant (Enter Total of line 13 less 14)	2,091,920,368
16	DETAIL OF ACCUMULATED PROVISIONS FOR DEPRECIATION, AMORTIZATION AND DEPLETION	
17	In Service:	
18	Depreciation	1,375,622,544
19	Amortization and Depl. of Producing Natural Gas Land and Land Rights	
20	Amortization. of Underground Storage Land and Land Rights	32,004
21	Amortization. of Other Utility Plant	91,112,655
22	Salvage Work In Progress	
23	Less Removal Work In Progress	41,306,642
24	TOTAL In Service (Total of lines 18 thru 22 less line 23)	1,425,460,561
25	Leased to Others	
26	Depreciation	-
27	Amortization and Depletion	- 1
28	TOTAL Leased to Others (Total of lines 26 and 27)	- 1
29	Held for Future Use	
30	Depreciation	-
31	Amortization	- 1
32	TOTAL Held for Future Use (Total of lines 30 and 31)	
33	Abandonment of Leases (Natural Gas)	
34	Amortization of Plant Acquisition Adjustment	
35	TOTAL Accumulated Provisions (Should agree with line 14 above) (Total of lines 24, 28, 32, 33, and 34)	1,425,460,561

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

Electric	Gas	Other (Specify)	Common	Lin
(C)	(d)	(e)	(f)	No
				1
				2
	2,698,692,715			3
	7,657,435			4
				Ę
	725,095,905			6
	—			7
	3,431,446,055			8
	—			ę
	970,068			1
	84,964,806			1
				1
	3,517,380,929			1
	1,425,460,561			1
	2,091,920,368			1
				1
				1
	1,375,622,544			1
-				
	32,004			2
	91,112,655			2
				2
	41,306,642 1,425,460,561			2
	1,425,460,561			2
				2
				2
				2
				2
				3
				3
				3
				3
				3
	1,425,460,561			3

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

Gas Plant in Service (Accounts 101, 102, 103, and 106)

1. Report below the original cost of gas plant in service according to the prescribed accounts.

2. In addition to Account 101, Gas Plant in Service (Classified), this page and the next include Account 102, Gas Plant Purchased or Sold, Account 103, Experimental Gas Plant Unclassified, and Account 106, Completed Construction Not Classified-Gas.

3. Include in column (c) and (d), as appropriate corrections of additions and retirements for the current or preceding year.

4. Enclose in parenthesis credit adjustments of plant accounts to indicate the negative effect of such accounts.

5. Classify Account 106 according to prescribed accounts, on an estimated basis if necessary, and include the entries in column (c). Also to be included in column (c) are entries for reversals of tentative distributions of prior year reported in column (b). Likewise, if the respondent has a significant amount of plant retirements which have not been classified to primary accounts at the end of the year, include in column (d) a tentative distribution of such retirements, on an estimated basis, with appropriate contra entry to the account for accumulated depreciation provision. Include also in column (d) reversals of tentative distributions of prior year's unclassified retirements. Attach supplemental statement showing the account distributions of these tentative classifications in columns (c) and (d), including the reversals of the prior years tentative account distributions of these amounts. Careful observance of the above instructions and the texts of Account 101 and 106 will avoid serious omissions of respondent's reported amount for plant actually in service at end of year.

6. Show in column (f) reclassifications or transfers within utility plant accounts. Include also in column (f) the additions or reductions of primary account classifications arising from distribution of amounts initially recorded in Account 102. In showing the clearance of Account 102, include in column (e) the amounts with respect to accumulated provision for depreciation, acquisition adjustments, etc., and show in column (f) only the offset to the debits or credits to primary account classifications.

7. For Account 399, state the nature and use of plant included in this account and if substantial in amount submit a supplementary statement showing subaccount classification of such plant conforming to the requirements of these pages.

8. For each amount comprising the reported balance and changes in Account 102, state the property purchased or sold, name of vendor or purchaser, and date of transaction. If proposed journal entries have been filed with the Commission as required by the Uniform System of Accounts, give date of such filing.

SEE FOLLOWING PAGES

NW Natural

						Period Beginning: Period Ending:	January 2019 December 2019
Functiona	al Class	Beginning					Ending
FERC P	Plant Account	Balance	Additions	Retirements	Transfers	Adjustments	Balance*
UTILITY							
Intangible	Plant						
301	ORGANIZATION	1,174	_	_		· <u> </u>	1,174
302	FRANCHISES & CONSENTS	83,621	_	_	_	· _	83,621
303.1	COMPUTER SOFTWARE	79,889,778	9,015,761	_	_	· _	88,905,539
303.2	CUSTOMER INFORMATION SYSTEM	32,348,168	_	_	_	· _	32,348,168
303.3	INDUSTRIAL & COMMERCIAL BIL	4,146,951	_	_	_	· _	4,146,951
303.4	CRMS	682,893	_	_	_	· _	682,893
303.5	POWERPLANT SOFTWARE	_	_	_	_	· _	_
303.6	NMEP COMPUTER SOFTWARE	_	452,044	_	_	· _	452,044
	Intangible Plant Subtotal*	117,152,584	9,467,805	—	-	·	126,620,390
Productio	on Plant - Oil Gas						
304.1	LAND	24,998	_	_		· _	24,998
305.2	P P O G STRU & IMPR-SEWER S	_	_	_	_	· _	· —
305.5	P P O G STRU & IMPR-OTHER Y	13,156	_	_	_	· _	13,156
312.3	P P O G FUEL HANDLING AND S	_	_	_	_	· _	_
318.3	P P O G LIGHT OIL REFINING	144,896	_	_	_	· _	144,896
318.5	P P O G TAR PROCESSING	243,551	_	_	_	· _	243,551
325	NATURAL GAS PROD AND GATHER	_	_	_	_	· _	_
327	NATURAL GAS PROD & GATHERIN	_	_	_	_	· _	_
328	NATURAL GAS PROD AND GATHER	—	_	—		· _	_
331	NATURAL GAS PROD & GATHERIN	—	_	—		· _	_
332	NATURAL GAS PROD & GATHERIN	—	_	—	_	· _	_
333	NATURAL GAS PROD & GATHERIN	—	—	_	_	· <u> </u>	-
334	NATURAL GAS PROD & GATHERIN		_			· _	_
	Production Plant - Oil Gas Subtotal*	426,601	—	—	_	· –	426,601
Productio	on Plant - Other						
305.11	GAS PRODUCTION - COTTAGE G	8,320	—	—		· _	8,320
305.17	STRUCTURES MIXING STATION	46,587	—	—		· _	46,587
311	P P OTHER-LIQUEFIED PETROLE	—	_	_		· _	—
311.4	P P OTHER-L P G GRANGER	—	—	—		· _	—
311.7	LIQUIFIED GAS EQUIPMENT COO	4,033	_	_	_	· _	4,033
311.8	LIQUIFIED GAS EQUIPMENT LIN	4,209	_	_		· _	4,209
319	GAS MIXING EQUIPMENT GASCO	185,448				· _	185,448
	Production Plant - Other Subtotal*	248,597	_	_	_	· _	248,597

NW Natural

						Period Beginning: Period Ending:	January 2019 December 2019
Functiona	I Class	Beginning					Ending
FERC PI	lant Account	Balance	Additions	Retirements	Transfers	Adjustments	Balance*
UTILITY							
Natural Ga	as Underground Storage						
350.1	LAND	106,549	_	_	_	_	106,549
350.2	RIGHTS-OF-WAY	109,625	_	—	_	_	109,625
350.3	NMEP RIGHTS-OF-WAY	_	538,145	—	_	_	538,145
350.4	NMEP LAND	_	461,268	—	_	_	461,268
351	STRUCTURES AND IMPROVEMENTS	8,631,863	2,288	—	_	_	8,634,151
351.1	NMEP STRUCTURES AND IMPROVEMENTS	_	6,784,473	—	_	_	6,784,473
352	WELLS	23,261,814	2,344,005	_	_	_	25,605,819
352.1	STORAGE LEASEHOLD & RIGHTS	3,938,491	_	—	_	_	3,938,491
352.2	RESERVOIRS	7,272,553	—	_	_	_	7,272,553
352.3	NON-RECOVERABLE NATURAL GAS	6,440,890	—	_	_	_	6,440,890
352.4	NMEP WELLS	_	16,159,768	—	_	_	16,159,768
352.5	NMEP STORAGE LEASEHOLD & RIGHTS	—	2,619,103	_	_	_	2,619,103
352.6	NMEP RESERVOIRS	—	2,619,103	_	_	_	2,619,103
352.7	NMEP NON-RECOVERABLE NATURAL GAS	_	2,696,233	—	_	_	2,696,233
353	LINES	7,274,713	812,991	_	_	_	8,087,704
353.1	NMEP LINES	—	332,621	—	_	_	332,621
354	COMPRESSOR STATION EQUIPMENT	31,352,716	—	_	_	1,240,059	32,592,775
354.7	NMEP COMPRESSOR STATION EQUIPMENT	—	27,599,508	_	_	_	27,599,508
355	MEASURING / REGULATING EQUIPM	7,408,127	76,493	_	_	_	7,484,620
355.1	NMEP MEASURING/REGULATING EQUIPMENT	_	15,519,402	_	_	_	15,519,402
356	PURIFICATION EQUIPMENT	363,606	159	—	—	—	363,765
357	OTHER EQUIPMENT	2,357,694	1,872	_		_	2,359,566
	Natural Gas Underground Storage Subtotal*	98,518,641	78,567,432	_	_	1,240,059	178,326,133

ACCOUNT SUMMARY BY FUNCTIONAL CLASS NW Natural

		1	W Natural				
						Period Beginning:	January 2019
Eurotional	Class	Desinning				Period Ending:	December 2019
Functional		Beginning		Detinemente	Tuenefere	A diversion on to	Ending
	lant Account	Balance	Additions	Retirements	Transfers	Adjustments	Balance*
UTILITY							
LOCAL ST	ORAGE PLANT						
360.11	LAND - LNG LINNTON	83,598	_	_	_	_	83,598
360.12	LAND - LNG NEWPORT	536,675	_	_	_	_	536,675
360.2	LAND - OTHER	106,557	_	_	_	_	106,557
361.11	STRUCTURES & IMPROVEMENTS	10,599,751	72,163	_	_	_	10,671,914
361.12	STRUCTURES & IMPROVEMENTS	11,928,288	168,465	_	_	_	12,096,752
361.2	STRUCTURES & IMPROVEMENTS -	26,757	_	_	_	_	26,757
362.11	GAS HOLDERS - LNG LINNTON	4,556,064	_	_	_	_	4,556,064
362.12	GAS HOLDERS - LNG NEWPORT	5,927,104	_	_	_	_	5,927,104
362.2	GAS HOLDERS - LNG OTHER	1,600	_	_	_	_	1,600
363.11	LIQUEFACTION EQUIP LINN	3,319,411	56,129	_	_	_	3,375,541
363.12	LIQUEFACTION EQUIP - NEWPO	15,583,451	164,953	_	_	_	15,748,404
363.21	VAPORIZING EQUIP - LINNTON	4,458,618	_	_	_	_	4,458,618
363.22	VAPORIZING EQUIP - NEWPORT	3,739,813	_	_	_	_	3,739,813
363.31	COMPRESSOR EQUIP - LINNTON	180,903	_	_	_	_	180,903
363.32	COMPRESSOR EQUIPMENT - NE	4,623,311	_	_	_	_	4,623,311
363.41	MEASURING & REGULATING EQU	2,878,248	217	_	_	_	2,878,465
363.42	MEASURING & REGULATING EQU	10,445,230	116,850	_	_	_	10,562,079
363.5	CNG REFUELING FACILITIES	3,051,295	· -	_	_	_	3,051,295
363.6	LNG REFUELING FACILITIES	739,473	_	_	_	_	739,473
	Local Storage Plant Subtotal *	82,786,149	578,776	_	_	_	83,364,925
	NON DI ANT						
365.1	SION PLANT LAND	1,015,597					1,015,597
365.1	LAND LAND RIGHTS	6,455,177	—	_	_	_	
365.2		6,455,177		_	_		6,455,177
365.3	NMEP LAND RIGHTS STRUCTURES & IMPROVEMENTS	1 546 073	538,142	_	—	—	538,142
	MAINS	1,546,073	40 402 944	(533.003	、 —	—	1,546,073
367	NORTH MIST TRANSMISSION LI	169,366,379	10,192,811	(532,003	•	—	179,027,188
367.21		1,994,582	—	_	—	—	1,994,582
367.22	SOUTH MIST TRANSMISSION LI	14,949,264	—	_	—	—	14,949,264
367.23	SOUTH MIST TRANSMISSION LI	34,881,341	—	_	—	—	34,881,341
367.24	11.7M NORTH S MIST TRANS	17,466,182	—	_	_	_	17,466,182
367.25 367.26	12M NORTH S MIST TRANS 38M NORTH S MIST TRANS	18,613,651	—	_	—	—	18,613,651
		68,232,676		_	_	—	68,232,676
367.27		-	66,807,090	_	—	_	66,807,090
368	TRANSMISSION COMPRESSOR	-	—	_	—	_	-
369	MEASURING & REGULATE STATION	3,969,549	—	_	—	_	3,969,549
370			77 500 6 40	(500.000			
	Transmission Plant Subtotal *	338,490,472	77,538,042	(532,003) —	—	415,496,511

NW Natural

Functional	I Class	Beginning				Period Beginning: Period Ending:	January 2019 December 2019 Ending
	Plant Account	Balance	Additions	Retirements	Transfers	Adjustments	Balance*
UTILITY		Balance	Additions	Retirements	Transiers	Aujustinents	Dalance
Distributio	on Plant						
374.1	LAND	85,773	_	_	_	_	85,773
374.2	LAND RIGHTS	1,886,148	32	_	_	—	1,886,181
375	STRUCTURES & IMPROVEMENTS	1,519,558	_	_	_	—	1,519,558
376.11	MAINS < 4"	613,931,489	24,263,648	(84,511)	_	_	638,110,626
376.12	MAINS 4" & >	580,964,310	33,904,922	(147,411)	_	_	614,721,821
376.13	NMEP MAINS HP 4" & >	_	614,976	_	_	_	614,976
377	COMPRESSOR STATION EQUIPMENT	818,380	_	_	_	_	818,380
378	MEASURING & REG EQUIP - GENER	37,114,821	1,210,812	_	_	_	38,325,632
379	MEASURING & REG EQUIP - GATE	13,707,266	2,494,286	_	_	_	16,201,552
380	SERVICES	800,894,952	38,388,327	(1,477,866)	_	_	837,805,413
381	METERS	91,830,141	10,687,409	(1,729,669)	_	_	100,787,881
381.1	METERS (ELECTRONIC)	1,696,938	—	_	_	_	1,696,938
381.2	ERT (ENCODER RECEIVER TRANS	44,944,129	2,773,582	(4,021,547)	_	_	43,696,164
382	METER INSTALLATIONS	62,091,182	4,851,233	(2,692,778)	_	_	64,249,637
382.1	METER INSTALLATIONS (ELECTR	481,020	—	_	_	_	481,020
382.2	ERT INSTALLATION (ENCODER	9,169,560	_	(197,054)	_	_	8,972,506
383	HOUSE REGULATORS	2,203,738	215,914	_	_	_	2,419,652
386	OTHER PROPERTY ON CUSTOMERS P	1,162,110	_	_	_	_	1,162,110
386.1	MULTI-FAMILY METER ROOMS	141,536	_	(141,536)	_	_	
387.1	CATHODIC PROTECTION TESTING	173,859	_	_	_	_	173,859
387.2	CALORIMETERS @ GATE STATIONS	96,424	_	_	_	_	96,424
387.3	METER TESTING EQUIPMENT	72,671	_	_	_	_	72,671
	Distribution Plant Subtotal*	2,264,986,007	119,405,141	(10,492,372)	_		2,373,898,776

NW Natural

						Period Beginning: Period Ending:	January 2019 December 2019
Functiona	al Class	Beginning					Ending
FERC I	Plant Account	Balance	Additions	Retirements	Transfers	Adjustments	Balance*
UTILITY						,	
0							
General P							
389		10,767,907	884,454	—	_	—	11,652,361
390	STRUCTURES & IMPROVEMENTS	71,478,482	3,502,610	—	_	_	74,981,091
390.1	SOURCE CONTROL PLANT	19,301,317	880,390		—	—	20,181,707
	OFFICE FURNITURE & EQUIPMEN	8,134,381	223,393	(70,550)	—	—	8,287,224
	COMPUTERS	27,129,445	13,259,338	(2,853,153)	_	-	37,535,630
	ON SITE BILLING	—	-	—	—	-	_
	CUSTOMER INFORMATION SYSTEM	_	-	—	-	—	_
	NMEP COMPUTERS	—	1,537,007	—	_	—	1,537,007
392	TRANSPORTATION EQUIPMENT	46,746,329	7,170,874	(2,256,423)	—	—	51,660,779
393	STORES EQUIPMENT	119,406	—	—	—	—	119,406
394	TOOLS - SHOP & GARAGE EQUIPUI	13,169,801	1,227,965	—	_	—	14,397,767
395	LABORATORY EQUIPMENT	277	-	(277)	—	—	_
396	POWER OPERATED EQUIPMENT	11,256,429	1,883,175	(598,755)	_	—	12,540,849
397	GEN PLANT-COMMUNICATION EQU	88,322	_	(20,921)	_	—	67,401
397.1	MOBILE	54,370	4,169,389	_	_	—	4,223,759
397.2	OTHER THAN MOBILE & TELEMET	9,958	_	_	_	—	9,958
397.3	TELEMETERING - OTHER	1,998,836	436,458	(1,731)	_	—	2,433,563
397.4	TELEMETERING - MICROWAVE	2,355,508	2,823,009	_	_	_	5,178,517
397.5	TELEPHONE EQUIPMENT	490,767	- · · · -	_	_	_	490,767
398	GEN PLANT-MISCELLANEOUS EQU	_	_	_	_	_	_
398.1	PRINT SHOP	4,359	_	_	_	_	4,359
	KITCHEN EQUIPMENT	12,812	_	_	_	_	12,812
	JANITORIAL EQUIPMENT	14,873	_	_	_	_	14,873
	INSTALLED IN LEASED BUILDINGS	10,120	_	_	_	_	10,120
	OTHER MISCELLANEOUS EQUIPMENT	66,739	_	_	_	_	66,739
	General Plant Subtotal*	213,210,437	37,998,062	(5,801,809)	_		245,406,689
	Utility Property Grand Total*	3,115,819,487	323,555,258	(16,826,184)	_	1,240,059	3,423,788,620
		-, -, -, -, -, -					-, -, -,-
	GL Account 101600	_					7,204,816
	GL Account 101601						452,619
	Utility Property Under Capital Leases					_	7,657,435

NW Natural

						Period Beginning: Period Ending:	January 2019 December 2019
Functional C	lass	Beginning					Ending
FERC Plant	t Account	Balance	Additions	Retirements	Transfers	Adjustments	Balance*
NON-UTILITY	Y						
Intangible Pl	ant						
303.1	COMPUTER SOFTWARE	163,357	_	_	_	_	163,357
303.2	CUSTOMER INFORMATION SYSTEM	61,429	_	_	_	_	61,429
Non Utility	Intangible Plant Subtotal*	224,786	_	_	_	_	224,786
Natural Gas	Underground Storage						
352	WELLS	16,940,451	1,083,303	_	_	_	18,023,755
352.1	STORAGE LEASEHOLD & RIGHTS	1,020	_	_	_	_	1,020
352.2	RESERVOIRS	3,561,501	_	_	_	_	3,561,501
353	LINES	2,289,408	282,098	_	_	_	2,571,507
354	COMPRESSOR STATION EQUIPMENT	13,300,680	(3,628)	_	_	(1,240,059)	12,056,993
355	MEASURING / REGULATING EQUIPM	9,246,325	(831,046)	(181,462)	_	_	8,233,817
357	OTHER EQUIPMENT	63,256	_	_	_	_	63,256
Non Utility	Natural Gas Underground Storage Subtotal*	45,402,642	530,727	(181,462)	_	(1,240,059)	44,511,849
Transmissio	n Plant						
368	TRANSMISSION COMPRESSOR	7,723,454	_	_	_	_	7,723,454
Non Utility	Transmission Plant Subtotal*	7,723,454	_	_	_	_	7,723,454
Distribution	Plant						
376.12	MAINS 4" & >	878,618	(614,976)	(263,642)	_	_	_
Non Utility	Distribution Plant Subtotal*	878,618	(314,976)	(263,642)	_	_	_
General Plan	ıt						
389	LAND	438,739	_	_	_	_	438,739
390	STRUCTURES & IMPROVEMENTS	239,306	_	_	_	_	239,306
Non Utility	General Plant Subtotal*	678,045	_	_	_		678,045

NW Natural

						Period Beginning:	January 2019
						Period Ending:	December 2019
Functional Cl	lass	Beginning					Ending
FERC Plant	t Account	Balance	Additions	Retirements	Transfers	Adjustments	Balance*
NON-UTILITY	,						
Non Utility Of	ther						
121.1	NON-UTIL PROP-DOCK	1,946,033	_	_	_	· _	1,946,033
121.2	NON-UTIL PROP-LAND	125,102	_	—	_	· _	125,102
121.3	NON-UTIL PROP-OIL ST	4,635,180	_	—	_	· _	4,635,180
121.7	NON-UTIL PROP-APPL CENTER	64,906	_	_	_	· _	64,906
121.8	NON-UTIL PROP-STORAGE	96,038	_	—			96,038
Non Utility	Other*	6,867,259	-	-	_		6,867,259
	Non Utility Property Grand Total*	61,774,804	(84,249)	(445,103)	_	(1,240,059)	60,005,393
Non Utility	Property Summary						
	Non Utility Property Grand Total	60,005,393					
121117	Gas Stored Underground - St. Helens	3,507,590					
121707-8	Construction Work in Progress Non Utility	5,548,398					
Balance Sh	neet Total for Non Utility Property*	69,061,380					

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	Gas Proper	rty A	and Capacity Leased From Others	
1. Re	port below the information called for concerning	_		as operations.
2. Foi	r all leases in which the average annual lease pa able: the property or capacity leased. Designate	avme	nt over the initial term of the lease exceeds \$5	500,000, describe in column (c), if
Line	Name of Lessor	*	Description of Lease	Lease Payments for Current Year
No.	(a)	(b)	(C)	(d)
1	Northwest Pipeline		Pipeline Capacity	48,725,264
2	TMC "Nova and ANG"		Pipeline Capacity	12,129,714
3	Fortis BC		Pipeline Capacity	6,819,778
4	TransCanada "Gas Trans NW"		Pipeline Capacity	4,531,554
5	One Pacific Square LLC		Corporate Headquarter Building	4,507,052
6	Tenaska Marketing Cdn. "Southern Crossing"		Pipeline Capacity	3,155,551
7	Tenaska Marketing Ventures		Pipeline Capacity	1,941,172
8	International Paper		Pipeline Capacity	478,880
9	KB Pipeline	*	Pipeline Capacity	224,258
10	Coos County Pipeline		Pipeline Capacity	204,756
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35	Total			82,717,979

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2)		December 31, 2019

Gas Plant Held for Future Use (Account 105)

1. Report separately each property held for future use at end of the year having an original cost of \$1,000,000 or more. Group property held for future use.

2. For property having an original cost of \$1,000,000 or more previously used in utility operations, now held for future use, give in column (a),in addition to other required information, the date that utility use of such property was discontinued, and the date the original cost was transferred to Account 105.

IU ACC	count 105.			
Line	Description and Location of Property	Date Originally Included in this account	Date Expected to be Used in Utility Service	Balance at End of Year
No.	(a)	(b)	(C)	(d)
1	Underground Storage	07/2009	Undetermined	127,921
2	Easement	11/2011	Undetermined	136,720
3	Willamette River Crossing - Engineering Costs	05/2015	Undetermined	705,427
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35	Total			970,068

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

Construction Work in Progress - Gas (Account 107)

1. Report below descriptions and balances at end of year of projects in process of construction (Account 107)

2. Show items relating to "research, development, and demonstration" projects last, under a caption Research, Development, and Demonstration (see Account 107 of the Uniform System of Accounts).

3. Minor projects (less than \$1,000,000) may be grouped.

<u> </u>	1		
Line	Description of Project	Construction Work in Progress - Gas (Account 107)	Estimated Additional Cost of Project
No.	(a)	(b)	(C)
1	Misc Information Services Projects	36,335,730	22,988,837
2	Other, less than \$1M each	22,567,978	10,080,097
3	Mains and Service Jobs	14,457,161	22,172,090
4	Misc Facilities Projects	9,264,548	21,611,701
5	Portland LNG Readiness	1,174,278	1,190,321
6	Newport LNG Readiness	923,234	3,616,250
7	North Mist Expansion Project	241,877	561,344
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34	Total	84,964,806	82,220,640

Name of Respondent	This Report is:	Date of Report	Year of Report				
	(1) 🗵 An Original	(Mo, Da, Yr)					
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019				

GENERAL DESCRIPTION OF CONSTRUCTION OVERHEAD PROCEDURE

1. For each construction overhead explain: (a) the nature and extent of work,etc., the overhead charges are intended to cover, (b) the general procedure for determining the amount capitalized, (c) the method of distribution to construction jobs, (d) whether different rates are applied to different types of construction, (e) basis of differentiation in rates for different types of construction, and (f) whether the overhead is directly or indirectly assigned.

2. Show below the computation of allowance for funds used during construction rates, in accordance with the provisions of Gas Plant Instructions 3 917) of the Uniform System of Accounts.

3. Where a net-of-tax rate for borrowed funds is used, show the appropriate tax effect adjustment to the computations below in a manner that clearly indicates the amount of reduction in the gross rate for tax effects.

GENERAL DESCRIPTION OF CONSTRUCTION OVERHEAD PROCEDURE

1. <u>Engineering Department</u> overhead covers transmission and distribution system planning, design work, drafting and platting of construction a) work.

Distribution Department overhead covers transmission and distribution system work scheduling, field supervision and processing of work completed.

Administrative work overhead includes Purchasing, Accounting and general office expense.

General Services Department overhead covers planning and supervision of general plant improvements and facilities.

b) Charges during the year are segregated into overhead accounts based on the proportion of activity devoted to construction work. Construction Overheads are being charged to individual work orders based upon overhead rates for different types of projects. Rates are

2019

- c) determined by type of project using the annual capital budget and annual construction overhead budget.
- d) Different rates are applied to different types of construction based on the annual capital budget for each type of plant.
- e) Actual construction overhead rates applied to types of work in:

	a. Production, Storage, Transmission and Distribution plant	36%
	b. Meters	78%
	c. General Plant	11%
	d. Non-Utility Property	1%
)	Direct assignment of construction overhead capitalized during:	2019
		53,661,863

2. ALLOWANCE FOR FUNDS USED DURING CONSTRUCTION (AFUDC)

AFUDC is applied to previous month's ending balance plus half of current month's expenditures of Construction Work in Progress (CWIP).

3. N/A

f)

Name of Respondent	This Report is:	Year of Report	
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

GENERAL DESCRIPTION OF CONSTRUCTION OVERHEAD PROCEDURE (CONTINUED)

COMPUTATION OF ALLOWANCE FOR FUNDS USED DURING CONSTRUCTION RATES

1. For Line (5), column (d) below, enter the rate granted in the last rate proceeding. If not available, use the average rate earned during the preceding 3 years.

2. Identify, in a footnote, the specific entity used as the source for the capital structure figures.

3. Indicate, in a footnote, if the reported rate of return is one that has been approved in a rate case, black-box settlement rate, or an actual three-year average rate.

Line	Title	Amount	Capitalization Ration (percent)	Cost Rate Percentage		
No.	(a)	(b) (c)		(d)		
	(1) Average Short-Term Debt	S 100,374,620				
	(2) Short-Term Interest			s 3.13%		
	(3) Long-Term Debt	D 739,700,000		d 5.379%		
	(4) Preferred Stock	Р —	—	р —%		
	(5) Common Equity	C 715,668,176	—	c 9.40%		
	(6) Total Capitalization	_	100.00%			
	(7) Average Construction Work in Progress	W 130,668,669		•		
2.	Gross Rates for Borrowed Funds s(S/W)	+d[(D/(D+P+C))(1-(S/W)]	3.04%			
3.	Rate for Other Funds [1-(S/W)]	o(P/(D+P+C)+c(C/(D+P+C)]	1.07%			
4.	Weighted Average Rate Actually Used for th	e Year				
		a. Rate for Borrowed Funds -	3.26%			
		b. Rate for Other Funds -	0.59%			

Name of Respondent	This Report is:	Date of Report Year of Report					
	(1) 🗵 An Original	(Mo, Da, Yr)					
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019				

Accumulated Provision for Depreciation of Gas Utility Plant (Account 108)

1. Explain in a footnote any important adjustments during year.

2. Explain in a footnote any difference between the amount for book cost of plant retired, line 10, column (c), and that reported for gas plant in service, page 204-209, column (d), excluding retirements of nondepreciable property.

3. The provisions of Account 108 in the Uniform System of Accounts require that retirements of depreciable plant be recorded when such plant is removed from service. If the respondent has a significant amount of plant retired at year end which has not been recorded and/or classified to the various reserve functional classifications, make preliminary closing entries to tentatively functionalize the book cost of the plant retired. In addition, include all costs included in retirement work in progress at year end in the appropriate functional classifications.

4. Show separately interest credits under a sinking fund or similar method of depreciation accounting.

5. At lines 7 and 14, add rows as necessary to report all data. Additional rows should be numbered in sequence, e.g., 7.01, 7.02, etc.

SEE FOLLOWING PAGES

								Period Beginning: Period Ending:	January 2019 December 2019
Functior	nal Class	Beginning			Cost of	Salvage and	Transfers and		Ending
FERC	Plant Account	Reserve	Provision	Retirements	Removal	Other Credits	Adjustments	Loss/(Gain)	Reserve*
UTILITY					1		-		
Intangib	le Plant								
301	ORGANIZATION	_	_	_	_	_		_	_
302	FRANCHISES & CONSENTS	_	_		_	_		_	_
303.1	COMPUTER SOFTWARE	29,472,454	5,651,644		_	_		_	29,472,454
303.2	CUSTOMER INFORMATION SYSTEM	32,348,168	· · · —		_	_		_	32,348,168
303.3	INDUSTRIAL & COMMERCIAL BIL	4,146,951	_		_	_		_	4,146,951
303.4	CRMS	682,893	_		_	_		_	682,893
303.5	POWERPLANT SOFTWARE	· —	_		_	_		_	· —
303.6	NMEP COMPUTER SOFTWARE	_	55,987		_	_		_	55,987
	Intangible Plant Subtotal*	66,650,465	5,707,631		_	_			72,358,096
Producti	on Plant - Oil Gas								
304.1	LAND	_	_		_	_		_	_
305.2	P P O G STRU & IMPR-SEWER S	_	_		_	_		_	_
305.5	P P O G STRU & IMPR-OTHER Y	13,814	_		_	_		_	13,814
312.3	P P O G FUEL HANDLING AND S	· —	_		_	_		_	· _
318.3	P P O G LIGHT OIL REFINING	152,141	_		_	_		_	152,141
318.5	P P O G TAR PROCESSING	255,729	_		_	_		_	255,729
325	NATURAL GAS PROD AND GATHER	_	_		_	_		_	_
327	NATURAL GAS PROD & GATHERIN	_	_		_	_		_	_
328	NATURAL GAS PROD AND GATHER	_	_		_	_		_	_
331	NATURAL GAS PROD & GATHERIN	_	_		_	_		_	_
332	NATURAL GAS PROD & GATHERIN	_	_		_	_		_	_
333	NATURAL GAS PROD & GATHERIN	_	_		_	_		_	_
334	NATURAL GAS PROD & GATHERIN	_	_	_	_	_	_	_	_
	Production Plant - Oil Gas Subtotal*	421,683			_	_			421,683
Producti	on Plant - Other								
305.11	GAS PRODUCTION - COTTAGE G	8,736	—	_		_		_	8,736
305.17	STRUCTURES MIXING STATION	51,246	_	_	_	_		_	51,246
311	P P OTHER-LIQUEFIED PETROLE	_	_	_	-	—		_	—
311.4	P P OTHER-L P G GRANGER	—	—	_		_		_	_
311.7	LIQUIFIED GAS EQUIPMENT COO	8,066	_	_	_	_		_	8,066
311.8	LIQUIFIED GAS EQUIPMENT LIN	6,585	_	_	_	_		_	6,585
319	GAS MIXING EQUIPMENT GASCO	194,720	_					_	194,720
	Production Plant - Other Subtotal*	269,353		_	_	_			269,353

								Period Beginning:	January 2019
								Period Ending:	December 2019
Function	nal Class	Beginning			Cost of	Salvage and	Transfers and		Ending
FERC	Plant Account	Reserve	Provision	Retirements	Removal	Other Credits	Adjustments	Loss/(Gain)	Reserve*
UTILITY									
Natural	Gas Underground Storage								
350.1	LAND	_	_	_	_	_	_	_	_
350.2	RIGHTS-OF-WAY	30,436	1,568	_	_	_	_	_	32,004
350.3	NMEP RIGHTS-OF-WAY	—	5,450	_	_	—	_	—	5,450
351	STRUCTURES AND IMPROVEMENTS	2,924,316	129,479	_	_	—	_	—	3,053,795
351.1	NMEP STRUCTURES AND IMPROVEMENTS	—	72,239	_	_	—	_	—	72,239
352	WELLS	12,255,683	351,741	_	_	_	_	_	12,607,424
352.1	STORAGE LEASEHOLD & RIGHTS	1,745,379	65,773	—	_	—	_	—	1,811,152
352.2	RESERVOIRS	2,673,739	125,815	_	_	_	_	_	2,799,555
352.3	NON-RECOVERABLE NATURAL GAS	3,558,645	101,122	_	_	_	_	_	3,659,767
352.4	NMEP WELLS	—	201,551	_	_	_	_	_	201,551
352.5	NMEP STORAGE LEASEHOLD & RIGHTS	—	31,896	_	_	_	_	_	31,896
352.6	NMEP RESERVOIRS	_	32,877	_	_	_	_	_	32,877
352.7	NMEP NON-RECOVERABLE NATURAL GAS	—	31,656	_	_	—	_	—	31,656
353	LINES	3,314,729	153,215	_	_	_	_	_	3,467,944
353.1	NMEP LINES	_	4,184	_	_	_	_	_	4,184
354	COMPRESSOR STATION EQUIPMENT	19,529,817	560,388	_	_	_	463,610	_	20,553,816
354.7	NMEP COMPRESSOR STATION EQUIPMENT	_	456,891	_	_	_	_	_	456,891
355	MEASURING / REGULATING EQUIPM	4,745,697	169,213	_	_	_	_	_	4,914,910
355.1	NMEP MEASURING/REGULATING EQUIPM		207,697	_	_	_	_	_	207,697
356	PURIFICATION EQUIPMENT	240,036	4,981			_	_	_	245,017
357	OTHER EQUIPMENT	240,038 900,361	4,901 51,164	_		_	_	_	951,524
337	Natural Gas Underground Storage Subtotal*	51,918,839	2,758,900				463,610	_	55,141,350
	Hatara Sus Underground Storage Subtotal	31,310,003	2,700,000					_	55, 141,550

				NW NATONAL					
								Period Beginning: Period Ending:	January 2019 December 2019
Functiona	al Class	Beginning			Cost of	Salvage and	Transfers and		Ending
FERC P	Plant Account	Reserve	Provision	Retirements	Removal	Other Credits	Adjustments	Loss/(Gain)	Reserve*
UTILITY									
Local Sto	rage Plant								
360.11	LAND - LNG LINNTON	_	_	_	_	_	_	_	_
360.12	LAND - LNG NEWPORT	_	_	_	_	_	_	_	_
360.2	LAND - OTHER	_	_	_	_	_	_	_	_
361.11	STRUCTURES & IMPROVEMENTS	2,760,407	403,306	_	_	_	_	· _	3,163,714
361.12	STRUCTURES & IMPROVEMENTS	2,622,032	521,583	_	_	_	_	· _	3,143,615
361.2	STRUCTURES & IMPROVEMENTS -	11,891	474	_	_	_	_	· <u> </u>	12,365
362.11	GAS HOLDERS - LNG LINNTON	2,452,669	117,546	_	_	_	_	· <u> </u>	2,570,215
362.12	GAS HOLDERS - LNG NEWPORT	5,893,926	144,029	_	_	_	_	_	6,037,955
362.2	GAS HOLDERS - LNG OTHER	1,234	16	_	_	_	_	· <u> </u>	1,250
363.11	LIQUEFACTION EQUIP LINN	2,648,875	44,065	_	_	_	_	_	2,692,940
363.12	LIQUEFACTION EQUIP - NEWPO	7,242,254	104,588	_	_	_	_	· <u> </u>	7,346,843
363.21	VAPORIZING EQUIP - LINNTON	2,452,004	20,956	_	_	_	_		2,472,960
	VAPORIZING EQUIP - NEWPORT	312,762	115,560	_	_	_	_	· –	428,322
363.31	COMPRESSOR EQUIP - LINNTON	206,897	_	_	_	_	_	_	206,897
363.32	COMPRESSOR EQUIPMENT - NE	784,673	350,444	_	_	_	_	· –	1,135,117
363.41	MEASURING & REGULATING EQU	630,328	114,846	_	_	_	_	· –	745,174
363.42	MEASURING & REGULATING EQU	251,578	13,652	_	_	_	_	· –	265,230
363.5	CNG REFUELING FACILITIES	1,432,033	79,944	_	_	_	_	· –	1,511,977
363.6	LNG REFUELING FACILITIES	739,473	_	_	_	_	_	_	739,473
	Local Storage Plant Subtotal*	30,443,037	2,031,008	_	_	_	_		32,474,046
Transmis	sion Plant								
365.1	LAND	_	_	_	_	_	_	_	_
365.2	LAND RIGHTS	2,126,357	98,119	_	_	_	_	_	2,224,476
365.3	NMEP LAND RIGHTS	· · · —	6,358	_	_	_	_	_	6,358
366.3	STRUCTURES & IMPROVEMENTS -	358,757	27,056	_	_	_	_	_	385,814
367	MAINS	37,087,966	3,261,162	(532,003)	_	_	_		39,817,125
367.21	NORTH MIST TRANSMISSION LI	1,177,365	34,307	_	_	_	_	· –	1,211,672
367.22	SOUTH MIST TRANSMISSION LI	11,015,031	237,693	_	_	_	_	. <u> </u>	11,252,724
367.23	SOUTH MIST TRANSMISSION LI	14,577,274	676,698	_	_	_	_	. <u> </u>	15,253,972
367.24	11.7M S MIST TRANS LINE	6,157,601	338,844	_	_	_	_	· –	6,496,445
367.25	12M NORTH S MIST TRANS	6,258,333	362,966	_	_	_	_	_	6,621,299
367.26	38M NORTH S MIST TRANS	23,121,017	1,330,537	_	_	_	_	. <u> </u>	24,451,554
367.27	NMEP MAINS		1,084,348	_	_	_	_	_	1,084,348
368	TRANSMISSION COMPRESSOR	(9)	,,	_	_	_	_	_	(9)
369	MEASURING & REGULATE STATION	1,654,098	84,548	_	_	_	_	_	1,738,646
		,,-20	,•						,,•
370	COMMUNICATION EQUIPMENT	—	_		_		_	_	_

Period Beginning: January 2019

								Period Ending:	December 2019
Function	al Class	Beginning			Cost of	Salvage and	Transfers and		Ending
FERC F	Plant Account	Reserve	Provision	Retirements	Removal	Other Credits	Adjustments	Loss/(Gain)	Reserve*
UTILITY									
Distributi	ion Plant								
374.1	LAND	_	_	_	_	_	_	_	_
374.2	LAND RIGHTS	1,681,161	10,562	_	_	_	_	_	1,691,723
375	STRUCTURES & IMPROVEMENTS	91,974	21,590	_	_	_	_	_	113,564
376.11	MAINS < 4"	339,078,831	15,883,860	(84,511)	(551,968)	45,393	_	_	354,371,605
376.12	MAINS 4" & >	235,089,539	13,673,872	(147,411)	(441,899)	48,788	_	_	248,222,889
376.13	MNEP MAINS 4" & >	_	9,032	_	_	_	_	_	9,032
377	COMPRESSOR STATION EQUIPMENT	667,156	10,803	_	_	_	_	_	677,959
378	MEASURING & REG EQUIP - GENER	13,016,706	821,149	_	_	_	_	_	13,837,855
379	MEASURING & REG EQUIP - GATE	2,935,048	309,503	_	_	_	_	_	3,244,552
380	SERVICES	423,855,747	23,433,833	(1,477,866)	(2,552,534)	_	_	_	443,259,181
381	METERS	23,590,928	2,156,295	(1,729,669)	_	_	_	_	24,017,554
381.1	METERS (ELECTRONIC)	1,944,068	49,042	_	_	_	_	_	1,993,110
381.2	ERT (ENCODER RECEIVER TRANS	22,904,389	2,567,452	(4,021,547)	_	_	_	_	21,450,294
382	METER INSTALLATIONS	5,918,519	2,979,535	(2,692,778)	_	_	_	_	6,205,275
382.1	METER INSTALLATIONS (ELECTR	79,992	41,416	_	_	_	_	_	121,408
382.2	ERT INSTALLATION (ENCODER	5,916,087	353,747	(197,054)	_	_	_	_	6,072,781
383	HOUSE REGULATORS	327,216	66,882	_	_	_	_	_	394,098
386	OTHER PROPERTY ON CUSTOMERS P	141,299	123,364	_	_	_	_	_	264,663
386.1	MULTI-FAMILY METER ROOMS	901	_	(901)	_	_	_	_	_
387.1	CATHODIC PROTECTION TESTING	143,422	1,426	_	_	_	_	_	144,848
387.2	CALORIMETERS @ GATE STATIONS	96,424	_	_	_	_	_	_	96,424
387.3	METER TESTING EQUIPMENT	72,671	_						72,671
	Distribution Plant Subtotal*	1,077,552,079	62,513,364	(10,351,737)	(3,546,401)	94,180	_	_	1,126,261,485

Period Beginning: January 2019

								Period Ending:	December 201
unction	al Class	Beginning			Cost of	Salvage and	Transfers and	. enea Enang	Ending
FERC	Plant Account	Reserve	Provision	Retirements	Removal	Other Credits	Adjustments	Loss/(Gain)	Reserve*
JTILITY									
General	Plant								
389	LAND	437,351	_	_	_	_	_	_	437,3
390	STRUCTURES & IMPROVEMENTS	11,896,383	1,656,008	_	_	_	_	_	13,552,3
390.1	SOURCE CONTROL PLANT	5,182,577	425,895	_	_	_	_	_	5,608,4
391.1	OFFICE FURNITURE & EQUIPMEN	5,319,819	258,498	(70,550)	_	_	_	_	5,507,7
391.2	COMPUTERS	14,697,937	5,218,052	(2,853,153)	_	_	_	_	17,062,8
391.3	ON SITE BILLING	· · · –	· · · —	_	_	_	_	_	
391.4	CUSTOMER INFORMATION SYSTEM	_	_	_	_	_	_	_	
391.5	NMEP COMPUTERS	_	190,021	_	_	_	_	_	190,0
392	TRANSPORTATION EQUIPMENT	10,949,252	3,270,520	(2,256,423)	_	342,064	_	_	12,305,4
393	STORES EQUIPMENT	119,406	· · · –	_	_	_	_	_	119,4
394	TOOLS - SHOP & GARAGE EQUIPUI	5,006,571	440,671	_	_	20,484	_	_	5,467,7
395	LABORATORY EQUIPMENT	275	(10)	(277)	_	_	_	_	(
396	POWER OPERATED EQUIPMENT	2,640,665	423,622	(598,755)	_	202,211	_	_	2,667,7
397	GEN PLANT-COMMUNICATION EQU	47,025	8,056	(20,921)	_	_	_	_	34,1
397.1	MOBILE	(58,219)	274,291	_	_	_	_	_	216,0
397.2	OTHER THAN MOBILE & TELEMET	7,046	(17,469)	_	_	_	_	_	(10,4
397.3	TELEMETERING - OTHER	234,305	207,730	(1,731)	_	_	_	_	440,3
397.4	TELEMETERING - MICROWAVE	529,426	153,955	_	_	_	_	_	683,3
397.5	TELEPHONE EQUIPMENT	404,034	33,486	_	_	_	_	_	437,5
398	GEN PLANT-MISCELLANEOUS EQU	_	_	_	_	_	_	_	
398.1	PRINT SHOP	4,277	(494)	_	_	_	_	_	3,7
398.2	KITCHEN EQUIPMENT	4,771	1,178	_	_	_	_	_	5,9
398.3	JANITORIAL EQUIPMENT	14,873	_	_	_	_	_	_	14,8
398.4	INSTALLED IN LEASED BUILDINGS	10,120	_	_	_	_	_	_	10,1
398.5	OTHER MISCELLANEOUS EQUIPMENT	66,739	_	_	_	_	_	_	66,7
	General Plant Subtotal*	57,514,633	12,544,007	(5,801,809)	_	564,759	_	_	64,821,5
	Utility Property Grand Total*	1,388,303,877	93,097,549	(16,685,549)	(3,546,401	658,940	463,610		1,462,292,0

								Period Beginning: Period Ending:	January 2019
Functional C	lass	Beginning			Cost of	Salvage and	Transfers and	Penda Enaling.	Ending
FERC Plan	t Account	Reserve	Provision	Retirements	Removal	-	Adjustments	Loss/(Gain)	Reserve*
NON UTILITY							,		
Intongible Di	ont								
Intangible Pla									
303.1	COMPUTER SOFWARE	60,047	11,076	_	_	—	_	—	71,122
303.2	CUSTOMER INFORMATION SYSTEM	50,067	6						50,073
Non Utility	Intangible Plant Subtotal*	110,114	11,277	_	_	_	—	—	121,195
Natural Gas	Underground Storage								
352	WELLS	4,284,446	254,782	_	_	_	—	—	4,539,228
352.1	STORAGE LEASEHOLD & RIGHTS	240	17	_	_	_	—	—	257
352.2	RESERVOIRS	944,631	61,614	_	_		—	—	1,006,245
353	LINES	426,042	48,143	_	_	_	—	—	474,185
354	COMPRESSOR STATION EQUIPMENT	4,826,034	254,552	_	_	_	(463,610)	_	4,616,976
355	MEASURING / REGULATING EQUIPM	2,313,703	195,876	(181,462)) —	_	_	_	2,328,117
357	OTHER EQUIPMENT	13,029	1,373	_	_	_	_	_	14,401
Non Utility	Natural Gas Underground Storage Subtotal*	12,808,125	816,357	(181,462)) —	—	(463,610)	—	12,979,409
Transmission	n Plant								
368	TRANSMISSION COMPRESSOR	2,552,384	166,054	_	_	_	_	_	2,718,438
Non Utility	Transmission Plant Subtotal*	2,552,384	166,054	_	_	_	_		2,718,438
Distribution I	Plant								
376.12	MAINS 4" & >	256.847	8,164	(263,642)		_	_	_	1,369
	Distribution Plant Subtotal*	256,847	8,164	(263,642)		_	—	_	1,369
General Plan	t								
389	LAND	_	_	_	_	_	_	_	
390	STRUCTURES & IMPROVEMENTS	38,856	5,432	_	_	_	_	_	44,288
	General Plant Subtotal*	38,856	5,432		_		_	_	44,288
Non Utility O	ther								
121.1	NON-UTIL PROP-DOCK	1,947,067	_	_	_	_	_	_	1,947,067
121.2	NON-UTIL PROP-LAND		_	_	_	_	_	_	
121.3	NON-UTIL PROP-OIL ST	2,257,443	19,713	_	_	_	_	_	2,277,156
121.7	NON-UTIL PROP-APPL CENTER	42,939	4,383	_	_	_	_	_	47,322
121.8	NON-UTIL PROP-STORAGE	(1)		_	_	_	_	_	(1
Non Utility		4,247,448	24,096		_		_	_	4,271,543
	Non Utility Property Grand Total*	20,013,772	1,031,184	(445,103)	<u> </u>		(463,610)		20,136,243
	Non Ounty Property Grand Total"	20,013,772	1,031,104	(445,105			(403,010)		20,130,243

Period Beginning:

January 2019

								Period Ending:	December 201
unctional	Class	Beginning			Cost of	Salvage and	Transfers and		Ending
FERC Pla	int Account	Reserve	Provision	Retirements	Removal	Other Credits	Adjustments	Loss/(Gain)	Reserve*
TOTAL SI	UMMARY ALL UTILITY DEPRECIATION	RESERVES	12/31/2019						
UTILITY									
108002		(9,803,943)							
108003		16,266							
108004		650,566							
108005		(44,150)							
108009		(1,448,284)							
108010		(52,097,191)							
108011		1,108,303,563							
108012		16,016,346							
108013		(3,734,626)							
108014		(1,031,079)							
108015		3,055,683							
108016		1,989,764							
108100		_							
108102		399,974,537							
108103		444,574 _							
	SUBTOTAL*	-	1,462,292,026						
ADD:									
108001	REMOVAL WORK IN PROCESS		(41,306,642)						
108600	ROU UTIL LEAS ACC DE		4,444,480						
108601	FIN UTIL LEA ACC DEP		6,087						
108666	COST OF REMOVAL		24,611						
	TOTAL UTILITY DEPRECIATION*	-	1,425,460,561						

TOTAL SUMMARY ALL NON-UTILITY RESERVES DEPRECIATION

NON UTIL	ITY		
122002		(100,635)	
122026		1,034	
122027		4,395,349	
122028		14,838,808	
122029		(531,316)	
122100		_	
122102		1,410,532	
	TOTAL NON UTILITY DEPRECIATION*	_	20,136,243

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

GAS STORED (ACCOUNTS 117.1, 117.2, 117.3, 117.4, 164.1, 164.2, AND 164.3)

1. If during the year adjustments were made to the stored gas inventory reported in columns (d), (f), (g) and (h) (such as to correct cumulative inaccuracies of gas measurements), explain in a footnote the reason for the adjustments, the Dth and dollar amount of adjustment, and account charged or credited.

2. Report in column (e) all encroachments during the year upon the volumes designated as base gas, column (b), and system balancing gas, column (c), and gas property recordable in the plant accounts.

3. State in a footnote the basis of segregation of inventory between current and noncurrent portions. Also, state in a footnote the method used to report storage (i.e., fixed asset method or inventory method).

Line	Description	Base Gas (Account 117.1 - 117.8)	System Balancing (Account)	Non Current (Account)	Account	Current Underground (Account 164.21 - 164.23)	LNG (Account 164.21 - 164.23)	LNG (Account 164.35, 164.36)	Total
No.	(a)	(b)	(C)	(d)	(e)	(f)	(g)	(h)	(i)
1	Balance at Beginning of Year	\$18,494,189	-	_	—	\$ 26,164,527	\$ 3,700,596		\$48,359,312
2	Gas Delivered to Storage	\$ —	_	_	_	\$ 27,221,947	\$ 1,842,526	_	\$ 29,064,473
3	Gas Withdrawn from Storage	\$ 17,136	_	_	—	\$ 25,088,782	\$ 2,829,136	—	\$ 27,935,054
4	Other Debits and Credits	\$ 6,932,490	_	_	_	\$ (3,544,148)	\$ —	_	\$ 3,388,342
5	Balance at End of Year	\$25,409,543	\$ —	\$ —	\$ —	\$ 24,753,544	\$ 2,713,986	\$ —	\$ 52,877,073
6	Dekatherms	9,071,743	—	—	—	11,387,056	1,255,228	—	21,714,027
7	Amount Per Dekatherm	\$ 2.80	\$ —	\$ —	\$ —	\$ 2.17	\$ 2.16	\$ —	\$ 2.44

Footnotes:

1. Independent engineering studies are the basis for separation between noncurrent and current inventory.

2. See Notes to Consolidated Financial Statements for method used to report inventories of gas in storage (page 122-A).

3. Engineering studies performed in 2019 resulted in reclass of working gas to long-term recoverable gas (FERC accounts 117) and non-utility property (FERC account 121). In addition, \$2.7 million of costs were reclassified from CWIP to long-term recoverable accounts when the Mist pool specifically serving one storage customer went into service. The amounts shown in Line 4 primarily relate to these transactions.

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2)		December 31, 2019

INVESTMENTS (Accounts 123, 124, 136)

1. Report below investments in Accounts 123, Investments in Associated Companies, 124, Other Investments, and 136, Temporary Cash Investments.

2. Provide a subheading for each account and list thereunder the information called for:

(a) Investment in Securities - List and describe each security owned, giving name of issuer, date acquired and date of maturity. For bonds, also give principal amount, date of issue, maturity, and interest rate. For capital stock (including capital stock of respondent reacquired under a definite plan for resale pursuant to authorization by the Board of Directors, and included in Account 124, Other Investments, state number of shares, class, and series of stock. Minor investments may be grouped by classes. Investments included in Account 136, Temporary Cash Investments, also may be grouped by classes.

(b) Investment Advances - Report separately for each person or company the amounts of loans or investment advances which are properly includable in Account 123. Include advances subject to current repayment in account 145 and 146. With respect to each advance, show whether the advance is a note or open account.

			Book Cost at Beginning of Year (If book cost is different from cost to respondent, give cost	
Line	Description of Investment	*	to respondent in a footnote and explain difference.)	Purchases or Additions During the Year
No.	(a)	(b)	(c)	(d)
1	Account 123 Investments in Associated Companies		None	None
2				
3	Account 124 Other Investments - Investment in Life Insurance (1)		49,921,908	1,346,581
4				—
5	Account 136 Temporary Cash Investments			
6	Marketable Securities		—	76,415,803
7	Oregon Low Income Gas Assistance (OLGA) Investment Account		903,905	5,273,810
8	Oregon Low Income Energy Efficiency (OLIEE) Investment Account		1,148,753	6,786,982
9	Smart Energy Environmental Program Investment Account		220,724	3,686,159
10	Total Account 136 Temporary Cash Investments		2,273,382	92,162,754
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2)		December 31, 2019

INVESTMENTS (Accounts 123, 124, 136) (continued)

List each note giving date of issuance, maturity date, and specifying whether note is a renewal. Designate any advances due from officers, directors, stockholders, or employees.

3. Designate with an asterisk in column (b) any securities, notes or accounts that were pledged, and in a footnote state the name of pledges and purpose of the pledge.

4. If Commission approval was required for any advance made or security acquired, designate such fact in a footnote and cite Commission, date of authorization, and case or docket number.

5. Report in column (h) interest and dividend revenues from investments including such revenues from securities disposed of during the year.

6. In column (i) report for each investment disposed of during the year the gain or loss represented by the difference between cost of the investment (or the other amount at which carried in the books of account if different from cost) and the selling price thereof, not including any dividend or interest adjustment includible in column (h).

	j ===::(:);				
		Book Cost at End of Year of Year			
Sales or Other Dispositions During Year	Principal Amount or No. of Shares at End of Year	(If book cost is different from cost to respondent, give cost to respondent in a footnote and explain difference.)	Revenues for Year	Gain or Loss from Investment Disposed of	Line
(e)	(f)	(g)	(h)	(i)	No.
					1
					2
1,431,540	49,836,949	49,836,949	_	249,675	3
					4
					5
76,415,803		—	140,803	-	6
5,225,240	952,475	952,475		_	7
6,214,305	1,721,430	1,721,430	_	_	8
3,592,753	314,130	314,130	_	_	9
91,448,101	2,988,035	2,988,035	140,803	_	10
					11
					12
					13
					14
					15
					16
					17
					18
					19
					20
					21
					22
					23
					24
					25
					26
					27
					28
					29
					30

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2)		December 31, 2019

INVESTMENT IN SUBSIDIARY COMPANIES (Account 123.1)

1. Report below investments in Accounts 123.1, Investments in Subsidiary Companies.

2. Provide a subheading for each company and list thereunder the information called for below. Sub-total by company and give a total in columns (e), (f), (g) and (h).

(a) Investment in Securities - List and describe each security owned. For bonds give also principal amount, date of issue, maturity, and interest rate.

(b) Investment Advances - Report separately the amounts of loans or investment advances which are subject to repayment, but which are not subject to current settlement. With respect to each advance show whether the advance is a note or open account. List each note giving date of issuance, maturity date, and specifying whether note is a renewal.

3. Report separately the equity in undistributed subsidiary earnings since acquisition. The total in column (e) should equal the amount entered for Account 418.1.

Line	Description of Investment	Date Acquired	Date of Maturity	Amount of Investment at Beginning of Year
No.	(a)	(b)	(C)	(d)
1	Northwest Energy Corporation - (Holding Company)	11/1/2001		105,582,148
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30	TOTAL Cost of Account 123.1		TOTAL	105,582,148

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

INVESTMENT IN SUBSIDIARY COMPANIES (Account 123.1) (Continued)

4. Designate in a footnote any securities, notes, or accounts that were pledged and purpose of pledge.

5. If commission approval was required for any advance made or security acquired, designate such fact in a footnote and give name of Commission, date of authorization, and case or docket number.

6. Report column (f) interest and dividend revenues from investments, including such revenues from securities disposed of during the year.

7. In column (h) report for each investment disposed of during the year, the gain or loss represented by the difference between cost of the investment (or the other amount at which carried in the books of account if different from cost) and the selling price thereof, not including interest adjustment includible in column (f).

8. Report on Line 40, column (a) the total cost of Account 123.1

Equity in Subsidiary Earnings for Year	Additional Investment for Year	Amount of Investment at End of Year	Gain or Loss from Investment Disposed of	Line
(e)	(f)	(g)	(h)	No.
(10,601,886)				1
				2
				3
				4
				5
				6
				7
				8
				9
				10
				11
				12
				13
				14
				15
				16
				17
				18
				19
				20
				21
				22
				23
				24
				25
				26
				27
				28
				29
(10,601,886)	(6,850,000)	88,130,262		30

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

Prepayments (acct 165), Extraordinary Property Losses (Acct 182.1), Unrecovered Plant and Regulatory Study Costs (Acct 182.2)

	PREPAYMENTS (Account 165)					
1. Re	1. Report below the particulars (details) on each prepayment.					
Line	Nature of Payment	Balance at End of Year (in dollars)				
No.	(a)	(b)				
1	Prepaid Taxes	12,053,470				
2	Prepaid Rents	471,217				
3	Prepaid Insurance	3,562,133				
4	Miscellaneous Prepayments	8,564,272				
5						
6						
7	TOTAL	24,651,092				

	EXTRAORDINARY PROPERTY LOSSES (Account 182.1)							
Line	Description of Extraordinary Loss [Include the date of loss, the date of Commission authorization to use Account 182.1 and period of amortization (mo, yr, to mo, yr)] Add rows as necessary to report all data.	Balance at Beginning of Year	Total amount of loss	Losses Recognized During Year	Written off During Year Account charged	Written off During Year Amount	Balance at End of Year	
No.	(a)	(b)	(c)	(d)	(e)	(f)	(g)	
8	None		_		_	_		
9								
10								
11								
12								
13								
14								
15								
16	Total						—	

	UNRECOVERED PLANT AND REGULATORY STUDY COSTS (Account 182.2)							
Line	Description of Unrecovered Plant and Regulatory Study Costs [Include in the description of costs,the date of Commission authorization to use Account 182.2 and period of amortization (mo, yr, to mo, yr)] Add rows as necessary to report all data. Number rows in sequence beginning with the next row number after the last row number used for extraordinary property losses.	Balance at Beginning of Year	Total amount of loss	Losses Recognized During Year	Written off During Year Account charged	Written off During Year Amount	Balance at End of Year	
No.	(a)	(b)	(c)	(d)	(e)	(f)	(g)	
17	None		—		—	—	—	
18								
19								
20								
21								
22								
23								
24								
25	Total						-	

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

OTHER REGULATORY ASSETS (ACCOUNT 182.3)

1. Report below the details called for concerning other regulatory assets which are created through the ratemaking actions of regulatory agencies (and not includable in other accounts).

2. For regulatory assets being amortized, show period of amortization in column (a).

3. Minor items (5% of the Balance at End of Year for account 182.3 or amounts less than \$250,000, whichever is less) may be grouped

4.Report separately any "Deferred Regulatory Commission Expenses" that are also reported on pages 350-351, Regulatory Commission Expenses.

	Description and Purpose of Other	Balance at		Written off During Period Account	Written off During Period Amount	Written off During Period Amount Deemed	Balance at
Line	Description and Purpose of Other Regulatory Assets	Beginning of Year	Debit (Credit)	charged	Recovered	Unrecoverable	End of Year
No.	(a)	(b)	(C)	(d)	(e)	(f)	(g)
1	Deferred Income Taxes - Utility Plant	19,056,959		283	2,208,426	_	16,848,533
2	AFUDC Equity Deferred Taxes	2,345,213	236,557	283	48,619	—	2,533,151
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29		04 400 4 - 7	000 5				10.001.00
30	Total	21,402,172	236,557		2,257,045	—	19,381,684

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

MISCELLANEOUS DEFERRED DEBITS (Account 186)

1. Report below the details called for concerning miscellaneous deferred debits.

2. For any deferred debit being amortized, show period of amortization in column (a).

3. Minor items (less than \$250,000) may be grouped by classes.

U . IVIII	ion items (less than \$250,000) may be grouped by classes.	1		Crodite		
Line	Description of Miscellaneous Deferred Debits	Balance at Beginning of Year	Debits	Credits Account Charged	Credits Amount	Balance at End of Year
No.	(a)	(b)	(C)	(d)	(e)	(f)
1	Pension and Other Retirement Benefits	174,993,333	12,332,373	(4)	14,063,715	173,261,991
2	Pension Deferral	80,838,165	51,246,837		76,702,861	55,382,141
3	Environmental - Accrued Future Liability	128,747,305	91,522,870		84,248,303	136,021,872
4	Environmental - Deferred Expenditures and 3rd Party Proceeds	(46,997,644)	9,999,301		6,637,719	(43,636,062
5	Deferred Derivative Activity	15,406,000	20,819,418		33,617,000	2,608,418
6	Leasehold Improvements Amortized Over Remaining Life	7,107,152	34,588,187		10,267,388	31,427,951
7	Unbilled Revenue - Amortizations	128,377	3,319,214		5,375,742	(1,928,151
8	OR - Decoupling	9,439,326	15,237,589		33,917,742	(9,240,827
9	OR - Deferred Industrial DSM	5,783,659	6,257,621		7,878,917	4,162,363
10	OR - Warm	1,193,325	2,386,709		4,133,311	(553,277
11	OR - Pension Withdrawal	6,107,907	11,182		317,628	5,801,461
12	WA - Pension Withdrawal	705,151	1,290		36,669	669,772
13	WA - Energy Efficiency	4,781,928	9,926,390		9,976,502	4,731,816
14	WA - Low Income	348,041	587,835		653,991	281,885
15	Other	806,743	5,549,394		5,656,643	699,494
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30	Total	389,388,768	263,786,210		293,484,131	359,690,847

Blank Page

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2)		December 31, 2019

Accumulated Deferred Income Taxes (Account 190)

1. Report the information called for below concerning the respondent's accounting for deferred income taxes.

2. At Other (specify), include deferrals relating to other income and deductions.

3. Provide in a footnote a summary of the type and amount of deferred income taxes reported in the beginning-of-year and end-of-year balances for deferred income taxes that the respondent estimates could be included in the development of jurisdictional recourse rates.

			Changes During Year	Changes During Year
Line	Account Subdivisions	Balance at Beginning of Year	Amounts Debited to Account 410.1	Amounts Credited to Account 411.1
No.	(a)	(b)	(C)	(d)
1	Account 190			
2	Electric			
3	Gas	-	—	—
4				
5	Total (Total of lines 2 thru 4)	-	—	—
6				
7	TOTAL Account 190 (Total of lines 5 thru 6)	-	—	—
8	Classification of TOTAL			
9	Federal Income Tax	_	_	_
10	State Income Tax	_	_	
11	Local Income Tax	-	_	_

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

Accumulated Deferred Income Taxes (Account 190) (Continued)

Changes During Year Amounts Debited	Changes During Year Amounts Credited to	Adjustments Debits	Adjustments Debits	Adjustments Credits	Adjustments Credits	Balance at	
to Account 410.2	Account 411.2	Account No.	Amount	Account No.	Amount	End of Year	Line
(e)	(f)	(g)	(h)	(i)	(j)	(k)	No.
							1
							2
	—	_					3
							4
_	—	_	_	_	_	_	5
							6
_	—	_	_	—	—	_	7
							8
-	—	—		_	-	_	9
	_				_	_	10
	—	_	_	_	_	_	11

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	CAPITAL STOCK (Account 201 and 204)					
1. Rep Show	1. Report below the detail called for concerning common and preferred stock at end of year, distinguishing separate series of any general class. Show separate totals for common and preferred stock.					
	2. Entries in column (b) should represent the number of shares authorized by the articles of incorporation as amended to end of year.					
	e details concerning shares of any class and series of stock authorize			-		
	issued.					
		Number of Shares	Par of Stated Value	Call Price at		
Line	Class and Series of Stock and Name of Stock Exchange	Authorized by Charter	per Share	End of Year		
No.	(a)	(b)	(C)	(d)		
1	Common Stock	100,000,000	N/A			
2	Preferred Stock (unissued and undesignated)	3,500,000	N/A			
3	Limited Voting Junior Preferred Stock ⁽¹⁾	1	1			
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
(1) NV GSS F	V Natural has authorized, issued and outstanding, one share of Limite loldings (NWN), Inc. As specified in OPUC Order 17-526, NW Natura	ed Voting Preferred Stock (Go al is not entitled to file a volun	olden Share), \$1 par valu tarv petition for bankrupt	ue, held by		

(1) NW Natural has authorized, issued and outstanding, one share of Limited Voting Preferred Stock (Golden Share), \$1 par value, held by GSS Holdings (NWN), Inc. As specified in OPUC Order 17-526, NW Natural is not entitled to file a voluntary petition for bankruptcy unless approved by the holder of the Golden Share, which must be an independent party. Except as provided in NW Natural's Amended and Restated Articles of Incorporation or as otherwise provided by law, the holder of the Junior Preferred Stock has no voting rights for any other purpose. The Golden Share is not entitled to receive or participate in dividends. The Golden Share is entitled in preference to the Common Stock, upon dissolution, liquidation or winding up of the Company, to payment of up to \$100 out of the net assets of the Company, and may be redeemed by the Company, at its election expressed by resolution of the Board of Directors and subject to the consent of the Commission, for \$100.

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

CAPITAL STOCK (Accounts 201 and 204) (Continued)						
4. The identification of each class of preferred stock should show the dividend rate and whether the dividends are cumulative or noncumulative.						
5. State in a footnote if any capital stock which has been nominally issued is nominally outstanding at end of year.						
6. Give particulars (details) in column pledged, stating name of pledgee and	(a) of any nomina purpose of pledge	lly issued capital sto	ock, reacquired stock	k, or stock in sinking	and other funds wh	ich is
Outstanding per Bal. Sheet (total amount outstanding without reduction for amts held by respondent)	Outstanding Per Bal. Sheet	Held by Respondent as Reacquired Stock (Acct 217)	Held by Respondent as Reacquired Stock (Acct 217)	Held by Respondent in Sinking and Other Funds	Held by Respondent in Sinking and Other Funds	
Shares	Amount	Shares	Cost	Shares	Amount	Line
(e)	(f)	(g)	(h)	(i)	(j)	No.
100	228,868,408					1
-	_					2
1	1					3
						4
						5
						6
						7
						8
						9
						10
						11
						12
						13
						14
						15
						16
						17
						18
						19
						20
						21
						22
						23
						24
						25
						26
						27
						28
						29
						30

Name of Respondent	me of Respondent This Report is:		Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

CAPITAL STOCK SUBSCRIBED, CAPITAL STOCK LIABILITY FOR CONVERSION, PREMIUM ON CAPITAL STOCK, AND INSTALLMENTS RECEIVED ON CAPITAL STOCK (Accounts 202, 203, 205, 206, 207 and 212)

1. Show for each of the above accounts the amounts applying to each class and series of capital stock.

2. For Account 202, Common Stock Subscribed, and Account 205, Preferred Stock Subscribed, show the subscription price and the balance due on each class at the end of year.

3. Describe in a footnote the agreement and transactions under which a conversion liability existed under Account 203, Common Stock Liability for Conversion, or Account 206, Preferred Stock Liability for Conversion, at the end of the year.

4. For Premium on Account 207, Capital Stock, designate with an asterisk any amounts representing the excess of consideration received over stated values of stocks without par value.

Line	Name of Account and Description of Item	*	Number of Shares	Amount
No.	(a)	(b)	(C)	(d)
1	Account 202 - Common Stock Subscribed			None
2	Account 205 - Preferred Stock Subscribed			None
3	Account 203 and 206 - Capital Stock Liability for Conversion			None
4	Account 207 - Premium on Capital Stock:			None
5	Account 212 - Installments Received on Capital Stock			_
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30	Total			_

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2)		December 31, 2019

OTHER PAID IN CAPITAL (Accounts 208 - 211)

1. Report below the balance at the end of the year and the information specified below for the respective other paid-in capital accounts. Provide a subheading for each account and show a total for the account, as well as total of all accounts for reconciliation with balance sheet, page 112. Explain changes made in any account during the year and give the accounting entries effecting such change.

a) Donations Received from Stockholders (Account 208) - State amount and give briefly explain the origin and purpose of each donation.

(b) Reduction in Par or Stated Value of Capital Stock (Account 209) - State amount and give briefly explain the capital changes that gave rise to amounts reported under this caption including identification with the class and series of stock to which related.

(c) Gain on Resale or Cancellation of Reacquired Capital Stock (Account 210) - Report balance at beginning of year, credits, debits, and balance at end of year with a designation of the nature of each credit and debit identified by the class and series of stock to which related.

(d) Miscellaneous Paid-In Capital (Account 211) - Classify amounts included in this account according to captions that, together with brief explanations, disclose the general nature of the transactions which gave rise to the reported amounts.

Line	Item	Amount
No.	(a)	(b)
1	Account 208 - Donations Received from Stockholders	NONE
2	Account 209 - Reduction in Par or Stated Value of Capital Stock	NONE
3	Account 210 - Gain on Resale or Cancellation of Reacquired Capital Stock	
4	Balance At Beginning of Year	1,649,864
5	Credit:	_
6	Debit:	_
7	Balance at End of Year	1,649,864
8	Account 211 - Miscellaneous Paid-In Capital	
9	Equity Contribution from Parent, NW Natural Holding Company	93,156,971
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30	Total	94,806,835

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	DISCOUNT ON CAPITAL STOCK (ACCOUNT 213)	
report	port the balance at end of year of discount on capital stock for each class and series of capital stock. Use as mar all data.	
If a chang	ny change occurred during the year in the balance with respect to any class or series of stock, attach a statement e. State the reason for any charge-off during the year and specify the account charged.	t giving details of the
Line	Class and Series of Stock	Balance at End of Year
No.	(a)	(b)
1	N/A	_
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
	TOTAL	
	CAPITAL STOCK EXPENSE (ACCOUNT 214)	
1. Re report	port the balance at end of year of capital stock expenses for each class and series of capital stock. Use as many all data. Number the rows in sequence starting from the last row number used for Discount on Capital Stock abo	rows as necessary to ve.
2. If a chang	ny change occurred during the year in the balance with respect to any class or series of stock, attach a statement e. State the reason for any charge-off of capital stock expense and specify the account charged.	t giving details of the
Line	Class and Series of Stock	Balance at End of Year
No.	(a)	(b)
15	Capital Stock Expense (Note 1)	4,118,163
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

TOTAL

Note 1: Capital Stock Expense balance is associated with common stock issuances that occurred prior to the holding company reorganization that became effective October 1, 2018.

4,118,163

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

SECURITIES ISSUED OR ASSUMED AND SECURITIES REFUNDED OR RETIRED DURING THE YEAR

1. Furnish a supplemental statement briefly describing security financing and refinancing transactions during the year and the accounting for the securities, discounts, premiums, expenses, and related gains or losses.

2. Provide details showing the full accounting for the total principal amounts, par value, or stated value of each class and series of security issued, assumed, retired, or refunded and the accounting for premiums, discounts, expenses, and gains or losses relating to the securities. Set forth the facts of the accounting clearly with regard to redemption premiums, unamortized discounts, expenses, and gain or losses relating to securities retired or refunded, including the accounting for such amounts carried in the respondent's accounts at the date of the refunding or refinancing transactions with respect to securities previously refunded or retired.

3. Include in the identification of each class and series of security, as appropriate, the interest or dividend rate, nominal date of issuance, maturity date, aggregate principal amount, par value or stated value, and number of shares. Give also the issuance of redemption price and name of the principal underwriting firm through which the security transactions were consummated.

4. Where the accounting for amounts relating to securities refunded or retired is other than that specified in General Instruction 17 of the Uniform System of Accounts, cite the Commission authorization for the different accounting and state the accounting method.

5. For securities assumed, give the name of the company for which the liability on the securities was assumed as well as details of the transactions whereby the respondent undertook to pay obligations of another company. If any unamortized discount, premiums, expenses, and gains or losses were taken over onto the respondent's books, furnish details of these amounts with amounts relating to refunded securities clearly earmarked.

Class of Security	Underwriter of Payee	Date	Stated or Par Value per Share	Number of Shares	Principal Amount or Par Value	
Debt Securities Issued (1)						
Secured Medium Term Notes		6/17/2019			140,000,000	
			Total Debt Issued		140,000,000	
Debt Securities Retired (1)						
Secured Medium Term Notes		9/21/2019			10,000,000	
Secured Medium Term Notes		12/9/2019			20,000,000	
			Total Debt Retired		30,000,000	
Common Stock						
NONE						
Note 1: See pages 256-259 for details regarding NW Natural's debt issuances and retirements.						

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2)		December 31, 2019

LONG-TERM DEBT (Account 221, 222, 223, and 224)

1. Report by Balance Sheet Account the details concerning long-term debt included in Account 221, Bonds, 222, Reacquired Bonds, 223, Advances from Associated Companies, and 224, Other Long-Term Debt.

2. For bonds assumed by the respondent, include in column (a) the name of the issuing company as well as a description of the bonds.

3. For advances from Associated Companies, report separately advances on notes and advances on open accounts. Designate demand notes as such. Include in column (a) names of associated companies from which advances were received.

4. For receivers' certificates, show in column (a) the name of the court and date of court order under which such certificates were issued.

Line	Class and Series of Oblig Exch		Nominal Date of Issue	Date of Maturity	Outstanding (Total amount outstanding without reduction for amounts held by respondent)
No.	(8	a)	(b)	(c)	(d)
1	Account 221				
2	First Mortgage Bonds				
3					
4	8.310%	Series B	9/21/1994	9/21/2019	
5	7.630%	Series B	12/9/1999	12/9/2019	_
6	5.370%	Series B	3/25/2009	2/1/2020	75,000,000
7	9.050%	Series A	8/13/1991	8/13/2021	10,000,000
8	3.176%	Series B	9/12/2011	9/15/2021	50,000,000
9	3.542%	Series B	8/19/2013	8/19/2023	50,000,000
10	5.620%	Series B	11/21/2003	11/21/2023	40,000,000
11	7.720%	Series B	9/6/2000	9/1/2025	20,000,000
12	6.520%	Series B	12/1/1995	12/1/2025	10,000,000
13	7.050%	Series B	10/15/1996	10/15/2026	20,000,000
14	3.211%	Series B	12/5/2016	12/5/2026	35,000,000
15	7.000%	Series B	5/20/1997	5/21/2027	20,000,000
16	2.822%	Series B	9/13/2017	9/13/2027	25,000,000
17	6.650%	Series B	11/10/1997	11/10/2027	19,700,000
18	6.650%	Series B	6/1/1998	6/1/2028	10,000,000
19	3.141%	Series B	6/17/2019	6/15/2029	50,000,000
20	7.740%	Series B	8/29/2000	8/29/2030	20,000,000
21	7.850%	Series B	9/6/2000	9/1/2030	10,000,000
22	5.820%	Series B	9/24/2002	9/24/2032	30,000,000
23	5.660%	Series B	2/25/2003	2/25/2033	40,000,000
24	5.250%	Series B	6/21/2005	6/21/2035	10,000,000
25	4.000%	Series B	10/30/2012	10/31/2042	50,000,000
26	4.136%	Series B	12/5/2016	12/5/2046	40,000,000
27	3.685%	Series B	9/13/2017	9/13/2047	75,000,000
28	4.110%	Series B	9/10/2018	9/10/2048	50,000,000
29	3.869%	Series B	6/17/2019	6/15/2049	90,000,000
30			Total	First Mortgage Bonds	849,700,000
31	Account 239				
32	Less: Debt due within on	e year			(75,000,000
33	Accounts 222 and 223				
34	None				-
35	Account 224				
36	None				-
37					
38					
39 40	TOTAL				774,700,000

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

LONG-TERM DEBT (Accounts 221, 222, 223 and 224) (Continued)

5. In a supplemental statement, give explanatory details for Accounts 223 and 224 of net changes during the year. With respect to long-term advances, show for each company: (a) principal advanced during year, (b) interest added to principal amount, and (c) principal repaid during year. Give Commission authorization numbers and dates.

6. If the respondent has pledged any of its long-term debt securities, give particulars (details) in a footnote, including name of the pledgee and purpose of the pledge.

7. If the respondent has any long-term securities which have been nominally issued and are nominally outstanding at end of year, describe such securities in a footnote.

8. If interest expense was incurred during the year on any obligations retired or reacquired before end of year, include such interest expense in column (f). Explain in a footnote any difference between the total of column (f) and the total of Account 427, Interest on Long-Term Debt and Account 430, Interest on Debt to Associated Companies.

9. Give details concerning any long-term debt authorized by a regulatory commission but not yet issued.

Interest for Year	Interest for Year	Held by Respondent	Held by Respondent		1
Rate in (%)	Amount	Reacquired Bonds (Acct. 222)	Sinking and Other Funds	Redemption Price per \$100 at End of Year	Line
(e)	(f)	(g)	(h)	(i)	No.
(0)	(')	(9)	(1)	(1)	1
					2
					3
8.310%	600,167			N/A	4
7.630%	1,432,744			N/A	5
5.370%	4,027,500			N/A	6
9.050%	905,000			N/A	7
3.176%	1,588,000			N/A	8
3.542%	1,771,000			N/A	9
5.620%	2,248,000			N/A	10
7.720%				N/A N/A	_
6.520%	1,544,000 652,000			N/A N/A	11 12
					_
7.050%	1,410,000			N/A	13
3.211%	1,123,850			N/A	14
7.000%	1,400,000			N/A	15
2.822%	705,500			N/A	16
6.650%	1,310,050			N/A	17
6.650%	665,000			N/A	18
3.141%	841,186			N/A	19
7.740%	1,548,000			N/A	20
7.850%	785,000			N/A	21
5.820%	1,746,000			N/A	22
5.660%	2,264,000			N/A	23
5.250%	525,000			N/A	24
4.000%	2,000,000			N/A	25
4.136%	1,654,400			N/A	26
3.685%	2,763,750			N/A	27
4.110%	2,055,000			N/A	28
3.869%	1,876,200			N/A	29
	39,441,347				30
					31
	_				32
					33
					34
					35 36
	_				36
					37
					39
I	39,441,347				40

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

UNAMORTIZED DEBT EXPENSE, PREMIUM AND DISCOUNT ON LONG-TERM DEBT (Accounts 181, 225, 226)

1. Report under separate subheadings for Unamortized Debt Expense, Unamortized Premium on Long-Term Debt and Unamortized Discount on Long-Term Debt, details of expense, premium or discount applicable to each class and series of long-term debt.

2. Show premium amounts by enclosing figures in parentheses.

3. In column (b) show the principal amount of bonds or other long-term debt originally issued.

4. In column (c) show the expense, premium or discount with respect to the amount of bonds or other long-term debt originally issued.

				<u> </u>	<u> </u>
		Principal Amount of	Total Expense	Amortization Period	Amortization Period
Line	Designation of Long-Term Debt	Debt Issued	Premium or Discount	Date From	Date to
No.	(a)	(b)	(C)	(d)	(e)
1	Account 181				
2					
3	8.310% ⁽¹⁾	10,000,000	—	9/21/1994	9/21/2019
4	7.630%	20,000,000	—	12/9/1999	12/9/2019
5	5.370% ⁽⁶⁾	75,000,000	10,862,808	3/25/2009	2/1/2020
6	9.050%	10,000,000	115,333	8/13/1991	8/13/2021
7	3.176%	50,000,000	605,155	9/12/2011	9/15/2021
8	3.542%	50,000,000	638,179	8/19/2013	8/19/2023
9	5.620% ⁽⁵⁾	40,000,000	3,325,438	11/21/2003	11/21/2023
10	7.720% ⁽³⁾	20,000,000	1,286,261	9/6/2000	9/1/2025
11	6.520%	10,000,000	90,146	12/1/1995	12/1/2025
12	7.050%	20,000,000	175,940	10/15/1996	10/15/2026
13	3.211%	35,000,000	506,753	12/5/2016	12/5/2026
14	7.000%	20,000,000	153,906	5/20/1997	5/21/2027
15	2.822%	25,000,000	309,885	9/13/2017	9/13/2027
16	6.650% ⁽⁷⁾	19,700,000	162,800	11/10/1997	11/10/2027
17	6.650%	10,000,000	98,300	6/1/1998	6/1/2028
18	3.141%	50,000,000	567,752	6/17/2019	6/15/2029
19	7.740% ⁽²⁾	20,000,000	1,504,914	8/29/2000	8/29/2030
20	7.850% ⁽⁴⁾	10,000,000	753,107	9/6/2000	9/1/2030
21	5.820%	30,000,000	390,382	9/24/2002	9/24/2032
22	5.660%	40,000,000	356,663	2/25/2003	2/25/2033
23	5.250%	10,000,000	97,974	6/21/2005	6/21/2035
24	4.000%	50,000,000	535,479	10/30/2012	10/31/2042
25	4.136%	40,000,000	607,712	12/5/2016	12/5/2046
26	3.685%	75,000,000	930,446	9/13/2017	9/13/2047
27	4.110%	50,000,000	299,695	9/10/2018	9/10/2048
28	3.869%	90,000,000	1,090,358	6/17/2019	6/15/2049
29	Shelf Registration Expense	—	—	N/A	N/A
30	Line of Credit	_	—	N/A	N/A
31	Accounts 225 and 226				
32	None	_	—	N/A	N/A
33	TOTAL	879,700,000	25,465,386		

1) Includes premium and umamortized cost on early redemption of 9.8% series bonds (\$1,044,111 allocated to the 8.31% series, and \$835,723 allcoated to the 8.26% series).

2) Includes \$992,143 premium, \$178,966 unamortized costs on early redemption of 9.75% series bonds, and \$148,605 unamortized costs on early redemption of 15.375% series bonds allocated to the 7.74% series.

3) Includes \$826,786 premium, \$149,139 unamortized costs on early redemption of 9.75% series bonds, and \$123,837 unamortized costs on early redemption of 15.375% series bonds allocated to the 7.72% series.

4) Includes \$496,071 premium, \$89,483 unamortized costs on early redemption of 9.75% series bonds, and \$74,302 unamortized costs on early redemption of 15.375% series bonds allocated to the 7.85% series.

5) Includes \$150,000 premium and \$405,971 unamortized costs on early redemption of 7.50% series bonds, \$413,600 premium and \$1,116,479 unamortized costs on early redemption of 7.52% series bonds and \$730,000 premium and \$136,800 unamortized costs on early redemption of 7.25% series bonds allocated to 5.62% series.

6) Includes \$10,096,000 costs paid on interest rate hedge loss and \$298,058 unamortized costs on shelf registration, allocated to 5.37% series.

7) In November 2009 one investor exercised its right under a one-time put option to redeem \$0.3 million of the \$20 million outstanding. This one-time put option has now expired, and the remaining \$19.7 million remaining principal outstanding is expected to be redeemed at maturity in November 2027.

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

UNAMORTIZED DEBT EXPENSE, PREMIUM AND DISCOUNT ON LONG-TERM DEBT (Accounts 181, 225, 226) (Continued)

5. Furnish in a footnote details regarding the treatment of unamortized debt expense, premium or discount associated with issues redeemed during the year. Also, give in a footnote the date of the Commission's authorization of treatment other than as specified by the Uniform System of Accounts.

6. Identify separately undisposed amounts applicable to issues which were redeemed in prior years.

7. Explain any debits and credits other than amortization debited to Account 428, Amortization of Debt Discount and Expense, or credited to Account 429, Amortization of Premium on Debt - Credit.

Lin	Balance at End of Year	Credits During the Year	Debits during the Year	Balance at Beginning of Year
No	(i)	(h)	(g)	(f)
1				
2				
3	—	1,950	—	1,950
4	—	9,007	—	9,007
5	93,474	1,086,096	—	1,179,570
6	6,144	3,792	—	9,936
7	101,943	59,700	—	161,643
8	231,916	63,792	—	295,708
ę	72,816	18,720	—	91,536
1	42,296	7,464	—	49,760
1	17,750	3,000	—	20,750
1	39,853	5,868	—	45,721
1	351,221	50,698	—	401,919
1	38,076	5,148	—	43,224
1	239,061	31,044	—	270,105
1	42,504	5,412	—	47,916
1	27,573	3,276	—	30,849
1	537,887	30,378	568,265	
1	65,326	6,132	—	71,458
2	33,152	3,108	—	36,260
2	165,989	13,032	—	179,021
2	156,562	11,904	—	168,466
2	50,336	3,252	—	53,588
2	407,438	17,844	—	425,282
2	545,559	20,256	—	565,815
2	860,747	31,068	—	891,815
2	299,439	10,428	—	309,867
2	1,071,722	19,149	1,090,871	—
2	213,654	139,873	137,523	216,004
3	1,018,773	270,489	6,948	1,282,314
3				
3	—	_	—	—
3	6,731,211	1,931,880	1,803,607	6,859,484
		1,931,880	Total above	
		(139,873)	ess Shelf Registration Expense	L
		(270,489)	C amortized to interest expense	
		1,521,518	tization Expense per FERC 428	

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

UNAMORTIZED LOSS AND GAIN ON REACQUIRED DEBT (Accounts 189, 257)

1. Report under separate subheadings for Unamortized Loss and Unamortized Gain on Reacquired Debt, details of gain and loss, including maturity date, on reacquisition applicable to each class and series of long-term debt. If gain or loss resulted from a refunding transaction, include also the maturity date of the new issue.

2. In column (c) show the principal amount of bonds or other long-term debt reacquired.

3. In column (d) show the net gain or net loss realized on each debt reacquisition as computed in accordance with General Instruction 17 of the Uniform System of Accounts.

4. Show loss amounts by enclosing the figures in parentheses.

5. Explain in a footnote any debits and credits other than amortization debited to Account 428.1, Amortization of Loss on Reacquired Debt or credited to Account 429.1, Amortization of Gain on Reacquired Debt-Credit.

Line	Designation of Long-Term Debt	Date Reacquired	Reacquired	Net Gain or Loss	Beginning of Year	Year
No.	(a)	(b)	(C)	(d)	(e)	(f)
1	Account 189					
2	First Mortgage Bonds					
3	9.8%	11/1/1993	24,938,000	(2,170,710)	31,320	_
4	9.75% ⁽¹⁾	9/29/2000	50,000,000	(3,079,332)	1,063,140	953,160
5	7.52% ⁽²⁾	7/1/2003	11,000,000	(1,530,079)	369,750	293,250
6	7.50% ⁽³⁾	7/1/2003	4,000,000	(555,971)	134,386	106,582
7	7.25%	8/18/2003	20,000,000	(866,800)	209,496	166,152
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30	TOTAL				1,808,092	1,519,144
	TOTAL cludes \$2,732,588 loss on debt re	acquired in 2000 and	1 \$346,744 unamortize	ed loss allocated from		

(3) Includes \$177,360 loss on debt reacquired in 2003 and \$378,611 unamortized loss allocated from the 9.38% Bonds.

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

REC	CONCILIATION OF REPORTED NET INCOME WITH TAXABLE	INCOME FOR FEDERAL INCOME TAXES
1. Rep	ort the reconciliation of reported net income for the year with taxable income used	in computing federal income tax accruals
2. If th	e utility is a member of a group that files a consolidated federal tax return, reconcil ate return were to be filed, indicating, however, intercompany amounts to be elimin	e reported net income with taxable net income as if a
Line	Details	Amount
No.	(a)	(b)
1	Net Income For The Year Per (Page 116)	64,970,535
2	Reconciling Items for the Year	
3	Taxable Income Not Reported on Books	
4	Contributions In Aid Of Construction	7,747,423
5	TOTAL	7,747,423
6	Deductions Recorded On Books Not Deducted for Return	
7	Accrued Vacation	262,208
8	SEC Regulatory Interest	4,003,713
9	Pension Adjustments	13,692,374
10	Deferred Compensation	344,926
11	Bond Redemption Loss Amortization	288,948
12	Pension - Deferred Directors Fees	350.629
13	Meals And Entertainment	708,740
14	Qualified Transportation Fringe Benefits	521,343
15	Employee Stock Purchase Plan	188.097
16	Capitalized Interest	2,549,756
17	Gas Reserves	16,117,382
18	Federal Tax Provision	6,377,484
19	State Tax Provision	5,359,863
20	TOTAL	50,765,463
20	Income Recorded on Books Not Included in Return	50,705,405
22	Equity Component Of AFUDC Capitalized For Book	(521,966
23	Regulatory Revenue & Cost Adjustments	(7,779,163
23	TOTAL	(8,301,129
25	Deductions on Return Not Charged Against Book Income	(0,001,120
26	Excess Of Tax Over Book Depreciation	(58,573,661
20	Bad Debt Reserve	(303,773
27	Depletion	(810,867
20	Stock Based Compensation	(2,851,932
30	Prepaid Insurance	(344,573
31	Property Tax Adjustment - Accrual To Cash	(336,448
31	Dividends Paid On Allocated Shares Held By An ESOP	(660,125
33	Removal Costs	(9,995,664
34	Uniform Inventory Capitalization Environmental	(1,290,031) (3,361,581)
35	Environmental Miscellaneous	· · · · · · · · · · · · · · · · · · ·
36		(2,862,976
37	Other Non-Utility Earnings	(7,781,237
38	TOTAL	(89,172,868
39	Federal Tax Net Income	26,009,424
40	Show Computation of Tax:	(4 600 100
41	State Tax	(1,596,168
42	Federal Tax Net Income, less state tax	24,413,256
43	Federal Tax @ 21%	5,126,784
44	Research and Development Credit	(93,260
45	Prior Years' True-Ups and Miscellaneous Adjustments	288,734
46	Total Federal Tax Expense	5,322,258

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗖 A Resubmission		December 31, 2019

TAXES ACCRUED, PREPAID AND CHARGED DURING YEAR, DISTRIBUTION OF TAXES CHARGED (Show utility dept where applicable and acct charged)

 Give details of the combined prepaid and accrued tax accounts and show the total taxes charged to operations and other accounts during the year. Do not include gasoline and other sales taxes which have been charged to the accounts to which the taxed material was charged. If the actual or estimated amounts of such taxes are known, show the amounts in a footnote and designate whether estimated or actual amounts.

2. Include on this page, taxes paid during the year and charged direct to final accounts, (not charged to prepaid or accrued taxes). Enter the amounts in both columns (d) and (e). The balancing of this page is not affected by the inclusion of these taxes.

3. Include in column (d) taxes charged during the year, taxes charged to operations and other accounts through (a) accruals credited to taxes accrued, (b) amounts credited to portion of prepaid taxes charged to current year, and (c) taxes paid and charged direct to operations or accounts other than accrued and prepaid tax accounts.

4. List the aggregate of each kind of tax in such manner that the total tax for each State and subdivision can readily be ascertained.

		Balance at Beg. of Year	Balance at Beg. of Year
		Taxes Accrued	Prepaid Taxes
Line	Kind of Tax	(Account 236)	(Incl. in Account 165)
No.	(a)	(b)	(C)
1	FEDERAL:		
2	Income Tax (2018)		(3,648,862)
3	Income Tax (2019)		
4	Payroll Tax (2018)	1,367,726	_
5	Payroll Tax (2019)		
6	Pipeline Safety User Fee (2019)		
7	TOTAL FEDERAL	1,367,726	(3,648,862)
8	STATE OF OREGON:		
9	Excise Tax (2018)	—	(1,282,207)
10	Excise Tax (2019)	—	_
11	Payroll Tax (2018)	178,093	_
12	Payroll Tax (2019)		_
13	Property Tax (2018-2019)	—	(11,822,407)
14	Property Tax (2019-2020)	—	—
15	Regulatory Commission Fee (2019)	—	—
16	Oregon Department of Energy (2019)	—	_
17	TOTAL OREGON	178,093	(13,104,614)
18	STATE OF CALIFORNIA:		
19	Income Tax (2018)	—	(107,181)
20	Income Tax (2019)	—	
21	TOTAL CALIFORNIA	—	(107,181)
22	STATE OF WASHINGTON:		
23	Excise Tax (2019)	_	_
24	Payroll Tax (2018)	130	
25	Payroll Tax (2019)	—	
26	Property Tax (2018)	1,752,843	_
27	Property Tax (2019)	—	_
28	Regulatory Commission Fee (2019)	_	_
29	Public Utility Tax (2018)	342,641	_
30	Public Utility Tax (2019)	_	_
31	TOTAL WASHINGTON	2,095,614	_
32	COUNTY & MUNICIPAL:		
33	Income Tax (2018)	(41,069)	
34	Income Tax (2019)		_
35	Franchise Fees	7,389,349	_
36	TOTAL COUNTY & MUNICIPAL	7,348,280	
37	TOTAL	10,989,713	(16,860,657)

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

TAXES ACCRUED, PREPAID AND CHARGED DURING YEAR, DISTRIBUTION OF TAXES CHARGED (Show utility dept where applicable and acct charged) (Continued)

5. If any tax (exclude Federal and State income taxes) covers more than one year, show the required information separately for each tax year, identifying the year in column (a).

6. Enter all adjustments of the accrued and prepaid tax accounts in column (f) and explain each adjustment in a footnote. Designate debit adjustments by parentheses.

7. Do not include on this page entries with respect to deferred income taxes or taxes collected through payroll

8. Show in columns (i) thru (p) how the taxed accounts were distributed. Show both the utility department and number of account charged. For taxes charged to utility plant, show the number of the appropriate balance sheet plant account or subaccount.

9. For any tax apportioned to more than one utility department or account, state in a footnote the basis (necessity) of apportioning such tax.

10. Items under \$250,000 may be grouped.

11. Report in column (q) the applicable effective state income tax rate

Taxes Charged During the Year (d)	Taxes Paid During the Year (e)	Adjustments (f)	Balance at End of Year Taxes Accrued (Account 236) (g)	Balance at End of Year Taxes Prepaid (Account 165) (h)	Line No.
					1
278,524	6,006,247	(2,635,909)	—		2
6,476,987	(8,045,404)	2,738,454	1,170,037		3
	(1,367,726)	—	—		4
8,679,623	(7,058,946)	—	1,620,677		5
222,198	(222,198)	—	—		6
15,657,332	(10,688,027)	102,545	2,790,714		7
					8
(12,801)	89,523	1,205,485	—		9
2,114,114	(529,596)	(1,445,766)	138,752		10
	(178,093)	—	—		11
1,508,724	(1,319,458)	—	189,266		12
11,874,074	(51,667)	—	—		13
12,047,934	(24,101,404)	—	—	12,053,470	14
1,674,302	(1,674,302)	—	—		15
718,859	(718,859)		—		16
29,925,206	(28,483,856)	(240,281)	328,018	12,053,470	17
					18
_	—	107,181	—		19
_	—	_	—		20
_	—	107,181	—		21
					22
121,794	(121,794)	_	—		23
—	(130)	_	—		24
4,896	(4,776)	_	120		25
(368,287)	(1,384,556)	—	—		26
1,647,458	—	—	1,647,458		27
127,627	(127,627)	—	—		28
	(342,641)	—	—		29
2,821,291	(2,422,169)	—	399,122		30
4,354,779	(4,403,693)	—	2,046,700		31
					32
(102,875)	—	143,944	—		33
86,879	—	(143,944)	(57,065)		34
15,134,571	(14,663,315)	—	7,860,605		35
15,118,575	(14,663,315)	_	7,803,540		36
65,055,892	(58,238,891)	(30,555)	12,968,972	12,053,470	37
Adjustments:		oany Transfer rest Expense Total	(30,741) 186 (30,555)		

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

TAXES ACCRUED, PREPAID AND CHARGED DURING YEAR, DISTRIBUTION OF TAXES CHARGED (Show utility dept where applicable and acct charged) (Continued)

1. Give details of the combined prepaid and accrued tax accounts and show the total taxes charged to operations and other accounts during the year. Do not include gasoline and other sales taxes which have been charged to the accounts to which the taxed material was charged. If the actual or estimated amounts of such taxes are known, show the amounts in a footnote and designate whether estimated or actual amounts.

2. Include on this page, taxes paid during the year and charged direct to final accounts, (not charged to prepaid or accrued taxes). Enter the amounts in both columns (d) and (e). The balancing of this page is not affected by the inclusion of these taxes.

3. Include in column (d) taxes charged during the year, taxes charged to operations and other accounts through (a) accruals credited to taxes accrued, (b) amounts credited to portion of prepaid taxes charged to current year, and (c) taxes paid and charged direct to operations or accounts other than accrued and prepaid tax accounts.

4. List the aggregate of each kind of tax in such manner that the total tax for each State and subdivision can readily be ascertained.

Line No.	Electric (Account 408.1, 409.1) (i)	Gas (Account 408.1, 409.1) (j)	Other Utility Dept. (Account 408.1, 409.1) (k)	Other Income and Deductions (Account 408.2, 409.2) (I)
1				(10.000)
2		290,529	—	(12,005)
3		5,031,729		1,445,258
4				
5		5,395,881		
6		222,198		
7		10,940,337		1,433,253
8 9	_	(9.545)	_	(4.256)
9 10		(8,545) 1,604,713		(4,256) 509,401
10		1,004,713		509,401
12		942,389		
12		10,230,791		405,687
13		10,832,691		338,900
14		1,674,302		338,900
16		718,859		
17		25,995,200		1,249,732
18				
19			_	
20				
21				
22				
23	_	38,437		
24	_			_
25	_	3,058		_
26	_	(368,287)		_
27	_	1,647,303		_
28	_	127,627		_
29	_			
30	—	2,821,291		—
31	_	4,269,429		—
32				
33	—	(10,015)		—
34	_	(41,540)	—	_
35	_	15,127,256	_	—
36	_	15,075,701	_	—
37	_	56,280,667	_	2,682,985

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

TAXES ACCRUED, PREPAID AND CHARGED DURING YEAR, DISTRIBUTION OF TAXES CHARGED (Show utility dept where applicable and acct charged) (Continued)

5. If any tax (exclude Federal and State income taxes) covers more than one year, show the required information separately for each tax year, identifying the year in column (a).

6. Enter all adjustments of the accrued and prepaid tax accounts in column (f) and explain each adjustment in a footnote. Designate debit adjustments by parentheses.

7. Do not include on this page entries with respect to deductions or otherwise pending transmittal of such taxes to the taxing authority.

8. Show in columns (i) thru (p) how the taxed accounts were distributed. Show both the utility department and number of account charged. For taxes charged to utility plant, show the number of the appropriate balance sheet plant account or subaccount.

9. For any tax apportioned to more than one utility department or account, state in a footnote the basis (necessity) of apportioning such tax.

10. Items under \$250,000 may be grouped.

Extraordinary Items (Account 409.3) (m)	Other Utility Opn. Income (Account 408.1, 409.1) (n)	Adjustment to Ret. Earnings (Account 439) (0)	Other (p)	State/Local Income Tax Rate (q)	Line No.
					1
	—	—			2
	—	_	_	_	3
	—				4
	—	_	3,283,742		5
		_	2 002 740		6 7
			3,283,742		8
		_	_		9
					10
	_	_			11
	_	_	566,335	_	12
	—	_	1,237,596		13
	—	_	876,343		14
—	—	_	—	—	15
	—	—	-		16
	—	_	2,680,274	_	17
—	—	—	_	—	18
	—	—			19
	—	_	_		20
		_			21
			00.057		22
			83,357		23
		_	1,838		24 25
			1,030		25
			155		20
					28
	_	_			29
_	_	_	_		30
		_	85,350		31
					32
	—	_	(92,860)	_	33
		—	128,419	—	34
			7,315	_	35
			42,874		36
	—	_	6,092,240	—	37

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	MISCELLANEOUS CURRENT AND ACCRUED LIABILITIES (Account 2	242)
1. De	scribe and report the amount of other current and accrued liabilities at the end of year.	•
2. Mir	or items (less than \$250,000) may be grouped under appropriate title.	
Line	Item	Balance at End of Year
No.	(a)	(b)
1	Environmental Liabilities - Current Portion	39,225,064
2	Public Purpose	5,040,857
3	OLGA Surcharge	1,289,147
4	Workers Compensation Claims - Current Portion	742,856
5	Smart Energy	563,495
6	Deferred Revenue - Appliance Center	452,399
7	Western States Pension - Current Portion	354,299
8	Other items, each less than \$250,000	30,547
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30	Total	47,698,664

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2)		December 31, 2019

	Other	Deferred Credits	(Account 253)			
1. Rep	port below the details called for concerning other					
	any deferred credit being amortized, show the p					
3. Min	or items (less than \$250,000) may be grouped b	oy classes				
Line	Description of OTher Deferred Credits	Balance at The Beginning of the Year	Debit Contra Account	Debit Amount	Credits	Balance at End of Year
No.	(a)	(b)	(C)	(d)	(e)	(f)
1	Western States Pension Plan	6,471,230	_	354,297	_	6,116,933
2	HQ Build-To-Suit Construction Cost	26,047,072	_	26,047,072	_	_
3	Other	167,729	_	296,673	128,944	—
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30	Total	32,686,031		26,698,042	128,944	6,116,933

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

ACCUMULATED DEFERRED INCOME TAXES - OTHER (Account 283)

1. Report the information called for below concerning respondent's accounting for deferred income taxes relating to amounts recorded in Account 283.

2. Fo	r Other (Specify), included deferrals related to other i	ncome and deductions.		
			Changes During Year	Changes During Year
Line	Account Subdivisions	Balance at Beginning of Year	Amounts Debited to Account 410.1	Amounts Credited to Account 411.1
No.	(a)	(b)	(C)	(d)
1	Account 283			
2	Electric	_	—	_
3	Gas	_	_	_
4	Property Related	294,754,565	32,046,295	14,888,111
5	Regulatory Assets	21,638,051	4,033,650	1,974,214
6	Regulatory Liabilities	(57,468,818)	3,746,508	12,661,265
7	Other	34,654,441	21,022,439	26,506,379
8	Total (Total of lines 3 thru 7)	293,578,239	60,848,892	56,029,969
9	Other - Non-Operating	8,396,177		
10	Other Comprehensive Income	(3,068,021)	—	_
11	TOTAL Account 283 (Total of lines 8 thru 10)	298,906,395	60,848,892	56,029,969
12	Classification of TOTAL			
13	Federal Income Tax	212,635,840	45,852,318	44,797,090
14	State Income Tax	86,270,555	14,996,574	11,232,879
15	Local Income Tax			

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

ACCUMULATED DEFERRED INCOME TAXES - OTHER (Account 283) (Continued)

3. Provide in a footnote a summary of the type and amount of deferred income taxes reported in the beginning-of-year and end-of-year balances for deferred income taxes that the respondent estimates could be included in the development of jurisdictional recourse rates.

Changes During Year	Changes During Year	Adjustments	Adjustments	Adjustments	Adjustments		
Amounts Debited to Account 410.2	Amounts Credited to Account 411.2	Debits Account No.	Debits Amount	Credits Account No.	Credits Amount	Balance at End of Year	Line
(e)	(f)	(g)	(h)	(i)	(j)	(k)	No.
							1
					—		2
					—		3
_	_	283	828,709		—	311,084,040	4
(1,441,568)		186, 283	2,020,492		_	20,235,427	5
_	_		_	254	12,124,589	(54,258,986)	6
	_		_	254, 283	5,664,468	34,834,969	7
(1,441,568)	_		2,849,201		17,789,057	311,895,450	8
385,680	(2,935)	283	249,741		—	8,535,051	9
_	—	218	784,645		—	(3,852,666)	10
(1,055,888)	(2,935)		3,883,587		17,789,057	316,577,835	11
			_	-			12
(781,413)	(1,871)		2,867,189		16,306,533	226,350,870	13
(274,475)	(1,064)		1,016,398		1,482,524	90,226,965	14
—	—		—		—	—	15

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

OTHER REGULATORY LIABILITIES (Account 254)

1. Report below the details called for concerning other regulatory liabilities which are created through the ratemaking actions of regulatory agencies (and not includable in other amounts).

2. For regulatory liabilities being amortized, show period of amortization in column (a).

3. Minor items (5% of the Balance at End of Year for Account 254 or amounts less than \$250,000, whichever is less) may be grouped by classes.

4. Provide in a footnote, for each line item, the regulatory citation where the respondent was directed to refund the regulatory liability (e.g Commission Order, state commission order, court decision).

Line	Description of Other Regulatory Liabilities	Balance at Beginning of Year	Debits	Credits	Balance at End of Year
No.	(a)	(b)	(C)	(d)	(e)
1	Storage Margin Share - Oregon (OPUC Advice 00-4 and later OPUC Advice 03-6)	16,254,126	24,529,244	25,405,126	17,130,008
2	Storage Margin Share - Washington (UG 298)	1,864,077	1,864,077	1,643,319	1,643,319
3	Deferred Derivative Unrealized Gains	9,270,127	25,726,869	26,325,226	9,868,484
4	Benefits from the 2017 Tax Cuts and Jobs Act ⁽¹⁾	225,240,586	128,772,744	110,185,989	206,653,831
5	North Mist Construction Overhead Regulatory Liability - Oregon (UM 1913)	1,130,744	1,660,181	1,586,013	1,056,576
6	Other	195,000	270,000	634,879	559,879
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22 23					
23					
24					
25					
20					
28					
20					
30	Total	253,954,660	182,823,115	165,780,552	236,912,097
	: See Page 278 B for further explanation.	200,004,000	102,020,110	100,700,002	200,512,037

Name of Respondent	me of Respondent This Report is:		Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

OTHER REGULATORY LIABILITIES (Account 254) (Continued)

On December 22, 2017, the TCJA was enacted and permanently lowered the U.S. federal corporate income tax rate to 21% from the existing maximum rate of 35%, effective for our tax year beginning January 1, 2018. As a result, we revalued our deferred tax assets and liabilities as of the date of enactment. The total amount of this revaluation to be accrued for the benefit of customers is \$214.6 million, which includes a gross up for income taxes of \$56.8 million.

The following table shows the results of the remeasurement of excess deferred income taxes in 2017 and the FERC accounts affected:

Increase/(Decrease)

Jurisdiction	Account 254 Account 283	
OPUC	143,171,749	(143,171,749)
WUTC	14,592,172	(14,592,172)
Gross-up	56,804,231	(56,804,231)
Total	214,568,152	(214,568,152)

The following table summarizes the amount of excess deferred income taxes that is considered protected and unprotected as of December 31, 2019 and 2018. Excess deferred income taxes have been amortized in Accounts 410.1 and 411.1 in 2019.

Jurisdiction	12/31/2019	12/31/2018	Amortization Period
OPUC - Protected	126,847,547	128,406,809	Average rate assumption method
OPUC - Unprotected	9,367,227	14,764,940	5 years
Total OPUC	136,214,774	143,171,749	
WUTC - Protected	14,480,171	14,592,172	Average rate assumption method
WUTC - Unprotected	—	_	
Total WUTC	14,480,171	14,592,172	
Total	150,694,945	157,763,922	

Oregon General Rate Case Docket UG 344 and Washington General Rate Case Docket UG 181053 address the provision of these benefits to customers. Docket UG 344 was concluded in March 2019 (refer to Order 19-105). Docket UG 181053 was concluded in October 2019 (refer to Order 06).

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	GAS OPERATING REVENUES (Account 400)				
	port below natural gas operating revenues for each prescrib eding pages.	ed account total. T	he amounts must be	e consistent with the	e detailed data on
2. Re	venues in columns (b) and (c) include transition costs from (upstream pipelines.			
3. Otl colum	ner Revenues in columns (f) and (g) include reservation cha ns (b) through (e). Include in columns (f) and (g) revenues	rges received by the for Accounts 480 - 4	e pipeline plus usage 95.	e charges, less reve	enues reflected in
		Revenues for Transition Costs and Take-or-Pay	Revenues for Transition Costs and Take-or-Pay	Revenues for GRI and ACA	Revenues for GRI and ACA
Line	Title of Account	Amount for Current Year	Amount for Previous Year	Amount for Current Year	Amount for Previous Year
No.	(a)	(b)	(C)	(d)	(e)
1	480 Residential Sales				
2	481 Commercial and Industrial Sales				
3	482 Other Sales to Public Authorities				
4	483 Sales for Resale				
5	484 Interdepartmental Sales				
6	485 Intracompany Transfers				
7	487 Forfeited Discounts				
8	488 Miscellaneous Service Revenues				
9	489.1 Revenues from Transportation of Gas of Others Through Gathering Facilities				
10	489.2 Revenues from Transportation of Gas of Others Through Transmission Facilities				
11	489.3 Revenues from Transportation of Gas of Others Through Distribution Facilities				
12	489.4 Revenues from Storing Gas of Others				
13	490 Sales of Prod. Ext. from Natural Gas				
14	491 Revenues from Natural Gas Proc. by				
15	492 Incidental Gasoline and Oil Sales				
16	493 Rent from Gas Property				
17	494 Interdepartmental Rents				
18	495 Other Gas Revenues				
19	Subtotal:				
20	496 (Less) Provision for Rate Refunds				
21	TOTAL:				

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

GAS OPERATING REVENUES (Account 400) (Continued)

4. If increases or decreases from previous year are not derived from previously reported figures, explain any inconsistencies in a footnote.

5. On Page 108, include information on major changes during the year, new service, and important rate increases or decreases.

6. Report the revenue from transportation services that are bundled with storage services as transportation service revenue.

Other Revenues	Other Revenues	Total Operating Revenues	Total Operating Revenues	Dekatherm of Natural Gas	Dekatherm of Natural Gas	
Amount for Current Year	Amount for Previous Year	Amount for Current Year	Amount for Previous Year	Amount for Current Year	Amount for Previous Year	Line
(f)	(g)	(h)	(i)	(j)	(k)	No.
430,902,294	407,940,700	430,902,294	407,940,700	45,723,708	41,169,985	1
248,547,943	241,293,260	248,547,943	241,293,260	36,117,293	33,540,309	2
—	—	—	—	_	—	3
_	_		_	_	_	4
_	_		—	_	—	5
—	_		—			6
2,076,088	2,015,349	2,076,088	2,015,349			7
1,318,010	1,380,755	1,318,010	1,380,755			8
_	_	_	_	_	_	9
_	_	_	_	_	_	10
22,513,550	21,848,308	22,513,550	21,848,308	39,674,360	38,109,993	11
11,820,609	_	11,820,609	—	3,374,615	_	12
_	—		_			13
_	—	_	_			14
_	—					15
171,374	190,377	171,374	190,377			16
	—					17
(9,377,080)	(7,234,096)	(9,377,080)	(7,234,096)			18
707,972,788	667,434,653	707,972,788	667,434,653			19
	—					20
707,972,788	667,434,653	707,972,788	667,434,653			21

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

REVENUES FROM STORING GAS OF OTHERS (Account 489.4)

1. Report revenues and Dth of gas withdrawn from storage by Rate Schedule and in total.

2. Revenues for penalties including penalties for unauthorized overruns must be reported on page 308

3. Other revenues in columns (f) and (g) include reservation charges, injection and withdrawal charges, less revenues reflected in columns (b) through (e).

4. Dth of gas withdrawn from storage must not be adjusted for discounting.

5. Where transportation services are bundled with storage services, report on Dth withdrawn from storage.

		Revenues for Transition Costs and Take-or-Pay	Revenues for Transition Costs and Take-or-Pay	Dekatherm of Natural Gas	Dekatherm of Natural Gas
Line	Rate Schedule	Amount for Current Year	Amount for Prior Year	Amount for Current Year	Amount for Prior Year
No.	(a)	(b)	(c)	(d)	(e)
1	Rate Schedule 90 - Firm Storage Service with No-notice withdrawal*	11,820,609	_	3,374,615	_
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14	TOTAL	11,820,609	—	3,374,615	_
* Note fixed r	: In May 2019, NW Natural placed its North Mist gas storage evenues for Rate Schedule 90.	ge expansion projec	t into service. The a	mount in column (b) represents the

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

OTHER GAS REVENUES (ACCOUNT 495)

Renor	t below transactions of \$250,000 or more included in Account 495, Other Gas Revenues. Group all transact	ons below \$250 000 in one
amou	t and provide the number of items.	
Line	Description of Transaction	Amount
No.	(a)	(b)
1	Curtailment Unauthorized Take	1,516,440
2	Decoupling	(11,764,544)
3	Decoupling Amortization	(6,785,153)
4	Interstate Storage Credit	16,094,180
5	Oregon Amortizations	(5,579,958)
6	Oregon Revenue Requirement True Up	(469,627)
7	Oregon Interim Period Tax Deferral	7,073,708
8	Unbilled Revenue	(3,770,379)
9	Warm Amortizations	(898,753)
10	Warm Deferrals	(832,190)
11	Washington Amortizations	(1,953,714)
12	Washington Energy Efficiency Deferrals	(675,478)
13	Washington Great Program	(357,317)
14	Washington Interim Period Tax Deferral	(1,031,598)
15	Other (Misc Gas Revenues - 3 items)	57,303
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30	Total	(9,377,080)

Γ

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗖 A Resubmission		December 31, 2019

	GAS OPERATION AND MAINTENANCE EXPENSES					
Line	Account	Amount for Current Year	Amount for Previous Year			
No.	(a)	(b)	(c)			
1	1. PRODUCTION EXPENSES					
2	A. Manufactured Gas Production					
3	Manufactured Gas Production (Submit Supplemental Statement)	N/A	N/A			
4	B. Natural Gas Production					
5	B1. Natural Gas Production and Gathering					
6	Operation					
7	750 Operation Supervision and Engineering	-	—			
8	751 Production Maps and Records		—			
9	752 Gas Wells Expenses	-	—			
10	753 Field Lines Expenses	-	—			
11	754 Field Compressor Station Expenses	-	—			
12	755 Field Compressor Station Fuel and Power	-	—			
13	756 Field Measuring and Regulating Station Expenses	-	—			
14	757 Purification Expenses	-	—			
15	758 Gas Well Royalties	-	—			
16	759 Other Expenses	-	—			
17	760 Rents	-	—			
18	TOTAL Operation (Total of lines 7 thru 17)	-	—			
19	Maintenance					
20	761 Maintenance Supervision and Engineering	_	—			
21	762 Maintenance of Structures and Improvements	—	—			
22	763 Maintenance of Producing Gas Wells	-	_			
23	764 Maintenance of Field Lines	_	—			
24	765 Maintenance of Field Compressor Station Equipment	-	—			
25	766 Maintenance of Field Meas. and Regulating Station Equipment	-	_			
26	767 Maintenance of Purification Equipment					
27	768 Maintenance of Drilling and Cleaning Equipment					
28	769 Maintenance of Other Equipment					
29	TOTAL Maintenance (Total of lines 20 thru 28)					
30	TOTAL Natural Gas Production and Gathering (Total of lines 18 and 29)	-	—			

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

GAS OPERATION AND MAINTENANCE EXPENSES (Continued)						
Account	Amount for Current Year	Amount for Previous Year	Line			
(a)	(b)	(c)	No.			
B2. Products Extraction			31			
Operation			32			
770 Operation Supervision and Engineering	-	-	33			
771 Operation Labor	-		34			
772 Gas Shrinkage	—	—	35			
773 Fuel	_	—	36			
774 Power		_	37			
775 Materials	-	—	38			
776 Operation Supplies and expenses	—	_	39			
777 Gas Processed by Others		—	40			
778 Royalties on Products Extracted	—	—	41			
779 Marketing expenses		_	42			
780 Products Purchased for Resale	_	_	43			
781 Variation in Products Inventory	—	—	44			
(Less) 782 Extracted Products Used by the Utility-Credit		_	45			
783 Rents		_	46			
Total Operation (Total of Lines 33 thru 46)	—	—	47			
Maintenance			48			
784 Maintenance Supervision and Engineering		-	49			
785 Maintenance of Structures and Improvements	—	—	50			
786 Maintenance of Extraction and Refining Equipment		—	51			
787 Maintenance of Pipe Lines		_	52			
788 Maintenance of Extracted Products Storage Equipment	—	—	53			
789 Maintenance of Compressor Equipment	_	-	54			
790 Maintenance of Gas Measuring and Regulating Equipment	_	_	55			
791 Maintenance of Other Equipment	_	_	56			
TOTAL Maintenance (Total of lines 49 thru 56)	_	-	57			
TOTAL Products Extraction (Total of lines 47 and 57)	_	_	58			

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

GAS OPERATION AND MAINTENANCE EXPENSES (Continued)			
Line	Account	Amount for Current Year	Amount for Previous Year
No.	(a)	(b)	(C)
59	C. Exploration and Development		
60	Operation		
61	795 Delay Rentals	_	-
62	796 Nonproductive Well Drilling	_	_
63	797 Abandoned Leases	-	—
64	798 Other Exploration	-	—
65	TOTAL Exploration and Development (Total of lines 61 thru 64)	-	-
66	D. Other Gas Supply Expenses		
67	Operation		
68	800 Natural Gas Well Head Purchases	_	—
69	800.1 Natural Gas Well Head Purchases, Intracompany Transfers	_	_
70	801 Natural Gas Field Line Purchases	15,422,093	13,744,039
71	802 Natural Gas Gasoline Plant Outlet Purchases	_	—
72	803 Natural Gas Transmission Line Purchases	_	_
73	804 Natural Gas City Gate Purchases	258,779,635	253,809,428
74	804.1 Liquefied Natural Gas Purchases	_	—
75	805 Other Gas Purchases	_	_
76	805.1 Purchases Gas Cost Adjustments	(25,438,052)	(16,914,611)
77	TOTAL Purchased Gas (Total of Lines 68 thru 76)	248,763,676	250,638,856
78	806 Exchange Gas	_	_
79	Purchased Gas Expense		
80	807.1 Well Expense-Purchased Gas	_	—
81	807.2 Operation of Purchased Gas Measuring Stations		
82	807.3 Maintenance of Purchased Gas Measuring Stations		
83	807.4 Purchased Gas Calculations Expense		—
84	807.5 Other Purchased Gas Expenses	_	
85	TOTAL Purchased Gas Expense (Total of lines 80 thru 84)	-	_

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

GAS OPERATION AND MAINTENANCE EXPENSES (Continued)				
Account	Amount for Current Year	Amount for Previous Year	Line	
(a)	(b)	(C)	No.	
808.1 Gas Withdrawn from Storage-Debit	20,606,255	15,070,769	86	
(Less) 808.2 Gas Delivered to Storage-Credit	(14,075,155)	(9,783,155)	87	
809.1 Withdrawals of Liquefied Natural Gas for Processing-Debit	—	—	88	
(Less) 809.2 Deliveries of Natural Gas for Processing-Credit	-	_	89	
Gas used in Utility Operation-Credit			90	
810 Gas Used for Compressor Station Fuel-Credit		—	91	
811 Gas Used for Products Extraction-Credit	_	_	92	
812 Gas Used for Other Utility Operations-Credit	(159,515)	(183,467)	93	
TOTAL Gas Used in Utility Operations-Credit (lines 91 thru 93)	(159,515)	(183,467)	94	
813 Other Gas Supply Expenses	-	—	95	
TOTAL Other Gas Supply Exp. (Total of lines 77, 78, 85, 86-89, 94, 95)	255,135,261	255,743,003	96	
TOTAL Production Expenses (Total of lines 3, 30, 58, 65, 96)	255,135,261	255,743,003	97	
2. NATURAL GAS STORAGE, TERMINALING AND PROCESSING EXPENSES			98	
A. Underground Storage Expenses			99	
Operation			100	
814 Operation Supervision and Engineering	-	-	101	
815 Maps and Records	-	_	102	
816 Well Expenses	493,903	294,860	103	
817 Lines Expenses	-	—	104	
818 Compressor Station Fuel and Power	164,195	90,747	105	
819 Compressor Station Fuel and Power	-	-	106	
820 Measuring and Regulating Station Expenses	2,520,156	2,285,568	107	
821 Purification Expenses	(284)	11,648	108	
822 Exploration and Development	-	—	109	
823 Gas Losses		-	110	
824 Other Expenses		—	111	
825 Storage Well Royalties		-	112	
826 Rents		-	113	
TOTAL Operation (Total of lines of 101 thru 113)	3,177,970	2,682,823	114	

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	GAS OPERATION AND MAINTENANCE EXPENSES (Continued)			
Line	Account	Amount for Current Year	Amount for Previous Year	
No.	(a)	(b)	(C)	
115	Maintenance			
116	830 Maintenance Supervision and Engineering		_	
117	831 Maintenance of Structures and Improvements		_	
118	832 Maintenance of Reservoirs and Wells	213,083	201,913	
119	833 Maintenance of Lines		_	
120	834 Maintenance of Compressor Station Equipment	323,746	260,829	
121	835 Maintenance of Measuring and Regulating Station Equip.		_	
122	836 Maintenance of Purification Equipment		_	
123	837 Maintenance of Other Equipment		_	
124	TOTAL Maintenance (Total of lines 116 thru 123)	536,829	462,742	
125	TOTAL Underground Storage Expenses (lines 114 and 124)	3,714,799	3,145,565	
126	B. Other Storage Expenses			
127	Operation			
128	840 Operation supervision and Engineering	76,156	74,095	
129	841 Operation Labor and Expenses		_	
130	842 Rents		_	
131	842.1 Fuel		_	
132	842.2 Power	_	_	
133	842.3 Gas Losses		_	
134	TOTAL Operation (Total of lines 128 thru 133)	76,156	74,095	
135	Maintenance			
136	843.1 Maintenance Supervision and Engineering		_	
137	843.2 Maintenance of Structures and Improvements		_	
138	843.3 Maintenance of Gas Holders		_	
139	843.4 Maintenance of Purification Equipment	_	_	
140	843.5 Maintenance of Liquefaction Equipment		_	
141	843.6 Maintenance of Vaporizing Equipment	_	_	
142	843.7 Maintenance of Compressor Equipment	_	_	
143	843.8 Maintenance of Measuring and Regulating Equipment		_	
144	843.9 Maintenance of Other Equipment	-	_	
145	TOTAL Maintenance (Total of lines 136 thru 144)	_	_	
146	TOTAL Other Storage Expenses (Total of lines 134 and 145)	76,156	74,095	

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

GAS OPERATION AND MAINTENANCE EXPENSES (Continued) Account Account Account Account					
			Line		
(a)	(b)	(C)	No.		
C. Liquefied Natural Gas Terminaling and Processing Expenses	-		147		
Operation			148		
844.1 Operation Supervision and Engineering	1,652,104	1,589,697	149		
844.2 LNG Processing Terminal Labor and Expenses	-	—	150		
844.3 Liquefaction Processing Labor and Expenses	-	_	151		
844.4 Liquefaction Transportation Labor and Expenses			152		
844.5 Measuring and Regulating Labor and Expenses	_		153		
844.6 Compressor Station Labor and Expenses	_	_	154		
844.7 Communication system Expenses	-		155		
844.8 System Control and Load Dispatching	-	-	156		
845.1 Fuel	-	_	157		
845.2 Power	-	_	158		
845.3 Rents	_	_	159		
845.4 Demurrage Charges	_	_	160		
845.5 Wharfage Receipts-Credit	(175,451)	(85,007)	161		
845.6 Processing Liquefied of Vaporized Gas by Others	_	_	162		
846.1 Gas Losses	_	_	163		
846.2 Other Expenses		_	164		
TOTAL Operation (Total of lines 149 thru 164)	1,476,653	1,504,690	165		
Maintenance			166		
847.1 Maintenance Supervision and Engineering	-	—	167		
847.2 Maintenance of Structures and Improvements	1,033,744	983,047	168		
847.3 Maintenance of LNG Processing Terminal Equipment	_	_	169		
847.4 Maintenance of LNG Transportation Equipment	_	_	170		
847.5 Maintenance of Measuring and Regulating Equipment	_	_	171		
847.6 Maintenance of Compressor Station Equipment	_	_	172		
847.7 Maintenance of Communication Equipment	-	_	173		
847.8 Maintenance of Other Equipment	-	_	174		
TOTAL Maintenance (Total of lines 167 thru 174)	1,033,744	983,047	175		
TOTAL Liquefied Nat Gas Terminaling and Proc Exp (Total of lines 165 & 175)	2,510,397	2,487,737	176		
TOTAL Natural Gas Storage (Total of lines 125, 146, and 176)	6,301,352	5,707,397	177		

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗖 A Resubmission		December 31, 2019

	GAS OPERATION AND MAINTENANCE EXPENSES (Continued)			
Line	Account	Amount for Current Year	Amount for Previous Year	
No.	(a)	(b)	(C)	
178	3. TRANSMISSION EXPENSES			
179	Operation	-		
180	850 Operation Supervision and Engineering	_	—	
181	851 System Control and Load Dispatching	_	_	
182	852 Communication system Expenses	_	_	
183	853 Compressor Station Labor and Expenses	_	_	
184	854 Gas for Compressor Station Fuel	_	—	
185	855 Other Fuel and Power for Compressor Stations	_	—	
186	856 Mains Expenses	1,989,004	1,516,707	
187	857 Measuring and Regulating Station Expenses	_	_	
188	858 Transmission and Compression of Gas by Others	_	—	
189	859 Other Expenses	_	_	
190	860 Rents	_	—	
191	TOTAL Operations (Total of lines 180 thru 190)	1,989,004	1,516,707	
192	Maintenance		·	
193	861 Maintenance Supervision and Engineering	_	_	
194	862 Maintenance of Structures and Improvements	_	—	
195	863 Maintenance of Mains	166,207	170,115	
196	864 Maintenance of Compressor Station Equipment	_	_	
197	865 Maintenance of Measuring and Regulating Station Equipment	_	—	
198	866 Maintenance of Communication Equipment	_	_	
199	867 Maintenance of Other Equipment	_	_	
200	TOTAL Maintenance (Total of lines 193 thru 199)	166,207	170,115	
201	TOTAL Transmission Expenses (Total of lines 191 and 200)	2,155,211	1,686,822	
202	4. DISTRIBUTION EXPENSES		•	
203	Operation			
204	870 Operation Supervision and Engineering	2,847,189	2,861,336	
205	871 Distribution Load Dispatching	_	_	
206	872 Compressor Station Labor and Expenses	_	_	
207	873 Compressor Station Fuel and Power	_	_	

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

GAS OPERATION AND MAINTENANCE EXPENSES (Continued)				
Account	Amount for Current Year	Amount for Previous Year	Line	
(a)	(b)	(C)	No.	
874 Mains and Services Expenses	9,176,771	9,028,992	208	
875 Measuring and Regulating Station Expenses-General	(106,858)		209	
876 Measuring and Regulating Station Expenses-Industrial			210	
877 Measuring and Regulating Station Expenses-City Gas	609,033	488,036	211	
878 Meter and House Regulator Expenses	5,665,100	5,425,942	212	
879 Customer Installations Expenses	7,498,710	7,556,905	213	
880 Other Expenses	1,033,460	1,268,874	214	
881 Rents	212,302	215,389	215	
TOTAL Operations (Total of lines 204 thru 215)	26,935,707	26,802,870	216	
Maintenance			217	
885 Maintenance Supervision and Engineering	3,197,131	4,043,521	218	
886 Maintenance of Structures and Improvements	_	_	219	
887 Maintenance of Mains	2,561,718	2,862,835	220	
888 Maintenance of Compressor Station Equipment		—	221	
889 Maintenance of Measuring & Regulating Station Equipment-General	1,610,369	1,470,629	222	
890 Maintenance of Meas. and Reg. Station Equipment-Industrial		—	223	
891 Maintenance of Meas & Reg Station Equip-City Gate	187,161	222,873	224	
892 Maintenance of Services	627,763	675,263	225	
893 Maintenance of Meters and House Regulators	2,826,459	2,534,777	226	
894 Maintenance of Other Equipment	35,113	68,315	227	
TOTAL Maintenance (Total of lines 218 thru 227)	11,045,714	11,878,213	228	
TOTAL Distribution Expenses (Total of lines 216 and 228)	37,981,421	38,681,083	229	
5. CUSTOMER ACCOUNTS EXPENSES			230	
Operation			231	
901 Supervision	1,646,260	1,449,870	232	
902 Meter Reading Expenses	955,140	876,768	233	
903 Customer Records and Collection Expenses	15,508,882	16,074,368	234	

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	GAS OPERATION AND MAINTENANCE EXP	ENSES (Continued)	
Line	Account	Amount for Current Year	Amount for Previous Year
No.	(a)	(b)	(C)
235	904 Uncollectible Accounts	449,187	678,554
236	905 Miscellaneous Customer Accounts Expenses	_	_
237	TOTAL Customer Accounts Expenses (Total of lines 232-236)	18,559,469	19,079,560
238	6. CUSTOMER SERVICE AND INFORMATIONAL EXPENSE		
239	Operation		
240	907 Supervision	4,464	3,912
241	908 Customer Assistance Expense	1,027,301	1,251,734
242	909 Informational and Instructional Expenses	2,118,069	1,810,357
243	910 Miscellaneous Customer Service and Informational Expenses	193,529	163,343
244	TOTAL Customer Service & Information Expenses (Total of lines 240 thru 243)	3,343,363	3,229,346
245	7. SALES EXPENSES		
246	Operation		
247	911 Supervision	11,581	9,375
248	912 Demonstration and Selling Expenses	1,886,105	1,653,256
249	913 Advertising Expenses	295,487	443,839
250	916 Miscellaneous Sales Expenses	_	
251	TOTAL Sales Expenses (Total of lines 247 thru 250)	2,193,173	2,106,470
252	8. ADMINISTRATIVE AND GENERAL EXPENSES		
253	Operation		
254	920 Administrative and General Salaries	32,969,528	28,595,464
255	921 Office Supplies and Expenses	17,312,345	20,819,120
256	(Less) 922 Administrative Expenses Transferred - Credit	(19,619,015)	(19,404,008)
257	923 Outside Services Employed	11,089,842	12,034,227
258	924 Property Insurance	3,239,827	3,066,612
259	925 Injuries and Damages	216,918	333,852
260	926 Employee Pensions and Benefits	68,707,526	34,073,322
261	927 Franchise Requirements	—	—
262	928 Regulatory Commission Expenses	—	—
263	(Less) 929 Duplicate Charges - Credit	—	—
264	930.1 General Advertising Expenses	—	—
265	930.2 Miscellaneous General Expenses	3,354,367	2,853,582
266	931 Rents	4,706,138	4,763,890
267	TOTAL Operation (Total of lines 254 thru 266)	121,977,476	87,136,061
268	Maintenance		
269	932 Maintenance of General Plant	3,969,495	3,757,087
270	TOTAL Administrative and General Expenses (Total of lines 267 and 269)	125,946,971	90,893,148
271	TOTAL Gas O&M Expenses (Total of lines 97,177, 201, 229, 237, 244, 251, and 270)	451,616,221	417,126,829

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

Gas Used in Utility Operations 1. Report below details of credits during the year to Accounts 810, 811, and 812. 2. If any natural gas was used by the respondent for which a charge was not made to the appropriate operating expense or other account, list separately in column (c) the Dth of gas used, omitting entries in column (d). Purpose for Which Gas was Used Manufactured Gas Manufactured Gas Line Account Natural Gas Natural Gas Charged Gas Used Dth Amount of Credit Gas Used Dth Amount of Credit (in dollars) (in dollars) No. (a) (b) (C) (d) (e) (f) 810 Gas Used for Compressor Station Fuel -Credit 1 N/A N/A 2 811 Gas Used for Products Extraction - Credit N/A N/A _ _ Gas Shrinkage and Other Usage in 3 Respondent's Own Processing N/A N/A Gas Shrinkage, etc. for Respondent's Gas Processed by Others 4 N/A N/A 812 Gas Used for Other Utility Operations -Credit (Report separately for each principal use. Group minor uses.) 5 613,565 159,515 N/A N/A 6 System - All Districts Variable 187,686 159,515 N/A N/A LNG Plants 175,484 0* N/A N/A 7 Inventory 0* 8 Underground Storage Compressors Inventory 250.395 N/A N/A 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 Total 613,565 159,515 N/A N/A Included in the Cost of Inventory

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

MISCELLANEOUS GENERAL EXPENSE (Account 930.2) 1. Provide the information requested below on miscellaneous general expenses. 2. For Other Expenses, show the (a) purpose, (b) recipient and (c) amount of such items. List separately amounts of \$250,000 or more however, amounts less than \$250,000 may be grouped if the number of items so grouped is shown. Line Description Amount (in dollars) No. (a) (b) 1 Industry association dues 14,700 Experimental and general research expenses 2 a. Gas Research Institute (GRI) aka Gas Technology Institute (GTI) 670,000 b. Operations Technology Development (OTD) 500,000 c. Other 99,375 3 Publishing and distributing information and reports to stockholders, trustee, registrar, and transfer 32.020 agent fees and expenses, and other expenses of servicing outstanding securities of the respondent 4 Other expenses 8 a. Directors retainers and fees 2,026,108 9 b. Annual shareholder meeting expenses 2.221 10 c. Other miscellaneous expenses 9,943 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 Total 3,354,367

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2)		December 31, 2019

Depreciation, Depletion and Amortization of Gas Plant (Accts 403, 404.1, 404.2, 404.3, 405) (Except Amortization of Acquisition Adjustments)

1. Report in Section A the amounts of depreciation expense, depletion and amortization for the accounts indicated and classified according to the plant functional groups shown.

2. Report in Section B, column (b) all depreciable or amortizable plant balances to which rates are applied and show a composite total. (If more desirable, report by plant account, subaccount or functional classifications other than those pre-printed in column (a). Indicate in a footnote the manner in which column (b) balances are obtained. If average balances are used, state the method of averaging used. For column (c) report available information for each plant functional classification listed in column (a). If composite depreciation accounting is used, report available information called for in columns (b) and (c) on this basis. Where the unit-of-production method is used to determine depreciation charges, show in a footnote any revisions made to estimated gas reserves.

3. If provisions for depreciation were made during the year in addition to depreciation provided by application of reported rates, state in a footnote the amounts and nature of the provisions and the plant items to which related.

See following pages

								Period Beginning:	January 2019
								Period Ending:	December 2019
Function	al Class	Beginning			Cost of	Salvage and	Transfers and		Ending
FERC F	Plant Account	Reserve	Provision	Retirements	Removal	Other Credits	Adjustments	Loss/(Gain)	Reserve*
UTILITY									
Intangibl	e Plant								
301	ORGANIZATION	_	_	_	_	_		_	_
302	FRANCHISES & CONSENTS	_	_		_	_		_	_
303.1	COMPUTER SOFTWARE	29,472,454	5,651,644		_	_		_	29,472,454
303.2	CUSTOMER INFORMATION SYSTEM	32,348,168	_		_	_		_	32,348,168
303.3	INDUSTRIAL & COMMERCIAL BIL	4,146,951	_		_	_		_	4,146,951
303.4	CRMS	682,893	_		_	_		_	682,893
303.6	NMEP COMPUTER SOFTWARE	_	55,987		_	_		_	55,987
	Intangible Plant Subtotal*	66,650,465	5,707,631		_	_			72,358,096
Producti	on Plant - Oil Gas								
304.1	LAND	_	_		_	_	_	_	_
305.2	P P O G STRU & IMPR-SEWER S	_	_		_	_	_	_	_
305.5	P P O G STRU & IMPR-OTHER Y	13,814	_		_	_		_	13,814
312.3	P P O G FUEL HANDLING AND S	· _	_		_	_		_	· _
318.3	P P O G LIGHT OIL REFINING	152,141	_		_	_	_	_	152,141
318.5	P P O G TAR PROCESSING	255,729	_		_	_		_	255,729
325	NATURAL GAS PROD AND GATHER	· —	_		_	_		_	· —
327	NATURAL GAS PROD & GATHERIN	_	_		_	_		_	_
328	NATURAL GAS PROD AND GATHER	_	_		_	_		_	_
331	NATURAL GAS PROD & GATHERIN	_	_		_	_		_	_
332	NATURAL GAS PROD & GATHERIN	_	_		_	_		_	_
333	NATURAL GAS PROD & GATHERIN	_	_		_	_		_	_
334	NATURAL GAS PROD & GATHERIN	_	_		_	_		_	_
	Production Plant - Oil Gas Subtotal*	421,683	_		_	_			421,683
Producti	on Plant - Other								
	GAS PRODUCTION - COTTAGE G	8,736	_	_	_	_		_	8,736
	STRUCTURES MIXING STATION	51,246	_	_	_	_		_	51,246
311	P P OTHER-LIQUEFIED PETROLE	_	_	_	_	_		_	
311.4	P P OTHER-L P G GRANGER	_	_	_	_	_		_	_
311.7	LIQUIFIED GAS EQUIPMENT COO	8,066	_	_	_	_		_	8,066
311.8	LIQUIFIED GAS EQUIPMENT LIN	6,585	_	_	_	_		_	6,585
319	GAS MIXING EQUIPMENT GASCO	194,720	_	_	_	_	_	_	194,720
	Production Plant - Other Subtotal*	269,353	_		_	_			269,353

								Period Beginning: Period Ending:	January 2019 December 2019
Functior	nal Class	Beginning			Cost of	Salvage and	Transfers and		Ending
FERC	Plant Account	Reserve	Provision	Retirements	Removal	Other Credits	Adjustments	Loss/(Gain)	Reserve*
UTILITY									
Natural (Gas Underground Storage								
350.1	LAND	_	_	_	_	_	_	_	_
350.2	RIGHTS-OF-WAY	30,436	1,568	—	_	—	_	_	32,004
350.3	NMEP RIGHTS-OF-WAY	_	5,450	—	_	—	_	_	5,450
351	STRUCTURES AND IMPROVEMENTS	2,924,316	129,479	—	_	—	_	_	3,053,795
351.1	NMEP STRUCTURES AND IMPROVEMENTS	—	72,239	_	_	_	_	_	72,239
352	WELLS	12,255,683	351,741	_	_	_	_	_	12,607,424
352.1	STORAGE LEASEHOLD & RIGHTS	1,745,379	65,773	_	_	_	_	_	1,811,152
352.2	RESERVOIRS	2,673,739	125,815	_	_	_	_	_	2,799,555
352.3	NON-RECOVERABLE NATURAL GAS	3,558,645	101,122	_	_	_	_	_	3,659,767
352.4	NMEP WELLS	—	201,551	_	_	_	_	_	201,551
352.5	NMEP STORAGE LEASEHOLD & RIGHTS	—	31,896	_	_	_	_	_	31,896
352.6	NMEP RESERVOIRS	_	32,877	_	_	_	_	_	32,877
352.6	NMEP NON-RECOVERABLE NATURAL GAS	—	31,656	_	_	_	_	_	31,656
352.7	NMEP NON-RECOVERABLE NATURAL GAS	_	31,656	_	_	_	_	_	31,656
353	LINES	3,314,729	153,215	_	_	_	_	_	3,467,944
353.1	NMEP LINES	_	4,184	_	_	_	_	_	4,184
354	COMPRESSOR STATION EQUIPMENT	19,529,817	560,388	_	_	_	463,610	_	20,553,816
354.7	NMEP COMPRESSOR STATION EQUIPMENT	_	456,891	_	_	_	_	_	456,891
355	MEASURING / REGULATING EQUIPM	4,745,697	169,213	_	_	_	_	_	4,914,910
355.1	NMEP MEASURING/REGULATING EQUIPM	_	207,697	_	_	_	_	_	207,697
356	PURIFICATION EQUIPMENT	240,036	4,981	_	_	_	_	_	245,017
357	OTHER EQUIPMENT	900,361	51,164			_		_	951,524
	Natural Gas Underground Storage Subtotal*	51,918,839	2,758,900		_		463,610	_	55,141,350

				NW NATURAL					
								Period Beginning: Period Ending:	January 2019 December 2019
Functional (Class	Beginning			Cost of	Salvage and	Transfers and		Ending
FERC Pla	Int Account	Reserve	Provision	Retirements	Removal	Other Credits	Adjustments	Loss/(Gain)	Reserve*
UTILITY									
Local Stora	ge Plant								
	AND - LNG LINNTON	_	_	_			_	_	_
	AND - LNG NEWPORT	_	_	_			_	_	_
	AND - OTHER	_	_	_	_			_	_
	TRUCTURES & IMPROVEMENTS	2,760,407	403,306	_	_		_	_	3,163,714
	TRUCTURES & IMPROVEMENTS	2,622,032	521,583	_	_		_	_	3,143,615
	TRUCTURES & IMPROVEMENTS -	11,891	474	_	_		_	_	12,365
	SAS HOLDERS - LNG LINNTON	2,452,669	117,546	_	_		_	_	2,570,215
	GAS HOLDERS - LNG NEWPORT	5,893,926	144,029	_	_		_	_	6,037,955
	GAS HOLDERS - LNG OTHER	1,234	16	_	_		_	_	1,250
	IQUEFACTION EQUIP LINN	2,648,875	44,065	_	_		_	_	2,692,940
	IQUEFACTION EQUIP - NEWPO	7,242,254	104,588	_	_		_	_	7,346,843
	APORIZING EQUIP - LINNTON	2,452,004	20,956	_	_		_	_	2,472,960
	APORIZING EQUIP - NEWPORT	312,762	115,560	_	_		_	_	428,322
	OMPRESSOR EQUIP - LINNTON	206,897	_	_	_		_	_	206,897
	OMPRESSOR EQUIPMENT - NE	784,673	350,444	_	_			_	1,135,117
	IEASURING & REGULATING EQU	630,328	114,846	_	_		_	_	745,174
	IEASURING & REGULATING EQU	251,578	13,652	_	_		_	_	265,230
	ING REFUELING FACILITIES	1,432,033	79,944	_	_			_	1,511,977
	NG REFUELING FACILITIES	739,473	_	_	_		_	_	739,473
	ocal Storage Plant Subtotal*	30,443,037	2,031,008	_	_	· –			32,474,046
Transmissio	on Plant								
	AND	_	_	_			_	_	_
	AND RIGHTS	2,126,357	98,119	_	_		_	_	2,224,476
	IMEP LAND RIGHTS	_,,	6,358	_	_		_	_	6,358
	TRUCTURES & IMPROVEMENTS -	358,757	27,056	_	_		_	_	385,814
	MAINS	37,087,966	3,261,162	(532,003)	_		_	_	39,817,125
	IORTH MIST TRANSMISSION LI	1,177,365	34,307	(<u>,</u>	_		_	_	1,211,672
	OUTH MIST TRANSMISSION LI	11,015,031	237,693	_	_		_	_	11,252,724
	OUTH MIST TRANSMISSION LI	14,577,274	676,698	_	_		_	_	15,253,972
	1.7M S MIST TRANS LINE	6,157,601	338,844	_			_	_	6,496,445
	2M NORTH S MIST TRANS	6,258,333	362,966	_				_	6,621,299
	8M NORTH S MIST TRANS	23,121,017	1,330,537	_	_		_	_	24,451,554
	IMEP MAINS		1,084,348	_	_		_	_	1,084,348
	RANSMISSION COMPRESSOR	(9)	.,	_				_	(9)
	EASURING & REGULATE STATION	1,654,098	84,548	_	_		_	_	1,738,646
			, . ,	_	_		_	_	.,. 00,0 10
	ransmission Plant Subtotal*	103,533,789	7,542,637	(532,003)					110,544,423
		,,	, ,	(, , , , , , , , , , , , , , , , , , ,					.,

								Period Beginning:	January 2019
								Period Ending:	December 2019
Functiona	I Class	Beginning			Cost of	Salvage and	Transfers and		Ending
FERC P	lant Account	Reserve	Provision	Retirements	Removal	Other Credits	Adjustments	Loss/(Gain)	Reserve*
UTILITY									
Distributio	on Plant								
374.1	LAND	_	_	_	_	_	_	_	_
374.2	LAND RIGHTS	1,681,161	10,562	_	_	_	_	_	1,691,723
375	STRUCTURES & IMPROVEMENTS	91,974	21,590	_	_	_	_	_	113,564
376.11	MAINS < 4"	339,078,831	15,883,860	(84,511)	(551,968)	45,393	_	_	354,371,605
376.12	MAINS 4" & >	235,089,539	13,673,872	(147,411)	(441,899)	48,788	_	_	248,222,889
376.13	MNEP MAINS 4" & >	_	9,032	_	_	_	_	_	9,032
377	COMPRESSOR STATION EQUIPMENT	667,156	10,803	_	_	_	_	_	677,959
378	MEASURING & REG EQUIP - GENER	13,016,706	821,149	_	_	_	_	_	13,837,855
379	MEASURING & REG EQUIP - GATE	2,935,048	309,503	_	_	_	_	_	3,244,552
380	SERVICES	423,855,747	23,433,833	(1,477,866)	(2,552,534)	_	_	_	443,259,181
381	METERS	23,590,928	2,156,295	(1,729,669)	_	_	_	_	24,017,554
381.1	METERS (ELECTRONIC)	1,944,068	49,042	_	_	_	_	_	1,993,110
381.2	ERT (ENCODER RECEIVER TRANS	22,904,389	2,567,452	(4,021,547)	_	_	_	_	21,450,294
382	METER INSTALLATIONS	5,918,519	2,979,535	(2,692,778)	_	_	_	_	6,205,275
382.1	METER INSTALLATIONS (ELECTR	79,992	41,416	_	_	_	_	_	121,408
382.2	ERT INSTALLATION (ENCODER	5,916,087	353,747	(197,054)	_	_	_	_	6,072,781
383	HOUSE REGULATORS	327,216	66,882	_	_	_	_	_	394,098
386	OTHER PROPERTY ON CUSTOMERS P	141,299	123,364	_	_	_	_	_	264,663
386.1	MULTI-FAMILY METER ROOMS	901	_	(901)	_	_	_	_	_
387.1	CATHODIC PROTECTION TESTING	143,422	1,426	_	_	_	_	_	144,848
387.2	CALORIMETERS @ GATE STATIONS	96,424	_	_	_	_	_	_	96,424
387.3	METER TESTING EQUIPMENT	72,671	_				_	_	72,671
	Distribution Plant Subtotal*	1,077,552,079	62,513,364	(10,351,737)	(3,546,401)	94,180	_	_	1,126,261,485

Period Beginning:

January 2019

								Period Ending:	December 2019
Function	al Class	Beginning		1	Cost of	Salvage and	Transfers and		Ending
FERC I	Plant Account	Reserve	Provision	Retirements	Removal	Other Credits	Adjustments	Loss/(Gain)	Reserve*
UTILITY									
General I	Plant								
389	LAND	437,351	_	_	_	_	_	_	437,351
390	STRUCTURES & IMPROVEMENTS	11,896,383	1,656,008	_	_	_	_	_	13,552,391
390.1	SOURCE CONTROL PLANT	5,182,577	425,895	_	_	_	_	_	5,608,472
391.1	OFFICE FURNITURE & EQUIPMEN	5,319,819	258,498	(70,550)	_	_	_	_	5,507,768
391.2	COMPUTERS	14,697,937	5,218,052	(2,853,153)	_	_	_	_	17,062,836
391.3	ON SITE BILLING	_	_	_	_	_	_	_	_
391.4	CUSTOMER INFORMATION SYSTEM	_	_	_	_	_	_	_	_
391.5	NMEP COMPUTERS	_	190,021	_	_	_	_	_	190,021
392	TRANSPORTATION EQUIPMENT	10,949,252	3,270,520	(2,256,423)	_	342,064	_	_	12,305,413
393	STORES EQUIPMENT	119,406	_	_	_	_	_	_	119,406
394	TOOLS - SHOP & GARAGE EQUIPUI	5,006,571	440,671	_	_	20,484	_	_	5,467,726
395	LABORATORY EQUIPMENT	275	(10)	(277)	_	_	_	_	(12)
396	POWER OPERATED EQUIPMENT	2,640,665	423,622	(598,755)	_	202,211	_	_	2,667,743
397	GEN PLANT-COMMUNICATION EQU	47,025	8,056	(20,921)	_	_	_	_	34,159
397.1	MOBILE	(58,219)	274,291	_	_	_	_	_	216,072
397.2	OTHER THAN MOBILE & TELEMET	7,046	(17,469)	_	_	_	_	_	(10,423)
397.3	TELEMETERING - OTHER	234,305	207,730	(1,731)	_	_	_	_	440,304
397.4	TELEMETERING - MICROWAVE	529,426	153,955	_	_	_	_	_	683,381
397.5	TELEPHONE EQUIPMENT	404,034	33,486	_	_	_	_	_	437,520
398	GEN PLANT-MISCELLANEOUS EQU	_	_	_	_	_	_	_	_
398.1	PRINT SHOP	4,277	(494)	_	_	_	_	_	3,783
398.2	KITCHEN EQUIPMENT	4,771	1,178	_	_	_	_	_	5,948
398.3	JANITORIAL EQUIPMENT	14,873	_	_	_	_	_	_	14,873
398.4	INSTALLED IN LEASED BUILDINGS	10,120	_	_	_	_	_	_	10,120
398.5	OTHER MISCELLANEOUS EQUIPMENT	66,739	_	_	_	_	_	_	66,739
	General Plant Subtotal*	57,514,633	12,544,007	(5,801,809)	_	564,759	_	_	64,821,590
	Utility Property Grand Total*	1,388,303,877	93,097,549	(16,685,549)	(3,546,401)	658,940	463,610		1,462,292,026

								Period Beginning: Period Ending:	January 2019
Functional Cl	ass	Beginning			Cost of	Salvage and	Transfers and	Penda Enality.	Ending
FERC Plant	Account	Reserve	Provision	Retirements	Removal	Other Credits	Adjustments	Loss/(Gain)	Reserve*
NON UTILITY								, , ,	
Intangible Pla 303.1	INT COMPUTER SOFWARE	60,047	11,076						71,122
303.2	CUSTOMER INFORMATION SYSTEM	50,047	6	_		_			50,073
		110,114	11,277	_	_				121,195
Natural Gas L	Inderground Storage								
352	WELLS	4,284,446	254,782	_	_	_	_	_	4,539,228
352.1	STORAGE LEASEHOLD & RIGHTS	240	17	_	_	_	_	_	257
352.2	RESERVOIRS	944,631	61,614	_	_	_	_	_	1,006,245
353	LINES	426,042	48,143	_	_	_	_	_	474,185
354	COMPRESSOR STATION EQUIPMENT	4,826,034	254,552	_	_	_	(463,610)	_	4,616,976
355	MEASURING / REGULATING EQUIPM	2,313,703	195,876	(181,462)	_	_	· · · ·	_	2,328,117
357	OTHER EQUIPMENT	13,029	1,373	_	_	_	_	_	14,402
Non Utility	Natural Gas Underground Storage Subtotal*	12,808,125	816,357	(181,462)	—		(463,610)		12,979,410
Transmission	l Plant								
368	TRANSMISSION COMPRESSOR	2,552,384	166,054		_		_		2,718,438
Non Utility	Transmission Plant Subtotal*	2,552,384	166,054	_	_	_	-	-	2,718,438
Distribution P									
376.12	MAINS 4" & >	256,847	8,164	(263,642)		_	_		1,369
Non Utility	Distribution Plant Subtotal*	256,847	8,164	(263,642)	—	-	-	-	1,369
General Plant									
389	LAND	—	—	—	—	—	_	_	-
390	STRUCTURES & IMPROVEMENTS	38,856	5,432						44,288
Non Utility	General Plant Subtotal*	38,856	5,432	_	_	-	_	_	44,288
Non Utility Ot									
121.1	NON-UTIL PROP-DOCK	1,947,067	_	_	—	_	_	—	1,947,067
121.2	NON-UTIL PROP-LAND	—	_	_	—	_	_	_	_
121.3	NON-UTIL PROP-OIL ST	2,257,443	19,713	_	_	_	_	—	2,277,156
121.7	NON-UTIL PROP-APPL CENTER	42,939	4,383	_	_	_	_	_	47,322
121.8	NON-UTIL PROP-STORAGE	(1)			_		_		(1
Non Utility	Other*	4,247,448	24,096	_	—	-	-	_	4,271,544

Period Beginning:

January 2019

								Period Ending:	December 20 [°]
unctional Clas	S	Beginning			Cost of	Salvage and	Transfers and		Ending
FERC Plant A	ccount	Reserve	Provision	Retirements	Removal	Other Credits	Adjustments	Loss/(Gain)	Reserve*
TOTAL SUMM	IARY ALL UTILITY DEPRECIATION	RESERVES	12/31/2019						
UTILITY									
108002		(9,803,943)							
108003		16,266							
108004		650,566							
108005		(44,150)							
108009		(1,448,284)							
108010		(52,097,191)							
108011		1,108,303,563							
108012		16,016,346							
108013		(3,734,626)							
108014		(1,031,079)							
108015		3,055,683							
108016		1,989,764							
108100		_							
108102		399,974,537							
108103		444,574							
รเ	IBTOTAL*	_	1,462,292,026						
ADD:									
108001 RE	MOVAL WORK IN PROCESS		(41,306,642)						
108600 RO	U UTIL LEAS ACC DE		4,444,480						
	I UTIL LEA ACC DEP		6,087						
	ST OF REMOVAL		24,611						
т	OTAL UTILITY DEPRECIATION*	_	1,425,460,561						
TOTAL SUMM	IARY ALL NON-UTILITY RESERVES								
NON UTILITY									
122002		(100,635)							
122026		1,034							
122027		4,395,349							
122028		14,838,808							
122029		(531,316)							
122100		_							
122102		1,410,532							
то	TAL NON UTILITY DEPRECIATION*		20,136,243						

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	DEPRECIATION, DEPLETIO	N, AND AMORTIZATION OF	GAS PLANT (Continued)
4. Ad	d rows as necessary to completely report all data.	Number the additional rows in sequ	ence as 2.10, 3.10, 3.02, etc.
Line	Functional Classification	Plant Bases (in thousands)	Applied Depreciation or Amortization Rates (percent)
No.	(a)	(b)	(C)
1	Production and Gathering Plant		
2	Offshore	N/A	N/A
3	Onshore	N/A	N/A
4	Underground Gas Storage Plant	222,838	1.76%
5	Transmission Plant		
6	Offshore	N/A	N/A
7	Onshore	N/A	N/A
8	General Plant	N/A	N/A
9			
10			
11			
12			
13			
14			
15			

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2)		December 31, 2019

PARTICULARS CONCERNING CERTAIN INCOME DEDUCTIONS AND INTEREST CHARGES ACCOUNTS

Report the information specified below, in the order given, for the respective income deduction and interest charges accounts.

(a) Miscellaneous Amortization (Account 425) - Describe the nature of items included in this account, the contra account charged, the total of amortization charges for the year, and the period of amortization.

(b) Miscellaneous Income Deductions - Report the nature, payee, and amount of other income deductions for the year as required by Accounts 426.1, Donations; 426.2, Life Insurance; 426.3, Penalties; 426.4, Expenditures for Certain Civic, Political and Related Activities; and 426.5, Amounts of less than \$250,000 may be grouped by classes within the above accounts.

(c) Interest on Debt to Associated Companies (Account 430) -For each associated company that incurred interest on debt during the year, indicate the amount and interest rate respectively for (a) advances on notes, (b) advances on open account, (c) notes payable, (d) accounts payable, and (e) other debt, and total interest. Explain the nature of other debt on which interest was incurred during the year.

(d) Other Interest Expense (Account 431) - Report details including the amount and interest rate for other interest charges incurred during the year.

Line	Item	Amount
No.	(a)	(b)
1	Account 425 Miscellaneous Amortization	—
3	Account 426.1 Donations	1,281,112
4	Account 426.2 Life Insurance - Increase in CSV and Death Benefits	(1,596,257)
5	Account 426.3 Penalties	—
6	Account 426.4 Civic, Political and Related Activities	1,012,855
7	Account 426.5 Other Deductions	13,156
8	Total Account 426	710,866
9	Account 430 Interest on Debt to Associated Companies	—
10	Account 431 Other Interest Expense	
11	Deferred Compensation	536,899
12	Line of Credit	587,989
13	Notes Payable	2,607,594
14	Other	125,730
15	Total Account 431	3,858,212
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		

Blank Page

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	REGULATORY COMMISSION I					
1. Re to form	port below details of regulatory commission expenses incurred during nal cases before a regulatory body, or cases in which such a body wa	g the current year (as a party.	or in previous	years, if being a	mortized) relating	
2. In (In column (b) and (c), indicate whether the expenses were assessed by a regulatory body or were otherwise incurred by the utility.					
	Description	Assessed by		Total	Deferred in	
	(Furnish name of regulatory commission or body, the docket or	Regulatory	Expenses	Expenses to	Account 182.3 at	
Line	case number, and a description of the case.)	Commission	of Utility	Date	Beginning of Year	
No.	(a)	(b)	(C)	(d)	(e)	
1						
2	Northwest Natural does not track e	xpenses by forma	al regulatory	cases.		
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25	Total	•				

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

REGULATORY COMMISSION EXPENSES (Account 928) (Continued)

3. Show in column (k) any expenses incurred in prior years that are being amortized. List in column (a) the period of amortization.

4. Identify separately all annual charge adjustments (ACA)

5. List in column (f), (g), and (h) expenses incurred during year which were charges currently to income, plant, or other accounts.

6. Minor items (less than \$250,000) may be grouped.

			-			-	
Expenses Incurred During Year Charged Currently To	Amortized During Year Contra	Amortized During Year	Deferred in Account 182.3 at End				
Department	Account No.	Amount	Deferred to Account 192.3	Account	Amount	of Year	Line
(f)	(g)	(h)	(i)	(j)	(k)	(I)	No.
							1
	Northwest Na	atural does not track	expenses by formal r	egulatory cases	i.		2
							3
							4
							5
							6
							7
							8
							9
							10
							11
							12
							13
							14
							15
							16
							17
							18
							19
							20
							21
							22
							23
							24
							25

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	Employee Pensions and Benefits (Account 926)	
1. Re	port below the items contained in Account 926, Employee Pensions & Benefits	
Line	Expense	Amount
No.	(a)	(b)
1	Pensions - defined benefit plans	41,801,083
2	Health Benefits	11,866,815
3	Other postemployment benefit plans	3,737,852
4	Pensions - other	3,179,054
5	Benefits dept salaries & wages	2,770,393
6	Stock compensation expenses	1,875,840
7	Defined contribution plans	1,646,517
8	Other Benefits	1,472,711
9	Workers compensation and other STD/Family Leave	357,261
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30	Total	68,707,526

Blank Page

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

DISTRIBUTION OF SALARIES AND WAGES

Report below the distribution of total salaries and wages for the year. Segregate amounts originally charged to clearing accounts to Utility Departments, Construction, Plant Removals and Other Accounts, and enter such amounts in the appropriate lines and columns provided. Salaries and wages billed to the Respondent by an affiliated company must be assigned to the particular operating function(s) relating to the expenses.

In determining this segregation of salaries and wages originally charged to clearing accounts, a method of approximation giving substantially correct results may be used. When reporting detail of other accounts, enter as many rows as necessary numbered sequentially starting with 75.01, 75.02, etc

Line	Classification	Direct Payroll Distribution	Payroll Billed by Affiliated Companies	Allocation of Payroll Charged for Clearing Accounts	Total
No.	(a)	(b)	(C)	(d)	(e)
1	Electric				
2	Operation				
3	Production		_	_	
4	Transmission		_	—	
5	Distribution		_	—	
6	Customer Accounts		_	—	
7	Customer Service and Informational	—	—	—	_
8	Sales	—	_	—	_
9	Administrative and General	—	_	—	
10	TOTAL Operation (Total of lines 3 thru 9)	—	_	—	
11	Maintenance				
12	Production	—	_	—	
13	Transmission	—	_	—	
14	Distribution	_	_	_	
15	Administrative and General	_		_	
16	TOTAL Maint. (Total of lines 12 thru 15)	_		_	
17	Total Operation and Maintenance				
18	Production (Total of lines 3 and 12)	_		_	
19	Transmission (Total of lines 4 and 13)	_		_	
20	Distribution (Total of lines 5 and 14)	_		_	
21	Customer Accounts (Line 6)	_	_	_	
22	Customer Service and Informational (Line 7)	_		_	
23	Sales (Line 8)	_	_	_	
24	Administrative and General (Total of lines 9 and 15)	_	_	_	
25	TOTAL Oper. and Maint. (Total of lines 18 thru 24)	_	_	_	
26	Gas				
27	Operation				
28	Production - Manufactured Gas	_		—	_
29	Production - Nat. Gas (Including Expl. and Dev.)	_	_	_	
30	Other Gas Supply	_	_	_	
31	Storage, LNG Terminaling and Processing	2,449,113	_	331,773	2,780,886
32	Transmission	601,616	_	90,792	692,408
33	Distribution	15,917,213	_	2,356,352	18,273,565
34	Customer Accounts	9,622,224	_	1,356,991	10,979,215
35	Customer Service and Informational	2,489,401	_	283,023	2,772,424
36	Sales	641,740	_	88,064	729,804
37	Administrative and General	22,189,448	_	2,968,495	25,157,943
38	TOTAL Operation (Total of lines 28 thru 37)	53,910,755	_	7,475,490	61,386,245
39	Maintenance			· ·	

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

DISTRIBUTION OF SALAF		AGES (contin	ued)		
Classification	Direct Payroll Distribution	Payroll Billed by Affiliated Companies	Allocation of Payroll Charged for Clearing Accounts	Total	Line
(a)	(b)	(C)	(d)	(e)	No.
Production - Manufactured Gas			—		40
Production - Natural Gas		—	—	_	41
Other Gas Supply		—	—		42
Storage, LNG Terminaling and Processing	570,596	10,911	85,652	667,159	43
Transmission	2,056,312	—	273,866	2,330,178	44
Distribution	7,925,860	_	1,090,970	9,016,830	45
Administrative and General	1,408,089	_	208,935	1,617,024	46
TOTAL Maint. (Total of lines 40 thru 46)	11,960,857	10,911	1,659,423	13,631,191	47
Gas (Continued)					48
Total Operation and Maintenance					49
Production - Manufactured Gas (Lines 28 and 40)	_		_		50
Production - Nat. Gas (Including Expl. and Dev.) (Lines 29 and 41)	_		_		51
Other Gas Supply (Lines 30 and 42)	_	_			52
Storage, LNG Terminaling and Processing (Lines 31 and 43)	3,019,709	10,911	417,425	3,448,045	53
Transmission (Total of lines 32 and 44)	2,657,928	10,011	364,658	3,022,586	54
Distribution (Total of lines 33 and 45)	23,843,073		3,447,322	27,290,395	55
Customer Accounts (Total of line 34)	9,622,224		1,356,991	10,979,215	56
Customer Accounts (Total of line 34) Customer Service and Informational (Total of line 35)					
	2,489,401		283,023	2,772,424	57
Sales (Total of line 36)	641,740		88,064	729,804	58
Administrative and General (Total of lines 37 and 46)	23,597,537	_	3,177,430	26,774,967	59
TOTAL Operation and Maintenance (Total of lines 50 thru 59)	65,871,612	10,911	9,134,913	75,017,436	60
Other Utility Departments					61
Operation and Maintenance					62
TOTAL All Utility Dept. (Total of lines 25,60, and 62)	65,871,612	10,911	9,134,913	75,017,436	63
Utility Plant					64
Construction (By Utility Departments)					65
Electric Plant	_	_	_		66
Gas Plant	37,806,533	22,443	4,361,081	42,190,057	67
Other	_	_	_		68
TOTAL Construction (Total of lines 66 thru 68)	37,806,533	22,443	4,361,081	42,190,057	69
Plant Removal (By Utility Departments)		•			70
Electric Plant	_		_		71
Gas Plant	—	_	_		72
Other	_	_	_	_	73
TOTAL Plant Removal (Total of lines 71 thru 73)	<u> </u>	_			74
Other Accounts (Specify):					75
Merchandising	1,200,132			1,200,132	75.01
Governmental & Public Affairs	223,152		495,926	719,078	75.01
Utility Employee Salary & Wages - Charged to NNGFC	223,132		490,920	201	75.02
Utility Employee Salary & Wages - Charged to Gill Ranch	116,296			116,296	75.04
Utility Employee Salary & Wages - Charged to Gas Storage	487,429			487,429	75.05
Utility Employee Salary & Wages - Charged to Interstate Storage	541,308			541,308	75.06
Utility Employee Salary & Wages - Charged to Coos County			104,326	104,326	75.07
Utility Employee Salary & Wages - Charged to NWN Energy	5,907	—		5,907	75.08
Utility Employee Salary & Wages - Charged to Holdings	190,146	—	—	190,146	75.09
Utility Employee Salary & Wages - Charged to Water	558,947	—	—	558,947	75.10
TOTAL Other Accounts	3,323,518		600,252	3,923,770	76
TOTAL SALARIES AND WAGES	107,001,663	33,354	14,096,246	121,131,263	77

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

CHARGES FOR OUTSIDE PROFESSIONAL AND OTHER CONSULTATIVE SERVICES

1. Report the information specified below for all charges made during the year included in any account (including plant accounts) for outside consultative and other professional services. These services include rate, management, construction, engineering, research, financial, valuation, legal, accounting, purchasing, advertising, labor relations, and public relations, rendered for the respondent under written or oral arrangement, for which aggregate payments were made during the year to any corporation, partnership, organization of any kind, or individual (other than for services as an employee or for payments made for medical and related

(a) Name of person or organization rendering services.

(b) Total charges for the year.

2. Sum under a description "Other" all of the aforementioned services amounting to \$250,000 or less.

3. Total under a description "Total", the total of all of the aforementioned services.

Charges for outside professional and other consultative services provided schedule.

Line Description Amount (in Dollars) No. (a) (b) 1 LOY CLARK CONSTRUCTION 25,031,543 TURNER CONSTRUCTION COMPANY 24,955,007 2 SNC-LAVALIN CONSTRUCTORS INC 14,797,750 3 4 ANCHOR QEA LLC 9,408,699 M10 INC 9,164,686 5 6 **K & D SERVICES OF OREGON** 5,510,330 7 CORPORATE ENVIRONMENTS OF OREGON INC 4.830.000 8 **BURNS & MCDONNELL ENGINEERING** 4,776,183 SEVENSON ENVIRONMENTAL 4,423,837 9 LOCATING INC 4,009,074 10 INFOSYS LIMITED 2,835,434 11 12 **BRIX PAVING** 2,771,761 13 COLORADO STRUCTURES INC 2,063,051 STRATEGIC BUSINESS SOLUTIONS LLC 14 1,913,799 15 AIMS/PVIC 1,701,339 ONLINE ENTERPRISES INC 16 1,670,849 17 PEARL LEGAL GROUP PC 1,565,586 **BROTHERS PIPELINE CORP** 1,526,992 18 19 CONNECTIVE DX INC 1,513,719 20 RAIMORE CONSTRUCTION LLC 1,423,370 DELOITTE CONSULTING LLP 21 1,418,225 22 PRICEWATERHOUSECOOPERS LLP 1,413,430 23 SIEMENS ENERGY INC 1,280,710 24 **COURTNEY & SON INC** 1,156,044 25 SLALOM LLC 974.045 26 CREATIVE MEDIA DEVELOPMENT INC 956,542 954,407 27 LRS ARCHITECTS INC 28 SURVEYS & ANALYSIS INC 945,005 29 850,097 STOEL RIVES LLP 30 HAHN AND ASSOCIATES INC 816,709 31 808.949 E C COMPANY 760,005 32 JH KELLY LLC 33 **GEOENGINEERS INC** 714,989 34 CHRISTENSON ELECTRIC INC 688.160 35 G A W INC 659,186 **TAURUS POWER & CONTROLS** 583,622 36 37 BAKER HUGHES OILFIELD OPERATIONS LLC 530.556 38 C-2 UTILITY CONTRACTORS LLC 526,916 39 GARTNER GROUP INC 518,150 505,959 40 SNAIR EXCAVATING INC ENDURO PIPELINE SERVICES INC 501,891 41

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	CHARGES FOR OUTSIDE PROFESSIONAL AND OTHER CONSULTA	ATIVE SERVICES (Continued)
Line	Description	Amount (in Dollars)
No.	(a)	(b)
42	INFOGROUP NORTHWEST INC	493,304
43	GBD ARCHITECTS INCORPORATED	482,616
44	STANDARD & POOR'S	428,500
45	JPMORGAN CHASE BANK	398,361
46	NORTHWEST STAFFING RESOURCES INC	397,196
47	MCDOWELL RACKNER & GIBSON PC	394,084
48	OREGON WASHINGTON LABORATORIES LLC	392,827
49	PII NORTH AMERICA LLC	389,625
50	REIMERS & JOLIVETTE INC	382,788
51	THE AUTOMATION GROUP INC	381,577
52	NORDISK SYSTEMS INC	366,838
53	RISING RIVER INC	363,294
54	MAGNETO BRAND ADVERTISING	363,133
55	MACKAY SPOSITO	356,814
56	MORGAN LEWIS & BOCKIUS LLP	349,217
57	IRANI ENGINEERING INC	336,046
58	NORWEST ENGINEERING INC	327,581
59	PUREHM US INC	318,128
60	FLUX RESOURCES LLC	317,902
61	HARDER MECHANICAL CONTRACTORS INC	303,400
62	INFINITY DIRECT	293,319
63	FINE LINE CONCRETE CUTTING INC	286,776
64	STANDARD UTILITY CONTRACTORS	282,322
65	ONE CALL CONCEPTS INC	279,764
66	TODD L LAIZURE	279,381
67	JHI ENGINEERING INC	275,495
68	HARRIS GROUP INC	272,376
69	AEROTEK INC	270,603
70	Other (Vendors < \$250k)	11,483,674
71	TOTAL	164,723,547

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

Transactions with Associated (Affiliated) Companies 1. Report below the information called for concerning all goods or services received from or provided to associated (affiliated) companies amounting to more than \$250,000. 2. Sum under a description "Other", all of the aforementioned goods and services amounting to \$250,000 or less. 3. Total under a description "Total", the total of all of the aforementioned goods and services. 4. Where amounts billed to or received from the associated (affiliated) company are based on an allocation process, explain in a footnote the basis of the allocation. Account(s) Amounts Name of Associated/Affiliated Charged or Charged or Line Description of the Goods or Service company Credited Credited No. (a) (b) (C) (d) Goods or Services Provided to an Affiliated Company 1 2 Labor - salaries & overhead NW Natural Water Company, LLC 1,405,738 Various 1,070,179 3 Labor - salaries & overhead NW Natural Gas Storage, LLC Various Gill Ranch Storage, LLC 420,512 4 Labor - salaries & overhead Various Various 5 Labor - salaries & overhead Northwest Natural Holding Company 414,904 Various 6 NW Natural Water Company, LLC 295,734 Indirect costs allocation** and insurance allocation* Reimbursement of insurance premiums and insurance 7 allocation* Gill Ranch Storage, LLC Various 277,248 Other goods and services <\$250,000 Various Various 177,269 8 TOTAL 4,061,584 9 10 11 12 13 14 15 16 17 Goods or Services Received from an Affiliated Company 18 Labor - salaries & overhead NW Natural Gas Storage LLC Various (167,212 19 Various (224,258 KB pipeline demand & volumetric charge **KB** Pipeline Company 20 Other Various Various (72,263 TOTAL 22 (463,733 23 24 25 26 27 28 29 30 31

See Affiliated Interest Report filed annually with the Oregon Public Utility Commission (OPUC) and Washington Utilities and Transportation Commission (WUTC) for further information regarding affiliate allocations and billings.

*2019/2020 prepiad insurance billed to affiliates has a allocation process using consistent methodology to allocate the premiums as needed to the affiliates. The allocation process is consistent with that stated in our cost allocation manual as filed with the Public Utilities Commission (PUC). Policies purchased directly on behalf of affiliates are 100% reimbursed directly and are not included in the allocation - those reimbursements are also included here.

**2019 indirect costs billed to affiliates based on the Massachusetts Method in accordance with our Cost Allocation Manual.

Blank Page

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

COMPRESSOR STATIONS

1. Report below details concerning compressor stations. Use the following subheading; field compressor stations, products extraction compressor stations, underground compressor stations, transmission compressor stations, distribution compressor stations, and other compressor stations.

2. For column (a), indicate the production areas where such stations are used. Group relatively small field compressor stations by production areas. Show the number of stations grouped. Identify any station held under a title other than full ownership. State in a footnote the name of owner or co-owner, the nature of respondent's title, and percent of ownership if jointly owned.

Line	Name of station and location	Number of Units at Station	Certificated Horsepower for Each Station	Plant Cost
No.	(a)	(b)	(c)	(d)
1	Underground Storage Compressors:			
2	Miller Station, Mist, Oregon	4	15,400	41,878,498
3	North Mist, Mist, Oregon	2	3,750	27,599,508
4	(Fuel used is natural gas)			
5	Field Compressors: NON-UTILITY			
6	Molalla, Oregon	2	2,219	7,723,454
7	Deer Island, Oregon	1	1,680	2,774,898
8	(Fuel used is natural gas)			
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
22				
23				
24				
25				

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

COMPRESSOR STATIONS (Continued)

Designate any station that was not operated during the past year. State in a footnote whether the book cost of such station has been retired in the books of account, or what disposition of the station and its book cost are contemplated. Designate any compressor units in transmission compressor stations installed and put into operation during the year and show in a footnote each unit's size and date the unit was placed in operation.

3. For Column (e), include the type of fuel or power, if other than natural gas. If two types of fuel or power are used, show separate entries for natural gas and the other fuel or Power.

J								
Expenses (except depreciation and taxes) Fuel (e)	Expenses (except depreciation and taxes) Power (f)	Expenses (except depreciation and taxes) Other (g)	Gas for Compressor Fuel in Dth (h)	Electricity for Compressor Station kWh (i)	Operational Data Total Compressor Hours of Operation during the Year (j)	Operational Data Number of Compressor Operated at Time of Station Peak (k)	Date of Station Peak (I)	Line No.
4,201	N/A	N/A	250,395	N/A	4,902	2	1/15/19	2
	N/A	N/A	9,400	N/A	2,458	2	8/13/19	3
			0,100		2,100		0,10,10	4
								5
1,587	N/A	N/A	665	N/A	4 *	N/A	N/A	6
68	N/A	N/A	28	N/A	3 *	N/A	N/A	7
								8
								9
								10
								11
								12
								13
								14
								15
								16
								17
								18
								19
								20
								22
								23
								24
			e value of the inve					25

Note: Fuel used by the compressors is added to the value of the inventory and expensed as a cost of gas when the inventory is withdrawn from storage.

* Deer Island and Molalla Gate were not run for production during the year. Both were used for maintenance purposes only.

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

1 Re	nort injections and withdrawals of gas for	GAS STORAGE PROJEC		
Line	Item	Gas Belonging to Respondent (Dth)	Gas Belonging to Others (Dth)	Total Amount (Dth)
No.	(a)			(d)
INU.	(a) STORAGE OPERATIONS (in Dth)	(b)	(C)	(u)
1	Gas Delivered to Storage	-		
2	January			_
3	February	135,379		135,37
4	March	277,139		277,13
5	April	78,804		78,80
6	Мау	228,757	342,415	571,17
7	June	545,155	1,701,866	2,247,02
8	July	2,824,048	460,466	3,284,51
8 9	August	2,824,048	15,271	2,135,30
10	-	601,433	276,035	877,46
10	September	189,544	106,633	296,17
12	October November	1,110,430	613,470	1,723,90
12		7 7	013,470	19,94
	December	19,947 8.130.673	2 516 156	,
14 15	TOTAL (Total of Lines 2 Thru 13) Gas Withdrawn from Storage	8,130,673	3,516,156	11,646,82
-	ő	2.057.008	1	2.057.00
16	January	2,057,998		2,057,99
17	February	2,618,062		2,618,06
18	March	2,155,707		2,155,70
19	April	66,496		66,49
20	May	10,343	6,517	16,86
21	June	22,944	—	22,94
22	July	7,563	136,796	144,35
23	August	8,076	1,912,430	1,920,50
24	September	12,310	1,183,385	1,195,69
25	October	294,395	19,659	314,05
26	November	101,066	9,455	110,52
27	December	380,131	106,373	486,50
28	TOTAL (Total of lines 16 thru 27)	7,735,091	3,374,615	11,109,70

Note 2: Starting in May 2019, NW Natural placed its North Mist gas storage expansion project into service. The activity in column (c) represents the injections and withdrawals into the North Mist storage facility beginning when the facility went into service.

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

GAS STORAGE PROJECTS

	GAS STORAGE PROJECTS	
1. On	line 4, enter the total storage capacity certificated by FERC.	
2. Re in a fo	port total amount in Dth or other unit, as applicable on lines 2, 3, 4, 7. If quantity is converted fron otnote.	n Mcf to Dth, provide conversion factor
Line	ltem	Total Amount (Dth)
No.	(a)	(b)
	STORAGE OPERATIONS	
1	Total of Working Gas End of Year	12,642,284
2	Cushion Gas (Including Native Gas)	9,071,743
3	Total Gas in Reservoir (Total of Line 1 and 2)	21,714,027
4	Certificated Storage Capacity	NA
5	Number of Injection - Withdrawal Wells (Mist only)	25
6	Number of Observation Wells (Mist only)	27
7	Maximum Day's Withdrawal from Storage (All Underground Storage)	315,622
8	Date of Maximum Days' Withdrawal	1/15/19
9	LNG Terminal Companies	2
10	Number of Tanks	2
11	Capacity of Tanks (in Dth)	1,600,000
12	LNG Volumes	
13	Received at "Ship Rail"	—
14	Transferred to Tanks	985,035
15	Withdrawn from Tanks	995,517
16	"Boil Off" Vaporization Loss	—
Note 7	: The working gas on line 1 above includes gas recorded in the 164.1 and 164.3 accounts. It exc	ludes the working gas at our North Mist

Note 1: The working gas on line 1 above includes gas recorded in the 164.1 and 164.3 accounts. It excludes the working gas at our North Mist facility as that gas is owned by the storage customer and is not included in NW Natural's accounts. Note 2: The cushion gas on line 2 includes the cushion gas at the North Mist facility as that gas is owned by NW Natural and included in a 117.4 account.

Г

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2)		December 31, 2019

TRANSMISSION LINES

1. Report below, by state, the total miles of transmission lines of each transmission system operated by respondent at end of year.

2. Report separately any lines held under a title other than full ownership. Designate such lines with an asterisk, in column (b) and in a footnote state the name of the owner, or co-owner, nature of respondent's title, and percent of ownership if jointly owned.

 Report separately any line that was not operated during the past year. Enter in a footnote the details and state whether the book cost of such a line, or any portion thereof, has been retired in the books of account, or what disposition of the line and its book costs are contemplated.
 Report the number of miles of pipe to one decimal point.

Line	Designation (Identification) of Line or Group of Lines	*	Total Miles of Pipe
No.	(a)	(b)	(C)
1	State of Oregon		656.0
2	State of Washington		3.5
3	State of Oregon - Kelso - Beaver	*	1.0
4	State of Washington - Kelso - Beaver	*	17.0
5	State of Oregon - Coos County Pipeline	**	76.9
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

** Coos County Pipeline is operated by NW Natural on behalf of Coos County.

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

AUXILIARY PEAKING FACILITIES

1. Report below auxiliary facilities of the respondent for meeting seasonal peak demands on the respondent's system, such as underground storage projects, liquefied petroleum gas installations, gas liquefaction plants, oil gas sets, etc.

2. For column (c), for underground storage projects, report the delivery capacity on February 1 of the heating season overlapping the year-end for which this report is submitted. For other facilities, report the rated maximum daily delivery capacities.

3. For column (d), include or exclude (as appropriate) the cost of any plant used jointly with another facility on the basis of predominant use, unless the auxiliary peaking facility is a separate plant as contemplated by general instruction 12 of the Uniform System of Accounts.

Line	Location of Facility	Type of Facility	Maximum Daily Delivery Capacity of Facility (Dth)	Cost of Facility (in dollars)	Was Facility Operated on Day of Highest Transmission Peak Delivery
No.	(a)	(b)	(C)	(d)	
1	Portland, OR	LNG	120,000	26,205,104	Yes
2	Newport, OR	LNG	100,000	53,234,138	Yes
3	Mist, OR	Underground	520,000	147,508,357	Yes
4	North Mist, Mist, OR	Underground	120,000	75,329,625	Yes
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

GAS ACCOUNT - NATURAL GAS

1. The purpose of this schedule is to account for the quantity of natural gas received and delivered by the respondent.

2. Natural gas means either natural gas unmixed or any mixture of natural and manufactured gas.

3. Enter in column (c) the Dth as reported in the schedules indicated for the items of receipts and deliveries.

4. Indicate in a footnote the quantities of bundled sales and transportation gas and specify the line on which such quantities are listed.

5. If the respondent operates two or more systems which are not interconnected, submit separate pages for this purpose. Use copies of pages 520.

6. Indicate by footnote the quantities of gas not subject to Commission regulation which did not incur FERC regulatory costs by showing (1) the local distribution volumes another jurisdictional pipeline delivered to the local distribution company portion of the reporting pipeline (2) the quantities that the reporting pipeline transported or sold through its local distribution facilities or intrastate facilities and which the reporting pipeline, and (3) the gathering facilities that were not destined for interstate market of that were not destined for interstate portion of the reporting pipeline, and (3) the gathering line quantities that were not destined for interstate market of that were not through any interstate portion of the reporting of the reporting pipeline.

7. Indicate in a footnote the specific gas purchase expense account(s) and related to which the aggregate volumes reported on Line 3 relate

relate. 8. Indicate in a footnote (1) the system supply quantities of gas that are stored by the reporting pipeline, during the reporting year and also reported as sales, transportation and compression volumes by the reporting pipeline during the same reporting year, (2) the system supply quantities of gas that are stored by the reporting pipeline during the reporting year which the reporting pipeline intends to sell or transport in a future reporting year, and (3) contract storage quantities.

9. Indicate the volumes of pipeline production field sales that are included in both the company's total sales figure and the company's total transportation figure. Add additional information as necessary to the footnotes.

Line	Item	Ref. Page No.	
No.	(a)	(b)	(C)
1 NAME OF			
2 GAS RECI			
	ases (Accounts 800-805)		83,394,57
	ers Received for Gathering (Account 489.1)	303	N//
5 Gas of Oth	ers Received for Transmission (Account 489.2)	305	N//
	ers Received for Distribution (Account 489.3) Transportation	301	39,674,36
	ers Received for Contract Storage (Account 489.4)	306	3,374,61
8 Gas of Oth	er Received for Production/Extraction/Processing (Account 490 and 491)		N/.
9 Exchanged	I Gas Received from Others (Account 806)	328	N/.
10 Gas Recei	ved as Imbalances (Account 806)	328	N//
11 Receipts o	f Respondent's Gas Transported by Others (Account 858)	332	N//
12 Other Gas	Withdrawn from Storage (Explain) Underground and LNG Storage	512	7,735,09
13 Gas Recei	ved from Shippers as Compressor Station Fuel		-
14 Gas Recei	ved from Shippers as Lost and Unaccounted for		-
15 Other Rec	eipts (Specify) LPG		-
16 Total Rece	ipts (Total of lines 3 thru 14)		134,178,64
17 GAS DELI	VERED		
18 Gas Sales	(Accounts 480-495)		81,841,00
19 Deliveries	of Gas Gathered for Others (Account 489.1)	303	-
20 Deliveries	of Gas Transported for Others (Account 489.2)	305	N/.
21 Deliveries	of Gas Distributed for Others (Account 489.3) Transportation	301	39,674,36
22 Deliveries	of Contract Storage Gas (Account 489.4)	306	3,374,61
23 Gas of Oth	er Delivered for Production/Extraction/Processing (Account 490 and 491)		N/.
24 Exchange	Gas Delivered to Others (Account 806)	328	N//
25 Gas Delive	red as Imbalances (Account 806)	328	N//
26 Deliveries	of Gas to Others for Transportation (Account 858)	332	N//
27 Other Gas	Delivered to Storage (Explain) Underground and LNG Storage	512	8,130,67
28 Gas Used	for Compressor Station Fuel	331	250,39
29 Other Deliv	veries (Specify): Company Use	331	363,17
30 Total Deliv	eries (Total of lines 17 thru 27)		133,634,21
31 GAS LOSS	SES AND GAS UNACCOUNTED FOR		
32 Gas Losse	s and Gas Unaccounted For		544,42
33 TOTALS			
34 Total Deliv	eries, Gas Losses & Unaccounted for (Total of lines 30 and 32)		134,178,64
	Gas Purchases on line three are recorded in FERC account 801.		•

NORTHWEST NATURAL GAS COMPANY

Oregon Supplement to FERC Form 2

December 31, 2019

Blank Page

ANNUAL REPORT OREGON SUPPLEMENT TO FERC FORM 2

for

MULTI-STATE GAS COMPANIES

INDEX

<u>PAGE</u>

<u>TITLE</u>

1	Statement of Utility Operating Income for the Year
2	Gas Operating Revenues
3	Interdepartmental Sales - Natural Gas
3	Rent from Gas Property and Interdepartmental Rents
4 - 9	Gas Operation and Maintenance Expenses
10	Depreciation, Depletion, and Amortization of Gas Plant
11	Taxes, Other Than Income Taxes
12	Calculation of Current Federal Income Tax Expense
13	Calculation of Current State Income Taxes (Excise) Tax Expense
14 - 15	Accumulated Deferred Income Taxes, Account 190
16 - 17	Accumulated Deferred Income Taxes - Accelerated Amortization Property, Account 281
18 - 19	Accumulated Deferred Income Taxes - Other Property, Account 282
20 - 21	Accumulated Deferred Income Taxes - Other, Account 283
22	Accumulated Deferred Investment Tax Credits, Account 255
23	Summary of Utility Plant and Accumulated Provisions for Depreciation, Amortization & Depletion - Situs
24 - 27	Gas Plant in Service by Account - Situs
28	Gas Plant Held for Future Use - Situs
29	Construction Work in Progress - Situs
30	Accumulated Provision for Depreciation of Gas Utility Plant - Situs
31	Summary of Utility Plant & Accumulated Provisions for Depreciation, Amortization & Depletion - Allocated
32 - 35	Gas Plant in Service by Account - Allocated
36	Gas Plant Held for Future Use - Allocated
37	Construction Work in Progress - Allocated
38	Accumulated Provision for Depreciation of Gas Utility Plant - Allocated
39	Gas Stored
40 - 42	Gas Purchases
43	Gas Used in Utility Operations - Credit
44 - 45	Gas Account - Natural Gas
46	Miscellaneous General Expenses
47	Political Advertising
48	Political Contributions
49	Expenditures to Any Person or Organization Having an Affiliated Interest for Services, etc.
50	Donations and Memberships
51	Officers' Salaries
52	Donations or Payments for Services Rendered By Persons Other Than Employees and Charged to Oregon Operating Accounts
53	Oregon Gas Utility Statistics
Supplemental page	Distribution of Salaries and Wages

PUC FORM 695 (04/07)

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2)		December 31, 2019

STATE OF OREGON - STATEMENT OF INCOME FOR THE YEAR					
		(REF)	GAS L	JTILITY	
Line	Account	(REF.) PAGE NO.	Current Year	Previous Year	
No.	(a)	(b)	(c)	(d)	
1	UTILITY OPERATING INCOME				
2	Operating Revenues (400)	2			
3	Operating Expenses				
4	Operation Expenses (401)	4-9			
5	Maintenance Expenses (402)	4-9			
6	Depreciation Expense (403)	10			
7	Amort. & Depl. of Utility Plant (404-405)	10			
8	Amort. of Utility Plant Acq. Adj. (406)	10			
9	Amort of Property Losses, Unrecovered Plant and Regulatory Study Costs (407)				
10	Amort. of Conversion Expenses (407)				
11	Taxes Other Than Income Taxes (408.1)	11			
12	Income Taxes - Federal (409.1)	12			
13	Income Taxes - Other (409.1)	13			
14	Provision for Deferred Income Taxes (410.1)	14-21			
15	(Less) Provision for Deferred Income Taxes-Cr. (411.1)	14-21			
16	Investment Tax Credit Adj Net (411.4)	22			
17	(Less) Gains from Disp. of Utility Plant (411.6)				
18	Losses from Disp. of Utility Plant (411.7)				
19	TOTAL Utility Operating Expenses (Total of lines 4 thru 18)				
20	Net Utility Operating income (Enter Total of line 2 less 19)				

SEE FERC ANNUAL REPORT PAGES 114-116

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	STATE	OF OREGON	- GAS OPERAT	ING REVENUES	(Account 400)		
		OPERATING REVENUES		Dth of NATURAL GAS SOLD AVG. NO. OF NAT. GAS CUSTOME			CUSTOMERS PER MO.
Line	Account	Current Year	Previous Year	Current Year	Previous Year	Current Year	Previous Year
No.	(a)	(b)	(C)	(d)	(e)	(f)	(g)
1	GAS SERVICE REVENUES						
2	480 Residential Sales	383,026,977	362,316,051	40,233,286	36,293,699	606,803	598,016
3	481 Commercial and Industrial Sales						
4	Small or Commercial	192,628,868	183,740,605	25,275,565	22,812,491	62,026	61,199
5	Large or Industrial	34,903,041	37,291,202	7,968,062	8,149,773	1,047	1,094
6	482 Other Sales to Public Authorities		—	_		—	
7	484 Interdepartmental Sales		—	_	_	—	
8	TOTAL Sales to Ultimate Consumers	610,558,886	583,347,858	73,476,913	67,255,963	669,876	660,309
9	483 Sales for Resale		—	_	_	_	_
10	TOTAL Nat. Gas Service Revenues	610,558,886	583,347,858	73,476,913	67,255,963	669,876	660,309
11	Revenues from Manufactured Gas		—				
12	TOTAL Gas Service Revenues	610,558,886	583,347,858				
13	OTHER OPERATING REVENUES						
14	485 Intercompany Transfers	_					
15	487 Late Payment Charge	1,985,517	1,926,634				
16	488 Misc. Service Revenues	1,217,881	1,277,135				
17	489 Rev. From Trans. of Gas of Others (See Note 1)	31,999,169	19,420,265				
18	490 Sales of Prod. Ext. from Natural Gas	_	_				
19	491 Rev. from Nat. Gas Proc. by Others	_					
20	492 Incidental Gasoline and Oil Sales	_					
21	493 Rent from Gas Property	164,377	180,948				
22	494 Interdepartmental Rents	_	_				
23	495 Other Gas Revenues	(5,718,286)	(2,556,867)				
24	TOTAL Other Operating Revenues	29,648,658	20,248,115				
25	TOTAL Gas Operating Revenues	640,207,544	603,595,973				
26	(Less) 496 Provision for Rate Refunds	_	_				
27	TOTAL Gas Operating Revenues Net of Provision for refund	640,207,544	603,595,973				
28	Dist. Type Sales by State (Incl. Main Line Sales to Resid. and Comm. Custrs.)	575,655,845	546,056,656	65,508,851			
29	Main Line Industrial Sales (Incl. Main Line Sales to Pub. Authorities)	34,903,041	37,291,202	7,968,062			
30	Sales for Resale	_	—	_			
31	Other Sales to Pub. Auth. (Local Dist. Only)	_	—	_			
32	Interdepartmental Sales	_	—	_			
33	TOTAL (Same as Line 10, Columns (b) and (d))	610,558,886	583,347,858	73,476,913			
Note 1	I: Included in Line 17, 489 Rev. From Trans. of Gas of	Others, is revenue f	or gas storage servi	ces provided at North	n Mist.		

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	STATE OF OREGON - INTERDEPARTMENTAL SALES - NATURAL GAS (Account 484)					
	Report particulars concer	ming sales of natural gas inclue	ded in Account 484			
LINE	DEPARTMENT AND BASIS OF CHARGES	POINT OF DELIVERY	MCF (14.73 psia at 60° F)	REVENUE		
NO.	(a)	(b)	(C)	(d)		
	NOT APPLICABLE					
	RENT FROM GAS PROPERTY ANI	D INTERDEPARTMENTAL	. RENTS (Accounts	493, 494)		
1. Rep	port particulars concerning rents received, included in	Accounts 493 and 494.				
	or rents may be entered at the total amount for each					
Accou	ents are included which were arrived at under an arra ccount represents profit or return on property, depreci int 493 or 494. wide a subheading and total for each account.	ngement for apportioning expens ation, and taxes, give particulars	es of a joint facility, whereb and the basis of apportion	by the amount included in ment of such charges to		
	j j		AMOUNT OF REV	ENUE FOR YEAR		
LINE	NAME OF LESSEE OR DEPARTMENT (Designate associated companies)	DESCRIPTION OF PROPERTY	NATURAL GAS PROPERTY	MANUFACTURED GAS PROPERTY		
NO.	(a)	(b)	(C)	(d)		
	ACCOUNT 493 - RENT FROM GAS PROPERTY			•		
1	City of Portland	CNG Meter Rental	224,238			
2	Other	Communication and other	164,377			
			388,615			

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗖 A Resubmission		December 31, 2019

	STATE OF OREGON ALLOCATED - GAS OPERATION If the amount for previous year is not derived from previously re		
Line	Account	Amount for Current Year	Amount for Previous Year
No.	(a)	(b)	(c)
1	1. PRODUCTION EXPENSES		
2	A. Manufactured Gas Production		
3	Manufactured Gas Production (Detail Page 4A)	_	_
4	B. Natural Gas Production		
5	B1. Natural Gas Production and Gathering	-	
6	Operation	-	
7	750 Operation Supervision and Engineering	_	_
8	751 Production Maps and Records	_	_
9	752 Gas Wells Expenses	_	_
10	753 Field Lines Expenses		
11	754 Field Compressor Station Expenses		
12	755 Field Compressor Station Fuel and Power		
13	756 Field Measuring and Regulating Station Expenses		
14	757 Purification Expenses		
15	758 Gas Well Royalties		EPORT PAGES 317-325
16	759 Other Expenses		
10	760 Rents		
18 19	TOTAL Operation (Total of lines 7 thru 17) Maintenance		
20	761 Maintenance Supervision and Engineering		
21	762 Maintenance of Structures and Improvements		
22	763 Maintenance of Producing Gas Wells		
23	764 Maintenance of Field Lines		
24	765 Maintenance of Field Compressor Station Equipment		
25	766 Maintenance of Field Meas. and Regulating Station Equipment		
26	767 Maintenance of Purification Equipment		
27	768 Maintenance of Drilling and Cleaning Equipment		_
28	769 Maintenance of Other Equipment		_
29	TOTAL Maintenance (Total of lines 20 thru 28)		
30	TOTAL Natural Gas Production and Gathering (Total of lines 18 and 29)		
31	B2. Products Extraction		
32	Operation		
33	770 Operation Supervision and Engineering	_	_
34	771 Operation Labor	_	_
35	772 Gas Shrinkage	_	_
36	773 Fuel	-	_
37	774 Power	-	
38	775 Materials	-	_
39	776 Operation Supplies and expenses	_	_
40	777 Gas Processed by Others		_
41	778 Royalties on Products Extracted	—	_
42	779 Marketing expenses		- –
43	780 Products Purchased for Resale		_
44	781 Variation in Products Inventory		_
45	(Less) 782 Extracted Products Used by the Utility-Credit		_
46	783 Rents		
47	Total Operation (Total of Lines 33 thru 46)	_	_

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

NSES	ND MAINTENANCE EXPI	STATE OF OREGON ALLOCATED - GAS OPERATION	
ount for Previous Yea	Amount for Current Year Am	Account	Line
(C)	(b)	(a)	No.
		A. Manufactured Gas Production Detail	1
		SEE FERC ANNUAL REPORT PAGES 317-325	
		SEE FERG ANNUAL REPORT PAGES 317-325	

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) ⊠ An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

S	TATE OF OREGON ALLOCATED - GAS OPERATION AN	ID MAINTENANCE E	XPENSES (Con't)
Line	Account	Amount for Current Year	Amount for Previous Year
No.	(a)	(b)	(C)
48	Maintenance		
49	784 Maintenance Supervision and Engineering		_
50	785 Maintenance of Structures and Improvements	-	—
51	786 Maintenance of Extraction and Refining Equipment		—
52	787 Maintenance of Pipe Lines		—
53	788 Maintenance of Extracted Products Storage Equipment	_	_
54	789 Maintenance of Compressor Equipment	SEE FERC ANNUAL R	EPORT PAGES 317-325
55	790 Maintenance of Gas Measuring and Regulating Equipment	_	_
56	791 Maintenance of Other Equipment	_	_
57	TOTAL Maintenance (Total of lines 49 thru 56)	_	
58	TOTAL Products Extraction (Total of lines 47 and 57)	_	_
59	C. Exploration and Development		
60	Operation		
61	795 Delay Rentals	_	_
62	796 Nonproductive Well Drilling	_	
63	797 Abandoned Leases		_
64	798 Other Exploration	_	
65	TOTAL Exploration and Development (Total of lines 61 thru 64)	_	
66	D. Other Gas Supply Expenses		
67	Operation	-	
68	800 Natural Gas Well Head Purchases	_	
69	800.1 Natural Gas Well Head Purchases, Intracompany Transfers	_	
70	801 Natural Gas Field Line Purchases		
71	802 Natural Gas Gasoline Plant Outlet Purchases		
72	803 Natural Gas Transmission Line Purchases		
73	804 Natural Gas City Gate Purchases		
73	804.1 Liquefied Natural Gas Purchases	-	
74	805 Other Gas Purchases		
76	(Less) 805.1 Purchases Gas Cost Adjustments		
70	TOTAL Purchased Gas (Total of Lines 68 thru 76)		
78	806 Exchange Gas		
79	Purchased Gas Expense		
80	807.1 Well Expense-Purchased Gas		—
81	807.2 Operation of Purchased Gas Measuring Stations		
82	807.3 Maintenance of Purchased Gas Measuring Stations	-	
83	807.4 Purchased Gas Calculations Expense		
84	807.5 Other Purchased Gas Expenses		
85	TOTAL Purchased Gas Expense (Total of lines 80 thru 84)		—
86	808.1 Gas Withdrawn from Storage-Debit		—
87	(Less) 808.2 Gas Delivered to Storage-Credit		—
88	809.1 Withdrawals of Liquefied Natural Gas for Processing-Debit		—
89	(Less) 809.2 Deliveries of Natural Gas for Processing-Credit	-	
90	Gas used in Utility Operation-Credit		
91	810 Gas Used for Compressor Station Fuel-Credit		_
92	811 Gas Used for Products Extraction-Credit		
93	812 Gas Used for Other Utility Operations-Credit		
94	TOTAL Gas Used in Utility Operations-Credit (lines 91 thru 93)		—
95	813 Other Gas Supply Expenses		—
96	TOTAL Other Gas Supply Exp. (Total of lines 77, 78, 85, 86-89, 94, 95)		
97	TOTAL Production Expenses (Total of lines 3, 30, 58, 65, 96)		_

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗖 A Resubmission		December 31, 2019

	STATE OF OREGON ALLOCATED - GAS OPERATION AND N		
Line	Account		Amount for Previous Year
No.		(b)	(C)
98	2. NATURAL GAS STORAGE, TERMINALING AND PROCESSING EXPENSES	_	
99	A. Underground Storage Expenses	-	
100	Operation		
101	814 Operation Supervision and Engineering	-	
102	815 Maps and Records		
103	816 Well Expenses		
104	817 Lines Expenses	-	
105	818 Compressor Station Fuel and Power	SEE FERC ANNUAL R	EPORT PAGES 317-325
106	819 Compressor Station Fuel and Power		
107	820 Measuring and Regulating Station Expenses		
108	821 Purification Expenses		
109	822 Exploration and Development	-	
110	823 Gas Losses		
111	824 Other Expenses		
112	825 Storage Well Royalties		
113	826 Rents		
114	TOTAL Operation (Total of lines of 101 thru 113)		
115	Maintenance		
116	830 Maintenance Supervision and Engineering		
117	831 Maintenance of Structures and Improvements		
118	832 Maintenance of Reservoirs and Wells		
119	833 Maintenance of Lines		
120	834 Maintenance of Compressor Station Equipment		
121	835 Maintenance of Measuring and Regulating Station Equip.		
122	836 Maintenance of Purification Equipment		
123	837 Maintenance of Other Equipment		
124	TOTAL Maintenance (Total of lines 116 thru 123)		
125	TOTAL Underground Storage Expenses (lines 114 and 124)		
126	B. Other Storage Expenses		
127	Operation		
128	840 Operation supervision and Engineering	_	
129	841 Operation Labor and Expenses	_	
130	842 Rents	_	
131	842.1 Fuel	_	
132	842.2 Power	_	
133	842.3 Gas Losses	—	
134	TOTAL Operation (Total of lines 128 thru 133)	-	
135	Maintenance		
136	843.1 Maintenance Supervision and Engineering		
137	843.2 Maintenance of Structures and Improvements	_	
138	843.3 Maintenance of Gas Holders		
139	843.4 Maintenance of Purification Equipment		
140	843.5 Maintenance of Liquefaction Equipment		
141	843.6 Maintenance of Vaporizing Equipment		
142	843.7 Maintenance of Compressor Equipment	- 1	_
143	843.8 Maintenance of Measuring and Regulating Equipment		_
144	843.9 Maintenance of Other Equipment		_
145	TOTAL Maintenance (Total of lines 136 thru 144)	_	
146	TOTAL Other Storage Expenses (Total of lines 134 and 145)	_	

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	STATE OF OREGON ALLOCATED - GAS OPERATION AND	MAINTENANCE EXPE	ENSES (Con't)
Line	Account	Amount for Current Year	Amount for Previous Year
No.	(a)	(b)	(C)
147	C. Liquefied Natural Gas Terminaling and Processing Expenses		
148	Operation		
149	844.1 Operation Supervision and Engineering	-	—
150	844.2 LNG Processing Terminal Labor and Expenses	-	—
151	844.3 Liquefaction Processing Labor and Expenses		
152	844.4 Liquefaction Transportation Labor and Expenses		
153	844.5 Measuring and Regulating Labor and Expenses	SEE FERC ANNUAL R	EPORT PAGES 317-325
154	844.6 Compressor Station Labor and Expenses	—	_
155	844.7 Communication system Expenses		
156	844.8 System Control and Load Dispatching	-	
157	845.1 Fuel		_
158	845.2 Power	_	_
159	845.3 Rents	_	_
160	845.4 Demurrage Charges		_
161	(Less) 845.5 Wharfage Receipts-Credit	_	_
162	845.6 Processing Liquefied of Vaporized Gas by Others	_	_
163	846.1 Gas Losses	_	_
164	846.2 Other Expenses	_	_
165	TOTAL Operation (Total of lines 149 thru 164)	_	_
166	Maintenance		
167	847.1 Maintenance Supervision and Engineering	_	_
168	847.2 Maintenance of Structures and Improvements		_
169	847.3 Maintenance of LNG Processing Terminal Equipment		_
170	847.4 Maintenance of LNG Transportation Equipment	_	_
171	847.5 Maintenance of Measuring and Regulating Equipment		
172	847.6 Maintenance of Compressor Station Equipment		_
173	847.7 Maintenance of Communication Equipment		_
174	847.8 Maintenance of Other Equipment		
175	TOTAL Maintenance (Total of lines 167 thru 174)		_
176	TOTAL Liquefied Nat Gas Terminaling and Proc Exp (Total of lines 165 & 175)		_
177	TOTAL Natural Gas Storage (Total of lines 125, 146, and 176)		_
178	3. TRANSMISSION EXPENSES		
179	Operation		
180	850 Operation Supervision and Engineering	_	
181	851 System Control and Load Dispatching	_	_
182	852 Communication system Expenses	_	_
183	853 Compressor Station Labor and Expenses	_	_
184	854 Gas for Compressor Station Fuel		_
185	855 Other Fuel and Power for Compressor Stations		_
186	856 Mains Expenses		_
187	857 Measuring and Regulating Station Expenses		_
188	858 Transmission and Compression of Gas by Others		_
189	859 Other Expenses		—
190	860 Rents		_
191	TOTAL Operations (Total of lines 180 thru 190)		_
	· · · · ·	- I	

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	STATE OF OREGON ALLOCATED - GAS OPERATION AND	MAINTENANCE EXPE	ENSES (Con't)
Line	Account	Amount for Current Year	Amount for Previous Year
No.	(a)	(b)	(C)
192	Maintenance		
193	861 Maintenance Supervision and Engineering	_	_
194	862 Maintenance of Structures and Improvements	_	_
195	863 Maintenance of Mains	_	_
196	864 Maintenance of Compressor Station Equipment	_	
197	865 Maintenance of Measuring and Regulating Station Equipment		
198	866 Maintenance of Communication Equipment		
199	867 Maintenance of Other Equipment	SEE FERC ANNUAL R	EPORT PAGES 317-325
200	TOTAL Maintenance (Total of lines 193 thru 199)	_	_
201	TOTAL Transmission Expenses (Total of lines 191 and 200)		
202	4. DISTRIBUTION EXPENSES		
203	Operation	-	
204	870 Operation Supervision and Engineering	_	
205	871 Distribution Load Dispatching		
205	872 Compressor Station Labor and Expenses		
200	873 Compressor Station Fuel and Power		
207	874 Mains and Services Expenses		
200	875 Measuring and Regulating Station Expenses-General		
209	876 Measuring and Regulating Station Expenses-General		
210	877 Measuring and Regulating Station Expenses-Industrial		
		-	
212	878 Meter and House Regulator Expenses		
213	879 Customer Installations Expenses		
214	880 Other Expenses		
215	881 Rents		
216	TOTAL Operations (Total of lines 204 thru 215)	-	
217	Maintenance		
218	885 Maintenance Supervision and Engineering		
219	886 Maintenance of Structures and Improvements		
220	887 Maintenance of Mains		
221	888 Maintenance of Compressor Station Equipment		
222	889 Maintenance of Measuring & Regulating Station Equipment-General		_
223	890 Maintenance of Meas. and Reg. Station Equipment-Industrial	_	_
224	891 Maintenance of Meas & Reg Station Equip-City Gate	_	_
225	892 Maintenance of Services	-	—
226	893 Maintenance of Meters and House Regulators	-	—
227	894 Maintenance of Other Equipment	-	
228	TOTAL Maintenance (Total of lines 218 thru 227)	-	
229	TOTAL Distribution Expenses (Total of lines 216 and 228)	_	_
230	5. CUSTOMER ACCOUNTS EXPENSES		
231	Operation		
232	901 Supervision	-	_
233	902 Meter Reading Expenses	_	_
234	903 Customer Records and Collection Expenses		_
235	904 Uncollectible Accounts	-	_
236	905 Miscellaneous Customer Accounts Expenses		
237	TOTAL Customer Accounts Expenses (Total of lines 232-236)		
238	6. CUSTOMER SERVICE AND INFORMATIONAL EXPENSE		
239	Operation		
233	907 Supervision		
240	908 Customer Assistance Expense		
241	909 Informational and Instructional Expenses		
243	910 Miscellaneous Customer Service and Informational Expenses		
244	TOTAL Customer Service & Information Expenses (Total of lines 240 thru 243)		

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	STATE OF OREGON ALLOCATED - GAS OPERATION AND M	IAINTENANCE EXPE	ENSES (Con't)
Line	Account	Amount for Current Year	Amount for Previous Year
No.	(a)	(b)	(C)
245	7. SALES EXPENSES		
246	Operation		
247	911 Supervision	-	—
248	912 Demonstration and Selling Expenses	-	—
249	913 Advertising Expenses	_	—
250	916 Miscellaneous Sales Expenses	SEE FERC ANNUAL R	EPORT PAGES 317-325
251	TOTAL Sales Expenses (Total of lines 247 thru 250)	_	—
252	8. ADMINISTRATIVE AND GENERAL EXPENSES		
253	Operation		
254	920 Administrative and General Salaries	-	—
255	921 Office Supplies and Expenses	-	—
256	(Less) 922 Administrative Expenses Transferred - Credit	-	—
257	923 Outside Services Employed	_	—
258	924 Property Insurance	_	—
259	925 Injuries and Damages (See Note 1 Below)	-	—
260	926 Employee Pensions and Benefits	-	—
261	927 Franchise Requirements	-	—
	928 Regulatory Commission Expenses	-	—
263	(Less) 929 Duplicate Charges - Credit	-	—
264	930.1 General Advertising Expenses	_	—
265	930.2 Miscellaneous General Expenses	_	_
266	931 Rents	-	—
267	TOTAL Operation (Total of lines 254 thru 266)	-	—
268	Maintenance		
269	935 Maintenance of General Plant	_	—
270	TOTAL Administrative and General Expenses (Total of lines 267 and 269)		
271	TOTAL Gas O & M Expenses (Total of lines 97,177, 201, 229, 237, 244, 251, and 270)		_

	STATE OF OREGON ALLOCATED - GAS OPERATION AND MAINTENANCE EXPENSES				
Line	FUNCTIONAL CLASSIFICATIONS	OPERATION	MAINTENANCE	TOTAL	
No.	(a)	(b)	(C)	(d)	
272	Production				
273	Manufactured Gas				
274	Natural gas:				
275	Production and Gathering				
276	Products Extraction				
277	Exploration and Dev.				
278	TOTAL Natural Gas	INFORMATION I	NOT AVAILABLE		
279	Other Gas Supply Expenses	SEE FERC ANNUAL RE	EPORT PAGES 317-325		
280	TOTAL Production				
281	Underground Storage				
282	Other Storage				
283	LNG Terminaling and Processing				
284	Transmission Expenses				
285	Distribution Expenses				
286	Customer Accounts Expenses				
287	Customer Service and Informational Expenses				
288	Sales Expenses				
289	Adm. and General Expenses				
290	TOTAL Gas O. & M. Expenses				

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

ST	ATE OF OREGO	ON - ALLOCATE	D DEPRECIATIO Account 403, 404	N, DEPLETION, A 4.1, 404.2, 404.3, 4	ND AMORTIZAT	ION OF GAS PI	ANT
			(Except Amortization of	of Acquisitions Adjustme	ents)		
F	Report the amounts o	f depreciation expen	se, depletion and amo functional	rtization for the accoun groups shown.	ts indicated and class	sify according to the	plant
Line	FUNCTIONAL CLASSIFICATION	DEPRECIATION EXPENSE (ACCOUNT 403)	AMORTIZATION & DEPLETION OF PRODUCING NATURAL GAS LAND & LAND RIGHTS (ACCOUNT 404.1)	AMORTIZATION OF UNDERGROUND STORAGE LAND & LAND RIGHTS (ACCOUNT 404.2)	AMORTIZATION OF OTHER LIMITED-TERM GAS PLANT (ACCOUNT 404.3)	AMORTIZATION OF OTHER GAS PLANT (ACCOUNT 405)	TOTAL
No.	(a)	(b)	(C)	(d)	(e)	(f)	(g)
1	Intangible Plant						
2	Production Plant, Manufactured Gas						
3	Production and Gathering Plant, Natural Gas		N/A - See SITUS sch	nedule at OR 30			
4	Products Extraction Plant						
5	Underground Gas Storage Plant						
6	Other Storage Plant						
7	Base Load LNG Terminaling and Processing Plant						
8	Transmission Plant						
9	Distribution Plant						
10	General Plant						
11	Common Plant - Gas						
12							
13							
14							
15							
16							
17							
18	7074						
19	TOTAL						

Name of Respondent This Report is:		Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATE OF	OREGON - ALLOCATED TAXES, OTHER THAN INCOME	
Line	KIND OF TAX	AMOUNT
No.	(a)	(b)
TOTAL (Must	SEE FERC ANNUAL REPORT PAGES 262a - 263b	
		I

Name of Respondent		This Report is:	Date of Report	Year of Report
		(1) 🗵 An Original	(Mo, Da, Yr)	
	Northwest Natural Gas Company	(2) 🗖 A Resubmission		December 31, 2019

STATE OF OREGON - ALLOCATED CALCULATION OF CURRENT FEDERAL INCOME TAX EXPENSE (Account 409.1)

1. Report amounts used to derive current Federal income tax expense, Account 409.1, for the reporting period. If amounts are shown in thousands, show (000) in the heading for column (b).

2. Show amounts increasing taxable income as positive values and amounts decreasing taxable income as negative.

3. Current tax expense on this schedule must match the amount reported on page 1, line 12 of this report. Separately identify adjustments arising from revisions of prior year accruals.

4. Minor amounts of other additions (subtractions) may be grouped.

Line	PARTICULARS (Details)	AMOUNT
No.	(a)	(b)
1	Gas Operating Revenues	
2	Operations and Maintenance Expenses	
3	Taxes, Other than Income	
4	State Income (Excise) Tax	
5	Interest	
6	Federal Income Tax Depreciation	
7	Other Additions (Subtractions) to Derive Taxable Income	
8		
9		
10		
11		
12		
13		
14	SEE FERC ANNUAL REPORT	
15	PAGE 261	
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27	Federal Tax Net Income	
28	Show Computation of Tax:	

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗖 A Resubmission		December 31, 2019

STATE OF OREGON - ALLOCATED CALCULATION OF CURRENT FEDERAL INCOME TAX EXPENSE (Account 409.1)

1. Report amounts used to derive current Federal income tax expense, Account 409.1, for the reporting period. If amounts are shown in thousands, show (000) in the heading for column (b).

2. Show amounts increasing taxable income as positive values and amounts decreasing taxable income as negative.

3. Current tax expense on this schedule must match the amount reported on page 1, line 13 of this report. Separately identify adjustments arising from revisions of prior year accruals.

4. Minor amounts of other additions (subtractions) may be grouped.

Line	PARTICULARS (Details)	AMOUNT
No.	(a)	(b)
1	Gas Operating Revenues	
2	Operations and Maintenance Expenses	
3	Taxes, Other than Income	
4	Interest	
5	State Income (Excise) Tax Depreciation	
6	Other Additions (Subtractions) to Derive Taxable Income	
7		
8		
9		
10		
11		
12		
13		
14	SEE FERC ANNUAL REPORT	
15	PAGE 261	
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26	Endered Tex Mad Income	
27	Federal Tax Net Income	
28	Show Computation of Tax:	
	1	

Name of Respondent This Report is:		Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATE OF OREGON - ALLOCATED ACCUMULATED DEFERRED INCOME TAXES (Account 190)

1. Report the information called for below concerning the respondent's accounting for deferred income taxes.

2. In the space provided:

(a) identify, by amount and classification, significant items for which deferred taxes are being provided.

(b) indicate insignificant amounts under Other.

			CHANGES DURING THE YEAR	
Line	ACCOUNT SUBDIVISIONS	BALANCE BEGINNING OF YEAR	AMOUNTS DEBITED ACCOUNT 410.1	AMOUNTS CREDITED ACCOUNT 410.1
No.	(a)	(b)	(C)	(d)
1	Electric			
2				
3				
4				
5				
6				
7	Other			
8	TOTAL ELECTRIC			
9				
10				
11				
12				
13				
14				
15	Other			
16	TOTAL GAS			
17	Other (Specify)			
18	TOTAL (ACCOUNT 190)			
19	Classification of Totals			
20	Federal Income Tax			
21	State Income Tax			
22	Local Income Tax			

ame of Respondent This Report is:		Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATE OF OREGON - ALLOCATED ACCUMULATED DEFERRED INCOME TAXES (Account 190) (Con't) 3. Beginning balance may be omitted if not readily available. Report gas utility deferred taxes only. 4. Use separate pages as required. CHANGES DURING THE YEAR ADJUSTMENTS DEBITS CREDITS AMOUNTS DEBITED ACCOUNT 410.2 AMOUNTS CREDITED ACCOUNT 410.2 BALANCE END OF YEAR ACCT. NO. AMOUNT ACCT. NO. AMOUNT Line (e) (f) (g) (h) (i) (j) (k) No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATE OF OREGON - ALLOCATED ACCUMULATED DEFERRED INCOME TAXES (Account 281)

1. Report the information called for below concerning the respondent's accounting for deferred income taxes relating to amortizable property.

2. In the space provided:

(a) identify, by amount and classification, significant items for which deferred taxes are being provided.

(b) indicate insignificant amounts under Other.

(c) Date amortization for tax purposes commenced.

(d) "Normal" depreciation rate used in computing the deferred tax.

		BALANCE	CHANGES DURING THE YEAR	
Line	ACCOUNT	BEGINNING OF YEAR	AMOUNTS DEBITED ACCOUNT 410.1	AMOUNTS CREDITED ACCOUNT 410.1
No.	(a)	(b)	(c)	(d)
1	Accelerated Amortization (Account 281)			
2	Electric			
3	Defense Facilities			
4	Pollution Control Facilities			
5	Other			
6				
7				
8	TOTAL Electric (Total of lines 3 thru 7)			
9	Gas			
10	Defense Facilities			
11	Pollution Control Facilities			
12	Other			
13				
14				
15	TOTAL Gas (Total of lines 10 thru 14)			
16	Gas (Specify)			
17	TOTAL (Acct 281) Total of 8, 15 & 16)			
18	Classification of TOTAL			
19	Federal Income Tax			
20	State Income Tax			
21	Local Income Tax			

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) A Resubmission		December 31, 2019

STATE OF OREGON - ALLOCATED ACCUMULATED DEFERRED INCOME TAXES (Account 281) (Con't) (e) Tax rate used originally defer amounts and the tax rate used during the current year to amortize previous deferrals. 3. Beginning balance may be omitted if not readily available. Report gas utility deferred taxes only. 4. Use separate pages as required. CHANGES DURING THE YEAR ADJUSTMENTS DEBITS CREDITS AMOUNTS CREDITED ACCOUNT 410.2 BALANCE END OF YEAR AMOUNTS DEBITED ACCT. NO. ACCT. NO. ACCOUNT 410.2 AMOUNT AMOUNT Line (h) (e) (f) (g) (i) (j) (k) No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

Name of Respondent	This Report is:	Date of Report	Year of Report	
	(1) 🗵 An Original	(Mo, Da, Yr)		
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019	

STATE OF OREGON - ALLOCATED ACCUMULATED DEFERRED INCOME TAXES (Account 282)

1. Report the information called for below concerning the respondent's accounting for deferred income taxes relating to property not subject to accelerated amortization.

2. In the space provided:

(a) State the general method or methods of liberalized depreciation being used (sum-of-year digits, declining balance, etc.)

(b) Estimated lives (i.e. useful life, guideline life, guideline class life, etc.)

(c) Classes of plant to which each method is being applied and date method was adopted.

			CHANGES DURING THE YEAR		
Line	ACCOUNT SUBDIVISIONS	BALANCE BEGINNING OF YEAR	AMOUNTS DEBITED ACCOUNT 410.1	AMOUNTS CREDITED ACCOUNT 410.1	
No.	(a)	(b)	(c)	(d)	
1	Account 282				
2	Electric				
3	Gas				
4	Other				
5	TOTAL (Total of lines 2 thru 4)				
6	Other (Specify)				
7					
8					
9	TOTAL (Acct 282) (Total of 5 thru 8)				
10	Classification of TOTAL				
11	Federal Income Tax				
12	State Income Tax				
13	Local Income Tax				

Name of Respondent	This Report is:	Date of Report	Year of Report	
	(1) 🗵 An Original	(Mo, Da, Yr)		
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019	

STATE OF OREGON - ALLOCATED ACCUMULATED DEFERRED INCOME TAXES (Account 282) (Con't)

3. Beginning balance may be omitted if not readily available. Report gas utility deferred taxes only.

4. Use separate pages as required.

. Ose separate pages as req							
CHANGES DUF		ADJUSTMENTS					
AMOUNTS DEBITED ACCOUNT 410.2	AMOUNTS CREDITED ACCOUNT 410.2	DEE ACCT. NO.	DEBITS CREDITS ACCT. NO. AMOUNT ACCT. NO. AMOUNT		BALANCE END OF YEAR	Line	
(e)	(f)	(g)	(h)	(i)	(j)	(k)	No.
(0)	(1)	(9)	(11)	(1)	0/	(14)	1
		1		l			2
							3
							4
							5
							6
							7
							8
							9
						•	10
							11
							12
							13

Name of Respondent	This Report is:	Date of Report	Year of Report	
	(1) 🗵 An Original	(Mo, Da, Yr)		
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019	

	···· ··· · ··· ··· ··· ··· ··· ··· ···			
	STATE OF OREGON - ALLOCAT			
1. Rep Accou	port the information called for below concernir int 283.	ng the respondent's acco	ounting for deferred income taxes r	elating to amounts recorded in
2. In t	he space provided below include amounts rela	ating to insignificant item	ns under Other.	
				RING THE YEAR
		BALANCE BEGINNING OF	AMOUNTS DEBITED	AMOUNTS CREDITED
Line	ACCOUNT SUBDIVISIONS	YEAR	ACCOUNT 410.1	ACCOUNT 410.1
No.	(a)	(b)	(c)	(d)
1	Account 283			
2	Electric			
3				
4				
5				
6				
7				
8	Other			
9	TOTAL Electric (Total of 2 thru 8)			
10	Gas		•	•
11				
12				
13				
14				
15				
16	Other			
17	TOTAL Gas (Total of lines 10 thru 16)			
18	Other (Specify)			
19	TOTAL (Acct 283) (Total of 9, 17, & 18)			
20	Classification of TOTAL		•	•
21	Federal Income Tax			
22	State Income Tax			

SEE ANNUAL REPORT PAGES 276 - 277

23

Local Income Tax

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗖 A Resubmission		December 31, 2019

STATE OF OREGON	STATE OF OREGON - ALLOCATED ACCUMULATED DEFERRED INCOME TAXES (Account 283) (Con't)						
3. Beginning balance may be	omitted if not readily available.	Report gas ut	ility deferred ta	axes only.			-
4. Use separate pages as req	uired.						
CHANGES DUF	RING THE YEAR		ADJUS	TMENTS			
AMOUNTS DEBITED	AMOUNTS CREDITED	DEE	BITS	CRE	DITS	BALANCE END	
ACCOUNT 410.2	ACCOUNT 410.2	ACCT. NO.	AMOUNT	ACCT. NO.	AMOUNT	OF YEAR	Line
(e)	(f)	(g)	(h)	(i)	(j)	(k)	No.
							1
							2
							3
							4
							5
							6
							7
							8
							9
						_	10
							11
							12
							13
							14
							15
							16
							17
							18
							19
		1	F		r		20
							21
							22
							23

SEE ANNUAL REPORT PAGES 276 - 277

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	()	BALANCE	DEFERRED		y footnote any correction ortized. ALLOCATION TO CURI			BALANC
ine	ACCOUNT	BEGINNING OF YEAR	ACCOUNT NO	. AMOUNT	ACCOUNT NO.	AMOUNT	ADJUSTMENTS	END OF YEAR
No.	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1								
2								
3								
4				T				
5								
6								
7								
8								
9	NONE							
10	_							
11								
12								
13					J			
14				T	ו			
15								
16								
17								
18								
19								
20								
20								
22								
22								
24								
25								
26								
27					J			
28								
29								
30								
31								
32								
33				-				

Name of Respondent	This Report is:	Date of Report	Year of Report	
	(1) 🗵 An Original	(Mo, Da, Yr)		
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019	

STA	TE OF OREGON -	ALLOCATE	D ACCUMUL	ATED DE	FERED INVE	STMENT TA		۲S (Account 255)
Repor colum	rt below information app In (I) the average period	licable to Accou over which the	unt 255. Explain t tax credits are an	oy footnote a nortized.	any correction to the	ne account bala	nce shown ir	n column (g). Include in
		BALANCE BEGINNING	DEFERRED FO	OR YEAR	ALLOCATION T YEAR'S II		BALANCE END OF	AVERAGE PERIOD OF ALLOCATION TO
Line	ACCOUNT	OF YEAR	ACCOUNT NO.	AMOUNT	ACCOUNT NO.	AMOUNT	YEAR	INCOME
No.	(a)	(b)	(C)	(d)	(e)	(f)	(g)	(h)
1	Gas Utility							
2	3%							
3	4%							
4	7%							
5	10%							
6	TOTAL							
7	Other (List separately and show 3%, 4%, 7% , 10% and TOTAL							
8								
9								
10								
11								
12								
13	NONE	1	1					
14								
15								
16								
17								
18								
19								
20 21								
21								
22								
23								
25								
26								
27								
28								
29								
30								
31								

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗖 A Resubmission		December 31, 2019

SUN	STATE OF O IMARY OF UTILITY PLANT AND ACCU	DREGON - SI JMULATED P AND DEPL	ROVISION		RECIATION	I, AMORTI	ZATION
Line	ITEM	TOTAL	ELECTRIC	GAS	OTHER (SPECIFY)	OTHER (SPECIFY)	COMMON
No.	(a)	(b)	(c)	(d)	(6) LCII 1) (e)	(6) ECH 1)	(g)
1		(6)	(0)	(u)	(C)	(1)	(9)
2	In Service						
3	Plant in Service (Classified)	2,450,912,810		2,450,912,810		1	1
4	Property Under Capital Leases	7,657,435		7,657,435			
5	Plant Purchased or Sold						
6	Completed Construction not Classified	659,800,131		659,800,131			
7	Experimental Plant Unclassified						
8	TOTAL (Enter total of lines 3 thru 7)	3,118,370,376		3,118,370,376			
9	Leased to Others						
10	Held for Future Use	970,068		970,068			
11	Construction Work in Progress	84,505,104		84,505,104			
12	Acquisition Adjustments						
13	TOTAL Utility Plant (Enter total of lines 8 thru 12)	3,203,845,548		3,203,845,548			
14	Accum. Prov. for Depr., Amort., & Depl.	1,301,961,235		1,301,961,235			
15	Net Utility Plant (Line 13 less 14)	1,901,884,313		1,901,884,313			
16	DETAIL OF ACCUMULATED PROVISIONS FOR DEPRECIATION, AMORTIZATION AND DEPLETION						
17	In Service:						
18	Depreciation	1,251,951,378		1,251,951,378			
19	Amort. and Depl. of Producing Natural Gas Land and Land Rights			_			
20	Amort. of Underground Storage Land and Land Rights	32,004		32,004			
21	Amort. of Other Utility Plant	89,219,163		89,219,163			
21.01	Salvage Work In Progress						
21.02	Less Removal Work in Progress	39,241,310		39,241,310			
22	TOTAL in Service (Lines 18 thru 21)	1,301,961,235		1,301,961,235			
23	Leased to Others						
24	Depreciation						
25	Amortization and Depletion						
26	TOTAL Leased to Others (Lines 24 and 25)			—			
27	Held for Future Use		1			1	T
28	Depreciation			—			
29	Amortization			—			
30	TOTAL Held for Future Use (Lines 28 and 29)						
31	Abandonment of Leases (Natural Gas)						
32	Amort. of Plant Acquisition Adjustment	—		—			
33	TOTAL Accumulated Provisions (Should agree with line 14 above) (Lines 22, 26, 30, 31, and 32)	1,301,961,235		1,301,961,235			

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATE OF OREGON - SITUS GAS PLANT IN SERVICE

1. Report below the original cost of gas plant in service according to the prescribed accounts

2. In addition to Account 101, Gas Plant in Service (Classified), this page and the next include Account 102, Gas Plant Purchased or Sold; Account 103, Experimental Gas Plant Unclassified; and Account 106, Completed Construction Not Classified-Gas.

3. Include in column (c) or (d), as appropriate, corrections of additions and retirements for the current or preceding year.

4. Enclose in parentheses credit adjustments of plant accounts to indicate the negative effect of such accounts.

5. Classify Account 106 according to prescribed accounts, on an estimated basis if necessary, and include the entries in column (c). Also to be included in column (c) are entries for reversals of tentative distributions or prior year reported in column (b). Likewise, if the respondent has a significant amount of plant retirements which have not been classified to primary accounts at the end of the year, include in column (d) a tentative distribution of such retirements, on Estimated basis, with appropriate contra entry to the account for accumulated depreciation provision. Include also in column (d) reversals of tentative distributions of prior year unclassified retirements. Attach supplemental statement showing the account distributions of these tentative classifications in column (c) and (d), including the reversals of the prior years tentative account distributions of these amounts. Careful observance of the above instructions and the texts of Accounts 101 and 106 will avoid serious omissions of the reported amount of respondent's plant actually in service at the end of year.

6. Show in column (f) reclassifications or transfers within utility plant accounts. Include also in column (f) the additions or reductions of primary account classifications arising from distribution of amounts initially recorded in Account 102. In showing the clearance of Account 102, include in column (e) the amounts with respect to accumulated provision for depreciation, acquisition adjustments, etc., and show in column (f) only the offset to the debits or credits distributed in column (f) to primary account classifications.

7. For Account 399, state the nature and use of plant included in this account and if substantial in amount, submit a supplementary statement showing subaccount classification of such plant conforming to the requirements of these pages.

8. For each amount comprising the reported balance and changes in Account 102, state the property purchased or sold, name of vendor or purchaser, and date of transaction. If proposed journal entries have been filed with the Commission as required by the Uniform System of Accounts, give also date of such filing.

SEE FOLLOWING PAGES

						Period Beginning:	January 2019
						Period Ending:	December 2019
Functional	I Class	Beginning					Ending
FERC P	lant Account	Balance	Additions	Retirements	Transfers	Adjustments	Balance*
UTILITY							
Intangible	Plant						
301	ORGANIZATION	\$852	\$0	\$0	\$0	\$0	\$852
302	FRANCHISES & CONSENTS	83,496	_	_	_	_	83,496
303.1	COMPUTER SOFTWARE	79,889,778	8,939,335	_	_	_	88,829,113
303.2	CUSTOMER INFORMATION SYSTEM	30,488,305	_	_	_	_	30,488,305
303.3	INDUSTRIAL & COMMERCIAL BIL	4,146,951	_	_	_	_	4,146,951
303.4	CRMS	682,893	_	_	_	_	682,893
303.5	POWERPLANT SOFTWARE	_	_	_	_	_	_
303.6	NMEP COMPUTER SOFTWARE	_	452,044	_	_	_	452,044
	Intangible Plant Subtotal*	115,292,274	9,391,378	_	_	_	124,683,653
Production	n Plant - Oil Gas						
304.1	LAND	24,998	_	_	_	_	24,998
305.2	P P O G STRU & IMPR-SEWER S	_	_	_	_	_	_
305.5	P P O G STRU & IMPR-OTHER Y	13,156	_	_	_	_	13,156
312.3	P P O G FUEL HANDLING AND S	_	_	_	_	_	_
318.3	P P O G LIGHT OIL REFINING	144,896	_	_	_	_	144,896
318.5	P P O G TAR PROCESSING	243,551	_	_	_	_	243,551
325	NATURAL GAS PROD AND GATHER	_	_	_	_	_	_
327	NATURAL GAS PROD & GATHERIN	_	_	_	_	_	_
328	NATURAL GAS PROD AND GATHER	_	_	_	_	_	_
331	NATURAL GAS PROD & GATHERIN	_	_	_	_	_	_
332	NATURAL GAS PROD & GATHERIN	_	_	_	_	_	_
333	NATURAL GAS PROD & GATHERIN	_	_	_	_	_	_
334	NATURAL GAS PROD & GATHERIN	_	_	_	_	_	_
	Production Plant - Oil Gas Subtotal*	426,601	_	_	_	_	426,601
Production	n Plant - Other						
305.11	GAS PRODUCTION - COTTAGE G	8,320	_	_	_	_	8,320
305.17	STRUCTURES MIXING STATION	46,587	_	_	_	_	46,587
311	P P OTHER-LIQUEFIED PETROLE	_	_	_	_	_	_
311.4	P P OTHER-L P G GRANGER	_	_	_	_	_	_
311.7	LIQUIFIED GAS EQUIPMENT COO	4,033	_	_	_	_	4,033
311.8	LIQUIFIED GAS EQUIPMENT LIN	4,209	_	_	_	_	4,209
319	GAS MIXING EQUIPMENT GASCO	185,448	_	_	_	_	185,448
	Production Plant - Other Subtotal*	248,597	_		_	_	248,597

						Period Beginning:	January 2019
						Period Ending:	December 2019
Functiona	Il Class	Beginning					Ending
FERC P	Plant Account	Balance	Additions	Retirements	Transfers	Adjustments	Balance*
UTILITY							
Natural G	as Underground Storage						
350.1	LAND	106,549	_	_	_	_	106,549
350.2	RIGHTS-OF-WAY	109,625	_	—	_	—	109,625
350.3	NMEP RIGHTS-OF-WAY	_	538,145	—	_	_	538,145
350.4	NMEP LAND	_	461,268	—	_	_	461,268
351	STRUCTURES AND IMPROVEMENTS	8,631,863	2,288	—	_	—	8,634,151
351.1	NMEP STRUCTURES AND IMPROVEMENTS	_	6,784,473	—	_	_	6,784,473
352	WELLS	23,261,814	2,344,005	—	_	_	25,605,819
352.1	STORAGE LEASEHOLD & RIGHTS	3,938,491	_	—	_	—	3,938,491
352.2	RESERVOIRS	7,272,553	_	—	_	_	7,272,553
352.3	NON-RECOVERABLE NATURAL GAS	6,440,890	_	—	_	—	6,440,890
352.4	NMEP WELLS	_	16,159,768	—	_	_	16,159,768
352.5	NMEP STORAGE LEASEHOLD & RIGHTS	_	2,619,103	—	_	_	2,619,103
352.6	NMEP RESERVOIRS	_	2,619,103	—	_	_	2,619,103
352.7	NMEP NON-RECOVERABLE NATURAL GAS	—	2,696,233	—	_	—	2,696,233
353	LINES	7,274,713	812,991	—	_	_	8,087,704
353.1	NMEP LINES	_	332,621	—	_	_	332,621
354	COMPRESSOR STATION EQUIPMENT	31,352,716	_	—	_	1,240,059	32,592,775
354.7	NMEP COMPRESSOR STATION EQUIPMENT	_	27,599,508	_	_	_	27,599,508
355	MEASURING / REGULATING EQUIPM	7,408,127	76,493	—	_	_	7,484,620
355.1	NMEP MEASURING / REGULATING EQUIPMENT	—	15,519,402	—	_	_	15,519,402
356	PURIFICATION EQUIPMENT	363,606	159	_	_	_	363,765
357	OTHER EQUIPMENT	2,357,694	1,872	_			2,359,566
	Natural Gas Underground Storage Subtotal*	98,518,641	78,567,432	_	_	1,240,059	178,326,133

ACCOUNT SUMMARY BY FUNCTIONAL CLASS

						Period Beginning: Period Ending:	January 2019 December 2019
Functional	l Class	Beginning				·	Ending
FERC P	Plant Account	Balance	Additions	Retirements	Transfers	Adjustments	Balance*
UTILITY							
Local Stor	age Plant						
360.11		83,598	—	_	—	_	83,598
360.12		536,675	—	—	—	_	536,67
360.2	LAND - OTHER	106,557	—	_	_	—	106,557
361.11		10,599,751	72,163	_	_	—	10,671,914
361.12	STRUCTURES & IMPROVEMENTS	11,928,288	168,465	_	_	—	12,096,752
361.2	STRUCTURES & IMPROVEMENTS -	26,757	—	_	_	_	26,757
362.11	GAS HOLDERS - LNG LINNTON	4,556,064	—	_	_	_	4,556,064
362.12	GAS HOLDERS - LNG NEWPORT	5,927,104	—	_	_	_	5,927,104
362.2	GAS HOLDERS - LNG OTHER	1,600	—	_	_	_	1,600
363.11	LIQUEFACTION EQUIP LINN	3,319,411	56,129	_	_	_	3,375,541
363.12	LIQUEFACTION EQUIP - NEWPO	15,583,451	164,953	_	_	_	15,748,404
363.21	VAPORIZING EQUIP - LINNTON	4,458,618	—	_	_	_	4,458,618
363.22	VAPORIZING EQUIP - NEWPORT	3,739,813	_	_	_	—	3,739,813
363.31	COMPRESSOR EQUIP - LINNTON	180,903	—	_	_	_	180,903
363.32	COMPRESSOR EQUIPMENT - NE	4,623,311	_	_	_	_	4,623,311
363.41	MEASURING & REGULATING EQU	2,878,248	217	_	_	_	2,878,46
363.42	MEASURING & REGULATING EQU	10,445,230	116,850	_	_	_	10,562,079
363.5	CNG REFUELING FACILITIES	3,051,295	_	_	_	_	3,051,29
363.6	LNG REFUELING FACILITIES	739,473	_	_	_	_	739,473
	Local Storage Plant Subtotal*	82,786,149	578,776	_	_		83,364,92
Transmiss	sion Plant						
365.1	LAND	1,015,597	—	_	_	_	1,015,597
365.2	LAND RIGHTS	6,455,177	—	_	_	_	6,455,177
365.3	NMEP LAND RIGHTS	_	538,142	_	_	—	538,142
366.3	STRUCTURES & IMPROVEMENTS -	1,546,073	_	_	_	—	1,546,073
367	MAINS	168,251,378	10,192,811	(532,003)		_	177,912,187
367.21	NORTH MIST TRANSMISSION LI	1,994,582	— —	_	_	_	1,994,582
367.22	SOUTH MIST TRANSMISSION LI	14,949,264	_	_	_	_	14,949,264
367.23	SOUTH MIST TRANSMISSION LI	34,881,341	_	_	_	_	34,881,341
367.24	11.7M S MIST TRANS LINE	17,466,182	_	_	_	_	17,466,182
367.25	12M NORTH S MIST TRANS	18,613,651	_	_	_	_	18,613,651
367.26	38M NORTH S MIST TRANS	68,232,676	_	_	_	_	68,232,676
367.27	NMEP MAINS		66,807,090	_	_	_	66,807,090
368	TRANSMISSION COMPRESSOR	_		_	_	_	
369	MEASURING & REGULATE STATION	3,969,549	_	_	_	_	3,969,549
370	COMMUNICATION EQUIPMENT		_	_	_	_	
	Transmission Plant Subtotal*	337,375,470	77,538,042	(532,003)			414,381,510

						Period Beginning:	January 2019
						Period Ending:	December 2019
Functional	Class	Beginning					Ending
FERC P	lant Account	Balance	Additions	Retirements	Transfers	Adjustments	Balance*
UTILITY							
Distributior	n Plant						
374.1	LAND	75,384	_	_	_	· _	75,384
374.2	LAND RIGHTS	1,858,469	32	_	_	· _	1,858,502
375	STRUCTURES & IMPROVEMENTS	132,550	_	_	_	· _	132,550
376.11	MAINS < 4"	528,649,878	20,384,570	(78,855)	_	· _	548,955,593
376.12	MAINS 4" & >	481,329,477	31,918,773	(147,155)	_	· _	513,101,095
376.13	NMEP MAINS HP 4" & >	—	614,976	—		· _	614,976
377	COMPRESSOR STATION EQUIPMENT	818,380	_	—	_	· _	818,380
378	MEASURING & REG EQUIP - GENER	33,600,070	1,165,322	—		· _	34,765,392
379	MEASURING & REG EQUIP - GATE	12,237,553	1,687,547	—	_	· _	13,925,100
380	SERVICES	725,651,865	33,468,602	(1,453,228)	_	· _	757,667,239
381	METERS	80,733,771	9,559,373	(1,591,374)		· 1,443	88,703,212
381.1	METERS (ELECTRONIC)	1,696,938	_	—		· _	1,696,938
381.2	ERT (ENCODER RECEIVER TRANS	37,920,573	2,496,224	(3,765,354)	_	· _	36,651,443
382	METER INSTALLATIONS	55,670,037	4,366,110	(2,507,324)	_	· _	57,528,822
382.1	METER INSTALLATIONS (ELECTR	481,020	_	_	_	· _	481,020
382.2	ERT INSTALLATION (ENCODER	8,241,980	_	(187,442)	_	· _	8,054,538
383	HOUSE REGULATORS	2,056,406	215,914	_	_	· _	2,272,320
386	OTHER PROPERTY ON CUSTOMERS P	1,162,110	_	—		· _	1,162,110
386.1	MULTI-FAMILY METER ROOMS	141,536	_	(141,536)	_	· _	_
387.1	CATHODIC PROTECTION TESTING	173,859	_	_	_	· _	173,859
387.2	CALORIMETERS @ GATE STATIONS	69,794	_	_	_	· _	69,794
387.3	METER TESTING EQUIPMENT	72,671	_	_	_	·	72,671
	Distribution Plant Subtotal*	1,972,774,321	105,877,444	(9,872,268)	_	1,443	2,068,780,940

					Period Beginning: Period Ending:	January 2019 December 2019
Functional Class	Beginning				r onou Enungi	Ending
FERC Plant Account	Balance	Additions	Retirements	Transfers	Adjustments	Balance*
UTILITY						
General Plant						
389 LAND	9,609,258	884,454	_	_	_	10,493,712
390 STRUCTURES & IMPROVEMENTS	69,896,227	3,490,161	—	—	—	73,386,388
390.1 SOURCE CONTROL FACILITY	18,610,647	851,161	—	_	—	19,461,808
391.1 OFFICE FURNITURE & EQUIPMEN	8,117,859	223,393	(70,550)	_	—	8,270,702
391.2 COMPUTERS	27,129,445	13,259,338	(2,853,153)	—	_	37,535,630
391.3 ON SITE BILLING	_	—	—	—	_	_
391.4 CUSTOMER INFORMATION SYSTEM	_	—	—	—	_	_
391.5 NMEP COMPUTERS	_	1,537,007	—	—	_	1,537,007
392 TRANSPORTATION EQUIPMENT	46,171,485	7,170,874	(2,138,376)	—	_	51,203,983
393 STORES EQUIPMENT	119,406	—	—	—	_	119,406
394 TOOLS - SHOP & GARAGE EQUIPUI	13,019,565	1,204,911	_	—	_	14,224,476
395 LABORATORY EQUIPMENT	277	—	(277)	—	_	_
396 POWER OPERATED EQUIPMENT	11,070,339	1,883,175	(598,755)		_	12,354,759
397 GEN PLANT-COMMUNICATION EQU	88,322	—	(20,921)	—	—	67,401
397.1 MOBILE	54,370	3,752,562	—	—	—	3,806,931
397.2 OTHER THAN MOBILE & TELEMET	9,958	—	—	—	—	9,958
397.3 TELEMETERING - OTHER	1,820,236	436,458	(1,731)	—	—	2,254,963
397.4 TELEMETERING - MICROWAVE	2,355,508	2,823,009	—	—	—	5,178,517
397.5 TELEPHONE EQUIPMENT	490,767	—	—	—	—	490,767
398 GEN PLANT-MISCELLANEOUS EQU	—	—	—	—	—	—
398.1 PRINT SHOP	4,359	—	—	—	—	4,359
398.2 KITCHEN EQUIPMENT	12,812	—	—	—	—	12,812
398.3 JANITORIAL EQUIPMENT	14,873	—	—	—	—	14,873
398.4 INSTALLED IN LEASED BUILDINGS	5,393	—	—	—	—	5,393
398.5 OTHER MISCELLANEOUS EQUIPMENT	66,739					66,739
General Plant Subtotal*	208,667,844	37,516,502	(5,683,763)	_	_	240,500,584
Utility Property Grand Total*	2,816,089,898	309,469,575	(16,088,033)		1,241,502	3,110,712,941
		. , -				
GL Account 101600	_					7,204,816
GL Account 101601					_	452,619
Utility Property Under Capital Leases					-	7,657,435
Total Utility Plant*	2,816,089,898				_	3,118,370,376

						Period Beginning: Period Ending:	January 2019 December 2019
Functional C	lass	Beginning				Perioa Enailig.	Ending
FERC Plant		Balance	Additions	Retirements	Transfers	Adjustments	Balance*
NON-UTILITY						.,	
Intangible Pla	ant						
303.1	COMPUTER SOFTWARE	163,357	_	_	_		163,357
303.2	CUSTOMER INFORMATION SYSTEM	61,429	_	_	_		61,429
Non Utility	Intangible Plant Subtotal*	224,786	_	_	_	- –	224,786
Natural Gas I	Underground Storage						
352	WELLS	16,940,451	1,083,303	_	_		18,023,755
352.1	STORAGE LEASEHOLD & RIGHTS	1,020	_	_	_		1,020
352.2	RESERVOIRS	3,561,501	_	_	-		3,561,501
353	LINES	2,289,408	282,098	_	-	- –	2,571,507
354	COMPRESSOR STATION EQUIPMENT	13,300,680	(3,628)	_	_	- (1,240,059)	12,056,993
355	MEASURING / REGULATING EQUIPM	9,246,325	(831,046)	(181,462)	-		8,233,817
357	OTHER EQUIPMENT	63,256	_	_	-		63,256
Non Utility	Natural Gas Underground Storage Subtotal*	45,402,642	530,727	(181,462)	_	- (1,240,059)	44,511,849
Transmissior	n Plant						
368	TRANSMISSION COMPRESSOR	7,723,454	_	_	-		7,723,454
Non Utility	Transmission Plant Subtotal*	7,723,454	_	_	_	- –	7,723,454
Distribution F	Plant						
376.12	MAINS 4" & >	878,618	(614,976)	(263,642)	_		
Non Utility	Distribution Plant Subtotal*	878,618	(314,976)	(263,642)	-	- –	_
General Plan	t						
389	LAND	438,739	_	_	-		438,739
390	STRUCTURES & IMPROVEMENTS	239,306			_		239,306
Non Utility	General Plant Subtotal*	678,045		_	_		678,045

ACCOUNT SUMMARY BY FUNCTIONAL CLASS

NW Natural

						Period Beginning:	January 2019
						Period Ending:	December 2019
Functional C	lass	Beginning					Ending
FERC Plant Account		Balance	Additions	Retirements	Transfers	Adjustments	Balance*
NON-UTILITY	Y						
Non Utility O	ther						
121.1	NON-UTIL PROP-DOCK	1,946,033	_	_	_		1,946,033
121.2	NON-UTIL PROP-LAND	125,102	_	_	_		125,102
121.3	NON-UTIL PROP-OIL ST	4,635,180	_	_	_		4,635,180
121.7	NON-UTIL PROP-APPL CENTER	64,906	_	_	_		64,906
121.8	NON-UTIL PROP-STORAGE	96,038	_	_	_		96,038
Non Utility	Other*	6,867,259	_	_	_		6,867,259
	Non Utility Property Grand Total*	61,774,804	(84,249)	(445,103)		- (1,240,059)	60,005,393

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATE OF OREGON - SITUS GAS PLANT HELD FOR FUTURE USE (Account 105)

1. Report separately each property held for future use at end of the year having an original cost of \$100,000 or more. Other items of property held for future use may be grouped provided that the number of properties so grouped is indicated.

2. For property having an original cost of \$100,000 or more previously used in utility operations, now held for future use, give in addition to other required information, the date that utility use of such property was discontinued, and the date the original was transferred to Account 105.

Line	DESCRIPTION AND LOCATION OF PROPERTY	DATE ORIGINALLY INCLUDED IN THIS ACCOUNT	DATE EXPECTED	BALANCE END OF YEAR
No.		(b)		(d)
1	(a) Underground Storage	07/2009	(c) Undetermined	(u) 127,921
2	Easement	11/2011	Undetermined	136,720
2	Willamette River Crossing - Engineering Costs	05/2015	Undetermined	705,427
3 4	willamette River Crossing - Engineering Costs	05/2015	Undetermined	705,427
4 5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				070.000
30	TOTALS			970,068

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATE OF OREGON - SITUS CONSTRUCTION WORK IN PROGRESS - GAS (Account 107)

1. Report below descriptions and balances at end of year of projects in process of construction (Account 107)

2. Show items relating to "research, development, and demonstration" projects last, under a caption Research, Development, and Demonstration (see Account 107 of the Uniform System of Accounts).

3. Minor projects (less than \$1,000,000) may be grouped.

Line	DESCRIPTION OF PROJECT	CONSTRUCTION WORK IN PROGRESS - GAS (ACCOUNT 107)	ESTMATED ADDITIONAL COST OF PROJECT
No.	(a)	(b)	(c)
1	Misc Information Services Projects	36,335,730	22,988,837
2	Other, less than \$1M each	22,567,978	10,080,097
3	Mains and Service Jobs	13,997,459	19,954,881
4	Misc Facilities Projects	9,264,548	21,611,701
5	Portland LNG Readiness	1,174,278	1,190,321
6	Newport LNG Readiness	923,234	3,616,250
7	North Mist Expansion Project	241,877	561,344
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30	TOTALS	84,505,104	80,003,431

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATE OF OREGON - SITUS ACCUMULATED PROVISION FOR DEPRECIATION OF GAS UTILITY PLANT (Account 108)

1. Explain in a footnote any important adjustments during year.

2. Explain in a footnote any difference between the amount for book cost of plant retired, line 11, column (c), and that reported for gas plant in service pages 24-27, column (d), excluding retirements of non-depreciable property.

3. The provisions of Account 108 of the Uniform System of Accounts require that retirements of depreciable plant be recorded when such plant is removed from service. If the respondent has a significant amount of plant retired at year end which has not been recorded and/or classified to the various reserve functional classifications, make preliminary closing entries to tentatively functionalize the book cost of the plant retired. In addition, include all costs included in retirement work in progress at year end in the appropriate functional classifications.

4. Show separately interest credits under a sinking fund or similar method of depreciation accounting.

SEE FOLLOWING PAGES

								Period Beginning:	January 2019
								Period Ending:	December 2019
Function	nal Class	Beginning			Cost of	Salvage and	Transfers and		Ending
FERC	Plant Account	Reserve	Provision	Retirements	Removal	Other Credits	Adjustments	Loss/(Gain)	Reserve*
UTILITY									
Intangib	le Plant								
301	ORGANIZATION	_	_	_	_	_		· _	_
302	FRANCHISES & CONSENTS	_	_	_	_	_		· <u> </u>	_
303.1	COMPUTER SOFTWARE	29,469,310	5,648,840	—	_	_		· _	35,118,150
303.2	CUSTOMER INFORMATION SYSTEM	30,485,095	_	—	_	_		· _	30,485,095
303.3	INDUSTRIAL & COMMERCIAL BIL	4,146,951	—	—	_	—		· <u> </u>	4,146,951
303.4	CRMS	682,893	—	_	_	—			682,893
303.5	POWERPLANT SOFTWARE	_	—	—	_	—		· <u> </u>	—
303.6	NMEP COMPUTER SOFTWARE	_	55,987	_		_			55,987
	Intangible Plant Subtotal*	64,784,249	5,704,827	-	-	-	_	· –	70,489,075
Product	ion Plant - Oil Gas								
304.1	LAND	_	—	—	_	—		· <u> </u>	—
305.2	P P O G STRU & IMPR-SEWER S	_	—	—	_	—		· <u> </u>	—
305.5	P P O G STRU & IMPR-OTHER Y	13,814	—	—	_	—		· <u> </u>	13,814
312.3	P P O G FUEL HANDLING AND S	_	—	—	_	—		· <u> </u>	—
318.3	P P O G LIGHT OIL REFINING	152,141	—	_	_	_		· <u> </u>	152,141
318.5	P P O G TAR PROCESSING	255,729	—	—	_	—		· <u> </u>	255,729
325	NATURAL GAS PROD AND GATHER	_	—	—	_	—		· <u> </u>	—
327	NATURAL GAS PROD & GATHERIN	—	—	_	_	_		· –	_
328	NATURAL GAS PROD AND GATHER	—	—	_	_	_		· <u> </u>	—
331	NATURAL GAS PROD & GATHERIN	_	—	—	_	—		· <u> </u>	—
332	NATURAL GAS PROD & GATHERIN	—	—	_	_	—		· –	_
333	NATURAL GAS PROD & GATHERIN	—	—	_	_	—		· –	_
334	NATURAL GAS PROD & GATHERIN								_
	Production Plant - Oil Gas Subtotal*	421,683	_	-	_	-	_	· _	421,683
Product	ion Plant - Other								
	GAS PRODUCTION - COTTAGE G	8,736	_	_	_	_			8,736
305.17	STRUCTURES MIXING STATION	51,246	_	_	_	_			51,246
311	P P OTHER-LIQUEFIED PETROLE	_	_	_	_	_			_
311.4	P P OTHER-L P G GRANGER	—	—	_	_	_			_
311.7	LIQUIFIED GAS EQUIPMENT COO	8,066	_	_	_	_			8,066
311.8	LIQUIFIED GAS EQUIPMENT LIN	6,585	_	_	_	_	_	· _	6,585
319	GAS MIXING EQUIPMENT GASCO	194,720							194,720
	Production Plant - Other Subtotal*	269,353	_	_		_		_	269,353

* May not foot due to rounding.

								Period Ending: [December 2019
Function	nal Class	Beginning			Cost of	Salvage and	Transfers and		Ending
FERC	Plant Account	Reserve	Provision	Retirements	Removal	Other Credits	Adjustments	Loss/(Gain)	Reserve
UTILITY									
Natural	Gas Underground Storage								
350.1	LAND	_	_	_	_	_	_	_	_
350.2	RIGHTS-OF-WAY	30,436	1,568	_	_	_	_	_	32,004
350.3	NMEP RIGHTS-OF-WAY	—	5,450	_	_	_	—	—	5,450
351	STRUCTURES AND IMPROVEMENTS	2,924,316	129,479	_	_	_	_	_	3,053,795
351.1	NMEP STRUCTURES AND IMPROVEMENTS	—	72,239	_	_	_	—	—	72,239
352	WELLS	12,255,683	351,741	_	_	_	—	—	12,607,424
352.1	STORAGE LEASEHOLD & RIGHTS	1,745,379	65,773	_	_	_	—	—	1,811,152
352.2	RESERVOIRS	2,673,739	125,815	_	_	_	—	—	2,799,555
352.3	NON-RECOVERABLE NATURAL GAS	3,558,645	101,122	—	_	_	—	—	3,659,767
352.4	NMEP WELLS	—	201,551	_	_	_	—	—	201,551
352.5	NMEP STORAGE LEASEHOLD & RIGHTS	—	31,896	—	_	_	—	—	31,896
352.6	NMEP RESERVOIRS	_	32,877	_	_	_	_	_	32,877
352.7	NMEP NON-RECOVERABLE NATURAL GAS	—	31,656	_	_	_	—	—	31,656
353	LINES	3,314,729	153,215	_	_	_	_	_	3,467,944
353.1	NMEP LINES	_	4,184	_	_	_	_	_	4,184
354	COMPRESSOR STATION EQUIPMENT	19,529,817	560,388	_	_	_	463,610	_	20,553,816
354.7	NMEP COMPRESSOR STATION EQUIPMENT	_	456,891	_	_	_	_	_	456,891
355	MEASURING / REGULATING EQUIPM	4,745,697	169,213	_	_	_	_	_	4,914,910
355.1	NMEP MEASURING / REGULATING EQUIPMENT	_	207,697	_	_	_	_	_	207,697
356	PURIFICATION EQUIPMENT	240,036	4,981	_	_	_	_	_	245,017
357	OTHER EQUIPMENT	900,361	51,164	_				_	951,524
	Natural Gas Underground Storage Subtotal*	51,918,839	2,758,900	_	_	_	463,610	_	55,141,350

* May not foot due to rounding.

Period Beginning: January 2019

				NW NATURAL					
								Period Beginning:	January 2019
								Period Ending:	December 2019
Functional Class		Beginning			Cost of	Salvage and	Transfers and		Ending
FERC Plant Account		Reserve	Provision	Retirements	Removal	Other Credits	Adjustments	Loss/(Gain)	Reserve*
UTILITY		1		1					
Local Storage Plant									
360.11 LAND - LNG LIN	NTON	_	_	_	_	_		_	_
360.12 LAND - LNG NEV		_	_	_	_	_		_	_
360.2 LAND - OTHER		_	_	_				_	_
361.11 STRUCTURES &	IMPROVEMENTS	2,760,407	403,306	_				_	3,163,714
361.12 STRUCTURES &		2,622,032	521,583	_	_	_		_	3,143,615
	IMPROVEMENTS -	11,891	474	_				_	12,365
362.11 GAS HOLDERS		2,452,669	117,546	_	_	_		_	2,570,215
362.12 GAS HOLDERS		5,893,926	144,029	_	_	_		_	6,037,955
362.2 GAS HOLDERS		1,234	16	_	_	_		_	1,250
363.11 LIQUEFACTION		2,648,875	44,065	_		_		_	2,692,940
363.12 LIQUEFACTION		7,242,254	104,588	_		_	_	_	7,346,843
363.21 VAPORIZING EQ		2,452,004	20,956	_		_		_	2,472,960
363.22 VAPORIZING EC		312,762	115,560	_		_	_	_	428,322
363.31 COMPRESSOR		206,897		_		_	_	_	206,897
363.32 COMPRESSOR		784,673	350,444	_	_	_	_	_	1,135,117
363.41 MEASURING & F		630,328	114,846	_			_	_	745,174
363.42 MEASURING & F		251,578	13,652	_			_	_	265,230
363.5 CNG REFUELING	G FACILITIES	1,432,033	79,944	_			_	_	1,511,977
363.6 LNG REFUELING	G FACILITIES	739,473	· —	_		_		_	739,473
Local Storage Pl	ant Subtotal*	30,443,037	2,031,008	_		· · · · · · · · · · · · · · · · · · ·		_	32,474,046
Transmission Plant									
365.1 LAND		_	_	_	_	_		_	_
365.2 LAND RIGHTS		2,126,357	98,119	_		_		_	2,224,476
365.3 NMEP LAND RIG	HTS		6,358	_		_	_	_	6,358
	IMPROVEMENTS -	358,757	27,056	_		_	_	_	385,814
367 MAINS		36,917,368	3,240,200	(532,003)		_	_	_	39,625,566
367.21 NORTH MIST TR	ANSMISSION LI	1,177,365	34,307	(**),***), —			_	_	1,211,672
367.22 SOUTH MIST TR	ANSMISSION LI	11,015,031	237,693	_			_	_	11,252,724
367.23 SOUTH MIST TR	ANSMISSION LI	14,577,274	676,698	_			_	_	15,253,972
367.24 11.7M S MIST TF	ANS LINE	6,157,601	338,844	_		_		_	6,496,445
367.25 12M NORTH S M	IST TRANS	6,258,333	362,966	_		_		_	6,621,299
367.26 38M NORTH S M	IST TRANS	23,121,017	1,330,537	_		_		_	24,451,554
367.27 NMEP MAINS		· · · —	1,084,348	_		_		_	1,084,348
368 TRANSMISSION	COMPRESSOR	(9)	· · · —	_	_	_		_	(9)
	REGULATE STATION	1,654,098	84,548	_				_	1,738,646
370 COMMUNICATIO	N EQUIPMENT	· · · -	-	_	_	_		_	· · · · —
Transmission PI		103,363,192	7,521,675	(532,003)			_	_	110,352,864
		, , -							, ,==

* May not foot due to rounding.

				IN HAIONAL					
								Period Beginning: Period	January 201 December 201
unctional	I Class	Beginning			Cost of	Salvage and	Transfers and	Ending.	Ending
FERC P	lant Account	Reserve	Provision	Retirements	Removal	Other Credits	Adjustments	Loss/(Gain)	Reserve*
JTILITY									
Distributio	n Plant								
374.1	LAND	_	_	_	_	_	_	_	-
374.2	LAND RIGHTS	1,656,846	10,407	_	_	_	_	_	1,667,25
375	STRUCTURES & IMPROVEMENTS	50,136	1,248	_	_	_	_	_	51,38
376.11	MAINS < 4"	299,337,339	13,634,403	(78,855)	(545,844)	45,393	_	_	312,392,43
376.12	MAINS 4" & >	205,906,305	11,307,309	(147,155)	(441,715)	48,788	_	_	216,673,53
376.13	NMEP MAINS HP 4" & >	_	9,032	_	_	_	_	_	9,03
377	COMPRESSOR STATION EQUIPMENT	667,156	10,803	_	_	_	_	_	677,95
378	MEASURING & REG EQUIP - GENER	12,071,145	743,110	_	_	_	_	_	12,814,25
379	MEASURING & REG EQUIP - GATE	2,135,660	273,309	_	_	_	_	_	2,408,96
380	SERVICES	388,779,050	21,213,434	(1,453,228)	(2,487,547)	_	_	_	406,051,71
381	METERS	20,708,835	1,897,267	(1,591,374)	_	_	22	_	21,014,75
381.1	METERS (ELECTRONIC)	1,944,068	49,042	_	_	_	_	_	1,993,11
381.2	ERT (ENCODER RECEIVER TRANS	18,253,800	2,158,474	(3,765,354)	_	_	_	_	16,646,92
382	METER INSTALLATIONS	4,646,491	2,669,539	(2,507,324)	_	_	_	_	4,808,70
382.1	METER INSTALLATIONS (ELECTR	79,992	41,416	_	_	_	_	_	121,40
382.2	ERT INSTALLATION (ENCODER	5,198,090	317,781	(187,442)	_	_	_	_	5,328,42
383	HOUSE REGULATORS	314,102	62,580	_	_	_	_	_	376,68
386	OTHER PROPERTY ON CUSTOMERS P	141,299	123,364	_	_	_	_	_	264,66
386.1	MULTI-FAMILY METER ROOMS	901	_	(901)	_	_	_	_	-
387.1	CATHODIC PROTECTION TESTING	143,422	1,426	_	_	_	_	_	144,84
387.2	CALORIMETERS @ GATE STATIONS	69,794	_	_	_	_	_	_	69,79
387.3	METER TESTING EQUIPMENT	72,671	_	_	_	_	_	_	72,67
	Distribution Plant Subtotal*	962,177,103	54,523,943	(9,731,633)	(3,475,105)	94,180	22	_	1,003,588,51

* May not foot due to rounding.

count	Beginning Reserve	Provision	Retirements	Cost of Removal	U	Transfers and		Ending
	Reserve	Provision	Retirements	Removal		A division sector	Less//Coin)	Decem/et
					Other Credits	Adjustments	Loss/(Gain)	Reserve*
AND	437,351	_	_	_	_	_	_	437,35
TRUCTURES & IMPROVEMENTS	11,802,464	1,620,008	—	_	—	—	—	13,422,47
OURCE CONTROL FACILITY	5,019,153	410,683	—	_	_	—	—	5,429,83
FFICE FURNITURE & EQUIPMEN	5,296,676	257,672	(70,550)	—	_	—	—	5,483,79
OMPUTERS	14,697,937	5,218,052	(2,853,153)	_	_	—	—	17,062,83
N SITE BILLING	_	—	—	—	_	—	—	
USTOMER INFORMATION SYSTEM	—	_	—	_	_	—	—	
MEP COMPUTERS	_	190,021	—	—	_	—	—	190,02
RANSPORTATION EQUIPMENT	10,528,576	3,232,531	(2,138,376)	_	342,064	—	—	11,964,79
FORES EQUIPMENT	119,406	_	—	_	_	—	—	119,40
DOLS - SHOP & GARAGE EQUIPUI	4,966,501	432,440	—	_	20,484	—	—	5,419,42
ABORATORY EQUIPMENT	275	(10)	(277)	_	_	—	—	(*
OWER OPERATED EQUIPMENT	2,559,206	415,713	(598,755)	_	202,211	—	—	2,578,3
EN PLANT-COMMUNICATION EQU	47,025	8,056	(20,921)	_	_	—	—	34,1
OBILE	(58,219)	272,306	—	_	_	—	—	214,08
THER THAN MOBILE & TELEMET	7,046	(17,469)	—	_	_	—	—	(10,42
ELEMETERING - OTHER	232,638	195,818	(1,731)	_	_	—	—	426,72
ELEMETERING - MICROWAVE	529,426	153,955	_	_	_	—	_	683,3
ELEPHONE EQUIPMENT	404,034	33,486	—	_	_	—	—	437,52
EN PLANT-MISCELLANEOUS EQU	_	_	—	_	_	—	—	
RINT SHOP	4,277	(494)	_	_	_	—	_	3,78
TCHEN EQUIPMENT	4,771	1,178	—	_	_	—	—	5,94
ANITORIAL EQUIPMENT	14,873	_	_	_	_	—	_	14,8
STALLED IN LEASED BUILDINGS	5,393	_	_	_	_	—	_	5,3
THER MISCELLANEOUS EQUIPMENT	66,739	—	_	_		—		66,7
eneral Plant Subtotal	56,685,548	12,423,944	(5,683,763)	_	564,759	_	—	63,990,48
				(3,475,105)	658,940	463,632		1,336,727,3
	DURCE CONTROL FACILITY FICE FURNITURE & EQUIPMEN OMPUTERS N SITE BILLING USTOMER INFORMATION SYSTEM MEP COMPUTERS CANSPORTATION EQUIPMENT ORES EQUIPMENT OOLS - SHOP & GARAGE EQUIPUI BORATORY EQUIPMENT OWER OPERATED EQUIPMENT EN PLANT-COMMUNICATION EQU OBILE THER THAN MOBILE & TELEMET ELEMETERING - OTHER ELEMETERING - MICROWAVE ELEPHONE EQUIPMENT EN PLANT-MISCELLANEOUS EQU RINT SHOP TCHEN EQUIPMENT INITORIAL EQUIPMENT STALLED IN LEASED BUILDINGS THER MISCELLANEOUS EQUIPMENT	DURCE CONTROL FACILITY5,019,153FICE FURNITURE & EQUIPMEN5,296,676DMPUTERS14,697,937N SITE BILLING—JSTOMER INFORMATION SYSTEM—MEP COMPUTERS—ANSPORTATION EQUIPMENT10,528,576TORES EQUIPMENT119,406DOLS - SHOP & GARAGE EQUIPUI4,966,501JBORATORY EQUIPMENT2,559,206EN PLANT-COMMUNICATION EQU47,025DBILE(58,219)THER THAN MOBILE & TELEMET7,046ELEMETERING - OTHER232,638ELEMETERING - MICROWAVE529,426ELEPHONE EQUIPMENT404,034EN PLANT-MISCELLANEOUS EQU—RINT SHOP4,277TCHEN EQUIPMENT14,873STALLED IN LEASED BUILDINGS5,393THER MISCELLANEOUS EQUIPMENT66,739	DURCE CONTROL FACILITY 5,019,153 410,683 FFICE FURNITURE & EQUIPMEN 5,296,676 257,672 DMPUTERS 14,697,937 5,218,052 N SITE BILLING — — JSTOMER INFORMATION SYSTEM — — MEP COMPUTERS — 190,021 ANSPORTATION EQUIPMENT 10,528,576 3,232,531 TORES EQUIPMENT 119,406 — DOLS - SHOP & GARAGE EQUIPUI 4,966,501 432,440 ABORATORY EQUIPMENT 2,559,206 415,713 EN PLANT-COMMUNICATION EQU 47,025 8,056 DBILE (58,219) 272,306 THER THAN MOBILE & TELEMET 7,046 (17,469) ELEMETERING - OTHER 232,638 195,818 ELEMETERING - MICROWAVE 529,426 153,955 ELEPHONE EQUIPMENT 404,034 33,486 EN PLANT-MISCELLANEOUS EQU — — RINT SHOP 4,277 (494) TCHEN EQUIPMENT 14,873 — STALLED IN LEASED BUILDINGS 5,393	DURCE CONTROL FACILITY 5,019,153 410,683 — FFICE FURNITURE & EQUIPMEN 5,296,676 257,672 (70,550) DMPUTERS 14,697,937 5,218,052 (2,853,153) N SITE BILLING — — — JSTOMER INFORMATION SYSTEM — — — MEP COMPUTERS — 190,021 — ANSPORTATION EQUIPMENT 10,528,576 3,232,531 (2,138,376) ORES EQUIPMENT 119,406 — — DOLS - SHOP & GARAGE EQUIPUI 4,966,501 432,440 — ABORATORY EQUIPMENT 2,559,206 415,713 (598,755) EN PLANT-COMMUNICATION EQU 47,025 8,056 (20,921) DBILE (58,219) 272,306 — — THER THAN MOBILE & TELEMET 7,046 (17,469) — — CLEMETERING - OTHER 232,638 195,818 (1,731) _ _ SLEPHONE EQUIPMENT 404,034 33,486 — _ _ _	DURCE CONTROL FACILITY 5,019,153 410,683 — — — — — — — — — — — — — — — — — — — … DST …	DURCE CONTROL FACILITY 5,019,153 410,683 — — — — — — — — — — — — — — — — — — — …	DURCE CONTROL FACILITY 5,019,153 410,683 — — — — — — — — — — — — — — — — — — — …	DURCE CONTROL FACILITY 5,019,153 410,683 — — — — — — — — — — — — — — — …

* May not foot due to rounding.

Period Beginning: January 2019

								Period Ending:	December 2019
Functional Cl	ass	Beginning			Cost of	Salvage and	Transfers and		Ending
FERC Plant	t Account	Reserve	Provision	Retirements	Removal	Other Credits	Adjustments	Loss/(Gain)	Reserve*
NON UTILITY									
Natural Gas L	Jnderground Storage								
352	WELLS	4,284,446	254,782	_	_	_	_	_	4,539,228
352.1	STORAGE LEASEHOLD & RIGHTS	240	17	_	_	_	_	_	257
352.2	RESERVOIRS	944,631	61,614	_	_	_	_	_	1,006,245
353	LINES	426,042	48,143	_	_	_	_	_	474,185
354	COMPRESSOR STATION EQUIPMENT	4,826,034	254,552	_	_	_	(463,610)	_	4,616,976
355	MEASURING / REGULATING EQUIPM	2,313,703	195,876	(181,462)	_	_	_	_	2,328,117
357	OTHER EQUIPMENT	13,029	1,373	_	_	_	_	_	14,401
Non Utility	Natural Gas Underground Storage Subtotal*	12,808,125	816,357	(181,462)	_		(463,610)	_	12,979,409
Transmission	n Plant								
368	TRANSMISSION COMPRESSOR	2,552,384	166,054	_	_	_	_	_	2,718,438
	Transmission Plant Subtotal*	2,552,384	166,054	_			_	_	2,718,438
Distribution F	Plant								
376.12	MAINS 4" & >	256,847	8,164	(263,642)	_	_	_	_	1,369
	Distribution Plant Subtotal*	256,847	8,164	(263,642)		_	_	_	1,369
General Plant	1								
389	LAND								
390	STRUCTURES & IMPROVEMENTS	38,856	 5,432	_	—	—	—	—	44,288
	General Plant Subtotal*	38,856	5,432		_				44,288
Non Utility Ot	ther								
121.1	NON-UTIL PROP-DOCK	1,947,067	_	_	_	_	_	_	1,947,067
121.2	NON-UTIL PROP-LAND	.,	_	_	_	_	_	_	.,,
121.3	NON-UTIL PROP-OIL ST	2,257,443	19,713	_	_	_	_	_	2,277,156
121.7	NON-UTIL PROP-APPL CENTER	42,939	4,383	_	_	_	_	_	47,322
121.8	NON-UTIL PROP-STORAGE	(1)	.,566	_	_	_	_	_	(1
Non Utility		4,247,448	24,096		_				4,271,543
	Non Utility Property Grand Total*	20,013,772	1,031,184	(445,103)			(463,610)		20,136,243
	iten ounty i roperty orana fotal	20,010,112	1,001,104	(440,100)			(400,010)		20,100,24

* May not foot due to rounding.

Period Beginning:

January 2019

								Period Beginning: Period Ending:	January 20 December 20
unctional	Class	Beginning			Cost of	Salvage and	Transfers and		Ending
FERC Pla	nt Account	Reserve	Provision	Retirements	Removal	Other Credits	Adjustments	Loss/(Gain)	Reserve
			40/04/0040						
UTILITY	JMMARY ALL UTILITY DEPRECIATION	N RESERVES	12/31/2019						
108002		(9,803,943)							
108003		16,266							
108004		650,566							
108005		(44,150)							
108009		(1,448,284)							
108010		(50,534,276)							
108011		1,017,579,07							
108012		15,688,030							
108013		(3,722,324)							
108014		(1,031,079)							
108015		2,966,315							
108016		1,989,764							
108100		—							
108102		363,976,829							
108103		444,574		-					
	SUBTOTAL*	-	1,336,727,369	•					
ADD:									
108001	REMOVAL WORK IN PROCESS		(39,241,310))					
108600	ROU UTIL LEAS ACC DE		4,444,480						
108601	FIN UTIL LEA ACC DEP		6,087						
108666	COST OF REMOVAL		24,611						
	TOTAL UTILITY DEPRECIATION*		1,301,961,235						
TOTAL SI	JMMARY ALL NON-UTILITY RESERVE		4						
	JITY								
122002		(106,607)							
122026		1,034							
122027		4,435,744							
122028		15,096,142							
122029		(764,395)							
122100		_							
122102		1,474,326		_					
	TOTAL NON UTILITY DEPRECIATION	*	20,136,242						

* May not foot due to rounding.

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

SUN	STATE IMARY OF UTILITY PLANT AND ACCU		ON - ALLOCA PROVISION PLETION		PRECIATION	I, AMORTI	ZATION
Line	ITEM	TOTAL	ELECTRIC	GAS	OTHER (SPECIFY)	OTHER (SPECIFY)	COMMON
No.	(a)	(b)	(C)	(d)	(SFECIFT) (e)	(SFECIFT)	
1		(0)	(C)	(u)	(e)	(1)	(g)
2	In Service						
3	Plant in Service (Classified)		- T		T	r	1
4	Property Under Capital Leases						
5	Plant Purchased or Sold						
6	Completed Construction not Classified		N/A - See Sl	TUS schedule	at OR 23		
7	Experimental Plant Unclassified						
8	TOTAL (Enter total of lines 3 thru 7)		+ +				
9	Leased to Others						
10	Held for Future Use						
11	Construction Work in Progress		+ +				
12	Acquisition Adjustments						
13	TOTAL Utility Plant (Enter total of lines 8 thru 12)						
14	Accum. Prov. for Depr., Amort., & Depl.						
15	Net Utility Plant (Line 13 less 14)						
16	DETAIL OF ACCUMULATED PROVISIONS FOR DEPRECIATION, AMORTIZATION AND DEPLETION						
17	In Service:						
18	Depreciation						
19	Amort. and Depl. of Producing Natural Gas Land and Land Rights						
20	Amort. of Underground Storage Land and Land Rights						
21	Amort. of Other Utility Plant						
21.01	Salvage Work In Progress						
21.02	Less Removal Work in Progress						
22	TOTAL in Service (Lines 18 thru 21)						
23	Leased to Others						
24	Depreciation						
25	Amortization and Depletion						
26	TOTAL Leased to Others (Lines 24 and 25)						
27	Held for Future Use						
28	Depreciation						
29	Amortization						
30	TOTAL Held for Future Use (Lines 28 and 29)						
31	Abandonment of Leases (Natural Gas)						
32	Amort. of Plant Acquisition Adjustment						
33	TOTAL Accumulated Provisions (Should agree with line 14 above) (Lines 22, 26, 30, 31, and 32)						

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2)		December 31, 2019

STATE OF OREGON - ALLOCATED GAS PLANT IN SERVICE

1. Report below the original cost of gas plant in service

2. In addition to Account 101, Gas Plant In Service (Classified), this page and the next include Account 102, Gas Plant Purchased or Sold, Account 103, Completed Construction Not Classified - Gas.

3. Include in column (c) or (d), as appropriate, corrections of additions and retirements for the current or preceding year.

4. Enclose in parentheses credit adjustments of plant accounts to indicate the negative effect of such accounts.

5. Classify Account 106 according to prescribed accounts, on an estimated basis if necessary, and include the entries in column (c). Also to be included in column (c) are entries for reversals of tentative distributions or prior year reported in column (b). Likewise, if the respondent has a significant amount of plant retirements which have not been classified to primary accounts at the end of the year, include in column (d)a tentative distribution of such retirements, on Estimated basis, with appropriate contra entry to the account for accumulated depreciation provision. Include also in column (d) reversals of tentative distributions of prior year unclassified retirements. Attach supplemental statement showing the account distributions of these tentative classifications in column (c) and (d), including the reversals of the prior years tentative account distributions of these amounts. Careful observance of the above instructions and the texts of Accounts 101 and106 will avoid serious omissions of the reported amount of respondent's plant actually in service at the end of the year. (Continued on page 33)

Line	Account	BALANCE BEGINNING OF YEAR	Additions	Retirements	Adjustments	Transfers	BALANCE END OF YEAR
No.	(a)	(b)	(C)	(d)	(e)	(f)	(g)
1	1. Intangible Plant	(-)	(-)	(-)	(-)	(-)	(3)
2	301 Organization	-					
3	302 Franchises and Consents						
4	303 Miscellaneous Intangible Plant						
5	TOTAL Intangible Plant						
6	2. Production Plant						
7	Natural Gas Production & Gathering Plant	1					
8	325.1 Producing Lands						
9	325.2 Producing Leaseholds	N/A - See SIT	US schedu	le at OR 24 -	27		
10	325.3 Gas Rights						
11	325.4 Rights-of-Way						
12	325.5 Other Land and Land Rights						
13	326 Gas Well Structures						
14	327 Field Compressor Station Structures						
15	328 Field Meas. And Reg. Sta. Structures						
16	329 Other Structures						
17	330 Producing Gas Wells - Well Construction						
18	331 Producing Gas Wells - Well Equipment						
19	332 Field Lines						
20	333 Field Compressor Station Equipment						
21	334 Field Mess. And Reg. Sta. Equipment						
22	335 Drilling and Cleaning Equipment						
23	336 Purification Equipment						
24	337 Other Equipment						
25	338 Unsuccessful Explor. & Devel. Costs						
26	TOTAL Production & Gathering Plant						
27	Products Extraction Plant						
28	340 Land and Land Rights						
29	341 Structures and Improvements						
30	342 Extraction and Refining Equipment						
31	343 Pipe lines						
32	344 Extracted Products Storage Equipment						

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATE OF OREGON - ALLOCATED GAS PLANT IN SERVICE (CONT'D)

6. Show in column (f) reclassifications or transfers within utility plant accounts.Include also in column (f) the additions or reductions of primary account classifications arising from distribution of amounts initially recorded in Account102. In showing the clearance of Account 102, include in column (e) the amounts with respect to accumulated provision for depreciation, acquisition adjustments, etc. and show in column (f) only the offset to the debits or credits distributed in column (f) to primary account classifications.

7. For account 399, state the nature and use of plant included in this account and if substantial amount, submit a supplementary statement showing subaccount classification of such plant conforming to the requirements of these pages.

8. For each amount comprising the reported balance and changes in Account 102, state the property purchased or sold, name of vendor or purchaser, and date of transaction. If proposed journal entries have been filed with the Commission as required by the Uniform System of Accounts, give also date of such filing.

Line	Account	BALANCE BEGINNING OF YEAR	Additions	Retirements	Adjustments	Transfers	BALANCE END OF YEAR
No.	(a)	(b)	(C)	(d)	(e)	(f)	(g)
	2. Production Plant (Con't) Products Extraction Plant (Con't)			1			
33	345 Compressor Equipment						
34	345 Gas Meas. And Reg. Equipment						
35	347 Other Equipment						
36	TOTAL Products Extraction Plant						
37	TOTAL Nat. Gas Production Plant	N/A - See SIT	US schedu	le at OR 24 -	27		
38	Mfd. Gas Prod. Plant (Submit Suppl. Stmt)						
39	TOTAL Production Plant						
40	3. Natural Gas Storage & Proc. Plant						
41	Underground Storage Plant						
42	350.1 Land						
43	350.2 Rights-of-Way						
44	351 Structures & Improvements						
45	352 Wells						
46	352.1 Storage Leaseholds & Rights						
47	352.2 Reservoirs						
48	352.3 Non-recoverable Natural Gas						
49	353 Lines						
50	354 Compressor Station Equipment						
51	355 Measuring & Reg. Equipment						
52	356 Purification Equipment						
53	357 Other Equipment						
54	TOTAL Underground Storage Plant						
55	Other Storage Plant		•				
56	360 Land and Land Rights						
57	361 Structures and Improvements						
58	362 Gas Holders						
59	363 Purification Equipment						
60	363.1 Liquefaction Equipment						
61	363.2 Vaporizing Equipment						
62	363.3 Compressor Equipment						
63	363.4 Meas. And Reg. Equipment						
64	363.5 Other Equipment						
65	TOTAL Other Storage Plant						

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	STATE OF OREGON - ALL	OCATED GAS	PLANT	IN SERVIC	E (CONT'D)		
Line	Account	BALANCE BEGINNING OF YEAR	Additions	Retirements	Adjustments	Transfers	BALANCE END OF YEAR
No.	(a)	(b)	(C)	(d)	(e)	(f)	(g)
66	Base Load Liquefied Natural Gas Terminaling and Processing Plant			•			
67	364.1 Land and Land Rights						
68	364.2 Structures and Improvements						
69	364.3 LNG Processing Terminal Equipment						
70	364.4 LNG Transportation Equipment						
71	364.5 Measuring and Regulating Equipment	N/A - See SIT	US schedu	ule at OR 24 -	27		
72	364.6 Compressor Station Equipment						
73	364.7 Communications Equipment						
74	364.8 Other Equipment						
75	TOTAL Base Load Liquefied Natural						
76	Gas, Terminaling, & Processing Plant						
77	TOTAL Nat. Gas Storage & Proc. Plant						
78	4. Transmission Plant						
79	365.1 Land and Land Rights						
80	365.2 Rights-of-Way						
81	366 Structures and Improvements						
82	367 Mains						
83	368 Compressor Station Equipment						
84	369 Measuring and Reg. Sta. Equipment						
85	370 Communication Equipment						
86	371 Other Equipment						
87	TOTAL Transmission Plant						
88	5. Distribution Plant			•		•	•
89	374 Land and Land Rights						
90	375 Structures and Improvements						
91	376 Mains						
92	377 Compressor Station Equipment						
93	378 Meas. And Reg. Sta. Equip General						
94	379 Meas. And Reg. Sta. Equip City Gate						
95	380 Services						
96	381 Meters						
97	382 Meter Installations						
98	383 House Regulators						
99	384 House Reg. installations						
100	385 Industrial Meas. & Reg. Sta. Equip						
101	386 Other Prop. On Customers' premises						
102	387 Other Equipment						
103	TOTAL Distribution Plant						

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	STATE OF OREGON - ALLOCATED GAS PLANT IN SERVICE (CONT'D)							
Line		Account	BALANCE BEGINNING OF YEAR	Additions	Retirements	Adjustments	Transfers	BALANCE END OF YEAR
No.		(a)	(b)	(C)	(d)	(e)	(f)	(g)
104		6. General Plant						
105	389	Land and Land Rights						
106	390	Structures and Improvements						
107	391	Office Furniture and Equipment						
108	392	Transportation Equipment	N/A - See SIT	US schedu	le at OR 24 -	27		
109	393	Store Equipment						
110	394	Tools, Shop, and Garage Equipment						
111	395	Laboratory Equipment						
112	396	Power Operated Equipment						
113	397	Communication Equipment						
114	398	Miscellaneous Equipment						
115		Subtotal						
116	399	Other Intangible Property						
117		TOTAL General Plant						
118		TOTAL (Accounts 101 and 106)						
119		Gas Plant Purchased (See Instr. 8)						
120		(Less) Gas Plant Sold (See Instr. 8)						
121		Experimental Gas Plant Unclassified						
122		TOTAL Gas Plant In Service						

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATE OF OREGON - ALLOCATED GAS PLANT HELD FOR FUTURE USE (Account 105)

1. Report separately each property held for future use at end of the year having an original cost of \$100,000 or more. Other items of property held for future use may be grouped provided that the number of properties so grouped is indicated.

2. For property having an original cost of \$100,000 or more previously used in utility operations, now held for future use, give in addition to other required information, the date that utility use of such property was discontinued, and the date the original was transferred to Account 105.

Line	DESCRIPTION AND LOCATION OF PROPERTY	DATE ORIGINALLY INCLUDED IN THIS ACCOUNT	DATE EXPECTED	BALANCE END OF YEAR
No.	(a)	(b)	(C)	(d)
1				
2				
3				
4	N/A - See SITUS schedule at OR 28			
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30	TOTALS			_

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATE OF OREGON - ALLOCATED CONSTRUCTION WORK IN PROGRESS - GAS (Account 107)

1. Report below descriptions and balances at end of year of projects in process of construction (Account 107)

2. Show items relating to "research, development, and demonstration" projects last, under a caption Research, Development, and Demonstration (see Account 107 of the Uniform System of Accounts).

3. Minor projects (less than \$1,000,000) may be grouped.

Line	DESCRIPTION OF PROJECT	CONSTRUCTION WORK IN PROGRESS - GAS (ACCOUNT 107)	ESTMATED ADDITIONAL COST OF PROJECT
No.	(a)	(b)	(C)
1			
2			
3			
4	N/A - See SITUS schedule at OR 29		
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19 00			
20			
21 22			
22 23			
23 24			
24 25			
25 26			
20 27			
27			
20 29			
30	TOTALS		

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATE OF OREGON - ALLOCATED ACCUMULATED PROVISION FOR DEPRECIATION OF GAS UTILITY PLANT (Account 108)

1. Explain in a footnote any important adjustments during the year.

2.Explain in a footnote any difference between the amount for book cost of plant retired, line 11, column (c), and that reported for gas plant in service, pages 32-35, column (d)excluding retirements of non-depreciable property.

3. The provisions of Account 108 of the Uniform System of Accounts require that retirements of depreciable plant be recorded when such plant is removed from service. If the respondent has a significant amount of plant retired at year end which has not been recorded and/or classified to the various reserve functional classifications, make preliminary closing entries to tentatively functionalize the book cost of the plant retired. In addition, include all costs included in retirement work in progress at year-end in the appropriate functional classifications.

4. Show separately interest credits under a sinking fund of similar method of depreciation accounting.

	Section A. Balances and Changes During Year								
Line	ITEM	TOTAL (d+d+e)	GAS PLANT IN SERVICE	GAS PLANT HELD FOR FUTURE USE	GAS PLANT LEASED TO OTHERS				
No.	(a)	(b)	(C)	(d)	(e)				
1	Balance Beginning of Year								
2	Depreciation Provisions for Year, Charged to								
3	(403) Depreciation Expense								
4	(413) Exp. Of Gas Plt. Lease to Others								
5	Transportation Expenses - Clearing								
6	Other Clearing Accounts								
7	Other Accounts (Specify):	N/A - See	SITUS schedule	e at OR 30					
8]							
9	Total Deprec. Prov. For Year (Enter total of lines 3-8)								
10	Net Charges for Plant Retired:								
11	Book Cost of Plant Retired								
12	Cost of Removal								
13	Salvage (Credit)								
14	TOTAL Net Charges for Plant Ret. (Enter Total of lines 11-13)								
15	Other Debit or Credit Items (Describe):								
16									
17	Balance End of Year (Enter Total of Lines 1,9, 14, 15,& 16)								
	Section B. Balances at End of Year	Accordin	g to Functional	Classifications					
18	Production - Manufactured Gas								
19	Prod. And Gathering - Natural Gas								
20	Products Extraction - Natural Gas								
21	Underground Gas Storage								
22	Other Storage Plant								
23	Base Load LNG Term and Proc. Plt.								
24	Transmission								
25	Distribution								
26	General								
27	TOTAL (Total of Lines 18 thru 26)								

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATE OF OREGON - GAS STORED (Account 117, 164.1, 164.2 and 164.3)

1. Report below the information called for concerning inventories of gas stored.

2. The Uniform System of Accounts provides that inventory cost records be maintained on a consolidated basis for all storage projects with separate records showing the Mcf of inputs and withdrawals and balance for each project, except under certain specified circumstances. If the respondent's inventory cost records are not maintained on a consolidated basis for all storage projects, furnish an explanation of the accounting followed and reason for any deviation from the general basis provided by the Uniform System of Accounts. Separate schedules on this schedule form should be furnished for each group of storage projects for which separate inventory cost records are maintained.

3. If during the year adjustment was made of the stored gas inventory, such as to correct for cumulative inaccuracies of gas measurements, furnish an explanation of the reason for the adjustment, the Mcf and dollar amount of adjustment and account charged or credited.

4. Give a concise statement of the facts and the accounting performed with respect to any encroachment of withdrawals during the year, or restoration of previous encroachment, upon native gas constituting the "gas cushion" of any storage reservoir.

5. If the respondent uses a "base stock" in connection with its inventory accounting, give a concise statement of the basis of establishing such "base stock" and the inventory basis and the accounting performed with respect to any encroachment of withdrawals upon "base stock", or restoration of previous encroachment, including brief particulars of any such accounting during the year.

6. If respondent has provided accumulated provision for stored gas which may not eventually be fully recovered from any storage project furnish a statement showing: (a) date of Commission authorization of such accumulated provision (b) explanation of circumstances requiring such provision (c) basis of provision and factors of calculation (d) estimated ultimate accumulated provision accumulation (e) a summary showing balance of accumulated provision and entries during year.

7. Pressure base of gas volumes reported in this schedule is 14.73 psia at 60° F.

Line	Description	Non Current (Account 117)	Current (Account 164.1)	LNG (Account 164.1)	LNG (Account 164.2)	Total
No.	(a)	(/ (0000411 / / / / /) (b)	(rteoculit 10411) (C)	(d)	(rtocount 104.2) (e)	(i)
1	Balance at Beginning of Year	(6)	(0)	(4)	(0)	(1)
2	Gas Delivered to Storage					
3	Contra Account					
4	Gas Withdrawn from Storage					
5	Contra Account	SEE FERC AN	I NUAL REPORT			
6	Other Debits and Credits		E 220			
7	(Explain					
8	Balance at End of Year					
9	Dekatherms					
10	Amount Per Dekatherm					
11						
12	Balance at End of Year					
13	MCF					
14	Amount per Mcf					
15	State basis of segregation of inventory between	current and noncu	rrent portions.			
16						
17	Gas delivered to storage:					
18	Mcf					
19	Amount per Mcf					
20	Cost basis of gas delivered to storage:					
21	Specify: Own production (give production a					
22	uniform system of accounts); average syste	•				
23	specific purchases (state which purchases)					
24	Does cost of gas delivered to storage include an					
25	for use of respondent's transmission, sto	-				
26	facilities? If so, give particulars and date	e of Commission				
27	approval of the accounting.					
28						
29	Gas withdrawn from storage:					
30	Mcf					
31	Amount per Mcf					
32	Cost basis of withdrawals:	in any change in				
33	Specify: average cost, lifo, fifo. (Expla					
34 25	inventory basis during year and give da		,			
35 36	approval of the change or approval of a	•	ata)			
30	different from that referred to in uniform	system of accour	115)			

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATE OF OREGON - GAS PURCHASES (Accounts 800, 801, 802, 803, 804.1 and 805)

1. Report particulars of gas purchases during the year in the manner prescribed below. (Code numbers to be used in reporting for Columns (d), (e) and (f) will be supplied by the Commission.)

2. Provide subheadings and totals for prescribed accounts as follows

800 Natural Gas Well Head Purchases

- 801 Natural Gas Field Line Purchases
- 802 Natural Gas Gasoline Plant Outlet Purchases
- 803 Natural gas Transmission Line Purchases
- 804 Natural Gas City Gate Purchases
- 804.1 Liquefied natural Gas Purchases

805 Other gas Purchases

Purchases are to be reported in account number sequence, e.g. all purchases charged to Account 800, followed by charges to Account 801, etc. Under each account number, purchases should be reported by states in alphabetical order. Totals are to be shown for each account in Columns (k) and (l)and should agree with the books of accounts, or any differences reconciled.

3. Purchases may be reported by gas purchase contract totals (at the option of the respondent) where one contract includes two or more FERC producer rate schedules or small producer certificates, provided that the same price is being paid for all gas purchased under the contract. If two or more prices are in effect under the same contract, separate details for each price shall be reported. The name, and FERC rate schedule or small producer certificate docket number of each seller included in the contract total shall be listed on separate sheets, clearly cross-referenced. Where two or more prices are in effect, the sellers at each price are to be listed separately.

4. Purchases of less than 100,000 MCF per year per contract from sellers not affiliated with the reporting company may (at the option of the respondent) be grouped by account number, except when the purchases were permanently discontinued during the reporting year. When grouped purchases are reported, the number of grouped purchases is to be reported in Column (a). Only Columns (a), (k), (l), and (m) are to be completed for grouped purchases; however, the Commission may request additional details when necessary. Grouped non-jurisdictional purchases should be shown on a separate line.

Column instructions are as follows:

<u>Columns (a) and (d)</u> - In reporting the names of sellers under FERC rate schedules, use the names as they appear on the filed rate schedules. Abbreviations may be used where necessary. The code number to be used is the Commission assigned number.

<u>Column (b)</u> - Give the name of the producing field only for purchases at the wellhead or from field lines. The plant name should be given for purchases from gasoline plant outlets. If purchases under a contract are from more than one field or plant, use the name of the one contributing the largest volume.Use a footnote to list the other fields or plants involved.

<u>Column (c)</u> - State the net rate in cents per MCF as of December 31 for the reported year, applicable to the volume shown in Column (k). The net rate includes all applicable deductions and downward adjustments. The rate is effective if filed pursuant to applicable statues and regulations and (as to FERC rates schedules) permitted by the commission to become effective.

<u>Columns (e) and (f)</u> - General Services Administration location code designations are to be used to designate the state and county where the gas is received. Where gas is received in more than one county, use the code designation for the county having the largest volume, and by footnote list the other countries involved.

<u>Column (g)</u> - List the assigned commission rate schedule number or small producer certificate docket number. Use the designation "NF" in Column (g) to indicate non-jurisdictional purchases.

<u>Column (h)</u> - In some cases, two or more lines will be required to report a purchase, as when two or more rates are being paid under the same contract, or when purchases under the same rate schedule are charged to more than one account. If for such reasons the producer rate schedule or non-jurisdictional purchase contract appears on more than one line, enter a numerical code (selected by the respondent) in Column (h) to so indicate. Once established, the same numerical suffix is to be used for all subsequent-year reporting of the purchase. If the purchase was permanently discontinued during the reporting year, so indicate by an asterisk (*) in column (h). Column (h) is to be used also, to enter any Commission assigned letter rate schedule suffix (e.g. R.S. No. 22A).

<u>Column (i)</u> - Show date of the gas purchase contract. If gas is purchased under a renegotiated contract show the dates of the original and renegotiated contracts on the following line in brackets. If new acreage is dedicated by ratification of an existing contract, show the date of the ratification, rather than the date of the original contract. If gas is being sold from a different reservoir than the original dedicated acreage pursuant to Section 2.56 (f) (2) of the Commission's Rules of Practice and Procedure, place the letter "A" after the contract date.

Column (j) - Show, for each purchase, the approximate BTU per cubic foot, determined in accordance with the definition in item No. 7 of the General Instructions for FERC Form 2.

<u>Column (k)</u> - State the volume of purchased gas as finally measured for purpose of determining the amount payable for the gas. Include current year receipts of make-up gas that was paid for in prior years.

Column (I) - State the dollar amount (omit cents)paid and previously paid for the volumes of gas shown in Column (k).

Column (m) - State the average cost per MCF to the nearest hundredth of a cent. (Column (I) divided by Column (k) multiplied by 100).

Blank Page

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	STATE OF OREGON - GAS PURCHASES (Account 800, 801, 802, 803, 804, 804.1 and 805) (Con't)								
Line	NAME OF SELLER (DESIGNATE ASSOCIATED COMPANIES)	NAME OF PRODUCING FIELD OR GASOLINE PLANT	NET RATE EFFECTIVE DECMEBER 31						
No.	(a)	(b)	(C)						
1									
2									
3									
4									
5									
6		SEE FERC ANNUAL REPORT							
7		PAGE 520							
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24 25									
25 26									
20									
27									
20									
30									

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗖 A Resubmission		December 31, 2019

	SELLAR	STATE	COUNTRY	RATE SC	HEDULE	DATE OF	APPROX	GAS PURCHASED -	COST OF	COST PER MCF
Line	CODE	CODE	CODE	No.	Suffix	CONTRACT	APPROX BTU PER CU FEET	MCF (14.73 PSIA 60°F)	GAS	MCF (CENTS)
No.	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	` (m) ´
1										
2										
3										
4										
5										
6										
7				SEE		NNUAL RE	PORT			
8					PA	GE 520				
9										
10										
11										
12										
13										
14										
15										
16 17										
17										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATE OF OREGON - GAS USED IN UTILITY OPERATIONS - CREDIT (Accounts 810, 811 and 812)

1. Report below particulars of credits during the year to Accounts 810, 811 and 812, which offset charges to operating expenses or other accounts for the cost of gas from the respondent's own supply.

2. Natural gas means either natural gas unmixed, or any mixture of natural and manufactured gas.

3. If the reported MCF for any use is an estimated quantity, state such fact.

4. If any natural gas was used by the respondent for which charge was not made to the appropriate operating expenses or other account, list separately in column (c) the MCF of gas so used, omitting entries in columns (d) and (e).

5. Pressure base of measurement, to be reported in columns (c) and (f) is 14.73 psia at 60° F.

<u> </u>	, ,		· ·				
			NA	TURAL GAS		MANUFACTUF	
Line	PURPOSE FOR WHICH GAS WAS USED	ACCOUNT CHARGED	Dth OF GAS USED (14.73 PSIA AT 60° F)	AMOUNT OF CREDIT	AMOUNT PER Dth (CENTS)	MCF OF GAS USED (14.73 PSIA AT 60° F)	AMOUNT OF CREDIT
No.	(a)	(b)	(C)	(d)	(e)	(f)	(g)
1	810 Gas used for Compressor Station Fuel - Credit		—	—	—	N/A	N/A
2	811 Gas used for Products Extraction - Credit		—			N/A	N/A
3	(a) Gas shrinkage & other usage in respondent's own processing		_			N/A	N/A
4	(b) Gas shrinkage, etc. for respondent's gas processed by others		_			N/A	N/A
5	812 Gas used for Other Utility Operations - Credit		613,565	159,515	0.26	N/A	N/A
6	(Report separately for each principal use, Group minor uses.)					N/A	N/A
7	System - All Districts		187,686	159,515			
8	LNG Plants		175,484	0*			
9	Underground Storage Compressors		250,395	0*			
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21 22							
22							
23 24							
24 25	TOTAL		613,565	159,515	0.26		
	uded in the Cost of Inventory		010,000	100,010	0.20	l	

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATE OF OREGON - GAS ACCOUNT - NATURAL GAS

1. The purpose of this schedule is to account for the quantity of natural gas received and delivered by the respondent, taking into consideration differences in pressure bases used in measuring Mcf of natural gas received and delivered.

2. Natural gas means either natural gas unmixed or any mixture of natural and manufactured gas.

3. Enter in column (c) the Dth as reported in the schedules indicated for the items of receipts and deliveries.

4. In a footnote report the volumes of gas from respondent's own production delivered to respondent's transmission system and included in natural gas sales.

5. If the respondent operates two or more systems which are not interconnected, separate schedules should be submitted. Insert pages for this purpose.

Line	ITEM	REF. PAGE NO.	Amount of Dth
No.	(a)	(b)	(C)
1	GAS RECEIVED		
2	Natural Gas Produced		
3	LPG Gas Produced and Mixed with Natural Gas		
4	Manufactured Gas Produced and Mixed with Natural Gas		
5	Purchased Gas		
6	(a.) Wellhead		—
7	(b.) Field Lines		227,161
8	(c.) Gasoline Plants		_
9	(d.) Transmission Line		—
10	(e.) City Gate Under FERC Rate Schedules		74,859,659
11	(f.) LNG		_
12	(g.) Other		—
13	TOTAL, Gas Purchased (Enter Total of lines 7 thru 13)		75,086,820
14	Gas of Others Received for Transportation		37,587,638
15	Receipts of Respondents' Gas Transported or Compressed by Others		—
16	Exchange Gas Received		_
17	Gas Withdrawn from Underground Storage	*	5,626,024
18	Gas Received from LNG Storage		995,518
19	Gas Received from LNG Processing		_
20	Other Receipts (Specify): Off System Storage Withdrawal		_
21	TOTAL Receipts (Enter Total of lines 2 thru 5, 13, and 14 thru 20)		119,296,000
* This	amount does not tie to system page 512 as it only includes Oregon storage sites		

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗖 A Resubmission		December 31, 2019

Line	STATE OF OREGON - GAS ACCOUNT - NAT	REF. PAGE NO.	Amount of Dth
Line No.			
NO.	(a) GAS DELIVERED	(b)	(C)
22			
22	Natural Gas Sales a. Field Sales		
23			
	(i) To Interstate Pipeline Companies for Resale pursuant to FERC Rate Schedules		
25			
26	(ii) Retail Industrial Sales		
27	(iii) Other Field Sales		
28	TOTAL, Field Sales		
29	b. Transmission System Sales		
30	(i) To Interstate Pipeline Co. for Resale Under FERC Rate Schedules		
31	(ii) To Interstate Pipeline Co. and Gas Utilities for resale under		
32	FERC Rate Schedules		
33	(iii) Mainline Industrial Sales Under FERC Certification		
34	(iv) Other Mainline Industrial Sales		
35	(v) Other Transmission System Sales		
36	TOTAL, Transmission System Sales		
37	c. Local Distribution by Respondent		
38	(i) Retail Industrial Sales		7,978,231
39	(ii) Other Distribution System Sales		65,677,680
40	TOTAL, Distribution System Sales		73,655,911
41	d. Interdepartmental sales		
42	e. Unbilled Therms		(178,998
43	TOTAL SALES		73,476,913
44	Deliveries of Gas Transported or Compressed for:		
45	(a.) Other Interstate Pipeline Companies		
46	(b.) Others - Transportation		37,587,638
47	TOTAL, Gas Transported or Compressed for Others		37,587,638
48	Deliveries of Respondent's Gas for Trans. or Compression by Others		
49	Exchange Gas Delivered		
50	Natural Gas Used by Respondent		613,565
51	Natural Gas Delivered to Underground Storage	*	5,973,951
52	Natural Gas Delivered to LNG Storage		985,034
53	Natural Gas Delivered to LNG Processing		_
54	Natural Gas for Franchise Requirements		
55	Other Deliveries (Specify): FIK		
56	TOTAL SALES & OTHER DELIVERIES		118,637,101
	UNACCOUNTED FOR GAS		
57	Production System Losses		
58	Storage Losses: Mist Gas Loss		
59	Transmission System Losses		
60	Distribution System Losses		658,899
61	Other Losses (Leakage)		_
62	TOTAL Unaccounted for		658,899
63	TOTAL SALES, OTHER DELIVERIES, AND UNACCOUNTED FOR		119,296,000

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	STATE OF OREGON - MISCELLANEOUS GENERAL EXPENSES (Account 930.2) Report below the information called for concerning items included in miscellaneous general expenses.						
Line	ITEMS	TOTAL	AMOUNT APPLICABLE	AMOUNT APPLICABLE TO OTHER STATES			
No.	(a)	(b)	(c)	(d)			
	SEE FERC ANNUAL REPORT PAGE 335						

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) A Resubmission		December 31, 2019

	STATE OF OREGON - POLITICAL ADVERTISING					
1. List enactr	 List all payments for advertising, the purpose of which is to aid or defeat any measure before the people or to promote or prevent the enactment of any national, state, district or municipal legislation. 					
2. Give	2. Give the specific purpose of such advertising, when and where placed, and the account or accounts charged.					
3. Rep	oort whole dollars only. Provide a total for each account and a grand total.					
Line	DESCRIPTION	ACCOUNT CHARGED	AMOUNT			
No.	(a)	(b)	(d)			
No.	(a)	(b)	(d)			

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATE OF OREGON - POLITICAL CONTRIBUTIONS

1. List all payments for advertising, the purpose of which is to aid or defeat any measure before the people or to promote or prevent the enactment of any national, state, district or municipal legislation.

2. The purpose of all contributions or payments should be clearly explained

3. Report whole dollars only. Provide a total for each account and a grand total.

	,		
Line	DESCRIPTION	ACCOUNT CHARGED	AMOUNT
No.	(a)	(b)	(C)
1	INTERNAL LOBBY AND INTERNAL RESOURCES	426-04935	15,214
2	DAVIS HIBBITTS & MIDGHALL INC	426-04935	38,850
3	ASSOCIATION OF WASHINGTON BUSINESS	426-04935	25,500
4	AMERICAN GAS FOUNDATION	426-04935	20,000
5	THREE RIVERS CASINO RESORT	426-04935	3,000
6	NORTHWEST GAS ASSOCIATION	426-04935	2,500
7	ELECTION SOLUTIONS INC	426-04935	2,000
8	OREGON RESTAURANT & LODGING ASSN	426-04935	1,250
9	CHARITABLE PARTNERSHIP FUND	426-04935	1,000
10	OTHER < \$1,000	426-04935	750
11	Total 426-04935	Total	110,064
12			
13	NATURAL GAS POLITICAL	426-04955	100,000
14	OREGON BUSINESS COUNCIL (OBC)	426-04955	15,000
15	SENATE REPUBLICAN CAMPAIGN COMMITTEE	426-04955	1,000
16	HOUSE REPUBLICAN ORGANIZATIONAL	426-04955	1,000
17	WASHINGTON SENATE DEMOCRATIC CAMPAIGN	426-04955	1,000
18	HOUSE DEMOCRATIC CAMPAIGN COMMITTEE	426-04955	1,000
19	OTHER < \$1,000	426-04955	11,000
20	Total 426-04955	Total	130,000
21			
22	INTERNAL LOBBY AND INTERNAL RESOURCES	426-04950	226,400
23	Total 426-04950	Total	226,400
24			
25		Total	466,464
26			
27			
28			
29			
30			

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗖 A Resubmission		December 31, 2019

STATE OF OREGON - EXPENDITURES TO ANY PERSON OR ORGANIZATION HAVING AN AFFILIATED INTEREST FOR SERVICES, ETC.

1. Report all expenditures to any person or organization having an affiliated interest for service, advice, auditing, associating, sponsoring, engineering, managing, operating, financial, legal or other services. See Oregon Revised Statute 757.015 for definition of "affiliated interest."

2. Give reference if such expenditures have in the past been approved by the Commission. Describe the services received and the account or accounts charged. Report whole dollars only.

accoi				
Line	DESCRIPTION	ACCOUNT NUMBER	TOTAL AMOUNT	AMOUNT ASSIGNED TO OREGON
No.	(a)	(b)	(d)	(d)
1	The required affiliated interest expenditure information for 2019 will be provided in NW Natural's FY 2019 annual Affiliated Interest Report.			
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23 24				
24 25				
25 26				
20				
27				
20				
30				

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATE OF OREGON - DONATIONS AND MEMBERSHIPS 1. List all donations and membership expenditures made by the utility during the year and the accounts charged. Give the name, city, and state of each organization to whom a donation has been made. Group donations under headings such as: a. Contributions to and memberships in charitable organizations. b. Organizations of the utility industry. c. Technical and professional organizations. d. Commercial and trade organizations. e. All other organizations and kinds of donations and contributions. 2. List donations by type and group by the accounts charged. Report whole dollars only. Provide a total for each group of donations ACCOUNT TOTAL AMOUNT ASSIGNED DESCRIPTION Line NUMBER AMOUNT TO OREGON No. (a) (b) (C) (d) 1 All donations listed below are contributions to charitable organizations. 2 UNITED WAY 426-02180 60,000 60,000 3 OREGON COMMUNITY FOUNDATION 426-02180 49,693 49,693 4 A VILLAGE FOR ONE 426-02180 42,500 42,500 5 COMMUNITY WAREHOUSE 426-02180 40,350 40,350 BONNEVILLE ENVIRONMENTAL FOUNDATION 6 426-02180 38,000 38,000 JANUS YOUTH PROGRAMS 426-02180 7 35,000 17,500 8 OREGON TRAIL OF HOPE INC 426-02180 35,000 35,000 9 PORTLAND HOMELESS FAMILY SOLUTIONS 426-02180 35,000 35,000 426-02180 10 **P**·FAR 25.400 25.400 11 FRIENDS OF THE CHILDREN - PORTLAND 426-02180 25,000 25,000 12 LITERARY ARTS INC 426-02180 21,000 21,000 PORTLAND COMMUNITY COLLEGE 13 426-02180 20,000 20,000 14 **VIRGINIA GARCIA** 426-02180 20,000 20,000 15 THE FOREST PARK CONSERVANCY 426-02180 16,850 16,850 16 PORTLAND HABITAT FOR HUMANITY 426-02180 16,392 16,392 17 OREGON FOOD BANK INC 426-02180 15,700 15,700 18 LIFEWORKS NORTHWEST 426-02180 15,650 15,650 19 CASA FOR CHILDREN 426-02180 15.250 15.250 20 FRIENDS OF TREES 426-02180 15,000 15,000 21 IMPACT NORTHWEST 426-02180 15,000 15,000 22 PORTLAND STATE 426-02180 15,000 15,000 23 STAND FOR CHILDREN 426-02180 15,000 15,000 24 TRANSITION PROJECTS INC 426-02180 15,000 15,000 GUIDE DOGS FOR THE BLIND INC 426-02180 25 14,000 14,000 26 426-02180 12,500 URBAN GLEANERS 12,500 27 **KAIROSPDX** 426-02180 12,000 12,000 28 **BRIDGE MEADOWS** 426-02180 11,150 11,150 WIND & OAR BOAT SCHOOL 29 426-02180 10,400 10,400 30 AMERICAN RED CROSS CASCADES REGION 426-02180 10,300 5,000 31 SELF ENHANCEMENT INC 426-02180 10,300 10,300 32 ALL HANDS RAISED 426-02180 10,000 10,000 33 COMMUNITY ACTION ORGANIZATION 426-02180 10,000 10,000 34 COMMUNITY CYCLING CENTER 426-02180 10,000 10,000 35 MERCY CORPS 426-02180 10,000 5,000 36 OREGON ALLIANCE OF INDEPENDENT 426-02180 10,000 10,000 37 **OREGON HISTORICAL SOCIETY** 426-02180 10,000 10,000 38 PORTLAND CENTER STAGE 426-02180 10,000 10,000 39 SCHOOLHOUSE SUPPLIES INC 426-02180 10,000 10,000 40 SOLVE 426-02180 10,000 10,000 41 THE FRESHWATER TRUST 426-02180 10,000 10,000

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

Line	DESCRIPTION	ACCOUNT NUMBER	TOTAL AMOUNT	AMOUNT ASSIGNED TO OREGON
No.	(a)	(b)	(C)	(d)
42	YOUTH VILLAGES FOUNDATION INC	426-02180	10,000	10,000
43	OREGON CHILDREN'S FOUNDATION	426-02180	8,000	8,000
44	PORTLAND CLASSICAL CHINESE GARDEN	426-02180	7,500	7,500
45	RAPHAEL HOUSE OF PORTLAND	426-02180	7,500	7,500
46	THE OREGON ZOO FOUNDATION	426-02180	7,500	7,500
47	DRESS FOR SUCCESS OF OREGON INC	426-02180	6,820	6,820
48	LATINO NETWORK	426-02180	6,500	6,500
49	CATHOLIC CHARITIES	426-02180	6,000	6,000
50	GROWING GARDENS	426-02180	5,500	5,500
51	OREGON MUSEUM OF SCIENCE	426-02180	5,500	5,500
52	JUNIOR ACHIEVEMENT	426-02180	5,400	5,400
53	OFF THE SIDELINE	426-02180	5,400	5,400
54	SMART	426-02180	5,400	5,400
55	ETHOS INC	426-02180	5,300	5,300
56	ARTISTS REPERTORY THEATRE	426-02180	5,000	5,000
57	BASIC RIGHTS EDUCATION FUND	426-02180	5,000	5,000
58	BIG BROTHERS BIG SISTERS NORTHWEST	426-02180	5,000	5.000
59	BOYS & GIRLS CLUB OF SALEM, MARION	426-02180	5,000	5,000
60	CASH OREGON	426-02180	5,000	5,000
61	CENTRAL CITY CONCERN INC	426-02180	5,000	5,000
62	CLACKAMAS WOMEN'S SERVICES	426-02180	5,000	5,000
63		426-02180	5,000	
64	CLARK COUNTY VOCATIONAL SKILLS CNT	426-02180	5,000	
65	COMMUNITY TRANSITIONAL SCHOOL	426-02180	5,000	5,000
66	INCIGHT COMPANY	426-02180	5,000	5,000
67	IRCO	426-02180	5,000	5,000
68	JAPANESE GARDEN	426-02180	5,000	5,000
69	MACDONALD CENTER	426-02180	5,000	5,000
70	MEDICAL TEAMS INTERNATIONAL	426-02180	5,000	5,000
71	METROPOLITAN FAMILY SERVICE	426-02180	5,000	5,000
72	NORTH LINCOLN	426-02180	5,000	5,000
73	NORTHWEST EARTH INSTITUTE	426-02180	5,000	5,000
74	NORTHWEST HOUSING ALTERNATIVES	426-02180	5,000	5,000
75	OREGON BALLET THEATRE	426-02180	5,000	5,000
76	OREGON COAST AQUARIUM INC	426-02180	5,000	5,000
77	OREGON SYMPHONY ASSOCIATION	426-02180	5,000	5,000
78	PLAYWORKS EDUCATION ENERGIZED	426-02180	5,000	5,000
79	READING RESULTS	426-02180	5,000	5,000
80	THE CHILDREN'S CENTER OF CLACKAMAS	426-02180	5,000	5,000
81	THE DOUGY CENTER INC	426-02180	5,000	5,000
82	THE LIBRARY FOUNDATION	426-02180	5,000	5,000
83	THE LIBRART FOUNDATION THE NATURE CONSERVANCY	426-02180	5,000	5,000
84	YWCA OF GREATER PORTLAND	426-02180	5,000	5,000
85	HEAT OREGON	426-02180	3,850	3,850
85	SALEM HABITAT FOR HUMANITY	426-02180	3,850	3,850
80	BLACK UNITED FUND OF OREGON	426-02180	3,608	3,608
88		426-02180	3,500	3,500
89		426-02180	3,500	3,500
90	CLASSROOM LAW PROJECT	426-02180	3,500	3,500

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

Line	DESCRIPTION	ACCOUNT NUMBER	TOTAL AMOUNT	AMOUNT ASSIGNED TO OREGON
No.	(a)	(b)	(C)	(d)
91	I HAVE A DREAM FOUNDATION OREGON	426-02180	3,500	3,500
92	MT HOOD COMMUNITY	426-02180	3,500	3,500
93	NATIVE AMERICAN YOUTH	426-02180	3,500	3,500
94	PORTLAND WORKFORCE ALLIANCE	426-02180	3,500	3,500
95	REACH COMMUNITY DEVELOPMENT INC	426-02180	3,500	3,500
96	PORTLAND BACKPACK	426-02180	3,300	3,300
97	THE SALVATION ARMY	426-02180	3,300	3,300
98	ASSISTANCE LEAGUE OF GREATER PORTLA	426-02180	3,000	1,500
99	ASTORIA WARMING CENTER	426-02180	3,000	3,000
100	FAMILY BUILDING BLOCKS	426-02180	3,000	3,000
101	LGBTQ COMMUNITY CENTER FUND	426-02180	3,000	3,000
102	LOWER COLUMBIA RIVER	426-02180	3,000	3,000
103	PORTLAND CHILDREN'S MUSEUM	426-02180	3,000	3,000
104	STREET ROOTS	426-02180	3,000	3,000
105	URBAN LEAGUE OF PORTLAND	426-02180	3,000	3,000
106	YOUTH PROGRESS ASSOCIATION	426-02180	3,000	3,000
107	THE CHILDREN'S BOOK BANK	426-02180	2,800	2,800
108	1000 FRIENDS OF OREGON	426-02180	2,500	2,500
109	ACHIEVEMENT REWARDS FOR COLLEGE	426-02180	2,500	2,500
110	BIRCH COMMUNITY SERVICES INC	426-02180	2,500	2,500
111	BRADLEY-ANGLE HOUSE	426-02180	2,500	2,500
112	CATHOLIC COMMUNITY SERVICES	426-02180	2,500	2,500
113	CENTRO CULTURAL DEL CONDADO DE WA	426-02180	2,500	2,500
114	CHESS FOR SUCCESS	426-02180	2,500	2,500
115	COALITION OF COMMUNITIES OF COLOR	426-02180	2,500	2,500
116	COLUMBIA RIVER MARITIME MUSEUM	426-02180	2,500	2,500
117	COLUMBIA SPRINGS	426-02180	2,500	
118	CONSERVATIVE BAPTIST FOREIGN	426-02180	2,500	2,500
119	CONSTRUCTING HOPE PRE APPRENTICE	426-02180	2,500	2,500
120	DIRECTION SERVICE	426-02180	2,500	2,500
121	EPISCOPAL LAYMAN'S MISSION SOCIETY	426-02180	2,500	2,500
122	FREE CLINIC OF SOUTHWEST WASHINGTON	426-02180	2,500	_
123	FRIENDS OF ZENGER FARM	426-02180	2,500	2,500
124	GLEANERS OF CLACKAMAS COUNTY INC	426-02180	2,500	2,500
125	HARPER'S PLAYGROUND	426-02180	2,500	2,500
126	LIFELINE CONNECTIONS	426-02180	2,500	2,500
127	MARCH OF DIMES	426-02180	2,500	2,500
128	MUSLIM EDUCATIONAL TRUST	426-02180	2,500	2,500
129	NEIGHBORHOOD PARTNERSHIPs inc	426-02180	2,500	2,500
130	OPEN SCHOOL INC	426-02180	2,500	2,500
131	OREGON PARTNERSHIP INC	426-02180	2,500	2,500
132	PORTLAND JAZZ FESTIVAL	426-02180	2,500	2,500
133	SALEM DREAM CENTER	426-02180	2,500	2,500
134	SATURDAY ACADEMY	426-02180	2,500	2,500
134	SOCIAL VENTURE PARTNERS PORTLAND	426-02180	2,500	2,500
135	SOUTHWEST WASHINGTON REGIONAL		2,500	2,500
		426-02180		
137		426-02180	2,500	1,250
138	BEAVERTON EDUCATION FOUNDATION	426-02180	5,000	2,500
139	FOOD FOR LANE COUNTY	426-02180	2,000	2,000

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

Line	DESCRIPTION	ACCOUNT NUMBER	TOTAL AMOUNT	AMOUNT ASSIGNED TO OREGON
No.	(a)	(b)	(C)	(d)
140	NEIGHBORHOOD HOUSE	426-02180	2,000	2,000
141	NEW AVENUES FOR YOUTH	426-02180	2,000	2,000
142	SERENDIPITY CENTER INC	426-02180	2,000	2,000
143	SNOWCAP COMMUNITY CHARITIES	426-02180	2,000	2,000
144	SOUTH LANE FAMILY RELIEF NURSERY	426-02180	2,000	2,000
145	TUALATIN RIVERKEEPERS	426-02180	2,000	2,000
146	UNION GOSPEL MISSION	426-02180	2,000	2,000
147	Add: Donations Less than \$2k	426-02185	73,039	71,539
148	Donations and Memberships to Charitable Organizations Total:	426-02180	1,264,153	1,212,103
149				
150	TOTAL DONATIONS		1,264,153	1,212,103

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

State of Oregon - Officers' Salaries 1. Report below the name, title and salary for each executive officer whose salary is \$50,000 or more. An "executive officer" of a respondent includes its president, secretary, treasurer, and vice president in charge of a principal business unit, division or function (such as sales, administration, or finance), and any other person who performs similar policy-making functions. 2. If a change was made during the year in the incumbent of any position, show name and total remuneration of the previous incumbent and date change in incumbency was made. 3. Utilities which are required to file similar data with the Securities and Exchange Commission, may substitute a copy of Item 4, Regulation S-K, identified as this schedule page. The substituted page(s) should be conformed to the size of this page. SALARY FOR YEAR Name of Officer OREGON Line Title Total No. (a) (b) (C) (d) See the salary information for 2019 excerpted from the Summary Compensation Table on page 47 of the 2019 Northwest Natural Holding Company Proxy (Item 4, Regulation S-K requirement) filed on April 16, 2020 below. NAME AND PRINCIPAL POSITION TOTAL SALARY David H. Anderson President and Chief Executive Officer 1 \$705,833 2 Frank H. Burkhartsmeyer Senior Vice President and Chief Financial Officer \$425,917 3 MardiLyn Saathoff Senior Vice President, Regulation and General Counsel \$379,000 4 Kimberly A. Heiting, Senior Vice President, Operations and Chief Marketing Officer \$308,333 5 \$293,583 Justin Palfreyman, Vice President, Strategy and Business Development Officer

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

STATE OF OREGON - DONATIONS OR PAYMENTS FOR SERVICES RENDERED BY PERSONS OTHER THAN EMPLOYEES AND CHARGED TO OREGON OPERATING ACCOUNTS

1. Report for each service rendered (including materials furnished incidental to the service which are impracticable of (separation)by recipient and in total the aggregate of all payments made during the year where the aggregate of such payments to a recipient was \$25,000 or more including fees, retainers, commissions, gifts, contributions, assessments, bonuses, subscriptions, allowances for expenses or any other form of payments for services, traffic settlements, amounts paid for construction or maintenance of plant to persons other than affiliates to any one corporation, institution, association, firm partnership, committee, or person (not an employee of the respondent). Indicate by an asterisk in column (c) each item that includes payments for materials furnished incidental to the services performed. Payments to a recipient by two or more companies within a single system under a cost sharing or other joint arrangement shall be considered a single item for reporting in this schedule and shall be shown in the report of the principal company in the joint arrangement(as measured by gross operating revenues) with references thereto in the reports of the other system companies in the joint arrangement.

2. If more convenient, this schedule may be filled out for a group of companies considered as one system and shown only in the report of the principal company in the system, with references thereto in the reports of the other companies.

Line	NAME OF RECIPENT	NATURE OF SERVICE	AMOUNT OF PAYMENT
No.	(a)	(b)	(C)
	SEE FERC ANNUAL REPORT		
	PAGE 357		

ame of Respondent	This Report is:		Date of Report	Year of Report
	(1) 🗵 An Original		(Mo, Da, Yr)	
orthwest Natural Gas Company	(2) 🗆 A Resubmission			December 31, 20
In order to help us with p	production of our Oregon U	Itility Statistics publi	ication, please ind	cate:
Oregon Production Statistics (Therms)	_		
Gas Produced		750,868,200		
Gas Purchased		750,868,200		
Total Receipts				
Gas Sales		736,559,110		
Gas Used by Company		6,135,650		
Gas Delivered to LNG and Sto	orage - Net	3,374,430		
Losses & billing Delay	-	4,799,010		
Total Disbursements		750,868,200		
Oregon Revenue by Service C Residential	Class \$	380,185,135		
Commercial & Industrial	Ŧ	,,		
Firm		210,441,209		
Interruptible		15,854,728		
Transportation		20,178,560		
Gas Storage Services	2	11,820,609		
Total	\$	638,480,241		
		,,		
Gas Sold in Therms (Oregon)				
Residential		402,332,861		
Commercial & Industrial				
Firm		286,243,400		
Interruptible		46,192,874		
Transportation		375,876,379		
Total		1,110,645,514		
Average Number of Oregon C	uetomore			
Residential	ustomers	606,803		
Commercial & Industrial		000,000		
Firm		62,645		
Interruptible		116		
Transportation Total		312 669,876		
Total		009,070		

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

Distribution of Salaries and Wages

Oregon Jurisdiction

Report below the distribution of total salaries and wages for the year. Segregate amounts originally charged to clearing accounts to Utility Departments, Construction, Plant Removals 'and Other Accounts, and enter such amounts in the appropriate lines and columns provided. Salaries and wages billed to the Respondent by an affiliated company must be assigned to the particular operating function(s) relating to the expenses.

In determining this segregation of salaries and wages originally charged to clearing accounts, a method of approximation giving substantially correct results may be used. When 'reporting detail of other accounts, enter as many rows as necessary numbered sequentially starting with 75.01, 75.02, etc.

Line No.	Classification (a)	Direct Payroll Distribution (b)	Payroll Billed by Affiliated Companies (c)	Allocation of Payroll Charged for Clearing Accounts (d)	Total (e)
1	Electric				
2	Operation				
3	Production				
4	Transmission				
5	Distribution		SEE FERC ANNUAL RE	PORT	
6	Customer Accounts		PAGES 354-355		
7	Customer Service and Informational				
8	Sales				
9	Administrative and General				
10	TOTAL Operation (Total of lines 3 thru 9)				
11	Maintenance				
12	Production				
13	Transmission				
14	Distribution				
15	Administrative and General				
16	TOTAL Maintenance (Total of lines 12 thru 15)				
17	Total Operation and Maintenance				
18	Production (Total of lines 3 and 12)				
19	Transmission (Total of lines 4 and 13)				
20	Distribution (Total of lines 5 and 14)				
21	Customer Accounts (line 6)				
22	Customer Service and Informational (line 7)				
23	Sales (line 8)				
24	Administrative and General (Total of lines 9 and 15)				
25	TOTAL Operation and Maintenance (Total of lines 18 thru 24)				
26	Gas		·		
27	Operation				
28	Production - Manufactured Gas				
29	Production - Natural Gas(Including Exploration and Development)				
30	Other Gas Supply				
31	Storage, LNG Terminaling and Processing				
32	Transmission				
33	Distribution				
34	Customer Accounts				
35	Customer Service and Informational				
36	Sales				
37	Administrative and General				
38	TOTAL Operation (Total of lines 28 thru 37)				
39	Maintenance			· .	
40	Production - Manufactured Gas				

Name of Respondent	This Report is:			Date of Report	Year of Report	
	(1) 🗵 An Original			(Mo, Da, Yr)	-	
Northwest Natural Gas Company	(2)	n			December 31, 201	
Production - Natural Gas(Inc	luding Exploration and					
41 Development) 42 Other Gas Supply						
42 Other Gas Supply 43 Storage, LNG Terminaling an	ad Braggaging					
43 Storage, LNG reminaling at 44 Transmission						
44 Transmission 45 Distribution						
46 Administrative and General						
47 TOTAL Maintenance (Total of	f lines 40 thru 46)					
48 Gas (Continued)						
49 Total Operation and Mainten	ance					
Production - Manufactured G						
50 and 40)						
Production - Natural Gas (In 51 (II. 29 and 41)	cluding Expl. and Dev.)	SEE F	ERC ANNUA	L REPORT		
52 Other Gas Supply (Total of li	nes 30 and 42)		PAGES 354-	355		
Storage, LNG Terminaling au 53 II. 31 and 43)	nd Processing (Total of					
54 Transmission (Total of lines	32 and 44)					
55 Distribution (Total of lines 33	and 45)					
56 Customer Accounts (Total of	line 34)					
Customer Service and Inform 57 35)	national (Total of line					
58 Sales (Total of line 36)						
Administrative and General (59 46)	Total of lines 37 and					
Total Operation and Mainten 60 thru 59)	ance (Total of lines 50					
61 Other Utility Departments						
62 Operation and Maintenance						
TOTAL ALL Utility Dept. (Tota 63 62)	al of lines 25, 60, and					
64 Utility Plant						
65 Construction (By Utility Depa	artments)					
66 Electric Plant						
67 Gas Plant						
68 Other						
69 TOTAL Construction (Total o	f lines 66 thru 68)					
70 Plant Removal (By Utility De	partments)					
71 Electric Plant						
72 Gas Plant						
73 Other						
74 TOTAL Plant Removal (Total	of lines 71 thru 73)					
75						
76 TOTAL Other Accounts						
77 TOTAL SALARIES AND WA	GES	1				

Blank Page

NORTHWEST NATURAL GAS COMPANY

Washington Supplement to FERC Form 2

December 31, 2019

Name of	Respondent	This Report is:	Date of Report	Year of Report
		(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest	t Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019
		ANNUAL REPORT		
	WA	ASHINGTON SUPPLEMENT TO FERC FO	RM 2	
		for		
		MULTI-STATE GAS COMPANIES		
		INDEX		
<u>PAGE</u>		TITLE	NOT	ES
1	Statistics		WA Data only	
N/A	Statement of Income for the Yea		No WA breakout - see F	ERC pages 114 - 11
200 - 201	Summary of Utility Plant		WA Data only	
204 - 209	Gas Plant in Service		WA Data only	
216	CWIP		WA Data only	
N/A	Construction Overheads		No WA breakout - see F	ERC pages 218 - 21
219	Accumulated Provision for Depre	eciation of Gas Utility Plant	WA Data only	
N/A	Gas Stored		No WA breakout - see F	ERC page 220
N/A	Reconciliation-Reported Net Inc	ome with Taxable Income for Federal Income Taxes	No WA breakout - see F	ERC page 261
N/A	Accumulated Deferred Income T	axes, Account 283	No WA breakout - see F	ERC pages 276 - 27
300 - 301	Gas Operating Revenues		WA Data only	
308	Other Gas Revenues		WA Data only	
N/A	Gas Operation and Maintenance	e Expenses	No WA breakout - see F	ERC pages 317 - 32
N/A	Miscellaneous General Expense	9	No WA breakout - see F	ERC page 335
336 - 337	Depreciation, Depletion and Am	ortization of Gas Plant	WA Data only (same as	page 219)
N/A	Income Deductions and Interest	Charges	No WA breakout - see F	ERC page 340
N/A	Regulatory Commission Expens	es	No WA breakout - see F	ERC pages 350 - 35
N/A	Distribution of Salaries and Wag	es	No WA breakout - see F	ERC pages 354 - 35
N/A	Charges for Outside Professiona	al and Other Consultative Services	No WA breakout - see F	ERC page 357
520	Gas Account - Natural Gas		WA Data only	
526	Salaries by Class		No WA breakout - full co	ompany data provide

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	DATA REQUEST FOR	STATISTICS R	EPORT		
Line		Total Company	y Operations	Washington (Operations
No.	Title of Account	Current Year	Prior Year	Current Year	Prior Year
1	GAS SERVICE REVENUES				
2		-			
3	RESIDENTIAL SALES	430,902,294	407,940,700	47,875,316	45,624,649
4	COMMERCIAL SALES	211,327,451	201,535,074	18,698,583	17,794,469
5	INDUSTRIAL SALES	37,220,492	39,758,186	2,317,452	2,466,984
6	OTHER SALES	—	—	—	_
7	SALES FOR RESALE	—	—	—	_
8	TRANSPORTATION OF GAS OF OTHERS	34,334,159	21,848,308	2,334,991	2,428,043
9	OTHER OPERATING REVENUES	(5,811,608)	(3,647,615)	(3,461,094)	(4,475,465)
10				·	
11	TOTAL GAS SERVICE REVENUES	707,972,788	667,434,653	67,765,248	63,838,680
12				· · · · · ·	
13	THERMS OF GAS SOLD-TRANSPORTED				
14					
15	RESIDENTIAL SALES	458,377,666	419,202,101	54,937,412	49,654,941
16	COMMERCIAL SALES	277,637,186	252,948,059	24,300,634	21,745,578
17	INDUSTRIAL SALES	84,232,836	85,770,565	4,450,526	4,360,970
18	OTHER SALES (UNBILLED)	(1,837,678)	(10,817,782)	(47,697)	(1,218,186)
19	SALES FOR RESALE				
20	TRANSPORTATION OF GAS OF OTHERS	396,743,596	381,099,930	20,867,217	20,597,589
21					
22	TOTAL THERMS OF GAS SOLD-TRANSPORTED	1,215,153,606	1,128,202,873	104,508,092	95,140,892
23					
24	AVERAGE NUMBER OF GAS CUSTOMERS PER MONTH				
25					
26	RESIDENTIAL SALES	685,564	674,149	78,764	76,135
27	COMMERCIAL SALES	69,269	68,180	7,243	6,980
28	INDUSTRIAL SALES	794	803	59	60
29	OTHER SALES				
30	SALES FOR RESALE				
31	TRANSPORTATION OF GAS OF OTHERS	347	391	36	41
32					
33					
34	TRANS. & DISTRN. MAINS - FEET (END OF YEAR)	77,969,695	77,179,053	10,276,902	10,073,611
35	NO. OF METERS IN SERV. & HELD IN RESERVE (AVE.)	844,188	831,548	87,213	84,346
36	AVERAGE B.T.U. CONTENT PER CU. FT.	1,054.9	1,074	1,053.4	1,075.8

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

SUN	IMARY OF UTILITY PLANT AND ACCUMULATED PROVISIONS FOR DEPRECIATION, A AND DEPLETION	AMORTIZATION
Line	Item	Total
No.	(a)	(b)
1	UTILITY PLANT	
2	In Service	
3	Plant in Service (Classified)	247,779,905
4	Property Under Capital Leases	
5	Plant Purchased or Sold	
6	Completed Construction not Classified	65,295,774
7	Experimental Plant Unclassified	_
8	TOTAL Utility Plant (Total of lines 3 thru 7)	313,075,679
9	Leased to Others	_
10	Held for Future Use	_
11	Construction Work in Progress	459,702
12	Acquisition Adjustments	_
13	TOTAL Utility Plant (Total of lines 8 thru 12)	313,535,381
14	Accumulated Provisions for Depreciation, Amortization, & Depletion	123,499,326
15	Net Utility Plant (Enter Total of line 13 less 14)	190,036,055
16	DETAIL OF ACCUMULATED PROVISIONS FOR DEPRECIATION, AMORTIZATION AND DEPLETION	
17	In Service:	
18	Depreciation	123,671,166
19	Amortization and Depl. of Producing Natural Gas Land and Land Rights	_
20	Amortization. of Underground Storage Land and Land Rights	_
21	Amortization. of Other Utility Plant	1,893,492
22	Salvage Work In Progress	_
23	Less Removal Work In Progress	2,065,332
24	TOTAL In Service (Total of lines 18 thru 22 less line 23)	123,499,326
25	Leased to Others	
26	Depreciation	_
27	Amortization and Depletion	_
28	TOTAL Leased to Others (Total of lines 26 and 27)	_
29	Held for Future Use	
30	Depreciation	_
31	Amortization	_
32	TOTAL Held for Future Use (Total of lines 30 and 31)	_
33	Abandonment of Leases (Natural Gas)	_
34	Amortization of Plant Acquisition Adjustment	_
35	TOTAL Accumulated Provisions (Should agree with line 14 above) (Total of lines 24, 28, 32, 33, and 34)	123,499,326

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

Electric (c)Gas (d)Other (Specify) (e)Common (f)(d)(e)(f)247,779.905(f)247,779.905(f)		
247,779,905		r)
65,295,774 0	247,779,905	
65,295,774 0		
459,702 313,535,381 123,499,326 190,036,055 123,671,166 1,893,492 1,893,492 1,893,492 1,893,492 1,893,492 1,893,492 1,23,499,326 123,499,326	65,295,774	
459,702 313,535,381 123,499,326 190,036,055 123,671,166 1,893,492 1,893,492 1,893,492 1,893,492 1,893,492 1,893,492 1,23,499,326 123,499,326		
	313,075,679	
123,499,326 190,036,055 123,671,166	459,702	
123,499,326 190,036,055 123,671,166		
190,036,055 123,671,166		
123,671,166		
	190,036,055	
	123 671 166	
	1.893.492	
123,499,326 		
123,499,326 	2,065,332	
	_	
	—	
	—	
	_	
	—	
123,499,326		

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2)		December 31, 2019

Gas Plant in Service (Accounts 101, 102, 103, and 106)

1. Report below the original cost of gas plant in service according to the prescribed accounts.

2. In addition to Account 101, Gas Plant in Service (Classified), this page and the next include Account 102, Gas Plant Purchased or Sold, Account 103, Experimental Gas Plant Unclassified, and Account 106, Completed Construction Not Classified-Gas.

3. Include in column (c) and (d), as appropriate corrections of additions and retirements for the current or preceding year.

4. Enclose in parenthesis credit adjustments of plant accounts to indicate the negative effect of such accounts.

5. Classify Account 106 according to prescribed accounts, on an estimated basis if necessary, and include the entries in column (c). Also to be included in column (c) are entries for reversals of tentative distributions of prior year reported in column (b). Likewise, if the respondent has a significant amount of plant retirements which have not been classified to primary accounts at the end of the year, include in column (d) a tentative distribution of such retirements, on an estimated basis, with appropriate contra entry to the account for accumulated depreciation provision. Include also in column (d) reversals of tentative distributions of prior year's unclassified retirements. Attach supplemental statement showing the account distributions of these amounts. Careful observance of the above instructions and the texts of Account 101 and 106 will avoid serious omissions of respondent's reported amount for plant actually in service at end of year.

6. Show in column (f) reclassifications or transfers within utility plant accounts. Include also in column (f) the additions or reductions of primary account classifications arising from distribution of amounts initially recorded in Account 102. In showing the clearance of Account 102, include in column (e) the amounts with respect to accumulated provision for depreciation, acquisition adjustments, etc., and show in column (f) only the offset to the debits or credits to primary account classifications.

7. For Account 399, state the nature and use of plant included in this account and if substantial in amount submit a supplementary statement showing subaccount classification of such plant conforming to the requirements of these pages.

8. For each amount comprising the reported balance and changes in Account 102, state the property purchased or sold, name of vendor or purchaser, and date of transaction. If proposed journal entries have been filed with the Commission as required by the Uniform System of Accounts, give date of such filing.

SEE FOLLOWING PAGES

ACCOUNT SUMMARY BY FUNCTIONAL CLASS

NW Natural

						Period Beginning: Period Ending:	January 2019 December 2019
Functional	l Class	Beginning				· •···•	Ending
	lant Account	Balance	Additions	Retirements	Transfers	Adjustments	Balance*
UTILITY							
Intangible	Plant						
301	ORGANIZATION	322	_	_	_	_	322
302	FRANCHISES & CONSENTS	125	_	_	_	_	125
303.1	COMPUTER SOFTWARE	_	76,427	_	_	_	76,427
303.2	CUSTOMER INFORMATION SYSTEM	1,859,863	_	_	_	_	1,859,863
303.3	INDUSTRIAL & COMMERCIAL BIL	_	_	_	_	_	· · · -
303.4	CRMS	_	_	_	_	_	_
303.5	POWERPLANT SOFTWARE	_	_	_	_	_	_
	Intangible Plant Subtotal*	1,860,310	76,427		_	_	1,936,737
Transmiss	sion Plant						
367	MAINS	1,115,001	_	_	_	_	1,115,001
	Transmission Plant Subtotal*	1,115,001			_	_	1,115,001
Distributio	on Plant						
374.1	LAND	10,389	_	_	_	_	10,389
374.2	LAND RIGHTS	27,679	_	_	_	_	27,679
375	STRUCTURES & IMPROVEMENTS	1,387,008	_	_	_	_	1,387,008
376.11	MAINS < 4"	85,281,611	3,879,078	(5,656)	_	_	89,155,034
376.12	MAINS 4" & >	99,634,834	1,986,149	(256)	_	_	101,620,726
378	MEASURING & REG EQUIP - GENER	3,514,751	45,490	_	_	_	3,560,241
379	MEASURING & REG EQUIP - GATE	1,469,713	806,739	_	_	_	2,276,452
380	SERVICES	75,243,087	4,919,724	(24,638)	_	_	80,138,173
381	METERS	11,096,370	1,128,036	(138,295)	_	(1,443)	12,084,669
381.2	ERT (ENCODER RECEIVER TRANS	7,023,556	277,358	(256,194)	_	_	7,044,721
382	METER INSTALLATIONS	6,421,145	485,123	(185,454)	_	_	6,720,815
382.2	ERT INSTALLATION (ENCODER	927,579	_	(9,612)	_	_	917,968
383	HOUSE REGULATORS	147,333	_		_	_	147,333
386	OTHER PROPERTY ON CUSTOMERS P	· —	_	_	_	_	_
387.2	CALORIMETERS @ GATE STATIONS	26,630	_	_	_	_	26,630
	Distribution Plant Subtotal*	292,211,686	13,527,697	(620,104)	_	(1,443)	305,117,836

* May not foot due to rounding.

ACCOUNT SUMMARY BY FUNCTIONAL CLASS

NW Natural

						Period Beginning: Period Ending:	January 2019 December 2019
Functional Class		Beginning					Ending
FERC Pla	ant Account	Balance	Additions	Retirements	Transfers	Adjustments	Balance*
UTILITY							
General Pla	ant						
389	LAND	1,158,650	_	_	_	· _	1,158,650
390	STRUCTURES & IMPROVEMENTS	1,582,254	12,449	_	_	· _	1,594,703
390.1	SOURCE CONTROL PLANT	690,670	29,229	_	_	· _	719,899
391.1	OFFICE FURNITURE & EQUIPMEN	16,522	_	_	_	· _	16,522
391.4	CUSTOMER INFORMATION SYSTEM	_	_	_	_	· _	_
392	TRANSPORTATION EQUIPMENT	574,843	_	(118,047)	_	· _	456,796
394	TOOLS - SHOP AND GARAGE EQUIPMENT	150,237	23,054	_	_	· _	173,291
396	POWER OPERATED EQUIPMENT	186,090	_	_	_	· _	186,090
397.1	MOBILE	_	416,827	_	_	· _	416,827
397.3	TELEMETERING - OTHER	178,600	_	_	_	· _	178,600
397.5	TELEPHONE EQUIPMENT	—	_	—	_	· _	_
398.4	INSTALLED IN LEASED BUILDINGS	4,727	_	_	_	· –	4,727
	General Plant Subtotal*	4,542,592	481,559	(118,047)		· _	4,906,105
	Washington Utility Property Grand Total*	299,729,590	14,085,683	(738,151)		(1,443)	313,075,679

* May not foot due to rounding.

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	Construction Work in Progress - Gas (Account 107)								
1. Re	port below descriptions and balances at end of year of projects in process of	of construction (Account 107)							
2. Sh and	ow items relating to "research, development, and demonstration" projects la d Demonstration (see Account 107 of the Uniform System of Accounts).	ast, under a caption Research, De	velopment,						
3. Mir	3. Minor projects (less than \$1,000,000) may be grouped.								
Line	e Description of Project Construction Work in Progress Estimated Additional C - Gas (Account 107) of Project								
No.	(a)	(b)	(C)						
1	Mains and Service Jobs	459,702	2,217,209						
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35	Total	459,702	2,217,209						

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

Accumulated Provision for Depreciation of Gas Utility Plant (Account 108)

1. Explain in a footnote any important adjustments during year.

2. Explain in a footnote any difference between the amount for book cost of plant retired, line 10, column (c), and that reported for gas plant in service, page 204-209, column (d), excluding retirements of nondepreciable property.

3. The provisions of Account 108 in the Uniform System of Accounts require that retirements of depreciable plant be recorded when such plant is removed from service. If the respondent has a significant amount of plant retired at year end which has not been recorded and/or classified to the various reserve functional classifications, make preliminary closing entries to tentatively functionalize the book cost of the plant retired. In addition, include all costs included in retirement work in progress at year end in the appropriate functional classifications.

4. Show separately interest credits under a sinking fund or similar method of depreciation accounting.

5. At lines 7 and 14, add rows as necessary to report all data. Additional rows should be numbered in sequence, e.g., 7.01, 7.02, etc.

SEE FOLLOWING PAGES

RESERVE BALANCES AND ACTIVITY BY FUNCTIONAL CLASS NW NATURAL

								Period Beginning: Period Ending:	January 2019 December 2019
Function	al Class	Beginning			Cost of	Salvage and	Transfers and		Ending
FERC F	Plant Account	Reserve	Provision	Retirements	Removal		Adjustments	Loss/(Gain)	Reserve*
UTILITY									
Intangible	e Plant								
301	ORGANIZATION	_	_	_	_	_		_	_
302	FRANCHISES & CONSENTS	_	_	_	_	_		_	_
303.1	COMPUTER SOFTWARE	3,144	2,805	_	_	_		_	5,948
303.2	CUSTOMER INFORMATION SYSTEM	1,863,073	_	_	_	_		_	1,863,073
303.3	INDUSTRIAL & COMMERCIAL BIL	— —	_	_	_	_	_	_	
303.4	CRMS	_	_	_	_	_	_	_	_
303.5	POWERPLANT SOFTWARE	_	_	_	_	_	_	_	_
	Intangible Plant Subtotal*	1,866,216	2,805	_	_	_		_	1,869,021
Transmis	sion Plant								
367	MAINS	170,597	20,962	_	_	_	_	_	191,559
	Transmission Plant Subtotal*	170,597	20,962		_	_		_	191,559
Distributi	on Plant								
374.1	LAND	_	_	_	_	_	_	_	_
374.2	LAND RIGHTS	24,315	155	_	_	_	_	_	24,470
375	STRUCTURES & IMPROVEMENTS	41,838	20,342	_	_	_	_	_	62,180
376.11	MAINS < 4"	39,741,492	2,249,457	(5,656)	(6,124)) —		_	41,979,170
376.12	MAINS 4" & >	29,183,234	2,366,563	(256)	(185)) —	_	_	31,549,35
378	MEASURING & REG EQUIP - GENER	945,561	78,040	_	_	_	_	_	1,023,600
379	MEASURING & REG EQUIP - GATE	799,389	36,194	_	_	_		_	835,583
380	SERVICES	35,076,696	2,220,399	(24,638)	(64,987)) —		_	37,207,471
381	METERS	2,882,093	259,028	(138,295)	_	_	(22) —	3,002,805
381.2	ERT (ENCODER RECEIVER TRANS	4,650,589	408,978	(256,194)	_	_		_	4,803,374
382	METER INSTALLATIONS	1,272,028	309,996	(185,454)	_	_	_	-	1,396,569
382.2	ERT INSTALLATION (ENCODER	717,998	35,966	(9,612)	_	—		—	744,352
383	HOUSE REGULATORS	13,114	4,302	_	_	_	_	_	17,416
386	OTHER PROPERTY ON CUSTOMERS P	· _	_	_	_	_	_	_	_
387.2	CALORIMETERS @ GATE STATIONS	26,630	_	_	_	_	_	_	26,630
	Distribution Plant Subtotal*	115,374,976	7,989,421	(620,104)	(71,296)) —	(22) —	122,672,976

* May not foot due to rounding.

RESERVE BALANCES AND ACTIVITY BY FUNCTIONAL CLASS NW NATURAL

								Period Ending:	December 201
unctional	Class	Beginning			Cost of	Salvage and	Transfers and		Ending
FERC Pla	int Account	Reserve	Provision	Retirements	Removal	Other Oredits	Adjustments	Loss/(Gain)	Reserve*
JTILITY						oreans			
General Pla	ant								
389	LAND	_	_	—	—	_	_	—	-
390	STRUCTURES & IMPROVEMENTS	93,919	36,000	—	—	_	_	—	129,91
390.1	SOURCE CONTROL PLANT	163,424	15,212	—	—	_	_	—	178,63
391.1	OFFICE FURNITURE & EQUIPMEN	23,143	826	—	—	_	_	—	23,97
391.4	CUSTOMER INFORMATION SYSTEM	_	_	_	_	_	_	_	-
392	TRANSPORTATION EQUIPMENT	420,676	37,988	(118,047)	_	_	_	_	340,61
394	TOOLS AND EQUIPMENT	40,070	8,231	_	_	_	_	_	48,30
396	POWER OPERATED EQUIPMENT	81,459	7,909	_	_	_	_	_	89,36
397.1	MOBILE	_	1,985	_	_	_	_	_	1,98
397.3	TELEMETERING - OTHER	1,666	11,913	_	_	_	_	_	13,57
397.5	TELEPHONE EQUIPMENT	_	_	_	_	_	_	_	-
398.4	INSTALLED IN LEASED BUILDINGS	4,727	_	_	_	_	_	_	4,72
	General Plant Subtotal	829,085	120,064	(118,047)	_		_	_	831,10
			,	(-))					
	- Washington Utility Property Grand Total*	118,240,874	8,133,251	(738,151)	(71,296)		(22)	_	125,564,6
TOTAL SI	- Washington Utility Property Grand Total* - UMMARY ALL UTILITY DEPRECIATION RESE	118,240,874			(71,296)		(22)		125,564,65
		118,240,874	8,133,251		(71,296)		(22)		125,564,65
TOTAL SI UTILITY 108010	UMMARY ALL UTILITY DEPRECIATION RESE	118,240,874 RVES	8,133,251		(71,296)		(22)	_	125,564,65
UTILITY	UMMARY ALL UTILITY DEPRECIATION RESE	118,240,874 RVES (1,562,916)	8,133,251		(71,296)		(22)		125,564,65
UTILITY 108010 108011	UMMARY ALL UTILITY DEPRECIATION RESE	118,240,874 RVES (1,562,916) 90,724,484	8,133,251		(71,296)		(22)		125,564,65
UTILITY 108010 108011 108012	UMMARY ALL UTILITY DEPRECIATION RESE	118,240,874 RVES (1,562,916) 90,724,484 328,315	8,133,251		(71,296)		(22)		125,564,65
UTILITY 108010 108011 108012 108013	UMMARY ALL UTILITY DEPRECIATION RESE	118,240,874 RVES (1,562,916) 90,724,484	8,133,251		(71,296)		(22)		125,564,65
UTILITY 108010 108011 108012 108013 108014	UMMARY ALL UTILITY DEPRECIATION RESE	118,240,874 RVES (1,562,916) 90,724,484 328,315 (12,303)	8,133,251		(71,296)		(22)		125,564,65
UTILITY 108010 108011 108012 108013 108014 108015	UMMARY ALL UTILITY DEPRECIATION RESE	118,240,874 RVES (1,562,916) 90,724,484 328,315	8,133,251		(71,296)		(22)		125,564,68
UTILITY 108010 108011 108012 108013 108014	UMMARY ALL UTILITY DEPRECIATION RESE	118,240,874 RVES (1,562,916) 90,724,484 328,315 (12,303)	8,133,251		(71,296)		(22)		125,564,65
UTILITY 108010 108011 108012 108013 108014 108015	UMMARY ALL UTILITY DEPRECIATION RESE	118,240,874 RVES (1,562,916) 90,724,484 328,315 (12,303)	8,133,251		(71,296)		(22)		125,564,65
UTILITY 108010 108011 108012 108013 108014 108015 108100	UMMARY ALL UTILITY DEPRECIATION RESE	118,240,874 RVES (1,562,916) 90,724,484 328,315 (12,303) — 89,368 —	8,133,251		(71,296)		(22)	_	125,564,65
UTILITY 108010 108011 108012 108013 108014 108015 108100	UMMARY ALL UTILITY DEPRECIATION RESE	118,240,874 RVES (1,562,916) 90,724,484 328,315 (12,303) — 89,368 —	8,133,251 12/31/2019		(71,296)		(22)	_	125,564,65
UTILITY 108010 108011 108012 108013 108014 108015 108100 108102	UMMARY ALL UTILITY DEPRECIATION RESE	118,240,874 RVES (1,562,916) 90,724,484 328,315 (12,303) — 89,368 —	8,133,251 12/31/2019		(71,296)		(22)	_	125,564,65

* May not foot due to rounding.

Period Beginning:

January 2019

Blank Page

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	GAS OPERATING REVENUES (Account 400)									
1. Re succe	1. Report below natural gas operating revenues for each prescribed account total. The amounts must be consistent with the detailed data on succeeding pages.									
2. Re	2. Revenues in columns (b) and (c) include transition costs from upstream pipelines.									
3. Oth colum	3. Other Revenues in columns (f) and (g) include reservation charges received by the pipeline plus usage charges, less revenues reflected in columns (b) through (e). Include in columns (f) and (g) revenues for Accounts 480 - 495.									
		Revenues for Transition Costs and Take-or-Pay	Revenues for Transition Costs and Take-or-Pay	Revenues for GRI and ACA	Revenues for GRI and ACA					
Line	Title of Account	Amount for Current Year	Amount for Previous Year	Amount for Current Year	Amount for Previous Year					
No.	(a)	(b)	(C)	(d)	(e)					
1	480 Residential Sales									
2	481 Commercial and Industrial Sales									
3	482 Other Sales to Public Authorities									
4	483 Sales for Resale									
5	484 Interdepartmental Sales									
6	485 Intracompany Transfers									
7	487 Forfeited Discounts									
8	488 Miscellaneous Service Revenues									
9	489.1 Revenues from Transportation of Gas of Others Through Gathering Facilities									
10	489.2 Revenues from Transportation of Gas of Others Through Transmission Facilities									
11	489.3 Revenues from Transportation of Gas of Others Through Distribution Facilities									
12	489.4 Revenues from Storing Gas of Others									
13	490 Sales of Prod. Ext. from Natural Gas									
14	491 Revenues from Natural Gas Proc. by									
15	492 Incidental Gasoline and Oil Sales									
16	493 Rent from Gas Property									
17	494 Interdepartmental Rents									
18	495 Other Gas Revenues									
19	Subtotal:									
20	496 (Less) Provision for Rate Refunds									
21	TOTAL:									

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

GAS OPERATING REVENUES (Account 400) (Continued)

4. If increases or decreases from previous year are not derived from previously reported figures, explain any inconsistencies in a footnote.

5. On Page 108, include information on major changes during the year, new service, and important rate increases or decreases.

6. Report the revenue from transportation services that are bundled with storage services as transportation service revenue.

Other Revenues	Other Revenues	Total Operating Revenues	Total Operating Revenues	Dekatherm of Natural Gas	Dekatherm of Natural Gas	
Amount for Current Year	Amount for Previous Year	Amount for Current Year	Amount for Previous Year	Amount for Current Year	Amount for Previous Year	Line
(f)	(g)	(h)	(i)	(j)	(k)	No.
47,875,316	45,624,649	47,875,316	45,624,649	5,490,422	4,876,286	1
21,016,035	20,261,453	21,016,035	20,261,453	2,873,665	2,578,045	2
—	_	—	—	_	_	3
_	—	_	—	_	—	4
_	—	_	_	—	—	5
_	—	_	_			6
90,571	88,715	90,571	88,715			7
100,129	103,620	100,129	103,620			8
_	_	_	_	_	_	9
_	_	_	_	_	_	10
2,334,991	2,428,043	2,334,991	2,428,043	2,086,722	2,059,759	11
	_	-	_	_	_	12
_	—		_			13
_	_		_			14
	_	-	_			15
6,997	9,429	6,997	9,429			16
	_	_	_			17
(3,658,791)	(4,677,229)	(3,658,791)	(4,677,229)			18
67,765,248	63,838,680	67,765,248	63,838,680			19
	-	_				20
67,765,248	63,838,680	67,765,248	63,838,680			21

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

OTHER GAS REVENUES (ACCOUNT 495)

	OTHER GAS REVENUES (ACCOUNT 495)	
Repor amour	t below transactions of \$250,000 or more included in Account 495, Other Gas Revenues. Group all transact at and provide the number of items.	ions below \$250,000 in one
Line	Description of Transaction	Amount
No.	(a)	(b)
1	Washington Amortizations	(1,953,714
2	Unbilled Revenue	307,435
3	Washington GREAT Program	(357,317
4	Washington Interim Period Tax Deferral	(1,031,598
5	Washington Energy Efficiency Deferrals	(675,478
6	Other Miscellaneous Items (Misc Gas Revenues - 3 items)	51,881
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30	Total	(3,658,791

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2)		December 31, 2019

Depreciation, Depletion and Amortization of Gas Plant (Accts 403, 404.1, 404.2, 404.3, 405) (Except Amortization of Acquisition Adjustments)

1. Report in Section A the amounts of depreciation expense, depletion and amortization for the accounts indicated and classified according to the plant functional groups shown.

2. Report in Section B, column (b) all depreciable or amortizable plant balances to which rates are applied and show a composite total. (If more desirable, report by plant account, subaccount or functional classifications other than those pre-printed in column (a). Indicate in a footnote the manner in which column (b) balances are obtained. If average balances are used, state the method of averaging used. For column (c) report available information for each plant functional classification listed in column (a). If composite depreciation accounting is used, report available information called for in columns (b) and (c) on this basis. Where the unit-of-production method is used to determine depreciation charges, show in a footnote any revisions made to estimated gas reserves.

3. If provisions for depreciation were made during the year in addition to depreciation provided by application of reported rates, state in a footnote the amounts and nature of the provisions and the plant items to which related.

See following pages

RESERVE BALANCES AND ACTIVITY BY FUNCTIONAL CLASS NW NATURAL

								Period Beginning:	January 2019
								Period Ending:	December 2019
Function	al Class	Beginning			Cost of	Salvage and	Transfers and		Ending
FERC F	Plant Account	Reserve	Provision	Retirements	Removal	Other Credits	Adjustments	Loss/(Gain)	Reserve*
UTILITY							-	· · ·	
Intangible	e Plant								
301	ORGANIZATION	_	_	_	_	_		_	_
302	FRANCHISES & CONSENTS	_	_	_	_	_	_	_	_
303.1	COMPUTER SOFTWARE	3,144	2,805	_	_	_		_	5,948
303.2	CUSTOMER INFORMATION SYSTEM	1,863,073	· —	_	_	_		_	1,863,073
303.3	INDUSTRIAL & COMMERCIAL BIL	_	_	_	_	_	_	_	
303.4	CRMS	_	_	_	_	_	_	_	_
303.5	POWERPLANT SOFTWARE	_	_	_	_	_	_	_	_
	Intangible Plant Subtotal*	1,866,216	2,805	-	_	_		-	1,869,021
Transmis	ssion Plant								
367	MAINS	170,597	20,962	_	_	_	_	_	191,559
	Transmission Plant Subtotal*	170,597	20,962	_	_	_		_	191,559
Distributi	ion Plant								
374.1	LAND	_	—	_	_	_		_	
374.2	LAND RIGHTS	24,315	155	_	_	_		_	24,470
375	STRUCTURES & IMPROVEMENTS	41,838	20,342	_	_	_	_	_	62,180
376.11	MAINS < 4"	39,741,492	2,249,457	(5,656)	(6,124)		_	_	41,979,170
376.12	MAINS 4" & >	29,183,234	2,366,563	(256)	(185)		_	_	31,549,355
378	MEASURING & REG EQUIP - GENER	945,561	78,040	_	—	_		_	1,023,600
379	MEASURING & REG EQUIP - GATE	799,389	36,194	_	_	—		—	835,583
380	SERVICES	35,076,696	2,220,399	(24,638)	(64,987)			_	37,207,471
381	METERS	2,882,093	259,028	(138,295)	_	_	(22) —	3,002,805
381.2	ERT (ENCODER RECEIVER TRANS	4,650,589	408,978	(256,194)	_	_	_	_	4,803,374
382	METER INSTALLATIONS	1,272,028	309,996	(185,454)	_		_		1,396,569
382.2	ERT INSTALLATION (ENCODER	717,998	35,966	(9,612)	_		_		744,352
383	HOUSE REGULATORS	13,114	4,302	_	_	_	_	_	17,416
386	OTHER PROPERTY ON CUSTOMERS P	· _	-	_	_	_	_	_	_
387.2	CALORIMETERS @ GATE STATIONS	26,630			_	_			26,630
	Distribution Plant Subtotal*	115,374,976	7,989,421	(620,104)	(71,296)		(22		122,672,976

* May not foot due to rounding.

RESERVE BALANCES AND ACTIVITY BY FUNCTIONAL CLASS NW NATURAL

								Period Beginning: Period Ending:	January 2019 December 2019
Functiona	al Class	Beginning			Cost of	Salvage and	Transfers and		Ending
FERC P	lant Account	Reserve	Provision	Retirement	Removal	Other Credits	Adjustments	Loss/(Gain)	Reserve*
UTILITY				3					
General P	Plant								
389	LAND	_	_	_	_	_	_	_	_
390	STRUCTURES & IMPROVEMENTS	93,919	36,000	_	_	_	_	_	129,918
390.1	SOURCE CONTROL PLANT	163,424	15,212	_	_	_	_	_	178,636
391.1	OFFICE FURNITURE & EQUIPMEN	23,143	826	_	_	_	_	_	23,970
391.4	CUSTOMER INFORMATION SYSTEM	_	_	_	_	_	_	_	_
392	TRANSPORTATION EQUIPMENT	420,676	37,988	(118,047)	_	_	_	_	340,618
394	TOOLS AND EQUIPMENT	40,070	8,231	_	_	_	_	_	48,301
396	POWER OPERATED EQUIPMENT	81,459	7,909	_	_	_	_		89,368
397.1	MOBILE	_	1,985	_	_	_	_	_	1,985
397.3	TELEMETERING - OTHER	1,666	11,913	_	_	_	_	_	13,579
397.5	TELEPHONE EQUIPMENT	· _	· _	_	_		_		· —
398.4	INSTALLED IN LEASED BUILDINGS	4,727	_	_	_	_	_	_	4,727
	General Plant Subtotal	829,085	120,064	(118,047)	_	_	_		831,102
	Washington Utility Property Grand Total*	118,240,874	8,133,251	(738,151)	(71,296)		(22)	·	125,564,658
TOTALS	SUMMARY ALL UTILITY DEPRECIATION RE	SERVES	12/31/2019						
108010		(1,562,916)							
108011		90,724,484							
108012		328,315							
108013		(12,303)							
108014		_							
108015		89,368							
108100		_							
		35,997,708							
108102		33,337,700							
108102	SUBTOTAL*		125,564,658						
108102 ADD:	SUBTOTAL*		125,564,658						
	SUBTOTAL*		125,564,658 2,065,332						

* May not foot due to rounding.

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2)		December 31, 2019

GAS ACCOUNT - NATURAL GAS

1. The purpose of this schedule is to account for the quantity of natural gas received and delivered by the respondent.

2. Natural gas means either natural gas unmixed or any mixture of natural and manufactured gas.

3. Enter in column (c) the Dth as reported in the schedules indicated for the items of receipts and deliveries.

4. Indicate in a footnote the quantities of bundled sales and transportation gas and specify the line on which such quantities are listed.

 If the respondent operates two or more systems which are not interconnected, submit separate pages for this purpose. Use copies of pages 520.

6. Indicate by footnote the quantities of gas not subject to Commission regulation which did not incur FERC regulatory costs by showing (1) the local distribution volumes another jurisdictional pipeline delivered to the local distribution company portion of the reporting pipeline (2) the quantities that the reporting pipeline transported or sold through its local distribution facilities or intrastate facilities and which the reporting pipeline, and (3) the gathering line quantities that were not destined for interstate market of that were not transported through any interstate portion of the reporting pipeline, and (3) the gathering line quantities that were not destined for interstate market of that were not transported through any interstate portion of the reporting of the reporting pipeline.

7. Indicate in a footnote the specific gas purchase expense account(s) and related to which the aggregate volumes reported on Line 3 relate.

8. Indicate in a footnote (1) the system supply quantities of gas that are stored by the reporting pipeline, during the reporting year and also reported as sales, transportation and compression volumes by the reporting pipeline during the same reporting year, (2) the system supply quantities of gas that are stored by the reporting pipeline during the reporting year which the reporting pipeline intends to sell or transport in a future reporting year, and (3) contract storage quantities.

9. Indicate the volumes of pipeline production field sales that are included in both the company's total sales figure and the company's total transportation figure. Add additional information as necessary to the footnotes.

Line	Item	Ref. Page No.	Total Amount of Dth
No.	(a)	(b)	(C)
1	NAME OF SYSTEM:		
2	GAS RECEIVED		
3	Gas Purchases (Accounts 800-805)		8,307,755
4	Gas of Others Received for Gathering (Account 489.1)	303	N/A
5	Gas of Others Received for Transmission (Account 489.2)	305	N/A
6	Gas of Others Received for Distribution (Account 489.3) Transportation	301	2,086,722
7	Gas of Others Received for Contract Storage (Account 489.4)	306	N/A
8	Gas of Other Received for Production/Extraction/Processing (Account 490 and 491)		N/A
9	Exchanged Gas Received from Others (Account 806)	328	N/A
10	Gas Received as Imbalances (Account 806)	328	N/A
11	Receipts of Respondent's Gas Transported by Others (Account 858)	332	N/A
12	Other Gas Withdrawn from Storage (Explain)	512	
13	Gas Received from Shippers as Compressor Station Fuel		
14	Gas Received from Shippers as Lost and Unaccounted for		
15	Other Receipts (Specify) LPG		
16	Total Receipts (Total of lines 3 thru 14)		10,394,477
17	GAS DELIVERED		
18	Gas Sales (Accounts 480-495)		8,368,857
19	Deliveries of Gas Gathered for Others (Account 489.1)	303	N/A
20	Deliveries of Gas Transported for Others (Account 489.2)	305	N/A
21	Deliveries of Gas Distributed for Others (Account 489.3) Transportation	301	2,086,722
22	Deliveries of Contract Storage Gas (Account 489.4)	306	N/A
23	Gas of Other Delivered for Production/Extraction/Processing (Account 490 and 491)		N/A
24	Exchange Gas Delivered to Others (Account 806)	328	N/A
25	Gas Delivered as Imbalances (Account 806)	328	N/A
26	Deliveries of Gas to Others for Transportation (Account 858)	332	N/A
27	Other Gas Delivered to Storage (Explain)	512	
28	Gas Used for Compressor Station Fuel	331	N/A
29	Other Deliveries (Specify): Unbilled	331	(4,770
30	Total Deliveries (Total of lines 17 thru 27)		10,450,809
31	GAS LOSSES AND GAS UNACCOUNTED FOR		
32	Gas Losses and Gas Unaccounted For		(56,332
33	TOTALS		
34	Total Deliveries, Gas Losses & Unaccounted for (Total of lines 30 and 32)		10,394,477

Name of Respondent	This Report is:	Date of Report	Year of Report
	(1) 🗵 An Original	(Mo, Da, Yr)	
Northwest Natural Gas Company	(2) 🗆 A Resubmission		December 31, 2019

	EXECUTIVE	COUNT BY CLASS AND TOTA	L SALARIES BY CLASS
1. Pur	suant to RCW 80.04.080, report below	v the number of employees by class (per	r company definition to be provided),
Line	Employee Class	Number of Employees	Total Salaries and Wages Paid Each Class ⁽¹⁾
No.	(a)	(b)	(C)
1	Officers & Exempt	541	57,623,337
2	Bargaining Unit	626	50,247,205
3			
4			
5			
Total		1,167	107,870,542
1) Sal	aries and wages do not include bonus	es paid.	

Blank Page



NW Natural

HOLDINGS™

Natural

2019 ANNUAL REPORT



TO OUR SHAREHOLDERS

In 2019, we celebrated our **160TH ANNIVERSARY**. It was a year of many important milestones and allowed us to pause and reflect on the foundation of our success: a deep commitment to our customers and communities to provide safe and reliable service, an ability to imagine the future, and a passion for innovation and execution of our vision.

These attributes have served us well for the past 16 decades and still define us today. In 2019, they helped us deliver on our key objectives: providing high-quality customer service; investing in the reliability and resiliency of our infrastructure; creating landmark laws to incorporate renewable natural gas into our supply portfolio for a low-carbon future; and growing our water and wastewater utility business.

Although many things have changed since our inception in 1859, our values have stood the test of time. As we celebrate the achievements of 2019, we look forward to building on this success in the years to come.

Although many things have changed since our inception in 1859, our values have stood the test of time.

SHAREHOLDER LETTE

2019 HIGHLIGHTS

NET INCOME

Reported 2019 net income from continuing operations of \$65.3 million or \$2.19 per share, which included a regulatory disallowance of historical pension costs of \$10.5 million pre-tax. Excluding that charge, on a non-GAAP basis, net income from continuing operations was \$71.9 million or \$2.41 per share for 2019¹ compared to \$2.33 per share for 2018 or an increase of 3.4 percent.

¹ See Financial Overview on page 8 for non-GAAP reconciliation.

GROWTH

Added nearly 12,500 new natural gas meters for an annual growth rate of 1.7 percent, bringing the people we serve to approximately 2.5 million through over 760,000 meters.

CUSTOMER SERVICE

Highest J.D. Power score in the nation among large natural gas utilities for seven out of the last 10 years.

RELIABILITY

Invested over \$260 million of capital expenditures to support natural gas utility's system reliability and improvements.

WASHINGTON

Completed first NW Natural Washington general rate case in a decade, increasing our revenue requirement by \$5.1 million.

OREGON

Filed a NW Natural general rate case in Oregon requesting a \$71.4 million increase to revenue requirement to recover costs associated with investments for safety and reliability.

NORTH MIST

Began gas storage service from this facility, which was a multiyear \$149 million project—one of the largest projects in our history.

ACQUISITIONS

Closed four water acquisitions in 2019, serving approximately 23,000 people through about 10,600 water distribution and wastewater connections.

RETURNS

Provided total shareholder return of 25 percent.

DIVIDENDS

Increased dividends paid for the 64th consecutive year, one of the longest records of any company on the NYSE.



CORPORATE **PROFILE**

NW NATURAL HOLDINGS (NYSE: NWN)

is headquartered in Portland, Oregon, and owns a regulated natural gas distribution company, NW Natural, water and wastewater utilities through its subsidiary, NW Natural Water, and other business interests and activities.

Ranked first in the West among large natural gas utilities in the J.D. Power Gas Utility Residential and Business Customer Satisfaction Studies.

Safety and Reliability

Safety is at the core of everything we do. It's our greatest responsibility to our customers, our employees and the communities we serve.

Our pipeline system continues to be one of the most modern in the nation. We remain vigilant and continuously monitor, perform integrity assessments and maintain our systems for safety and reliability. We not only meet state and federal regulations, we exceed them.

In 2019, we began several reinforcement projects to strengthen reliability and capacity of our pipeline system to support growth in the suburbs and cities surrounding the Portland metro area. These multiyear projects are expected to be completed later this year, and will ensure we can serve our growing customer base.



We worked hard to keep our employees trained and ready to respond. In 2019, our field crews met rigorous safety metrics, responded to damages and odors within tight time frames and completed ongoing scenario-based training at our state-of-the-art center. We hosted many trainings for community first responders. These joint exercises with firefighters support a coordinated effort if an incident involving natural gas occurs.

Resiliency

Last year, we advanced multiple initiatives to harden our infrastructure and facilities in preparation for natural events like seismic activity.

After years of evaluation and planning, NW Natural moved into a new operations center that is built to

continue functioning after an earthquake. Additionally, we continue to retrofit resource centers across our service territory with seismic resiliency, safety and efficiency in mind.

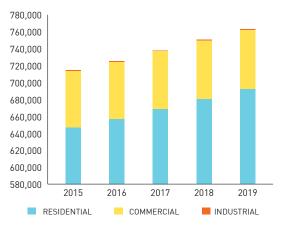
Today reliable service also requires investments in technology to protect our critical systems and our customer data. We enhanced our cybersecurity protections and relocated our data center for increased resiliency.

Growth and Affordability

The economy in our service territory kept pace with national activity last year with a few positive exceptions. Unemployment remained near historic lows in Oregon and Washington, and wages have grown far past their previous peaks. Strong migration to the Pacific Northwest in 2019 continued to bolster growth.

Meanwhile, housing prices and sales have stabilized since their peak a few years ago and continued supporting strong levels of construction. Overall we added 12,500 new meters to the natural gas system for an annual growth rate of 1.7 percent in 2019. While single-family new homes provided the largest portion of these new meters, we also continued to see interest from homeowners to convert to natural gas, which added 3,300 new meters.

Customers continue to prefer natural gas for its efficiency and affordability. Driven by the decline in natural gas commodity prices, the average customer bill is lower today than 15 years ago. Natural gas enjoys a competitive position over other heating options with up to a 70 percent price advantage.



UTILITY METERS AT YEAR-END

We added 12,500 new connections and now serve over 760,000 meters.



Serving Customers Well

We know the efficiency, affordability and performance of natural gas equipment continues to be preferred by our customers. But we also know we have to keep improving all aspects of our business. While NW Natural employees in the office and the field provide industry-leading service, we must also ensure our technology offers the options and seamless interactions customers expect.

To that end, last year we advanced several new technology projects set to launch in 2020. Our vision has been to replace legacy customer-facing systems with a more efficient technology experience for customers.

In 2019, we made important progress on this multiyear effort, with cross-functional teams working on a revamped website with new digital features, notification enhancements and easier payment processing options for customers. A new Interactive Voice Response system is designed to improve capabilities for customers seeking automated options, as will a new Customer Order Management system, designed to streamline the onboarding process for consumers, businesses, and trade allies.

We greatly appreciated that our customers gave us the highest scores in the West among large utilities in both the J.D. Power Residential and Business Customer Satisfaction Studies in 2019, and we're committed to doing all we can to maintain this strong level of performance going forward.

Working Productively with Regulators

As part of the 2017 Oregon general rate case, the Public Utility Commission of Oregon (OPUC) ordered an overall \$23.4 million revenue requirement increase from previous rates effective Nov. 1, 2018 and ruled that beginning April 1, 2019 we could begin recovering deferred pension expenses and also begin returning tax benefits related to the Federal Tax Cuts and Jobs Act to customers

In October 2019, we concluded a Washington rate case that increased our rates by \$5.1 million and established a recovery mechanism for environmental remediation costs. New rates were effective Nov. 1, 2019.

In December 2019, after careful consideration, NW Natural filed an Oregon rate case for a \$71.4 million increase to base rates to recover costs associated with investments to strengthen and reinforce the natural gas system, provide necessary system maintenance and operational resiliency, and make important technology upgrades. The OPUC and other stakeholders are reviewing the filing, and new rates are expected to be effective Nov. 1, 2020.

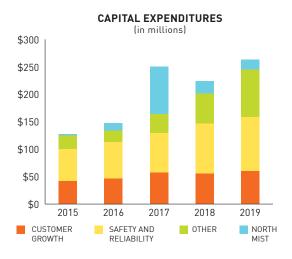
Reliable Energy for the Region

Since its inception in 1989, the Mist gas storage facility has proven to be an extremely valuable asset allowing NW Natural to store natural gas and use it to serve customers during the coldest winter days. Early in 2019, the facility once again proved its worth when cold weather coupled with lower pipeline capacity from Canada limited gas supply to the Pacific Northwest. Because of Mist, we were able to maintain service to our customers and other utilities. Given the Northwest's reliance on Mist, we've been evaluating upgrades to ensure reliable operations for years to come. In 2020, we'll be replacing the dehydration system and completing a long-term assessment study and action plan for our compression equipment at the facility.

In 2019, NW Natural completed an expansion of storage capacity with the North Mist project. The \$149 million project began service in May 2019. The investment was rate based under an established tariff schedule approved by the OPUC. The completed facility includes 4.1 billion cubic feet of storage, an additional compressor station and a dedicated 13-mile pipeline connecting NW Natural's facility to Portland General Electric's Port Westward industrial park. PGE draws on the facility to rapidly integrate more wind power into the grid, knowing they have 24/7 reliable natural gas backup. The facility is contracted for an initial 30-year period, with renewal options of up to 50 years beyond that.

Evolving for the Future

Environmental stewardship is a core value that has driven us to replace our cast iron and bare steel pipe, creating one of the most modern and lowest-emitting systems in the country. It has also led us to be one of the first utilities to adopt a rate structure that encourages energy conservation. It has guided our creation of Smart Energy, the first voluntary carbon-offset program for a stand-alone gas utility, so our customers can share in our passion for environmental stewardship. And it has driven us to pursue our Low Carbon Pathway, setting a voluntary goal of 30 percent carbon emissions savings by 2035 for NW Natural and compelling us to innovate.



Total investment in capital expenditures during 2019 was over \$260 million on an accrual basis.

We believe there is a climate imperative and reducing emissions is essential. Natural gas is an efficient, reliable and affordable energy source that is a critical part of a low-carbon energy future. Each year, NW Natural delivers more energy in Oregon than any other utility. And, according to data from the Oregon Department of Environmental Quality, the use of natural gas by our residential and commercial customers accounts for only about five percent of Oregon's total greenhouse gas emissions.

In 2019, we worked collaboratively with legislators and stakeholders to get Senate Bill 98 signed into law by Oregon Governor Kate Brown. This groundbreaking legislation creates a path for renewable natural gas to become an increasing part of the state's energy supply. Renewable natural gas has similar climate benefits as wind and solar energy, and is produced from organic materials like food, agricultural and forestry waste, wastewater, or landfills. With advancements in conditioning equipment, the gases from those organic waste streams can now be captured, cleaned up to pipeline quality and added to our existing pipeline network to serve homes, businesses and vehicles.

Renewable natural gas is a great way to help our communities solve their waste problems and create a potential revenue source. Last year, in its first inventory of technical potential, the Oregon Department of Energy found nearly 50 billion cubic feet of potential renewable natural gas supply, equivalent to the total amount of natural gas used by all Oregon residential customers today.

Additionally, renewable hydrogen produced from excess wind, hydro and solar energy can also be blended into the existing pipeline system as another climate solution to be developed under this new Oregon law.

SB 98 enables natural gas utilities to acquire renewable natural gas and renewable hydrogen on behalf of

Oregon customers and to add as much as 30 percent renewables into the state's pipeline system. The law allows up to five percent of a utility's annual revenue requirement to be used to cover the incremental cost of these renewable sources. Currently that equates to about \$33 million annually for NW Natural. Gas utilities are also allowed to rate base interconnections with the gas system and could include renewable facilities in rate base if that's the lowest-cost option for customers.

In 2020, the OPUC is set to complete the rulemaking process for SB 98, allowing us to purchase renewable natural gas on behalf of our customers before year-end.

In 2019, we sent a team abroad to learn about rapidly occurring innovations in renewable natural gas and renewable hydrogen. Meeting with government entities, utilities and private companies in Germany, Great Britain, France and the Netherlands, we were able to see the results of investment, innovation and progress that can be replicated in our backyard. This confirmed NW Natural's strategic focus on our low-carbon pathway.

To accelerate our progress, we've formed a Renewable Resources department to work with local waste facilities, technology companies and research partners to bring renewable natural gas to market as quickly and effectively as possible. With more than 120 projects already up and running throughout the nation, we're excited for our team to be part of this local answer to closing the loop on waste. Our team will also be pursing renewable hydrogen and the technology advancements that are bringing down the costs of this resource, as we work to augment our efforts to decarbonize more and more of our supply in the years to come.



NW NATURAL WATER — WATER UTILITIES

Proven Execution

Since our initial transactions in 2017, we've solidified our water strategy and tripled the number of people we serve. The water utility business has proven to be an excellent strategic fit for us, leveraging our existing operating capabilities and aligning well with our conservative risk profile, while also offering diversification, stable cash flows and substantial long-term investment opportunities.

In May 2019, we closed our largest transaction to date with Sunriver water and wastewater to serve more than 20,000 people through about 9,400 connections. This acquisition was a meaningful step for our growing water business and added wastewater expertise to our portfolio. At Dec. 31, 2019, we served over 45,000 people through about 18,000 connections in the Pacific Northwest.

Disciplined Expansion

Our disciplined approach to water acquisitions has worked well. Our acquisition strategy continued in early 2020 when we completed the purchase of the Suncadia resort water and wastewater utilities in Washington. This high-end resort community attracts residents from Seattle and serves about 2,800 connections.

Following our success in the Northwest, the first opportunity to acquire a utility outside the region came in Texas. Texas is a key growth area in the U.S. and we believe its economy, business environment and growth make it an attractive region to continue growing our water platform. In March 2020, we closed our acquisition of T&W, which serves about 3,700 water distribution connections in Conroe, Texas, outside Houston.

Once some other smaller outstanding transactions close, we'll have invested approximately \$110 million in the water sector. These aggregate acquisitions are expected to be accretive to our earnings in the first full year of their operations.

We intend to continue our disciplined and focused approach in pursuing our water strategy.



SERVING CUSTOMERS TODAY AND TOMORROW

For more than 160 years, we've provided essential utility services to our customers. While the products and delivery methods have changed over time, our dedication to meeting the needs of our customers, working collaboratively with our communities, and creating value for our shareholders hasn't wavered.

We owe our continued success to the daily dedication of our employees and our commitment to our shared values. In 2020, our value of safety is that much more paramount as our nation and local communities adapt to the effects of the coronavirus. While the situation was still developing at the time this letter went to print, as a company we remain steadfastly committed to customer and employee safety even in unprecedented times like these. I appreciate your confidence in our mission and vision for the future. We look forward to working on your behalf in the year ahead.

David H. Anderson President and Chief Executive Officer









Salmon Valley Water Sunriver Water and Wastewater

Cascadia Water Suncadia Water and Wastewater

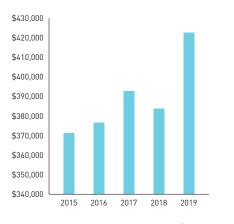
Falls Water Gem State Water

T&W Water



FINANCIAL OVERVIEW	2019	2018
KEY HIGHLIGHTS		
Consolidated financial facts (\$000):		
Operating revenues	746,372	706,143
Net income from continuing operations	65,311	67,311
Adjusted net income from continuing operations	71,899	67,311
COMMON STOCK		
Shareholder data (000):		
Average shares outstanding-diluted	29,859	28,873
Year-end shares outstanding	30,472	28,880
Per share data (\$):		
Diluted earnings from continuing operations	2.19	2.33
Adjusted diluted earnings from continuing operations	2.41 ¹	2.33
Dividends paid	1.90	1.89
Book value at year-end	28.42	26.41
DOOK Value al year-enu		
Market value at year-end	73.73 GHTS	60.46
Market value at year-end NATURAL GAS DISTRIBUTION OPERATING HIGHLI	GHTS	
Market value at year-end NATURAL GAS DISTRIBUTION OPERATING HIGHLIG Gas deliveries (000 therms)	GHTS 1,215,154	1,128,203
Market value at year-end NATURAL GAS DISTRIBUTION OPERATING HIGHLIG Gas deliveries (000 therms) Margin ² (\$000)	GHTS 1,215,154 422,731	1,128,203 383,696
Market value at year-end NATURAL GAS DISTRIBUTION OPERATING HIGHLIG Gas deliveries (000 therms) Margin ² (\$000) Degree days	GHTS 1,215,154 422,731 2,709	1,128,203 383,696 2,313
Market value at year-end NATURAL GAS DISTRIBUTION OPERATING HIGHLIG Gas deliveries (000 therms) Margin ² (\$000) Degree days Meters at year-end	GHTS 1,215,154 422,731 2,709 762,877	1,128,203 383,696 2,313 750,421
Market value at year-end NATURAL GAS DISTRIBUTION OPERATING HIGHLIG Gas deliveries (000 therms) Margin ² (\$000) Degree days	GHTS 1,215,154 422,731 2,709	1,128,203 383,696 2,313
Market value at year-end NATURAL GAS DISTRIBUTION OPERATING HIGHLIG Gas deliveries (000 therms) Margin ² (\$000) Degree days Meters at year-end Employees at year-end	GHTS 1,215,154 422,731 2,709 762,877	1,128,203 383,696 2,313 750,421
Market value at year-end NATURAL GAS DISTRIBUTION OPERATING HIGHLIG Gas deliveries (000 therms) Margin ² (\$000) Degree days Meters at year-end Employees at year-end	GHTS 1,215,154 422,731 2,709 762,877	1,128,203 383,696 2,313 750,421
Market value at year-end NATURAL GAS DISTRIBUTION OPERATING HIGHLIG Gas deliveries (000 therms) Margin ² (\$000) Degree days Meters at year-end Employees at year-end WATER OPERATING HIGHLIGHTS	GHTS 1,215,154 422,731 2,709 762,877 1,167	1,128,203 383,696 2,313 750,421 1,167
Market value at year-end NATURAL GAS DISTRIBUTION OPERATING HIGHLIG Gas deliveries (000 therms) Margin ² (\$000) Degree days Meters at year-end Employees at year-end WATER OPERATING HIGHLIGHTS Connections at year-end	GHTS 1,215,154 422,731 2,709 762,877 1,167 18,129	1,128,203 383,696 2,313 750,421 1,167 7,400
Market value at year-end NATURAL GAS DISTRIBUTION OPERATING HIGHLIG Gas deliveries (000 therms) Margin ² (\$000) Degree days Meters at year-end Employees at year-end WATER OPERATING HIGHLIGHTS Connections at year-end Employees at year-end	GHTS 1,215,154 422,731 2,709 762,877 1,167 18,129	1,128,203 383,696 2,313 750,421 1,167 7,400
Market value at year-end NATURAL GAS DISTRIBUTION OPERATING HIGHLIG Gas deliveries (000 therms) Margin ² (\$000) Degree days Meters at year-end Employees at year-end WATER OPERATING HIGHLIGHTS Connections at year-end Employees at year-end DIVIDENDS PAID ON COMMON STOCK (per share)	GHTS 1,215,154 422,731 2,709 762,877 1,167 18,129	1,128,203 383,696 2,313 750,421 1,167 7,400
Market value at year-end NATURAL GAS DISTRIBUTION OPERATING HIGHLIG Gas deliveries (000 therms) Margin ² (\$000) Degree days Meters at year-end Employees at year-end Employees at year-end Employees at year-end Employees at year-end DIVIDENDS PAID ON COMMON STOCK (per share) Payment date February	GHTS 1,215,154 422,731 2,709 762,877 1,167 18,129 38	1,128,203 383,696 2,313 750,421 1,167 7,400 16
Market value at year-end NATURAL GAS DISTRIBUTION OPERATING HIGHLIG Gas deliveries (000 therms) Margin ² (\$000) Degree days Meters at year-end Employees at year-end WATER OPERATING HIGHLIGHTS Connections at year-end Employees at year-end DIVIDENDS PAID ON COMMON STOCK (per share) Payment date	GHTS 1,215,154 422,731 2,709 762,877 1,167 18,129 38	1,128,203 383,696 2,313 750,421 1,167 7,400 16 0.4725
Market value at year-end NATURAL GAS DISTRIBUTION OPERATING HIGHLIG Gas deliveries (000 therms) Margin ² (\$000) Degree days Meters at year-end Employees at year-end Employees at year-end Employees at year-end Employees at year-end DIVIDENDS PAID ON COMMON STOCK (per share) Payment date February May	GHTS 1,215,154 422,731 2,709 762,877 1,167 18,129 38 0.4750 0.4750 0.4750	1,128,203 383,696 2,313 750,421 1,167 7,400 16 0.4725 0.4725

NATURAL GAS DISTRIBUTION MARGIN (in \$000) DIVIDENDS PAID PER SHARE



Natural Gas Distribution margin increased \$39.0 million to \$422.7 million in 2019.



Annual dividends paid per share in 2019 increased for the 64th consecutive year.

¹ Adjusted net income from continuing operations and EPS for 2019 are non-GAAP financial measures that exclude the regulatory pension disallowance of \$10.5 million pre-tax or \$6.6 million after-tax. The after-tax disallowance is calculated using the combined federal and state statutory tax rate of 26.5% and reducing the disallowance by \$1.1 million of deferred taxes specifically associated with the pension balancing account. EPS is calculated using 29.9 million diluted shares.

² References to margin refer to natural gas distribution segment.



DAVID H. ANDERSON President and Chief Executive Officer, NW Natural Holdings and NW Natural



MONICA ENAND Founder and Chief Executive Officer, Zapproved



TIMOTHY P. BOYLE President and Chief Executive Officer and Chairman of the Board, Columbia Sportswear Company



C. SCOTT GIBSON President, Gibson Enterprises



MALIA H. WASSON President, Sand Creek Advisors



MARTHA L. "STORMY" **BYORUM** Chief Executive Officer, Cori Investment Advisors, LLC



TOD R. HAMACHEK Chairman of the Board, NW Natural Holdings and NW Natural



CHARLES A. WILHOITE Managing Director, Willamette Management Associates, Inc.



JOHN D. CARTER Chairman of the Board, Schnitzer Steel Industries, Inc.



JANE L. PEVERETT Former President and Chief Executive Officer, British Columbia Transmission Corporation



STEVEN E. WYNNE Independent Director, NW Natural and Executive Vice President, Moda, Inc.



MARK S. DODSON Former Chief Executive Officer, NW Natural



KENNETH THRASHER Former Chairman of the Board, Compli Corporation



DAVID H. ANDERSON¹ President and Chief Executive Officer



JUSTIN B. PALFREYMAN² Vice President, Strategy and Business Development, and President, NW Natural Water



FRANK BURKHARTSMEYER¹ JAMES DOWNING Senior Vice President and Chief Financial Officer



MELINDA ROGERS Vice President, Chief Human Resources and Diversity Officer



Vice President and Chief Information Officer



MARDILYN SAATHOFF¹ Senior Vice President, Regulation and General Counsel



SHAWN M. FILIPPI^{1,2} Vice President, Chief Compliance Officer and Corporate Secretary



DAVE WEBER Vice President, Gas Supply and Utility Support Services



KIMBERLY HEITING Senior Vice President Operations and Chief Marketing Officer



KATHRYN WILLIAMS Vice President, Public Affairs and Sustainability



JON HUDDLESTON Vice President Engineering and Utility Operations



BRODY J. WILSON^{1,2} Vice President, Chief Accounting Officer, Controller and Treasurer

NOTICE OF ANNUAL MEETING

The 2020 Annual Meeting of Shareholders is scheduled to be held at 2 p.m., Thursday, May 28, 2020. At the time of the printing of this Annual Report, we are considering whether to conduct an entirely virtual Annual Meeting as part of our efforts to help flatten the curve of COVID-19 and support social distancing measures. After making this determination, a meeting notice and proxy statement describing our plans for conducting the meeting will be sent to all shareholders who hold shares as of the record date, April 9, 2020. Such plans may be supplemented or revised as appropriate.

Dividend reinvestment and direct stock purchase plan

Participants may make an initial investment in company stock and common shareholders of record may reinvest all or part of their dividends in additional shares under the company's plan. Cash purchases may also be made. Participants in the plan bear the cost of brokerage fees and commissions for shares purchased on the open market to fulfill purchases under the plan. A prospectus will be sent upon request.



Total shareholder return (annualized) over the five years ending December 31, 2019 for NW Natural was 11.67%, compared to Standard & Poor's (S&P) Utilities Index return of 10.29%, and the S&P 500 Index return of 11.68%.

Scheduled dividend payment dates

Subject to Board approval, the following dates are scheduled for dividend payment:

February 14, 2020 May 15, 2020 August 14, 2020 November 13, 2020

Certifications

The Chief Executive Officer certified to the NYSE on June 24, 2019, that as of that date, he was not aware of any violation by the company of NYSE's corporate governance listing standards, and the company had filed with the Securities and Exchange Commission (SEC), as exhibits 31.1 and 31.2 to its Annual Report on Form 10-K for the year ended December 31, 2018, the certificates of the Chief Executive Officer and the Chief Financial Officer of the company certifying the quality of the company's public disclosure. For the year ended December 31, 2019, the certificates of the Chief Executive Officer and Chief Financial Officer are attached as exhibits 31.1 and 31.2 to the Form 10-K included in this Annual Report.

Contact the NW Natural Holdings Board

Concerns may be directed to the nonmanagement directors by writing to:

NW Natural Holdings Board of Directors c/o Corporate Secretary 250 SW Taylor Street Portland, OR 97204

Forward-looking statements

The statements made in this Annual Report that are not purely historical, including statements regarding plans, goals, strategies, success, opportunities, dividends, earnings, financial value, financial results, future events, performance, stability, continuation of past practices, future demand or preference for gas, the future of clean energy and the role of natural gas in it, renewable natural gas, power to gas or renewable hydrogen, reduction of greenhouse gas emissions, commodity costs, customer rates and service, competitive position, revenues, customer and business growth, capital expenditures, project development or investment, including but not limited to pipeline reinforcements and Mist storage upgrades, emergency preparedness, cybersecurity, system reliability, safety, resiliency, business continuity, environmental stewardship, regulatory proceedings and actions, including, but not limited to our rate case and the timing and results thereof, rate recovery, effects of regulatory mechanisms, the regional economy, water utility strategy, planned acquisitions and integration thereof, operating plans and implementation, technology development, multifamily sector, system modernization and efficiency, and effects of legislation including but not limited to Oregon Senate Bill 98, are forward-looking statements within the "safe harbor" provisions of the Private Securities Litigation Reform Act of 1995. NW Natural's actual results could differ materially from those anticipated in these forward-looking statements as a result of risks and uncertainties, including those described in the attached report on Form 10-K. For a more complete description of these risks and uncertainties, please refer to our filings with the SEC on Forms 10-K and 10-Q.

Request for publications

The following publications may be obtained without charge by contacting the Corporate Secretary at NW Natural's address: Annual Report; Form 10-K; Form 10-Q; Form 8-Ks; Corporate Governance Standards; Director Independence Standards; Code of Ethics; and Board Committee Charters. These publications, as well as other filings made with the SEC, are also available on our website at nwnaturalholdings.com. Our SEC filings are also available through the SEC's website (sec.gov).



PRODUCED BY NW NATURAL'S CORPORATE COMMUNICATIONS

PHOTO CREDITS: ETHAN DOW - inside back cover: Oregon Coast; DALE HEADRICK - cover: operations center, service technician; page 3, J.D. Power awards; page 4, field technicians; page 5, Customer Contact Center; page 6, SB 98 signing; ROBBIE MCCLARAN - page 2: David Anderson

PRINTING: Donnelley Financial Solutions

Form 10-K Annual Report

[THIS PAGE INTENTIONALLY LEFT BLANK]

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 10-K

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 X

For the fiscal year ended December 31, 2019

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 For the transition period from to

> Commission file number 1-38681



NORTHWEST NATURAL HOLDING COMPANY

(Exact name of registran	t as specifie	d in its charter)	(Exact name of registrar	nt as specifi	ed in its charter)
Oregon		82-4710680	Oregon		93-0256722
(State or other jurisdiction of incorporation or organization)		I.R.S. Employer Ientification No.)	(State or other jurisdiction of incorporation or organization)	I	(I.R.S. Employer Identification No.)
250 S.W. Taylor Street			250 S.W. Taylor Street		
Portland	Oregon	97204	Portland	Oregon	97204
(Address of principal executi	ve offices)	(Zip Code)	(Address of principal execut	ive offices)	(Zip Code)
Registrant's telephone numb	ber:	(503) 226-4211	Registrant's telephone num	ber:	(503) 226-4211
Securities registered pursuant to 9	Section 12(b)) of the Act			

Securities registered pursuant to Section 12(b) of the Act:

Registrant	Title of eacl	h class	Trading Symbol	Name of eac on which			е	
Northwest Natural Holding Company	Common	Stock	NWN	New York Sto	ock Exc	chan	ge	
Northwest Natural Gas Company	None	9	None	No	one			
Securities registered pursuant to Section 12(g) of the Ad	ct: None.							
Indicate by check mark if the registrant is a well-known	seasoned issu	er, as define	ed in Rule 405 of	the Securities Act.				
NORTHWEST NATURAL HOLDING COMPANY Yes	🗶 No 🗌	NORTH	VEST NATURAL	GAS COMPANY	Yes		No	X
Indicate by check mark if the registrant is not required to	o file reports pu	ursuant to Se	ection 13 or Secti	on 15(d) of the Act.				
NORTHWEST NATURAL HOLDING COMPANY Yes	🗆 No 🗶	NORTH	VEST NATURAL	GAS COMPANY	Yes		No	X
Indicate by check mark whether the registrant (1) has fil of 1934 during the preceding 12 months (or for such sho subject to such filing requirements for the past 90 days.								Act
NORTHWEST NATURAL HOLDING COMPANY Yes	🕱 No 🗌	NORTH	VEST NATURAL	GAS COMPANY	Yes	X	No	
Indicate by check mark whether the registrant has subm Rule 405 of Regulation S-T (§232.405 of this chapter) d required to submit such files).								
NORTHWEST NATURAL HOLDING COMPANY Yes	🕱 No 🗆	NORTH	VEST NATURAL	GAS COMPANY	Yes	X	No	
Indicate by check mark whether the registrant is a large company, or an emerging growth company. See the def "emerging growth company" in Rule 12b-2 of the Excha	initions of "larg	er, an accel le accelerate	erated filer, a non ed filer," "accelera	-accelerated filer, a sma ted filer," "smaller repor	aller rep rting co	portir mpa	ng ny" ai	nd
NORTHWEST NATURAL HOLDING COMPA	NY		NORTHWE	ST NATURAL GAS COM	ЛРАNY	/		
Large Accelerated Filer	X		Large A	ccelerated Filer				
Accelerated Filer			Acce	elerated Filer				
Non-accelerated Filer			Non-ad	celerated Filer			X	
Smaller Reporting Company			Smaller R	eporting Company				
Emerging Growth Company			Emerging	Growth Company				

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). NORTHWEST NATURAL HOLDING COMPANY Yes 🔲 No 🗷 NORTHWEST NATURAL GAS COMPANY Yes 🗌 No 🕱

Commission file number 1-15973



NORTHWEST NATURAL GAS COMPANY

As of the end of the second quarter of 2019, the aggregate market value of the shares of Common Stock of Northwest Natural Holding Company (based upon the closing price of these shares on the New York Stock Exchange on June 28, 2019) held by non-affiliates was \$2,088,864,819.

At February 24, 2020, 30,484,008 shares of Northwest Natural Holding Company's Common Stock (the only class of Common Stock) were outstanding. All shares of Northwest Natural Gas Company's Common Stock (the only class of Common Stock) outstanding were held by Northwest Natural Holding Company.

This combined Form 10-K is separately filed by Northwest Natural Holding Company and Northwest Natural Gas Company. Information contained in this document relating to Northwest Natural Gas Company is filed by Northwest Natural Holding Company and separately by Northwest Natural Gas Company. Northwest Natural Gas Company makes no representation as to information relating to Northwest Natural Holding Company or its subsidiaries, except as it may relate to Northwest Natural Gas Company and its subsidiaries.

Northwest Natural Gas Company meets the conditions set forth in General Instruction (I)(1)(a) and (b) of Form 10-K and is therefore filing this report with the reduced disclosure format.

DOCUMENTS INCORPORATED BY REFERENCE

Portions of Northwest Natural Holding Company's Proxy Statement, to be filed in connection with the 2020 Annual Meeting of Shareholders, are incorporated by reference in Part III.

TABLE OF CONTENTS

Item		Page
	Glossary of Terms	4
	Forward-Looking Statements	7
PART I		
Item 1.	– Business	9
	Overview	9
	Business Model	9
	Natural Gas Distribution	9
	Other	14
	Environmental Matters	15
	Employees	17
	Information About Our Executive Officers	17
	Available Information	17
Item 1A.	Risk Factors	18
Item 1B.	Unresolved Staff Comments	29
Item 2.	Properties	30
Item 3.	Legal Proceedings	30
Item 4.	Mine Safety Disclosures	30

PART II

Item 5.	Market for Registrant's Common Equity, Related Stockholder Matters and Issuer	
	Purchases of Equity Securities	31
Item 6.	Selected Financial Data	32
Item 7.	Management's Discussion and Analysis of Financial Condition and Results of Operations	33
Item 7A.	Quantitative and Qualitative Disclosures About Market Risk	69
Item 8.	Financial Statements and Supplementary Data	71
Item 9.	Changes in and Disagreements with Accountants on Accounting and Financial Disclosure	140
Item 9A.	Controls and Procedures	140
Item 9B.	Other Information	140

PART III

Item 10.	Directors, Executive Officers and Corporate Governance	141
Item 11.	Executive Compensation	142
Item 12.	Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters	143
Item 13.	Certain Relationships and Related Transactions, and Director Independence	144
Item 14.	Principal Accountant Fees and Services	144

PART IV

Item 15.	Exhibits and Financial Statement Schedules	144
Item 16.	Form 10-K Summary	144
EXHIBIT I	NDEX	145
SIGNATUR	RES	149

GLOSSARY OF TERMS AND ABBREVIATIONS

	Allowerse for Europe Lload During Construction
AFUDC	Allowance for Funds Used During Construction
AOCI / AOCL	Accumulated Other Comprehensive Income (Loss)
ASC	Accounting Standards Codification
ASU	Accounting Standards Update as issued by the FASB
Average Weather	The 25-year average of heating degree days based on temperatures established in our last Oregon general rate case
Bcf	Billion cubic feet, a volumetric measure of natural gas, where one Bcf is roughly equal to 10 million therms
CNG	Compressed Natural Gas
CODM	Chief Operating Decision Maker, which for accounting purposes is defined as an individual or group of individuals responsible for the allocation of resources and assessing the performance of the entity's business units
Core NGD Customers	Residential, commercial, and industrial customers receiving firm service from the Natural Gas Distribution business.
Cost of Gas	The delivered cost of natural gas sold to customers, including the cost of gas purchased or withdrawn/ produced from storage inventory or reserves, gains and losses from gas commodity hedges, pipeline demand costs, seasonal demand cost balancing adjustments, and regulatory gas cost deferrals
CPUC	California Public Utilities Commission, the entity that regulates our California gas storage business at the Gill Ranch facility with respect to rates and terms of service, among other matters
Decoupling	A natural gas billing rate mechanism, also referred to as a conservation tariff, which is designed to allow a utility to encourage industrial and small commercial customers to conserve energy while not adversely affecting the utility's earnings due to reductions in sales volumes
Demand Cost	A component in NGD customer rates representing the cost of securing firm pipeline capacity, whether the capacity is used or not
EBITDA	Earnings before interest, taxes, depreciation and amortization, a non-GAAP financial measure
EE/CA	Engineering Evaluation / Cost Analysis
Encana	Encana Oil & Gas (USA) Inc.
Energy Corp	Northwest Energy Corporation, a wholly-owned subsidiary of Northwest Natural Gas Company
EPA	Environmental Protection Agency
EPS	Earnings per share
ECRM	Environmental Cost Recovery Mechanism, a billing rate mechanism for recovering prudently incurred environmental site remediation costs allocable to Washington customers through NGD customer billings
FASB	Financial Accounting Standards Board
FERC	Federal Energy Regulatory Commission; the entity regulating interstate storage services offered by the Mist gas storage facility
Firm Service	Natural gas service offered to customers under contracts or rate schedules that will not be disrupted to meet the needs of other customers
FMBs	First Mortgage Bonds
General Rate Case	A periodic filing with state or federal regulators to establish billing rates for utility customers
GHG	Greenhouse gases
Gill Ranch	Gill Ranch Storage, LLC, a wholly-owned subsidiary of NW Natural Gas Storage, LLC
Gill Ranch Facility	Underground natural gas storage facility near Fresno, California, with 75% owned by Gill Ranch and 25% owned by PG&E
GTN	Gas Transmission Northwest, LLC which owns a transmission pipeline serving California and the Pacific Northwest
Heating Degree Days	Units of measure reflecting temperature-sensitive consumption of natural gas, calculated by subtracting the average of a day's high and low temperatures from 59 degrees Fahrenheit
Interruptible Service	Natural gas service offered to customers (usually large commercial or industrial users) under contracts or rate schedules that allow for interruptions when necessary to meet the needs of firm service customers
Interstate Storage Services	The portion of the Mist gas storage facility not used to serve NGD customers, instead serving utilities, gas marketers, electric generators, and large industrial users
IPUC	Public Utility Commission of Idaho; the entity that regulates NW Holdings' regulated water businesses with respect to rates and terms of service, among other matters

IRP	Integrated Resource Plan
KB	Kelso-Beaver Pipeline, of which 10% is owned by KB Pipeline Company, a subsidiary of NNG
	Financial Corporation
LNG	Liquefied Natural Gas, the cryogenic liquid form of natural gas. To reach a liquid form at atmospheric pressure, natural gas must be cooled to approximately negative 260 degrees Fahrenheit
MAP-21	A federal pension plan funding law called the Moving Ahead for Progress in the 21st Century Act, July 2012
Moody's	Moody's Investors Service, Inc., credit rating agency
NAV	Net Asset Value
NGD	Natural Gas Distribution, a segment of NW Natural Holding Company and NW Natural Gas Company that provides regulated natural gas distribution services to residential, commercial, and industrial customers in Oregon and Southwest Washington
NGD Margin	A financial measure used by NW Natural's CODM consisting of NGD operating revenues less the associated cost of gas, franchise taxes, and environmental recoveries
NNG Financial	NNG Financial Corporation, a wholly-owned subsidiary of NW Holdings
NOL	Net Operating Loss
NRD	Natural Resource Damages
NW Holdings	Northwest Natural Holding Company
NW Natural	Northwest Natural Gas Company, a wholly-owned subsidiary of NW Holdings
NWN Energy	NW Natural Energy, LLC, a wholly-owned subsidiary of NW Holdings
NWN Gas Reserves	NWN Gas Reserves LLC, a wholly-owned subsidiary of Energy Corp
NWN Gas Storage	NW Natural Gas Storage, LLC, a wholly-owned subsidiary of NWN Energy
ODEQ	Oregon Department of Environmental Quality
OPEIU	Office and Professional Employees International Union Local No. 11, AFL-CIO, the Union which represents NW Natural's bargaining unit employees
OPUC	Public Utility Commission of Oregon; the entity that regulates our Oregon natural gas and regulated water businesses with respect to rates and terms of service, among other matters; the OPUC also regulates the Mist gas storage facility's intrastate storage services
PBGC	Pension Benefit Guaranty Corporation
PG&E	Pacific Gas & Electric Company; 25% owner of the Gill Ranch Facility
PGA	Purchased Gas Adjustment, a regulatory mechanism primarily used to adjust natural gas customer rates to reflect changes in the forecasted cost of gas and differences between forecasted and actual gas costs from the prior year
Portland General	Portland General Electric; primary customer of the North Mist gas storage facility
PHMSA	U.S. Department of Transportation's Pipeline and Hazardous Materials Safety Administration
PRP	Potentially Responsible Parties
RI/FS	Remedial Investigation / Feasibility Study
RNG	Renewable Natural Gas, a source of natural gas derived from organic materials which may be captured, refined, and distributed on natural gas pipeline systems
ROD	Record of Decision
ROE	Return on Equity, a measure of corporate profitability, calculated as net income or loss divided by average common equity. Authorized ROE refers to the equity rate approved by a regulatory agency for use in determining utility revenue requirements
ROR	Rate of Return, a measure of return on utility rate base. Authorized ROR refers to the rate of return approved by a regulatory agency and is generally discussed in the context of ROE and capital structure
S&P	Standard & Poor's, a credit rating agency and division of The McGraw-Hill Companies, Inc.
Sales Service	Service provided whereby a customer purchases both natural gas commodity supply and transportation from the NGD business
SEC	U.S. Securities and Exchange Commission
SRRM	Site Remediation and Recovery Mechanism, a billing rate mechanism for recovering prudently incurred environmental site remediation costs allocable to Oregon through NGD customer billings, subject to an earnings test
TCJA	The Tax Cuts and Jobs Act enacted on December 22, 2017
Therm	The basic unit of natural gas measurement, equal to one hundred thousand British thermal units
TWH	Trail West Holdings, LLC, 50% owned by NWN Energy

TWP	Trail West Pipeline, LLC, a subsidiary of TWH
TransCanada	TransCanada Pipelines Limited, owner of TransCanada American Investments, Ltd., a 50% owner of TWH, and GTN
Transportation Service	Service provided whereby a customer purchases natural gas directly from a supplier but pays the utility to transport the gas over its distribution system to the customer's facility
U.S. GAAP	Accounting principles generally accepted in the United States of America
WARM	An Oregon billing rate mechanism applied to natural gas residential and commercial customers to adjust for temperature variances from average weather
WUTC	Washington Utilities and Transportation Commission, the entity that regulates our Washington natural gas and regulated water businesses with respect to rates and terms of service, among other matters.

FORWARD-LOOKING STATEMENTS

This report contains forward-looking statements within the meaning of the U.S. Private Securities Litigation Reform Act of 1995, which are subject to the safe harbors created by such Act. Forward-looking statements can be identified by words such as anticipates, assumes, intends, plans, seeks, believes, estimates, expects, and similar references to future periods. Examples of forward-looking statements include, but are not limited to, statements regarding the following:

- plans, projections and predictions;
- objectives, goals or strategies;
- assumptions, generalizations and estimates;
- ongoing continuation of past practices or patterns;
- future events or performance;
- trends;
- risks;
- uncertainties;
- timing and cyclicality;
- earnings and dividends;
- capital expenditures and allocation;
- capital or organizational structure;
- climate change and our role in a low-carbon, renewable-energy future;
- · our strategy to reduce greenhouse gas emissions in the communities we serve;
- growth;
- customer rates;
- · labor relations and workforce succession;
- commodity costs;
- gas reserves;
- operational performance and costs;
- energy policy, infrastructure and preferences;
- public policy approach and involvement;
- efficacy of derivatives and hedges;
- liquidity, financial positions, and planned securities issuances;
- valuations;
- project and program development, expansion, or investment;
- business development efforts, including acquisitions and integration thereof, and the timing and impact of planned dispositions;
- implementation and execution of our water strategy;
- pipeline capacity, demand, location, and reliability;
- · adequacy of property rights and operations center development;
- technology implementation and cybersecurity practices;
- competition;
- procurement and development of gas (including for renewable natural gas) and water supplies;
- estimated expenditures;
- costs of compliance;
- customers bypassing our infrastructure;
- credit exposures;
- rate or regulatory outcomes, recovery or refunds;
- · impacts or changes of laws, rules and regulations;
- tax liabilities or refunds, including effects of tax reform;
- levels and pricing of gas storage contracts and gas storage markets;
- outcomes, timing and effects of potential claims, litigation, regulatory actions, and other administrative matters;
- projected obligations, expectations and treatment with respect to retirement plans;
- availability, adequacy, and shift in mix, of gas and water supplies;
- · effects of new or anticipated changes in critical accounting policies or estimates;
- · approval and adequacy of regulatory deferrals;
- · effects and efficacy of regulatory mechanisms; and
- environmental, regulatory, litigation and insurance costs and recoveries, and timing thereof.

Forward-looking statements are based on our current expectations and assumptions regarding our business, the economy, and other future conditions. Because forward-looking statements relate to the future, they are subject to inherent uncertainties, risks, and changes in circumstances that are difficult to predict. Our actual results may differ materially from those contemplated by the forward-looking statements. We therefore caution you against relying on any of these forward-looking statements. They are neither statements of historical fact nor guarantees or assurances of future performance. Important factors that could cause actual results to differ materially from those in the forward-looking statements are discussed at Item 1A., "Risk Factors" of Part I and Item 7. and Item 7A., "Management's Discussion and Analysis of Financial Condition and Results of Operations" and "Quantitative and Qualitative Disclosures About Market Risk", respectively, of Part II of this report.

Any forward-looking statement made in this report speaks only as of the date on which it is made. Factors or events that could cause actual results to differ may emerge from time to time, and it is not possible for us to predict all of them. We undertake no obligation to publicly update any forward-looking statement, whether as a result of new information, future developments or otherwise, except as may be required by law.

PART I

FILING FORMAT

This annual report on Form 10-K is a combined report being filed by two separate registrants: Northwest Natural Holding Company (NW Holdings), and Northwest Natural Gas Company (NW Natural). Except where the content clearly indicates otherwise, any reference in the report to "we," "us" or "our" is to the consolidated entity of NW Holdings and all of its subsidiaries, including NW Natural, which is a distinct SEC registrant that is a wholly-owned subsidiary of NW Holdings. Each of NW Holdings' subsidiaries is a separate legal entity with its own assets and liabilities. Information contained herein relating to any individual registrant or its subsidiaries is filed by such registrant on its own behalf. Each registrant makes representations only as to itself and its subsidiaries and makes no other representation whatsoever as to any other company.

Item 8 in this Annual Report on Form 10-K includes separate financial statements (i.e. balance sheets, statements of comprehensive income, statements of cash flows, and statements of equity) for NW Holdings and NW Natural, in that order. References in this discussion to the "Notes" are to the Notes to the Consolidated Financial Statements in Item 8 of this report. The Notes to the Consolidated Financial Statements are presented on a combined basis for both entities except where expressly noted otherwise. All Items other than Item 8 are combined for the reporting companies.

ITEM 1. BUSINESS

OVERVIEW

On October 1, 2018, we completed a reorganization into a holding company structure. In this reorganization, shareholders of NW Natural (the predecessor publicly held parent company) became shareholders of NW Holdings, on a one-for-one basis, with the same number of shares and same ownership percentage as they held in NW Natural immediately prior to the reorganization. NW Natural became a wholly owned subsidiary of NW Holdings. Additionally, certain subsidiaries of NW Natural were transferred to NW Holdings. As required under generally accepted accounting principles, these subsidiaries are presented as discontinued operations in the 2018 and 2017 consolidated results of NW Natural within this report.

NW Holdings is a holding company headquartered in Portland, Oregon and owns NW Natural, NW Natural Water Company, LLC (NWN Water), and other businesses and activities. NW Natural is NW Holdings' largest subsidiary.

NW Natural distributes natural gas to residential, commercial, and industrial customers in Oregon and southwest Washington. NW Natural and its predecessors have supplied gas service to the public since 1859, was incorporated in Oregon in 1910, and began doing business as NW Natural in 1997. NW Natural's natural gas distribution activities are reported in the natural gas distribution (NGD) segment. All other business activities, including certain gas storage activities, water businesses, and other investments and activities are aggregated and reported as "other" at their respective registrant.

In addition, NW Holdings has reported discontinued operations results related to the pending sale of Gill Ranch Storage, LLC (Gill Ranch). NW Natural Gas Storage, LLC (NWN Gas Storage), currently an indirect wholly-owned subsidiary of NW Holdings, entered into a Purchase and Sale Agreement during the second quarter of 2018 that provides for the sale of all membership interests in Gill Ranch. Gill Ranch owns a 75% interest in the natural gas storage facility located near Fresno, California known as the Gill Ranch Gas Storage Facility. Pacific Gas and Electric Company (PG&E) owns the remaining 25% interest in the Gill Ranch Gas Storage Facility. See Note 19 of the Consolidated Financial Statements in Item 8 of this report for more information.

NATURAL GAS DISTRIBUTION (NGD) SEGMENT

Both NW Holdings and NW Natural have one reportable segment, the NGD segment, which is operated by NW Natural. NGD provides natural gas service through approximately 760,000 meters in Oregon and southwest Washington. Approximately 89% of customers are located in Oregon and 11% are located in southwest Washington.

NW Natural has been allocated an exclusive service territory by the Oregon Public Utility Commission (OPUC) and Washington Utilities and Transportation Commission (WUTC), which includes the major population centers in western Oregon, including the Portland metropolitan area, most of the Willamette Valley, the Coastal area from Astoria to Coos Bay, and portions of Washington along the Columbia River. Portland serves as a major West Coast port and is a key distribution center. Major businesses located in NW Natural's service territory include retail, manufacturing, and high-technology industries.

Customers

The NGD business serves residential, commercial, and industrial customers with no individual customer accounting for more than 10% of NW Natural's or NW Holdings' revenues. On an annual basis, residential and commercial customers typically account for approximately 60% of NGD volumes delivered and approximately 90% of margin. Industrial and other customers largely account for the remaining volumes and margin.

The following table presents summary meter information for the NGD segment as of December 31, 2019:

	Number of Meters	% of Volumes	% of Margin
Residential	692,012	38%	63%
Commercial	69,858	22%	24%
Industrial	1,007	40%	8%
Other ⁽¹⁾	N/A	N/A	5%
Total	762,877	100%	100%

⁽¹⁾ NGD margin is also affected by other items, including miscellaneous revenues, gains or losses from NW Natural's gas cost incentive sharing mechanism, other margin adjustments, and other regulated services.

Generally, residential and commercial customers purchase both their natural gas commodity (gas sales) and natural gas delivery services (transportation services) from the NGD business. Industrial customers also purchase transportation services, but may buy the gas commodity either from NW Natural or directly from a third-party gas marketer or supplier. Gas commodity cost is primarily a pass-through cost to customers; therefore, profit margins are not materially affected by an industrial customer's decision to purchase gas from NW Natural or from third parties. Industrial and large commercial customers may also select between firm and interruptible service levels, with firm services generally providing higher profit margins compared to interruptible services.

To help manage gas supplies, industrial tariffs are designed to provide some certainty regarding industrial customers' volumes by requiring an annual service election, special charges for changes between elections, and in some cases, a minimum or maximum volume requirement before changing options.

Customer growth rates for natural gas utilities in the Pacific Northwest historically have been among the highest in the nation due to lower market saturation as natural gas became widely available as a residential heating source after other fuel options. We estimate natural gas was in approximately 63% of single-family residential homes in NW Natural's service territory in 2019. Customer growth in our region comes mainly from the following sources: single-family housing, both new construction and conversions; multifamily housing new construction; and commercial buildings, both new construction and conversions. Single-family new construction has consistently been our largest source of growth. Continued customer growth is closely tied to the comparative price of natural gas to electricity and fuel oil and the economic health of Portland, Oregon and Vancouver, Washington. We believe there is potential for continued growth as natural gas is a preferred direct energy source due to its affordability, reliability, comfort, convenience, and clean qualities.

Competitive Conditions

In its service areas, the NGD business has no direct competition from other natural gas distributors. However, it competes with other forms of energy in each customer class. This competition among energy suppliers is based on price, efficiency, reliability, performance, preference, market conditions, technology, federal, state, and local energy policy, and environmental impacts.

For residential and small to mid-size commercial customers, the NGD business competes primarily with providers of electricity, fuel oil, and propane.

In the industrial and large commercial markets, the NGD business competes with all forms of energy, including competition from wholesale natural gas marketers. In addition, large industrial customers could bypass NW Natural's natural gas distribution system by installing their own direct pipeline connection to the interstate pipeline system. NW Natural has designed custom transportation service agreements with several large industrial customers to provide transportation service rates that are competitive with the customer's costs of installing their own pipeline.

Seasonality of Business

The NGD business is seasonal in nature due to higher gas usage by residential and commercial customers during the cold winter heating months. Other categories of customers experience similar seasonality in their usage but to a lesser extent.

Regulation and Rates

The NGD business is subject to regulation by the OPUC and WUTC. These regulatory agencies authorize rates and allow recovery mechanisms to provide the opportunity to recover prudently incurred capital and operating costs from customers, while also earning a reasonable return on investment for investors. In addition, the OPUC and WUTC also regulate the system of accounts and issuance of securities by NW Natural.

NW Natural files general rate cases and rate tariff requests periodically with the OPUC and WUTC to establish approved rates, an authorized return on equity (ROE), an overall rate of return (ROR) on rate base, an authorized capital structure, and other revenue/cost deferral and recovery mechanisms.

NW Natural is also regulated by the Federal Energy Regulatory Commission (FERC). Under NW Natural's Mist interstate storage certificate with FERC, NW Natural is required to file either a petition for rate approval or a cost and revenue study every five years to change or justify maintaining the existing rates for the interstate storage service.

For further discussion on our most recent general rate cases, see Part II, Item 7, "Results of Operations—Regulatory Matters— Regulation and Rates."

Gas Supply

NW Natural strives to secure sufficient, reliable supplies of natural gas to meet the needs of customers at the lowest reasonable cost, while maintaining price stability and managing gas purchase costs prudently. This is accomplished through a comprehensive strategy focused on the following items:

- Reliability ensuring gas resource portfolios are sufficient to satisfy customer requirements under extreme cold weather conditions;
- Diverse Supply providing diversity of supply sources;
- Diverse Contracts maintaining a variety of contract durations, types, and counterparties; and
- · Cost Management and Recovery employing prudent gas cost management strategies.

Reliability

The effectiveness of the natural gas distribution system ultimately rests on whether reliable service is provided to NGD customers. To ensure effectiveness, the NGD business has developed a risk-based methodology in which it uses a planning standard to serve the highest firm sales demand day in any year with 99% certainty.

The projected maximum design day firm NGD customer sendout is approximately 10 million therms. Of this total, the NGD business is currently capable of meeting about 57% of requirements with gas from storage located within or adjacent to its service territory, while the remaining supply requirements would come from gas purchases under firm gas purchase contracts and recall agreements.

NW Natural segments transportation capacity, which is a natural gas transportation mechanism under which a shipper can leverage its firm pipeline transportation capacity by separating it into multiple segments with alternate delivery routes. The reliability of service on these alternate routes will vary depending on the constraints of the pipeline system. For those segments with acceptable reliability, segmentation provides a shipper with increased flexibility and potential cost savings compared to traditional pipeline service. The NGD business relies on segmentation of firm pipeline transportation capacity that flows from Stanfield, Oregon to various points south of Molalla, Oregon.

We believe gas supplies would be sufficient to meet existing NGD firm customer demand in the event of maximum design day weather conditions.

The following table shows the sources of supply projected to be used to satisfy the design day sendout for the 2019-20 winter heating season:

Therms in millions	Therms	Percent
Sources of NGD supply:		
Firm supply purchases	3.4	34%
Mist underground storage (NGD only)	3.1	31%
Company-owned LNG storage	1.9	19%
Off-system storage contract	0.5	5%
Pipeline segmentation capacity	0.6	6%
Recall agreements	0.4	4%
Peak day citygate deliveries	0.1	1%
Total	10.0	100%

The OPUC and WUTC have Integrated Resource Planning (IRP) processes in which utilities define different growth scenarios and corresponding resource acquisition strategies in an effort to evaluate supply and demand resource requirements, consider uncertainties in the planning process and the need for flexibility to respond to changes, and establish a plan for providing reliable service at the least cost.

NW Natural files a full IRP biennially for Oregon and Washington with the OPUC and the WUTC, respectively, and files updates between filings. The OPUC acknowledges NW Natural's action plan, whereas the WUTC provides notice that the IRP has met the requirements of the Washington Administrative Code. OPUC acknowledgment of the IRP does not constitute ratemaking approval of any specific resource acquisition strategy or expenditure. However, the OPUC Commissioners generally indicate that they would give considerable weight in prudence reviews to actions consistent with acknowledged plans. The WUTC has indicated the IRP process is one factor it will consider in a prudence review. For additional information see Part II, Item 7, "Results of Operations—*Regulatory Matters*."

Diversity of Supply Sources

NW Natural purchases gas supplies primarily from the Alberta and British Columbia provinces of Canada and multiple receipt points in the U.S. Rocky Mountains to protect against regional supply disruptions and to take advantage of price differentials. For 2019, 58% of gas supply came from Canada, with the balance primarily coming from the U.S. Rocky Mountain region. The extraction of shale gas has increased the availability of gas supplies throughout North America. We believe gas supplies available in the western United States and Canada are adequate to serve NGD customer requirements for the foreseeable future. NW Natural continues to evaluate the long-term supply mix based on projections of gas production and pricing in the U.S. Rocky Mountain region as well as other regions in North America. NW Natural has also announced its intent to incorporate Renewable Natural Gas (RNG) into its supply portfolio.

NW Natural supplements firm gas supply purchases with gas withdrawals from gas storage facilities, including underground reservoirs and LNG storage facilities. Storage facilities are generally injected with natural gas during the off-peak months in the spring and summer, and the gas is withdrawn for use during peak demand months in the winter.

The following table presents the storage facilities available for NGD business supply:

	Maximum Daily Deliverability (therms in millions)	Designed Storage Capacity (Bcf)
Gas Storage Facilities		
Owned Facility		
Mist, Oregon (Mist Facility) ⁽¹⁾	3.1	10.6
Mist, Oregon (North Mist Facility) ⁽²⁾	1.3	4.1
Contracted Facility		
Jackson Prairie, Washington ⁽³⁾	0.5	1.1
LNG Facilities		
Owned Facilities		
Newport, Oregon	0.6	1.0
Portland, Oregon	1.3	0.6
Total	6.8	17.4

⁽¹⁾ The Mist gas storage facility has a total maximum daily deliverability of 5.4 million therms and a total designed storage capacity of about 16.0 Bcf, of which 3.1 million therms of daily deliverability and 10.6 Bcf of storage capacity are reserved for NGD business customers.

The North Mist facility is contracted to exclusively serve Portland General Electric, a local electric utility, and may not be used to serve other NGD customers. See "North Mist Gas Storage Facility" below for more information.

⁽³⁾ The storage facility is located near Chehalis, Washington and is contracted from Northwest Pipeline, a subsidiary of The Williams Companies.

The Mist facility serves NGD segment customers and is also used for non-NGD purposes, primarily for contracts with gas storage customers, including utilities and third-party marketers. Under regulatory agreements with the OPUC and WUTC, gas storage at Mist can be developed in advance of NGD customer needs but is subject to recall when needed to serve such customers as their demand increases. When storage capacity is recalled for NGD purposes it becomes part of the NGD segment. In 2019, the NGD business did not recall additional deliverability or associated storage capacity to serve customer needs. The North Mist facility is contracted for the exclusive use of Portland General Electric, a local electric utility, and may not be used to serve other NGD customers. See "*North Mist Gas Storage Facility*" below.

Diverse Contract Durations and Types

NW Natural has a diverse portfolio of short-, medium-, and long-term firm gas supply contracts and a variety of contract types including firm and interruptible supplies as well as supplemental supplies from gas storage facilities.

The portfolio of firm gas supply contracts typically includes the following gas purchase contracts: year-round and winter-only baseload supplies; seasonal supply with an option to call on additional daily supplies during the winter heating season; and daily or monthly spot purchases.

During 2019, a total of 836 million therms were purchased under contracts with durations as follows:

Contract Duration (primary term)	Percent of Purchases
Long-term (one year or longer)	33%
Short-term (more than one month, less than one year)	21
Spot (one month or less)	46
Total	100%

Gas supply contracts are renewed or replaced as they expire. During 2019, no individual supplier provided 10% or more of the NGD business gas supply requirements.

Gas Cost Management

The cost of gas sold to NGD customers primarily consists of the following items, which are included in annual Purchased Gas Adjustment (PGA) rates: gas purchases from suppliers; charges from pipeline companies to transport gas to our distribution system; gas storage costs; gas reserves contracts; and gas commodity derivative contracts.

The NGD business employs a number of strategies to mitigate the cost of gas sold to customers. The primary strategies for managing gas commodity price risk include:

- negotiating fixed prices directly with gas suppliers;
- negotiating financial derivative contracts that: (1) effectively convert floating index prices in physical gas supply contracts to fixed prices (referred to as commodity price swaps); or (2) effectively set a ceiling or floor price, or both, on floating index priced physical supply contracts (referred to as commodity price options such as calls, puts, and collars);
- buying physical gas supplies at a set price and injecting the gas into storage for price stability and to minimize pipeline capacity demand costs; and
- investing in gas reserves for longer term price stability. See Note 13 for additional information about our gas reserves.

NW Natural also contracts with an independent energy marketing company to capture opportunities regarding storage and pipeline capacity when those assets are not serving the needs of NGD business customers. Asset management activities provide opportunities for cost of gas savings for customers and incremental revenues for NW Natural through regulatory incentive-sharing mechanisms. These activities, net of the amount shared, are included in other for segment reporting purposes.

Gas Cost Recovery

Mechanisms for gas cost recovery are designed to be fair and reasonable, with an appropriate balance between the interests of customers and NW Natural. In general, natural gas distribution rates are designed to recover the costs of, but not to earn a return on, the gas commodity sold. Risks associated with gas cost recovery are minimized by resetting customer rates annually through the PGA and aligning customer and shareholder interests through the use of sharing, weather normalization, and conservation mechanisms in Oregon. See Part II, Item 7, "Results of Operations—*Regulatory Matters*" and "Results of Operations—Business Segments—Natural Gas Distribution Operations—*Cost of Gas.*"

Transportation of Gas Supplies

NW Natural's gas distribution system is reliant on a single, bi-directional interstate transmission pipeline to bring gas supplies into the natural gas distribution system. Although dependent on a single pipeline, the pipeline's gas flows into the Portland metropolitan market from two directions: (1) the north, which brings supplies from the British Columbia and Alberta supply basins; and (2) the east, which brings supplies from Alberta as well as the U.S. Rocky Mountain supply basins.

NW Natural incurs monthly demand charges related to firm pipeline transportation contracts. These contracts have expiration dates ranging from 2020 to 2061. The largest pipeline agreements are with Northwest Pipeline. NW Natural actively works with Northwest Pipeline and others to renew contracts in advance of expiration to ensure gas transportation capacity is sufficient to meet customer needs.

Rates for interstate pipeline transportation services are established by FERC within the U.S. and by Canadian authorities for services on Canadian pipelines.

As mentioned above, the service territory is dependent on a single pipeline for its natural gas supply. In October 2018, a critical natural gas pipeline in western Canada experienced a rupture and gas supply to the Pacific Northwest was disrupted. NW Natural was able to serve firm NGD business customers during the incident with natural gas from the Mist storage facility and realignment of other supplies. The pipeline was restored to full capacity in December 2019. Pipeline disruptions, replacement projects, and long-term projected natural gas demand in our region underscore the need for pipeline transportation diversity. In addition, there are potential industrial projects in the region, which could increase the demand for natural gas and the need for additional pipeline capacity and diversity.

Currently, there are various interstate pipeline projects proposed, including the Trail West pipeline in which NW Holdings has an interest, that could meet the forecasted demand growth for NW Natural and the region. However, the location of any future pipeline project will likely depend on the location of committed industrial projects. NW Holdings and NW Natural intend to continue to evaluate and closely monitor the currently contemplated projects to determine the best option for our customers. NW Holdings has an equity investment in Trail West Holdings, LLC (TWH), which is developing plans to build the Trail West pipeline. This pipeline would connect TransCanada Pipelines Limited's (TransCanada) Gas Transmission Northwest (GTN) interstate transmission line to NW Natural's natural gas distribution system. If constructed, this pipeline would provide another transportation path for gas purchases from Alberta and the U.S. Rocky Mountains in addition to the one that currently moves gas through the Northwest Pipeline system.

Gas Distribution

Safety and the protection of employees, customers, and our communities at large are, and will remain, top priorities. NW Natural constructs, operates, and maintains its pipeline distribution system and storage operations with the goal of ensuring natural gas is delivered and stored safely, reliably, and efficiently.

NW Natural has one of the most modern distribution systems in the country with no identified cast iron pipe or bare steel main. The final known bare steel was removed from the system in 2015 and cast iron pipe removal was completed in 2000. Since the 1980s, NW Natural has taken a proactive approach to replacement programs and partnered with the OPUC and WUTC on progressive regulation to further safety and reliability efforts for the distribution system. In the past, NW Natural had a cost recovery program in Oregon that encompassed programs for bare steel replacement, transmission pipeline integrity management, and distribution pipeline integrity management as appropriate.

Natural gas distribution businesses are likely to be subject to greater federal and state regulation in the future. Additional operating and safety regulations from the U.S. Department of Transportation's Pipeline and Hazardous Materials Safety Administration (PHMSA) are currently under development. In 2016, PHMSA issued safety requirements for natural gas transmission pipelines. In 2019, PHMSA issued the first of three portions of these regulations which will go into effect on July 1, 2020 and include up to a 15-year timeline for compliance. The remaining portions of the regulations are anticipated to be issued in 2020. NW Natural intends to continue to work diligently with industry associations as well as federal and state regulators to ensure the safety of the system and compliance with new laws and regulations. The costs associated with compliance with federal, state, and local laws and regulations are expected to be recovered in rates.

North Mist Gas Storage Facility

In May 2019, NW Natural completed an expansion of its existing gas storage facility near Mist, Oregon. The North Mist facility provides long-term, no-notice underground gas storage service and is dedicated solely to Portland General Electric (Portland General) under a 30-year contract with options to extend up to an additional 50 years upon mutual agreement of the parties. Portland General uses the facility to support its gas-fired electric power generation facilities, which incorporate renewable energy into the electric grid.

North Mist includes a new reservoir providing 4.1 Bcf of available storage, an additional compressor station with a contractual capacity of 120,000 dekatherms of gas per day, no-notice service that can be drawn on rapidly, and a 13-mile pipeline to connect to Portland General's Port Westward gas plants in Clatskanie, Oregon.

Upon placement into service in May 2019, the facility was included in rate base under an established tariff schedule with revenues recognized consistent with the schedule. Billing rates will be updated annually to the current depreciable asset level and forecasted operating expenses.

While there are additional expansion opportunities in the Mist storage field, further development is not contemplated at this time and any expansion would be based on market demand, cost effectiveness, available financing, receipt of future permits, and other rights.

OTHER

Certain businesses and activities of NW Holdings and NW Natural are aggregated and reported as other for segment reporting purposes. These include the following businesses and activities aggregated under NW Holdings:

- NW Natural Water Company, LLC (NWN Water) and its water and wastewater utility operations and acquisition activities;
 an equity method investment in TWH, a joint venture to build and operate a gas transmission pipeline in Oregon. TWH is owned 50% by NW Natural Energy LLC (NWN Energy), a wholly owned subsidiary of NW Holdings, and 50% by TransCanada American Investments Ltd., an indirect wholly owned subsidiary of TransCanada;
- a minority interest in the Kelso-Beaver Pipeline held by our wholly owned subsidiary NNG Financial Corporation (NNG Financial); and
- holding company and corporate activities as well as adjustments made in consolidation.

Water Utilities

After a comprehensive strategic planning process, in December 2017, we entered the water utility sector by announcing several acquisitions, which NWN Water subsequently closed. Through December 31, 2019, NWN Water has completed a total of eight acquisitions, with several additional signed acquisition agreements for privately-owned water and wastewater utilities in the Pacific Northwest and Texas. The pending water distribution transactions are subject to state utility commission approvals and are expected to close during 2020. Once closed, NWN Water expects to serve a total of approximately 62,000 people through 25,000 water and wastewater connections in the Pacific Northwest and Texas, with an aggregate investment of \$110 million. NW Holdings continues to pursue additional acquisitions in a disciplined manner.

The water and wastewater utilities primarily serve residential and commercial customers in the Pacific Northwest. Water distribution operations are seasonal in nature with peak demand during warmer summer months, while wastewater is less seasonally affected. Entities generally operate in exclusive service territories with no direct competitors. Water distribution customer rates are regulated by state utility commissions while the wastewater businesses we own currently are not rate regulated by utility commissions.

Additionally, the following businesses and activities are aggregated and reported as other under NW Natural, a wholly owned subsidiary of NW Holdings:

- 5.4 Bcf of the Mist gas storage facility contracted to other utilities and third-party marketers;
- natural gas asset management activities; and
- appliance retail center operations.

Mist Gas Storage

The Mist gas storage facility began operations in 1989. It is a 16 Bcf facility with 10.6 Bcf used to provide gas storage for the NGD business. The remaining 5.4 Bcf of the facility is contracted with other utilities and third-party marketers with these results reported in other.

The overall facility consists of seven depleted natural gas reservoirs, 22 injection and withdrawal wells, a compressor station, dehydration and control equipment, gathering lines, and other related facilities. The capacity at Mist serving other utilities and third-party marketers provides multi-cycle gas storage services to customers in the interstate and intrastate markets. The interstate storage services are offered under a limited jurisdiction blanket certificate issued by FERC. Under NW Natural's interstate storage certificate with FERC, NW Natural is required to file either a petition for rate approval or a cost and revenue study every five years to change or justify maintaining the existing rates for the interstate storage service. Intrastate firm storage services in Oregon are offered under an OPUC-approved rate schedule as an optional service to certain eligible customers. Gas storage revenues from the 5.4 Bcf are derived primarily from firm service customers who provide energy-related services, including natural gas distribution, electric generation, and energy marketing. The Mist facility benefits from limited competition as there are few storage facilities in the Pacific Northwest region. Therefore, NW Natural is able to acquire high-value, multi-year contracts.

Asset Management Activities

NW Natural contracts with an independent energy marketing company to provide asset management services, primarily through the use of natural gas commodity exchange agreements and natural gas pipeline capacity release transactions. The results of these activities are included in other, except for the asset management revenues allocated to NGD business customers pursuant to regulatory agreements, which are reported in the NGD segment.

ENVIRONMENTAL MATTERS

Properties and Facilities

NW Natural owns, or previously owned, properties and facilities that are currently being investigated that may require environmental remediation and are subject to federal, state, and local laws and regulations related to environmental matters. These laws and regulations may require expenditures over a long time frame to address certain environmental impacts. Estimates of liabilities for environmental costs are difficult to determine with precision because of the various factors that can affect their ultimate disposition. These factors include, but are not limited to, the following:

- the complexity of the site;
- · changes in environmental laws and regulations at the federal, state, and local levels;
- the number of regulatory agencies or other parties involved;
- new technology that renders previous technology obsolete, or experience with existing technology that proves ineffective;
- · the level of remediation required;
- variations between the estimated and actual period of time that must be dedicated to respond to an environmentallycontaminated site; and
- the application of environmental laws that impose joint and several liabilities on all potentially responsible parties.

NW Natural has received recovery of a portion of such environmental costs through insurance proceeds, seeks the remainder of such costs through customer rates, and believes recovery of these costs is probable. In both Oregon and Washington, NW Natural has mechanisms to recover expenses. Oregon recoveries are subject to an earnings test. See Part II, Item 7, "Results of Operations—Regulatory Matters—Rate Mechanisms—*Environmental Cost Deferral and Recovery*", Note 2, and Note 18.

Greenhouse Gas Matters

We recognize certain of our businesses, including our natural gas business, are likely to be affected by requirements to address greenhouse gas emissions. Future federal, state or local legislation or regulation may seek to limit emissions of greenhouse gases, including both carbon dioxide (CO2) and methane. These potential laws and regulations may require certain activities to reduce emissions and/or increase the price paid for energy based on its carbon content.

Current federal rules require the reporting of greenhouse gas emissions. In September 2009, the Environmental Protection Agency (EPA) issued a final rule requiring the annual reporting of greenhouse gas emissions from certain industries, specified large greenhouse gas emission sources, and facilities that emit 25,000 metric tons or more of CO2 equivalents per year. NW Natural began reporting emission information in 2011. Under this reporting rule, local natural gas distribution companies like NW Natural are required to report system throughput to the EPA on an annual basis. The EPA also has required additional greenhouse gas reporting regulations to which NW Natural is subject, requiring the annual reporting of fugitive emissions from operations.

The Oregon and Washington legislatures and governors continue to consider various greenhouse gas reduction initiatives, and ballot measures may be proposed in each state. For example, in prior legislative sessions the Oregon legislature has considered cap and trade bills, and cap and trade may be considered again in future legislative sessions. While the contents of any cap and trade bill are not currently certain, such a bill could create a declining cap on greenhouse gas emissions from a wide variety of sources, including electric and natural gas utilities, and could require entities with a compliance obligation to hold permits, or allowances, to emit greenhouse gas emissions on a per ton basis. A cap and trade bill was considered in the 2019 Oregon legislative session, and failed due to lack of quorum for a vote. That bill included considerations for natural gas utilities, such as provisions for low-income customers and the value of certain allowances that could be used to invest in emission-reducing initiatives.

Even if a state-wide cap and trade program is not addressed in a legislative session, ballot measures may be proposed by advocacy groups in Oregon. These measures may include requirements for carbon free electricity, investments in electrification programs, or accelerating Oregon's existing greenhouse gas pollution targets. While the outcome of these federal, state or local climate change policy developments cannot be determined at this time, these initiatives could produce a number of results including new regulations, legal actions, additional charges to fund energy efficiency activities, or other regulatory actions. The adoption and implementation of regulations limiting emissions of greenhouse gases could require NW Natural to incur compliance costs associated with our customers' use, which we expect to recover through rates and therefore may result in an increase in the prices charged to customers and over time potentially a decline in the demand for natural gas.

Some local and county governments in the United States have been proposing or passing 100% renewable energy resolutions with advocates calling for electrification of new construction or seeking to accelerate renewable energy goals. At least one city in our service territory is currently considering such action. Similarly, various federal and state agencies have enacted or are considering enactment of rules that would limit greenhouse gas emissions. For example, the state of Washington's Department of Ecology (DOE) enacted the Clean Air Rule (CAR) in 2016, which capped the maximum greenhouse gas emissions allowed from stationary sources, such as natural gas utilities. For gas distribution utilities, the production of emissions from usage by their customers was considered to be production of emissions attributable to the utility. In December 2017, a Washington State Court ruled that the DOE lacked legislative authority to regulate non-emitting sources, such as natural gas distribution utilities. In January 2020, the Supreme Court of the State of Washington upheld the lower court's ruling that the DOE lacked legislative authority to regulate non-emitting sources, such as natural gas utilities. In January 2020, the Supreme Court of the State of Washington upheld the lower court's ruling that the DOE lacked legislative authority to regulate non-emitting sources, such as natural gas utilities. In January 2020, the Supreme Court of the State of Washington upheld the lower court's ruling that the DOE lacked legislative authority to regulate non-emitting sources, such as electric generating plants, for further proceedings.

In 2017, NW Natural initiated a multi-pronged, multi-year strategy to accelerate and deliver greater greenhouse gas emission reductions in the communities we serve. Key components of this strategy include energy efficiency, continued adoption of NW Natural's voluntary Smart Energy carbon offset program, and incorporating RNG into our gas supply. RNG is produced from organic materials like food, agricultural and forestry waste, wastewater, or landfills. Methane is captured from these organic materials as they decompose and is conditioned to pipeline quality, so it can be added into the existing natural gas system, reducing net greenhouse gas emissions associated with the natural gas energy supply. In 2019, Oregon Senate bill 98 (SB 98) was signed into law allowing NW Natural to procure RNG on behalf of customers and providing voluntary targets that would allow us to make qualified investments and purchase RNG from third parties such that up to 30% of the gas distributed to retail customers is RNG by 2050, and creating a limit of 5% of a utility's revenue requirement that can be used to cover the incremental cost of RNG. The OPUC is required to complete the rulemaking for SB 98 by July 31, 2020. NW Natural is actively working to procure RNG contracts for customers, and is engaging in longer-term efforts to increase the amount of RNG on our system and explore the development of renewable hydrogen through power to gas.

NW Natural continues to take proactive steps in seeking to reduce greenhouse gas emissions in our region and is proactively communicating with local, state and federal governments and communities about those steps. We believe that NW Natural has a vital role in providing energy to the communities we serve. Each year, NW Natural delivers more energy in Oregon than any other utility, while sales of natural gas to our residential and commercial customers account for approximately 5% of Oregon's greenhouse gas emissions according to the State of Oregon Department of Environmental Quality In-Boundary GHG Inventory 2015 Figures. We intend to continue to provide this necessary energy to our communities and to use our modern pipeline system to help the Pacific Northwest move to a low-carbon, renewable energy future.

EMPLOYEES

At December 31, 2019, our workforce consisted of the following:

NW Natural:	
Unionized employees ⁽¹⁾	626
Non-unionized employees	541
Total NW Natural	1,167
Other Entities:	
Water company employees	38
Other	15
Total other entities	53
Total Employees	1,220
⁽¹⁾ Members of the Office and Professional Employees International Union (OPEIU) Local No. 11, AFL-CIO.	

NW Natural's labor agreement with members of OPEIU covers wages, benefits, and working conditions. In November 2019, NW Natural's unionized employees ratified a collective bargaining agreement that that took effect on December 1, 2019 and extends to May 31, 2024, and thereafter from year to year unless either party serves notice of its intent to negotiate modifications to the collective bargaining agreement.

Certain subsidiaries may receive services from employees of other subsidiaries. When such services involve regulated entities, those entities receiving services reimburse the entity providing services pursuant to shared services agreements, as applicable.

INFORMATION ABOUT OUR EXECUTIVE OFFICERS

For information concerning executive officers, see Part III, Item 10.

AVAILABLE INFORMATION

NW Holdings and NW Natural file annual, quarterly and current reports and other information with the Securities and Exchange Commission (SEC). The SEC maintains an Internet site where reports, proxy statements, and other information filed can be read, copied, and requested online at its website (<u>www.sec.gov</u>). In addition, we make available, free of charge, on our website (<u>www.nwnaturalholdings.com</u>), our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) and proxy materials filed under Section 14 of the Securities Exchange Act of 1934, as amended (Exchange Act), as soon as reasonably practicable after we electronically file such material with, or furnish it to, the SEC. We have included our website address as an inactive textual reference only. Information contained on our website is not incorporated by reference into this annual report on Form 10-K.

NW Holdings and NW Natural have adopted a Code of Ethics for all employees, officers, and directors that is available on our website. We intend to disclose revisions and amendments to, and any waivers from, the Code of Ethics for officers and directors on our website. Our Corporate Governance Standards, Director Independence Standards, charters of each of the committees of the Board of Directors, and additional information about NW Holdings and NW Natural are also available at the website. Copies of these documents may be requested, at no cost, by writing or calling Shareholder Services, NW Natural, 250 S.W. Taylor Street, Portland, Oregon 97204, telephone 503-226-4211 ext. 2402.

ITEM 1A. RISK FACTORS

NW Holdings' and NW Natural's business and financial results are subject to a number of risks and uncertainties, many of which are not within our control, which could adversely affect our business, financial condition, and results of operations. Additional risks and uncertainties that are not currently known to us or that are not currently believed by us to be material may also harm our businesses, financial condition, and results of operations. When considering any investment in NW Holdings' or NW Natural's securities, investors should carefully consider the following information, as well as information contained in the caption "Forward-Looking Statements", Item 7A, and our other documents filed with the SEC. This list is not exhaustive and the order of presentation does not reflect management's determination of priority or likelihood. Additionally, our listing of risk factors that primarily affects one of our businesses does not mean that such risk factor is inapplicable to our other businesses.

Risks Related to our Business Generally

REGULATORY RISK. Regulation of NW Holdings' and NW Natural's regulated businesses, including changes in the regulatory environment, failure of regulatory authorities to approve rates which provide for timely recovery of costs and an adequate return on invested capital, or an unfavorable outcome in regulatory proceedings may adversely impact NW Holdings' and NW Natural's financial condition and results of operations.

The OPUC and WUTC have general regulatory authority over NW Natural's gas business in Oregon and Washington. NW Holdings' regulated water utility businesses are generally regulated by the public utility commission in the state in which a water business is located. These public utility commissions have broad regulatory authority, including: the rates charged to customers; authorized rates of return on rate base, including ROE; the amounts and types of securities that may be issued by our regulated utility companies, like NW Natural; services our regulated utility companies provide and the manner in which they provide them; the nature of investments our utility companies make; deferral and recovery of various expenses, including, but not limited to, pipeline replacement, environmental remediation costs, capital and information technology investments, commodity hedging expense, and certain employee benefit expenses such as pension costs; transactions with affiliated interests; regulatory adjustment mechanisms such as weather adjustment mechanisms, and other matters. The OPUC also regulates actions investors may take with respect to our utility companies, NW Natural and NW Holdings. Similarly, FERC has regulatory authority over NW Natural's interstate storage services, and the CPUC has regulatory authority over NW Holdings' Gill Ranch storage operations. Expansion of our businesses could result in regulation by other regulatory authority of the Public Utility Commission of Texas.

The prices regulators allow us to charge for regulated utility service, and the maximum FERC-approved rates FERC authorizes us to charge for interstate storage and related transportation services, are the most significant factors affecting both NW Natural's and NW Holdings' financial position, results of operations and liquidity. State utility regulators have the authority to disallow recovery of costs they find imprudently incurred or otherwise disallowed, and rates that regulators allow may be insufficient for recovery of costs we incur. We expect to continue to make expenditures to expand, improve and safely operate our gas and water utility distribution and gas storage systems. Regulators can deny recovery of those costs. Furthermore, while each applicable state regulator has established an authorized rate of return for our regulated utility businesses, we may not be able to achieve the earnings level authorized. Moreover, in the normal course of business we may place assets in service or incur higher than expected levels of operating expense before rate cases can be filed to recover those costs (this is commonly referred to as regulatory lag). The failure of any regulatory commission to approve requested rate increases on a timely basis to recover costs or to allow an adequate return could adversely impact NW Holdings' or NW Natural's financial condition, results of operations and liquidity.

As companies with regulated utility businesses, we frequently have dockets open with our regulators, including a general rate case filed with the OPUC on December 30, 2019. The regulatory proceedings for these dockets typically involve multiple parties, including governmental agencies, consumer advocacy groups, and other third parties. Each party has differing concerns, but all generally have the common objective of limiting amounts included in rates. We cannot predict the timing or outcome of these proceedings or our pending Oregon general rate case, or the effects of those outcomes on NW Holdings' and NW Natural's results of operations and financial condition.

ENVIRONMENTAL LIABILITY RISK. Certain of NW Natural's, and possibly NW Holdings', properties and facilities may pose environmental risks requiring remediation, the costs of which are difficult to estimate and which could adversely affect NW Holdings' and NW Natural's financial condition, results of operations, and cash flows.

NW Natural owns, or previously owned, properties that require environmental remediation or other action. NW Holdings or NW Natural may now, or in the future, own other properties that require environmental remediation or other action. NW Natural and NW Holdings accrue all material loss contingencies relating to these properties. A regulatory asset at NW Natural has been recorded for estimated costs pursuant to a Deferral Order from the OPUC and WUTC. In addition to maintaining regulatory deferrals, NW Natural settled with most of its historical liability insurers for only a portion of the costs it has incurred to date and expects to incur in the future. To the extent amounts NW Natural recovered from insurance are inadequate and it is unable to recover these deferred costs in utility customer rates, NW Natural would be required to reduce its regulatory assets which would result in a charge to earnings in the year in which regulatory assets are reduced. In addition, in Oregon, the OPUC approved the

SRRM, which limits recovery of deferred amounts to those amounts which satisfy an annual prudence review and an earnings test that requires NW Natural to contribute additional amounts toward environmental remediation costs above approximately \$10 million in years in which NW Natural earns above its authorized ROE. To the extent NW Natural earns more than its authorized ROE in a year, it would be required to cover environmental expenses greater than the \$10 million with those earnings that exceed its authorized ROE. The OPUC ordered a review of the SRRM in 2018 or when we obtain greater certainty of environmental costs, whichever occurred first. We submitted information for review in 2018, and believe we could be subject to further review. These ongoing prudence reviews, the earnings test, or the periodic review could reduce the amounts NW Natural is allowed to recover, and could adversely affect NW Holdings' or NW Natural's financial condition, results of operations and cash flows.

Moreover, we may have disputes with regulators and other parties as to the severity of particular environmental matters, what remediation efforts are appropriate, and the portion of the costs NW Natural or NW Holdings should bear. We cannot predict with certainty the amount or timing of future expenditures related to environmental investigations, remediation or other action, the portions of these costs allocable to NW Natural or NW Holdings, or disputes or litigation arising in relation thereto.

Environmental liability estimates are based on current remediation technology, industry experience gained at similar sites, an assessment of probable level of responsibility, and the financial condition of other potentially responsible parties. However, it is difficult to estimate such costs due to uncertainties surrounding the course of environmental remediation, the preliminary nature of certain site investigations, and the application of environmental laws that impose joint and several liabilities on all potentially responsible parties. These uncertainties and disputes arising therefrom could lead to further adversarial administrative proceedings or litigation, with associated costs and uncertain outcomes, all of which could adversely affect NW Holdings' or NW Natural's financial condition, results of operations and cash flows.

ENVIRONMENTAL REGULATION COMPLIANCE RISK. *NW Holdings and NW Natural are subject to environmental regulations for our ongoing businesses, compliance with which could adversely affect our operations or financial results.*

NW Holdings and NW Natural are subject to laws, regulations and other legal requirements enacted or adopted by federal, state and local governmental authorities relating to protection of the environment, including those legal requirements that govern discharges of substances into the air and water, the management and disposal of hazardous substances and waste, groundwater quality and availability, plant and wildlife protection, and other aspects of environmental regulation. For example, our natural gas operations are subject to reporting requirements to the Environmental Protection Agency (EPA) and the Oregon Department of Environmental Quality (ODEQ) regarding greenhouse gas emissions. These and other current and future additional environmental regulations could result in increased compliance costs or additional operating restrictions, which may or may not be recoverable in customer rates or through insurance. If these costs are not recoverable, they could have an adverse effect on NW Holdings' or NW Natural's operations or financial condition.

GLOBAL CLIMATE CHANGE RISK. Our businesses may be subject to physical risks associated with climate change, all of which could adversely affect NW Holdings' or NW Natural's financial condition, results of operations and cash flows.

Climate change may cause physical risks, including an increase in sea level, intensified storms, water scarcity and changes in weather conditions, such as changes in precipitation, average temperatures and extreme wind or other climate conditions. A significant portion of the nation's gas infrastructure is located in areas susceptible to storm damage that could be aggravated by wetland and barrier island erosion, which could give rise to gas supply interruptions and price spikes.

These and other physical changes could result in disruptions to natural gas production and transportation systems potentially increasing the cost of gas and affecting our natural gas businesses' ability to procure gas to meet customer demand. These changes could also affect our distribution systems resulting in increased maintenance and capital costs, disruption of service, regulatory actions and lower customer satisfaction. Similar disruptions could occur in NW Holdings' water utility businesses. Additionally, to the extent that climate change adversely impacts the economic health or weather conditions of our service territory directly, it could adversely impact customer demand or our customers' ability to pay. Such physical risks could have an adverse effect on NW Holdings' or NW Natural's financial condition, results of operations, and cash flows.

PUBLIC PERCEPTION AND POLICY RISK. Changes in public sentiment or public policy with respect to natural gas, including through local, state or federal laws or legislation or other regulation (including ballot initiatives), could adversely affect NW Holdings' or NW Natural's financial condition, results of operations and cash flows.

There are a number of international, federal, state, and local legislative, legal, regulatory and other initiatives being proposed and adopted in an attempt to measure, control or limit the effects of global warming and climate change, including GHG emissions such as carbon dioxide and methane. For example, there are current legislative efforts in Oregon, Washington, and other states in which we operate to cap or otherwise restrict the maximum GHGs an entity may emit without reduction efforts or other undertakings. A cap and trade bill was considered in the 2019 Oregon legislative session, and failed due to a lack of quorum for a vote. If a state-wide cap and trade program is not passed during the 2020 Oregon short-legislative session, ballot measures may be proposed by advocacy groups in Oregon's November 2020 election. Similarly, one small jurisdiction in NW Natural's service territory, Eugene, Oregon, is seeking to pursue reductions in GHG emissions by negotiating for GHG targets, carbon offsets and increased use of RNG in their system. Such current or future legislation, regulation or other initiatives (including ballot

initiatives or ordinances) could impose on our natural gas businesses operational requirements or restrictions, additional charges to fund energy efficiency initiatives, or levy a tax based on carbon content. In addition, while no such bans currently exist in NW Natural's operating territories, certain municipalities, such as Berkeley, California, are moving to restrict new natural gas hookups in residential and other buildings, while other municipalities have considered requiring the conversion of buildings to electric heat, or otherwise adopting policies or incentives to encourage the use of electricity in lieu of natural gas. If successful in our territories, such restrictions could adversely impact customer growth or usage, and could adversely impact our ability to recover costs and maintain reasonable customer rates.

NW Natural believes natural gas has an important role in moving the Pacific Northwest to a low carbon future, and to that end is developing programs and measures to reduce carbon emissions. However, NW Natural's efforts may not happen quickly enough to keep pace with legislation or other regulation, legal changes or public sentiment, or may not be as effective as expected.

Any of these initiatives, or our unsuccessful response to them, could result in us incurring additional costs to comply with the imposed restrictions, provide a cost or other competitive advantage to energy sources other than natural gas, reduce demand for natural gas, impose costs or restrictions on end users of natural gas, impact the prices we charge our customers, impose increased costs on us associated with the adoption of new infrastructure and technology to respond to such requirements, and could negatively impact public perception of our services or products that negatively diminishes the value of our brand, all of which could adversely affect NW Holdings' or NW Natural's business operations, financial condition and results of operations.

STRATEGIC TRANSACTION RISK. *NW Holdings' and NW Natural's ability to successfully complete strategic transactions, including merger, acquisition, divestiture, joint venture, business development projects or other strategic transactions is subject to significant risks, including the risk that required regulatory or governmental approvals may not be obtained, risks relating to unknown problems or liabilities or problems or liabilities undisclosed to us, and the risk that for these or other reasons, we may be unable to achieve some or all of the benefits that we anticipate from such transactions, which could adversely affect NW Holdings' or NW Natural's financial condition, results of operations, and cash flows.*

From time to time, NW Holdings and NW Natural have pursued and may continue to pursue strategic transactions including merger, acquisition, divestiture, joint venture, business development projects or other strategic transactions, including acquisitions by NW Holdings in the water sector of a number of water utilities, wastewater entities and a water services company, with NW Holdings' continuing to seek other such water sector related opportunities. Any such transactions involve substantial risks, including the following:

- purchase or sale transactions that are contracted for may fail to close for a variety of reasons;
- acquired businesses or assets may not produce revenues, earnings or cash flow at anticipated levels, which could, among other things, result in the impairment of any goodwill associated with such acquisitions;
- acquired businesses or assets could have environmental, permitting, or other problems for which contractual protections prove inadequate;
- there may be difficulties in integration or operation costs of new businesses;
- there may exist liabilities that were not disclosed to us, that exceed our estimates, or for which our rights to indemnification from the seller are limited;
- we may be unable to obtain the necessary regulatory or governmental approvals to close a transaction, receive approvals granted subject to terms that are unacceptable to us, or be unable to achieve the anticipated regulatory treatment of any such transaction; or
- we may be unable to avoid a sale of assets for a price that is less than the book value of those assets.

One or more of these risks could affect NW Holdings' and NW Natural's financial condition, results of operations, and cash flows.

BUSINESS DEVELOPMENT RISK. NW Holdings' and NW Natural's business development projects may encounter unanticipated obstacles, costs, changes or delays that could result in a project becoming impaired, which could negatively impact NW Holdings' or NW Natural's financial condition, results of operations and cash flows.

Business development projects involve many risks. We are currently engaged in several business development projects, including, but not limited to, NW Holdings' early planning and development stages for a regional pipeline in Oregon. We may also engage in other business development projects such as investments in additional long-term gas reserves, projects in the water sector, CNG refueling stations, RNG, power to gas or hydrogen projects or other projects intended to reduce carbon emissions. These projects may not be successful. Additionally, we may not be able to obtain required governmental permits and approvals to complete our projects in a cost-efficient or timely manner, potentially resulting in delays or abandonment of the projects. We could also experience issues such as: technological challenges; ineffective scalability; startup and construction delays; construction cost overruns; disputes with contractors; the inability to negotiate acceptable agreements such as rights-of-way, easements, construction, gas supply or other material contracts; changes in customer demand, perception or commitment; public opposition to projects; changes in market prices; and operating cost increases. Additionally, we may be unable to finance our business development projects at acceptable costs or within a scheduled time frame necessary for completing the project. Any of the foregoing risks, if realized, could result in the project becoming impaired, and such impairment could have an adverse effect on NW Holdings' or NW Natural's financial condition and results of operations.

JOINT PARTNER RISK. Investing in business development projects through partnerships, joint ventures or other business arrangements affects our ability to manage certain risks and could adversely impact NW Holdings' or NW Natural's financial condition, results of operations and cash flows.

We use joint ventures and other business arrangements to manage and diversify the risks of certain development projects, including NW Holdings' Trail West pipeline and Gill Ranch Facility and NW Natural's gas reserves agreements. NW Holdings or NW Natural may acquire or develop part-ownership interests in other projects in the future, including but not limited to, in the water sector. Under these arrangements, we may not be able to fully direct the management and policies of the business relationships, and other participants in those relationships may take action contrary to our interests, including making operational decisions that could negatively affect our costs and liabilities. In addition, other participants may withdraw from the project, divest important assets, become financially distressed or bankrupt, or have economic or other business interests or goals that are inconsistent with ours. For example, in January 2019, Pacific Gas & Electric Company, which owns the remaining 25 percent of the Gill Ranch Facility (75 percent of which is owned by NW Holdings), filed for bankruptcy protection. While NW Holdings will monitor that bankruptcy proceeding, and take appropriate actions in an attempt to protect its interests, it does not control, and cannot predict, the outcome of such proceedings and the impact, if any, of the proceeding on the operations of Gill Ranch or the planned sale by NW Holdings' of its interest in Gill Ranch.

NW Natural's gas reserves arrangements, which operate as a hedge backed by physical gas supplies, involve a number of risks, including: gas production that is significantly less than the expected volumes, or no gas volumes; operating costs that are higher than expected; changes in the consolidated tax position or tax laws that could affect NW Natural's ability to take, or the timing of, certain tax benefits that impact the financial outcome of this transaction; inherent risks of gas production, including disruption to operations or a complete shut-in of the field; and one or more participants in one of these gas reserves arrangements acting contrary to NW Natural's interests. In addition, while the cost of the original gas reserves venture is currently included in customer rates and additional wells under that arrangement are recovered at specific costs, the occurrence of one or more of these risks could affect NW Natural's ability to recover this hedge in rates. Further, new gas reserves arrangements have not been approved for inclusion in rates, and regulators may ultimately determine to not include all or a portion of future transactions in rates. The realization of any of the above mentioned situations could adversely impact NW Holdings' or NW Natural's financial condition, results of operations and cash flows.

OPERATING RISK. Transporting and storing natural gas involves numerous risks that may result in accidents and other operating risks and costs, some or all of which may not be fully covered by insurance, and which could adversely affect NW Holdings' or NW Natural's financial condition, results of operations and cash flows.

NW Holdings and NW Natural are subject to all of the risks and hazards inherent in the businesses of gas distribution and storage, and water distribution, including:

- earthquakes, floods, storms, landslides and other severe weather incidents and natural hazards;
- leaks or losses of natural gas, water or wastewater, or contamination of natural gas or water by chemicals or compounds, as a result of the malfunction of equipment or facilities or otherwise;
- · damages from third parties;
- operator errors;
- negative performance by our storage reservoirs, facilities, or wells that could cause us to fail to meet expected or forecasted operational levels or contractual commitments to our customers;
- problems maintaining, or the malfunction of, pipelines, wellbores and related equipment and facilities that form a part of the infrastructure that is critical to the operation of our gas and water distribution and gas storage facilities;
- presence of chemicals or other compounds in natural gas that could adversely affect the performance of the system or enduse equipment;
- collapse of underground storage reservoirs;
- inadequate supplies of natural gas or water;
- operating costs that are substantially higher than expected;
- migration of natural gas through faults in the rock or to some area of the reservoir where existing wells cannot drain the gas effectively, resulting in loss of the gas;
- · blowouts (uncontrolled escapes of gas from a pipeline or well) or other accidents, fires and explosions; and
- · risks and hazards inherent in the drilling operations associated with the development of gas storage facilities, and wells.

For example TC Pipelines, LP (TC Pipelines) has identified the presence of a chemical substance, dithiazine, at several facilities on the system of its subsidiary, Gas Transmission Northwest (GTN), and those of some upstream and downstream connecting pipeline facilities. A portion of NW Natural's gas supplies from Canada are transported on GTN's pipelines. TC Pipelines reports that dithiazine can drop out of gas streams in a powdery form at some points of pressure reduction (for example, at a regulator), and that in incidents where a sufficient quantity of the material accumulates in certain places, improper functioning of equipment can occur, which can result in increased preventative and corrective action costs. While NW Natural has not detected significant quantities of dithiazine on its system to date, we continue to monitor and could discover increased levels of dithiazine or other compounds on NW Natural's system that could affect the performance of the system or end-use equipment. These risks could result in disruption of service, personal injury or loss of human life, damage to and destruction of property and equipment, pollution or other environmental damage, breaches of our contractual commitments, and may result in curtailment or suspension of operations, which in turn could lead to significant costs and lost revenues. Further, because our pipeline, storage and distribution facilities are in or near populated areas, including residential areas, commercial business centers, and industrial sites, any loss of human life or adverse financial outcomes resulting from such events could be significant. We could be subject to lawsuits, claims, and criminal and civil enforcement actions. Additionally, we may not be able to maintain the level or types of insurance we desire, and the insurance coverage we do obtain may contain large deductibles or fail to cover certain hazards or cover all potential losses. The occurrence of any operating risks not covered by insurance could adversely affect NW Holdings' or NW Natural's financial condition, results of operations and cash flows.

BUSINESS CONTINUITY RISK. NW Holdings and NW Natural may be adversely impacted by local or national disasters, pandemic illness, political unrest, terrorist activities, cyber-attacks or data breaches, and other extreme events to which we may not be able to promptly respond, which could adversely affect NW Holdings' or NW Natural's operations or financial condition.

Local or national disasters, pandemic illness, political unrest, terrorist activities, cyber-attacks and data breaches, and other extreme events are a threat to our assets and operations. Companies in critical infrastructure industries may face a heightened risk due to being the target of, and having heightened exposure to, acts of terrorism, including physical and security breaches of our physical infrastructure and information technology systems in the form of cyber-attacks. These attacks could, among other things, target or impact our technology or mechanical systems that operate our distribution, transmission or storage facilities and result in a disruption in our operations, damage to our system and inability to meet customer requirements. In addition, the threat of terrorist activities could lead to increased economic instability and volatility in the price of natural gas or other necessary commodities that could affect our operations. Threatened or actual national disasters or terrorist activities may also disrupt capital or bank markets and our ability to raise capital or obtain debt financing, or impact our suppliers or our customers directly. Local disaster, protests or pandemic illness could result in disruption of our infrastructure or part of our workforce being unable to operate or maintain our infrastructure or perform other tasks necessary to conduct our business. A slow or inadequate response to events may have an adverse impact on our operations and earnings. We may not be able to maintain sufficient insurance to cover all risks associated with local and national disasters, pandemic illness, terrorist activities, cyber-attacks and other events. Additionally, large scale natural disasters or terrorist attacks could destabilize the insurance industry making the insurance we do have unavailable, which could increase the risk that an event could adversely affect NW Holdings' or NW Natural's operations or financial results.

HOLDING COMPANY DIVIDEND RISK. As a holding company, NW Holdings depends on its operating subsidiaries, including NW Natural, to meet financial obligations and the ability of NW Holdings to pay dividends on its common stock is dependent on the receipt of dividends and other payments from its subsidiaries, including NW Natural.

As a holding company, NW Holdings' only significant assets are the stock and membership interests of its operating subsidiaries, which at this time is primarily NW Natural. NW Holdings' direct and indirect subsidiaries are separate and distinct legal entities, managed by their own boards of directors, and have no obligation to pay any amounts to their respective shareholders, whether through dividends, loans or other payments. The ability of these companies to pay dividends or make other distributions on their common stock is subject to, among other things: their results of operations, net income, cash flows and financial condition, as well as the success of their business strategies and general economic and competitive conditions; the prior rights of holders of existing and future debt securities and any future preferred stock issued by those companies; and any applicable legal restrictions.

In addition, the ability of NW Holdings' subsidiaries to pay upstream dividends and make other distributions is subject to applicable state law and regulatory restrictions. Under the OPUC and WUTC regulatory approvals for the holding company formation, if NW Natural ceases to comply with credit and capital structure requirements approved by the OPUC and WUTC, it will not, with limited exceptions, be permitted to pay dividends to NW Holdings. Under the OPUC and WUTC orders authorizing the holding company reorganization, NW Natural may not pay dividends or make distributions to NW Holdings if NW Natural's credit ratings and common equity levels fall below specified ratings and levels. If NW Natural's long-term secured credit ratings are below A- for S&P and A3 for Moody's, dividends may be issued so long as NW Natural's common equity is 45% or above. If NW Natural's long-term secured credit ratings are below BBB for S&P and Baa2 for Moody's, dividends may be issued so long as NW Natural's long-term secured credit ratings fall to BB+ or below for S&P or Ba1 or below for Moody's, or if NW Natural's common equity is below 44%. The ratio is measured using common equity and long-term debt excluding imputed debt or debt-like lease obligations, and is determined on a preceding or projected 13-month basis.

EMPLOYEE BENEFIT RISK. The cost of providing pension and postretirement healthcare benefits is subject to changes in pension assets and liabilities, changing employee demographics and changing actuarial assumptions, which may have an adverse effect on NW Holdings' or NW Natural's financial condition, results of operations and cash flows.

Until NW Natural closed the pension plans to new hires, which for non-union employees was in 2006 and for union employees was in 2009, it provided pension plans and postretirement healthcare benefits to eligible full-time utility employees and retirees. About half of NW Natural's current utility employees were hired prior to these dates, and therefore remain eligible for these plans. Other businesses we acquire may also have pension plans. The costs to NW Natural, or the other applicable businesses we may

acquire, for providing such benefits is subject to change in the market value of the pension assets, changes in employee demographics including longer life expectancies, increases in healthcare costs, current and future legislative changes, and various actuarial calculations and assumptions. The actuarial assumptions used to calculate our future pension and postretirement healthcare expenses may differ materially from actual results due to significant market fluctuations and changing withdrawal rates, wage rates, interest rates and other factors. These differences may result in an adverse impact on the amount of pension contributions, pension expense or other postretirement benefit costs recorded in future periods. Sustained declines in equity markets and reductions in bond rates may have a material adverse effect on the value of the pension fund assets and liabilities. In these circumstances, NW Natural may be required to recognize increased contributions and pension expense earlier than it had planned to the extent that the value of pension assets is less than the total anticipated liability under the plans, which could have a negative impact on NW Holdings' and NW Natural's financial condition, results of operations and cash flows.

WORKFORCE RISK. NW Holdings' and NW Natural's businesses are heavily dependent on being able to attract and retain qualified employees and maintain a competitive cost structure with market-based salaries and employee benefits, and workforce disruptions could adversely affect NW Holdings' or NW Natural's operations and results.

NW Holdings' and NW Natural's ability to implement our business strategy and serve our customers is dependent upon our continuing ability to attract and retain talented professionals and a technically skilled workforce, and being able to transfer the knowledge and expertise of our workforce to new employees as our largely older workforce retires. We expect that a significant portion of our workforce will retire within the current decade, which will require that we attract, train and retain skilled workers to prevent loss of institutional knowledge or skills gaps. Without an appropriately skilled workforce, our ability to provide quality service and meet our regulatory requirements will be challenged and this could negatively impact NW Holdings' and NW Natural's earnings. Additionally, a majority of NW Natural workers are represented by the OPEIU Local No. 11 AFL-CIO, and are covered by a collective bargaining agreement that extends to May 31, 2024. Disputes with the union representing NW Natural employees over terms and conditions of their agreement, or failure to timely and effectively renegotiate the agreement, could result in instability in our labor relationship and work stoppages that could impact the timely delivery of gas and other services from our utility and storage facilities, which could strain relationships with customers and state regulators and cause a loss of revenues. The collective bargaining agreements may also limit our flexibility in dealing with NW Natural's workforce, and the ability to change work rules and practices and implement other efficiency-related improvements to successfully compete in today's challenging marketplace, which may negatively affect NW Holdings' and NW Natural's financial condition and results of operations.

LEGISLATIVE, COMPLIANCE AND TAXING AUTHORITY RISK. *NW Holdings and NW Natural are subject to governmental regulation, and compliance with local, state and federal requirements, including taxing requirements, and unforeseen changes in or interpretations of such requirements could affect NW Holdings' or NW Natural's financial condition and results of operations.*

NW Holdings and NW Natural are subject to regulation by federal, state and local governmental authorities. We are required to comply with a variety of laws and regulations and to obtain authorizations, permits, approvals and certificates from governmental agencies in various aspects of our business. Significant changes in federal, state, or local governmental leadership can accelerate or amplify changes in existing laws or regulations, or the manner in which they are interpreted or enforced. For example, the current U.S. presidential administration has made numerous leadership changes at federal administrative agencies since the 2016 U.S. presidential election. Moreover, the U.S. Congress and the U.S. presidential administration may make substantial changes to fiscal, tax, regulation and other federal policies, which changes may be significantly impacted by the outcome of the 2020 U.S. presidential and congressional election. The current U.S. presidential administration has called for and implemented significant changes to U.S. fiscal policies, U.S. trade, healthcare, immigration, foreign, and government regulatory policy. To the extent the U.S. Congress or U.S. presidential administration implements changes to U.S. policy, those changes may impact, among other things, the U.S. and global economy, international trade and relations, unemployment, immigration, corporate taxes, healthcare, the U.S. regulatory environment, inflation and other areas. Similarly, local elections during 2020 may lead to significant policy changes at the state or municipal levels in our service areas that may affect us. In addition, foreign governments may implement changes to their policies, in response to changes to U.S. policy or otherwise. Although we cannot predict the impact, if any, of these changes to our businesses, they could adversely affect NW Holdings' or NW Natural's financial condition and results of operations. Until we know what policy changes are made and how those changes impact our businesses and the business of our competitors over the long term, we will not know if, overall, we will benefit from them or be negatively affected by them.

Though we cannot predict changes in laws, regulations, or enforcement, we expect there to continue to be a number of significant changes. We cannot predict with certainty the impact of any future revisions or changes in interpretations of existing regulations or the adoption of new laws and regulations. Additionally, any failure to comply with existing or new laws and regulations could result in fines, penalties or injunctive measures that could affect operating assets. For example, under the Energy Policy Act of 2005, the FERC has civil authority under the Natural Gas Act to impose penalties for current violations of in excess of \$1 million per day for each violation. In addition, as the regulatory environment for our businesses increases in complexity, the risk of inadvertent noncompliance may also increase. Changes in regulations, the imposition of additional regulations, and the failure to comply with laws and regulations could negatively influence NW Holdings' or NW Natural's operating environment and results of operations.

Additionally, changes in federal, state or local tax laws and their related regulations, or differing interpretations or enforcement of applicable law by a federal, state or local taxing authority, could result in substantial cost to us and negatively affect our results of operations. Tax law and its related regulations and case law are inherently complex and dynamic. Disputes over interpretations of tax laws may be settled with the taxing authority in examination, through programs like the Compliance Assurance Process (CAP), upon appeal or through litigation. Our judgments may include reserves for potential adverse outcomes regarding tax positions that have been taken that may be subject to challenge by taxing authorities. Changes in laws, regulations or adverse judgments and the inherent difficulty in quantifying potential tax effects of business decisions may negatively affect NW Holdings' or NW Natural's financial condition and results of operations.

Furthermore, certain tax assets and liabilities, such as deferred tax assets and regulatory tax assets and liabilities, are recognized or recorded by NW Holdings or NW Natural based on certain assumptions and determinations made based on available evidence, such as projected future taxable income, tax-planning strategies, and results of recent operations. If these assumptions and determinations prove to be incorrect, the recorded results may not be realized, which may negatively impact the financial results of NW Holdings and NW Natural.

There is uncertainty as to how our regulators will reflect the impact of the legislation and other government regulation in rates. The resulting ratemaking treatment may negatively affect NW Holdings' or NW Natural's financial condition and results of operations.

SAFETY REGULATION RISK. NW Holdings and NW Natural may experience increased federal, state and local regulation of the safety of our systems and operations, which could adversely affect NW Holdings' or NW Natural's operating costs and financial results.

The safety and protection of the public, our customers and our employees is and will remain our top priority. We are committed to consistently monitoring and maintaining our distribution systems and storage operations to ensure that natural gas and water is acquired, stored and delivered safely, reliably and efficiently. Given recent high-profile natural gas explosions, leaks and accidents in other parts of the country involving both distribution systems and storage facilities, we anticipate that the natural gas industry may be the subject of even greater federal, state and local regulatory oversight. For example, in 2016, the Protecting our Infrastructure of Pipelines and Enhancing Safety Act (PIPES Act) was signed into law increasing regulations for natural gas storage pipelines and underground storage facilities and prioritizing the completion by the Pipeline and Hazardous Materials Safety Administration (PHMSA) of regulations related to the safety standards for natural gas transmission and gathering pipelines. Similarly, in 2016, California passed legislation directing the Department of Oil, Gas and Geothermal Resources (DOGGR) to develop regulations affecting gas storage operations. DOGGR has issued regulations which require certain integrity testing and tubing for wells at the Gill Ranch Facility within the next 7 years.

We intend to work diligently with industry associations and federal and state regulators to seek to ensure compliance with these and other new laws. We expect there to be increased costs associated with compliance, and those costs could be significant. If these costs are not recoverable in our customer rates, they could have a negative impact on NW Holdings' and NW Natural's operating costs and financial results.

HEDGING RISK. NW Natural's risk management policies and hedging activities cannot eliminate the risk of commodity price movements and other financial market risks, and its hedging activities may expose it to additional liabilities for which rate recovery may be disallowed, which could result in an adverse impact on NW Holdings' and NW Natural's operating revenues, costs, derivative assets and liabilities and operating cash flows.

NW Natural's gas purchasing requirements expose it to risks of commodity price movements, while its use of debt and equity financing exposes it to interest rate, liquidity and other financial market risks. NW Natural attempts to manage these exposures with both financial and physical hedging mechanisms, including its gas reserves transactions which are hedges backed by physical gas supplies. While NW Natural has risk management procedures for hedging in place, they may not always work as planned and cannot entirely eliminate the risks associated with hedging. Additionally, NW Natural's hedging activities may cause it to incur additional expenses to obtain the hedge. NW Natural does not hedge its entire interest rate or commodity cost exposure, and the unhedged exposure will vary over time. Gains or losses experienced through hedging activities, including carrying costs, generally flow through NW Natural's PGA mechanism or are recovered in future general rate cases. However, the hedge transactions NW Natural enters into for utility purposes are subject to a prudence review by the OPUC and WUTC, and, if found imprudent, those expenses may be, and have been previously, disallowed, which could have an adverse effect on NW Holdings' or NW Natural's financial condition and results of operations.

In addition, NW Natural's actual business requirements and available resources may vary from forecasts, which are used as the basis for its hedging decisions, and could cause its exposure to be more or less than anticipated. Moreover, if NW Natural's derivative instruments and hedging transactions do not qualify for regulatory deferral and it does not elect hedge accounting treatment under U.S. GAAP, NW Holdings' or NW Natural's results of operations and financial condition could be adversely affected.

NW Natural also has credit-related exposure to derivative counterparties. Counterparties owing NW Natural or its subsidiaries money or physical natural gas commodities could breach their obligations. Should the counterparties to these arrangements fail

to perform, NW Natural may be forced to enter into alternative arrangements to meet its normal business requirements. In that event, NW Holdings' or NW Natural's financial results could be adversely affected. Additionally, under most of NW Natural's hedging arrangements, any downgrade of its senior unsecured long-term debt credit rating could allow its counterparties to require NW Natural to post cash, a letter of credit or other form of collateral, which would expose NW Natural to additional costs and may trigger significant increases in borrowing from its credit facilities or equity contribution needs from NW Holdings, if the credit rating downgrade is below investment grade. Further, based on current interpretations, NW Natural is not considered a "swap dealer" or "major swap participant" in 2020, so NW Natural is exempt from certain requirements under the Dodd-Frank Act. If NW Natural is unable to claim this exemption, it could be subject to higher costs for its derivatives activities, and such higher costs could have a negative impact on NW Holdings' and NW Natural's operating costs and financial results.

INABILITY TO ACCESS CAPITAL MARKET RISK. NW Holdings' or NW Natural's inability to access capital, or significant increases in the cost of capital, could adversely affect NW Holdings' or NW Natural's financial condition and results of operations.

NW Holdings' and NW Natural's ability to obtain adequate and cost effective short-term and long-term financing depends on maintaining investment grade credit profiles as well as the existence of liquid and stable financial markets. NW Holdings relies on access to equity and bank markets to finance equity contributions to subsidiaries and other business requirements. NW Natural relies on access to capital and bank markets, including commercial paper and bond markets, to finance its operations, construction expenditures and other business requirements, and to refund maturing debt that cannot be funded entirely by internal cash flows. Disruptions in capital markets could adversely affect our ability to access short-term and long-term financing. Our access to funds under committed credit facilities, which are currently provided by a number of banks, is dependent on the ability of the participating banks to meet their funding commitments. Those banks may not be able to meet their funding commitments if they experience shortages of capital and liquidity. Disruptions in the bank or capital financing markets as a result of economic uncertainty, changing or increased regulation of the financial sector, or failure of major financial institutions could adversely affect NW Holdings' and NW Natural's access to capital and negatively impact our ability to run our businesses and make strategic investments.

NW Natural is currently rated by S&P and Moody's and a negative change in its credit ratings, particularly below investment grade, could adversely affect its cost of borrowing and access to sources of liquidity and capital.

Such a downgrade could further limit its access to borrowing under available credit lines. Additionally, downgrades in its current credit ratings below investment grade could cause additional delays in NW Natural's ability to access the capital markets while it seeks supplemental state regulatory approval, which could hamper its ability to access credit markets on a timely basis. NW Holdings' credit profile is largely supported by NW Natural's credit ratings and any negative change in NW Natural's credit ratings would likely negatively impact NW Holdings' access to sources of liquidity and capital and cost of borrowing. A credit downgrade to NW Natural, or resulting negative impact on NW Holdings, could also require additional support in the form of letters of credit, cash or other forms of collateral and otherwise adversely affect NW Holdings' or NW Natural's financial condition and results of operations.

REPUTATIONAL RISKS. Customers', legislators', and regulators' opinions of NW Holdings and NW Natural are affected by many factors, including system and fuel reliability and safety, protection of customer information, rates, media coverage, and public sentiment. To the extent that customers, legislators, or regulators have or develop a negative opinion of our businesses, NW Holdings' and NW Natural's financial position, results of operations and cash flows could be adversely affected.

A number of factors can affect customer's perception of us including: service interruptions or safety concerns due to failures of equipment or facilities or from other causes, and our ability to promptly respond to such failures; our ability to safeguard sensitive customer information; the timing and magnitude of rate increases; and volatility of rates. Customers', legislators', and regulators' opinions of us can also be affected by media coverage, including the proliferation of social media, which may include information, whether factual or not, that could damage the perception of natural gas, our brand, or our reputation.

Other concerns about the use of natural gas include the potential for natural gas explosions and the effect of natural gas on indoor air quality. For example, NW Natural's gas distribution system was struck by a third party resulting in a gas explosion in 2016, and while NW Natural was determined not to be at fault, the perception of natural gas as an energy source could have been affected. In addition, studies from time to time question the indoor health and general climate effects from burning natural gas, which may also impact public perception. These shifts in public sentiment may not only impact further legislative initiatives, but behaviors and perceptions of customers, investors and regulators.

If customers, legislators, or regulators have or develop a negative opinion of us and our services, or of natural gas as an energy source generally, this could make it more difficult for us to achieve favorable legislative or regulatory outcomes. Negative opinions could also result in sales volumes reductions or increased use of other sources of energy, or additional difficulties in accessing capital markets. Any of these consequences could adversely affect NW Holdings' or NW Natural's financial position, results of operations and cash flows.

RELIANCE ON TECHNOLOGY RISK. NW Holdings' and NW Natural's efforts to integrate, consolidate and streamline each of their operations has resulted in increased reliance on technology, the failure of which could adversely affect NW Holdings' or NW Natural's financial condition and results of operations.

NW Holdings and NW Natural have undertaken a variety of initiatives to integrate, standardize, centralize and streamline operations. These efforts have resulted in greater reliance on technological tools such as, at NW Natural: an enterprise resource planning system, a digital dispatch system, an automated meter reading system, a web-based ordering and tracking system, and other similar technological tools and initiatives. Our future success will depend, in part, on our ability to anticipate and adapt to technological changes in a cost-effective manner and to offer, on a timely basis, services that meet customer demands and evolving industry standards. New technologies may emerge that could be superior to, or may not be compatible with, some of our existing technologies, and may require us to make significant expenditures to remain competitive. We continue to implement technology to improve our business processes and customer interactions. In addition, our various existing information technology systems require periodic modifications, upgrades and/or replacement. For example, NW Natural intends to upgrade its SAP system and replace its customer information system in the near future.

There are various risks associated with these systems in addition to upgrades and replacements, including hardware and software failure, communications failure, data distortion or destruction, unauthorized access to data, misuse of proprietary or confidential data, unauthorized control through electronic means, programming mistakes and other inadvertent errors or deliberate human acts. In addition, we are dependent on a continuing flow of important components to maintain and upgrade our information technology systems. Our suppliers may face production or import delays due to natural disasters, strikes, lock-outs, political unrest or other such circumstances.

Any modifications, upgrades, system maintenance or replacements subject us to inherent costs and risks, including potential disruption of our internal control structure, substantial capital expenditures, additional administrative and operating expenses, retention of sufficiently skilled personnel to implement and operate the new systems, and other risks and costs of delays or difficulties in transitioning to new systems or of integrating new systems into our current systems. In addition, the difficulties with implementing new technology systems may cause disruptions in our business operations and have an adverse effect on our business and operations, if not anticipated and appropriately mitigated. There is also risk that we may not be able to recover all costs associated with projects to improve our technological capabilities, which may adversely affect NW Holdings' or NW Natural's financial condition and results of operations.

CYBERSECURITY RISK. NW Holdings' and NW Natural's status as an infrastructure services provider coupled with its reliance on technology could result in a security breach which could adversely affect NW Holdings' or NW Natural's financial condition and results of operations.

Although we take precautions to protect our technology systems and are not aware of any material security breaches to date, there is no guarantee that the procedures we have implemented to protect against unauthorized access to secured data and systems are adequate to safeguard against all security breaches or other cyber attacks. Additionally, the facilities and systems of clients, suppliers and third party service providers could be vulnerable to the same cyber risks as our facilities and systems, and such third party systems may be interconnected to our systems both physically and technologically. Therefore, an event caused by cyberattacks or other malicious act at an interconnected third party could impact our business and facilities similarly. As these potential cyber security attacks become more common and sophisticated, we could be required to incur costs to strengthen our systems or obtain specific insurance coverage against potential losses. Our businesses could experience breaches of security pertaining to sensitive customer, employee, and vendor information maintained by us in the normal course of business, which could adversely affect our reputation, diminish customer confidence, disrupt operations, materially increase the costs we incur to protect against these risks, and subject us to possible financial liability or increased regulation or litigation, any of which could adversely affect NW Holdings' or NW Natural's financial condition and results of operations.

REGULATORY ACCOUNTING RISK. In the future, NW Holdings or NW Natural may no longer meet the criteria for continued application of regulatory accounting practices for all or a portion of our regulated operations.

If we can no longer apply regulatory accounting, we could be required to write off our regulatory assets and precluded from the future deferral of costs not recovered through rates at the time such amounts are incurred, even if we are expected to recover these amounts from customers in the future.

GAS PRICE RISK. Higher natural gas commodity prices and volatility in the price of gas may adversely affect NW Natural's NGD business, whereas lower gas price volatility may adversely affect NW Natural's and NW Holdings' gas storage business, in each case negatively affecting NW Holdings' and NW Natural's results of operations and cash flows.

The cost of natural gas is affected by a variety of factors, including weather, changes in demand, the level of production and availability of natural gas supplies, transportation constraints, availability and cost of pipeline capacity, federal and state energy and environmental regulation and legislation, natural disasters and other catastrophic events, national and worldwide economic and political conditions, and the price and availability of alternative fuels. At NW Natural, the cost we pay for natural gas is generally passed through to customers through an annual PGA rate adjustment. If gas prices were to increase significantly, it would raise the cost of energy to NW Natural's customers, potentially causing those customers to conserve or switch to alternate

sources of energy. Significant price increases could also cause new home builders and commercial developers to select alternative energy sources. Decreases in the volume of gas NW Natural sells could reduce NW Holdings or NW Natural's earnings, and a decline in customers could slow growth in future earnings. Additionally, because a portion (10% or 20%) of any difference between the estimated average PGA gas cost in rates and the actual average gas cost incurred is recognized as current income or expense, higher average gas costs than those assumed in setting rates can adversely affect NW Holdings' and NW Natural's operating cash flows, liquidity and results of operations. Additionally, notwithstanding NW Natural's current rate structure, higher gas costs could result in increased pressure on the OPUC or the WUTC to seek other means to reduce NW Natural's rates, which also could adversely affect NW Holdings' and NW Natural's results of operations and cash flows.

Higher gas prices may also cause NW Natural to experience an increase in short-term debt and temporarily reduce liquidity because it pays suppliers for gas when it is purchased, which can be in advance of when these costs are recovered through rates. Significant increases in the price of gas can also slow collection efforts as customers experience increased difficulty in paying their higher energy bills, leading to higher than normal delinquent accounts receivable resulting in greater expense associated with collection efforts and increased bad debt expense.

Conversely, storage businesses benefit from price volatility, which impacts the level of demand for services and the rates that can be charged for storage services. Largely due to the abundant supply of natural gas made available by hydraulic fracturing techniques, natural gas prices have dropped significantly to levels that are near historic lows. If prices and volatility remain low or decline further, then the demand for storage services, and the prices that we will be able to charge for those services, may decline or be depressed for a prolonged period of time. Prices below the costs to operate a storage facility could result in a decision to shut-in all or a portion of the facility. A sustained decline in these prices or a shut-in of all or a portion of the facility could have an adverse impact on NW Holdings' or NW Natural's financial condition, results of operations and cash flows.

IMPAIRMENT OF LONG-LIVED ASSETS OR GOODWILL RISK. Impairments of the value of long-lived assets or goodwill could have a material effect on NW Holdings' or NW Natural's financial condition, or results of operations.

NW Holdings and NW Natural review the carrying value of long-lived assets whenever events or changes in circumstances indicate the carrying amount of the assets might not be recoverable. The determination of recoverability is based on the undiscounted net cash flows expected to result from the operation of such assets. Projected cash flows depend on the future operating costs and projected revenues associated with the asset. In 2017, NW Natural recognized a \$192.5 million impairment of long-lived assets at the Gill Ranch Facility as of December 31, 2017. We review our other long-lived assets to determine if an impairment analysis is necessary.

We review the carrying value of goodwill annually or whenever events or changes in circumstances indicate that such carrying value may not be recoverable. A goodwill impairment analysis begins with a qualitative analysis of events and circumstances. If the qualitative assessment indicates that the carrying value may be at risk, we will perform a quantitative assessment and recognize a goodwill impairment for any amount in which the fair value of a reporting unit exceeds its fair value. NW Holdings' total goodwill was \$49.9 million as of December 31, 2019 and \$9.0 million as of December 31, 2018. The increase in the goodwill balance was due to additions associated with acquisitions in the water sector. All of our goodwill is related to water and wastewater acquisitions. There have been no impairments recognized for the water and wastewater acquisitions to date. Any impairment charge taken with respect to our long-lived assets or goodwill could be material and could have a material effect on NW Holdings' or NW Natural's financial condition and results of operations.

CUSTOMER GROWTH RISK. NW Holdings' and NW Natural's NGD margin, earnings and cash flow may be negatively affected if we are unable to sustain customer growth rates in our NGD segment.

NW Natural's NGD margins and earnings growth have largely depended upon the sustained growth of its residential and commercial customer base due, in part, to the new construction housing market, conversions of customers to natural gas from other energy sources and growing commercial use of natural gas. The last recession slowed new construction. While new home construction has resumed and the multi-family composition has been higher than its pre-recession pace, overall construction has not returned to the pre-recession pace, and there are predictions of an impending new recessionary cycle. Insufficient growth in these markets, for economic, political or other reasons could adversely affect NW Holdings' or NW Natural's utility margin, earnings and cash flows.

RISK OF COMPETITION. Our NGD business is subject to increased competition which could negatively affect NW Holdings' or NW Natural's results of operations.

In the residential and commercial markets, NW Natural's NGD business competes primarily with suppliers of electricity, fuel oil, and propane. In the industrial market, NW Natural competes with suppliers of all forms of energy. Competition among these forms of energy is based on price, efficiency, reliability, performance, market conditions, technology, environmental impacts and public perception. Technological improvements in other energy sources such as heat pumps, batteries or other alternative technologies could erode NW Natural's competitive advantage. If natural gas prices rise relative to other energy sources, or if the cost, environmental impact or public perception of such other energy sources improves relative to natural gas, it may negatively affect NW Natural's ability to attract new customers or retain our existing residential, commercial and industrial customers, which could have a negative impact on our customer growth rate and NW Holdings' and NW Natural's results of operations.

Our natural gas storage operations compete primarily with other storage facilities and pipelines. Natural gas storage is an increasingly competitive business, with the ability to expand or build new storage capacity in California, the U.S. Rocky Mountains and elsewhere in the U.S. and Canada. Increased competition in the natural gas storage business could reduce the demand for our natural gas storage services, drive prices down for our storage business, and adversely affect our ability to renew or replace existing contracts at rates sufficient to maintain current revenues and cash flows, which could adversely affect NW Holdings' and NW Natural's financial condition, results of operations and cash flows.

RELIANCE ON THIRD PARTIES TO SUPPLY NATURAL GAS RISK. *NW Natural relies on third parties to supply the natural gas in its NGD segment, and limitations on NW Natural's ability to obtain supplies, or failure to receive expected supplies for which it has contracted, could have an adverse impact on NW Holdings' or NW Natural's financial results.*

NW Natural's ability to secure natural gas for current and future sales depends upon its ability to purchase and receive delivery of supplies of natural gas from third parties. NW Natural, and in some cases, its suppliers of natural gas, does not have control over the availability of natural gas supplies, competition for those supplies, disruptions in those supplies, priority allocations on transmission pipelines, or pricing of those supplies. Additionally, third parties on whom NW Natural relies may fail to deliver gas for which it has contracted. For example, in October, 2018, a 36-inch pipeline near Prince George, British Columbia owned by Enbridge ruptured, disrupting natural gas flows from Canada into Washington while the ruptured pipeline and an adjacent pipeline were assessed and the ruptured pipeline was repaired. Once repaired, pressurization levels for those pipelines were reduced for a significant period of time for assessment and testing. If NW Natural is unable or limited in its ability to obtain natural gas from its current suppliers or new sources, it may not be able to meet customers' gas requirements and would likely incur costs associated with actions necessary to mitigate service disruptions, both of which could significantly and negatively impact NW Holdings' and NW Natural's results of operations.

SINGLE TRANSPORTATION PIPELINE RISK. NW Natural relies on a single pipeline company for the transportation of gas to its service territory, a disruption of which could adversely impact its ability to meet customers' gas requirements, which could significantly and negatively impact NW Holdings' and NW Natural's results of operations.

NW Natural's distribution system is directly connected to a single interstate pipeline, which is owned and operated by Northwest Pipeline. The pipeline's gas flows are bi-directional, transporting gas into the Portland metropolitan market from two directions: (1) the north, which brings supplies from the British Columbia and Alberta supply basins; and (2) the east, which brings supplies from the Alberta and the U.S. Rocky Mountain supply basins. If there is a rupture or inadequate capacity in, or supplies to maintain adequate pressures in, the pipeline, NW Natural may not be able to meet its customers' gas requirements and we would likely incur costs associated with actions necessary to mitigate service disruptions, both of which could significantly and negatively impact NW Holdings' and NW Natural's results of operations.

THIRD PARTY PIPELINE RISK. NW Holdings' and NW Natural's gas storage businesses depend on third-party pipelines that connect our storage facilities to interstate pipelines, the failure or unavailability of which could adversely affect NW Holdings' or NW Natural's financial condition, results of operations and cash flows.

Our gas storage facilities are reliant on the continued operation of a third-party pipeline and other facilities that provide delivery options to and from our storage facilities. Because we do not own all of these pipelines, their operations are not within our control. If the third-party pipeline to which we are connected were to become unavailable for current or future withdrawals or injections of natural gas due to repairs, damage to the infrastructure, lack of capacity or other reasons, our ability to operate efficiently and satisfy our customers' needs could be compromised, thereby potentially having an adverse impact on NW Holdings' or NW Natural's financial condition, results of operations and cash flows.

WEATHER RISK. Warmer than average weather may have a negative impact on our revenues and results of operations.

We are exposed to weather risk in our natural gas business, primarily at NW Natural. A majority of NW Natural's gas volume is driven by gas sales to space heating residential and commercial customers during the winter heating season. Current NW Natural rates are based on an assumption of average weather. Warmer than average weather typically results in lower gas sales. Colder weather typically results in higher gas sales. Although the effects of warmer or colder weather on utility margin in Oregon are expected to be mitigated through the operation of NW Natural's weather normalization mechanism, weather variations from normal could adversely affect utility margin because NW Natural may be required to purchase more or less gas at spot rates, which may be higher or lower than the rates assumed in its PGA. Also, a portion of NW Natural's Oregon residential and commercial customers (usually less than 10%) have opted out of the weather normalization mechanism, and approximately 11% of its customers are located in Washington where it does not have a weather normalization mechanism. These effects could have an adverse effect on NW Holdings' and NW Natural's financial condition, results of operations and cash flows.

CUSTOMER CONSERVATION RISK. Customers' conservation efforts may have a negative impact on NW Holdings' and NW Natural's revenues.

An increasing national focus on energy conservation, including improved building practices and appliance efficiencies may result in increased energy conservation by customers. This can decrease NW Natural's sales of natural gas and adversely affect NW Holdings' or NW Natural's results of operations because revenues are collected mostly through volumetric rates, based on the amount of gas sold. In Oregon, NW Natural has a conservation tariff which is designed to recover lost utility margin due to declines in residential and small commercial customers' consumption. However, NW Natural does not have a conservation tariff in Washington that provides it this margin protection on sales to customers in that state. Similar conservation risks exist for water utilities. Customers' conservation efforts may have a negative impact on NW Holdings' and NW Natural's financial condition, revenues and results of operations.

Risks Related Primarily to NW Holdings' Water Sector Businesses

NEW WATER SECTOR BUSINESS. NW Holdings has entered the water sector through the acquisition of a number of water and wastewater companies. Water and wastewater businesses are subject to a number of risks in addition to the risks described above.

Although the water businesses are not currently expected to materially contribute to the results of operations of NW Holdings, these businesses are subject to risks, in addition to those described above that could adversely affect their results of operations, including:

- contamination of water supplies, including water provided to customers with naturally occurring or human-made substances or other hazardous materials;
- interruptions in water supplies and droughts;
- conservation efforts by customers;
- regulatory requirements; and
- weather conditions.

Significant losses, liabilities or impairments arising from these businesses may adversely affect NW Holdings' financial position or results of operations.

INVESTMENT RISK. NW Holdings' expectations with respect to the financial results of its investments in water operations are based on various assumptions and beliefs that may not prove accurate, resulting in failures or delays in achieving expected returns or performance.

NW Holdings' expansion into the water sector is an important component of its growth strategy. Although NW Holdings expects its water and wastewater utility operations will result in various benefits, including expanding customer bases, providing investment opportunities through infrastructure development and enhancing regulatory relationships within the local communities served, NW Holdings may not be able to realize these or other benefits. Achieving the anticipated benefits is subject to a number of uncertainties, including whether the businesses acquired can be operated in the manner intended and whether costs to finance the acquisitions and investments will be consistent with expectations. Events outside of our control, including but not limited to regulatory changes or developments, could adversely affect our ability to realize the anticipated benefits from building NW Holdings' water platform. The integration of newly acquired water businesses may be unpredictable, subject to delays or changed circumstances, and such businesses may not perform in accordance with our expectations. In addition, anticipated costs, level of management's attention and internal resources to achieve the integration of the acquired businesses may differ significantly from our current estimates resulting in failures or delays in achieving expected returns or performance. If NW Holdings' expectations regarding the financial results of its investments in water operations prove to be inaccurate, it may adversely affect NW Holdings' financial position or results of operations.

ITEM 1B. UNRESOLVED STAFF COMMENTS

We have no unresolved staff comments.

ITEM 2. PROPERTIES

NW Natural's Natural Gas Distribution Properties

NW Natural's natural gas pipeline system consists of approximately 14,000 miles of distribution and transmission mains and approximately 10,000 miles of service lines located in its territory in Oregon and southwest Washington. In addition, the pipeline system includes service pipelines, meters and regulators, and gas regulating and metering stations. Natural gas pipeline mains are located in municipal streets or alleys pursuant to franchise or occupation ordinances, in county roads or state highways pursuant to agreements or permits granted pursuant to statute, or on lands of others pursuant to easements obtained from the owners of such lands. NW Natural also holds permits for the crossing of numerous navigable waterways and smaller tributaries throughout our entire service territory.

NW Natural owns service building facilities in Portland, Oregon, as well as various satellite service centers, garages, warehouses, and other buildings necessary and useful in the conduct of its business. Resource centers are maintained on owned or leased premises at convenient points in the distribution system to provide service within NW Natural's service territory. NW Natural also owns LNG storage facilities in Portland and near Newport, Oregon.

NW Natural also leases office space in Portland for its corporate operations center, which expires on May 31, 2020. In anticipation of the expiration of the current lease, NW Natural executed an extensive search and evaluation process that focused on seismic preparedness, safety, reliability, the least cost to our customers, and a continued commitment to our employees and the communities we serve. In October 2017, NW Natural entered into a 20-year lease agreement for a new corporate operations center in Portland. NW Natural expects to begin operations at the location in March 2020.

NW Natural's Mortgage and Deed of Trust (Mortgage) is a first mortgage lien on substantially all of the property constituting NW Natural's natural gas distribution plant balances.

These properties are used in the NGD segment.

NW Natural's Natural Gas Storage Properties

NW Natural holds leases and other property interests in approximately 12,000 net acres of underground natural gas storage in Oregon and easements and other property interests related to pipelines associated with these facilities. NW Natural owns rights to depleted gas reservoirs near Mist, Oregon that are continuing to be developed and operated as underground gas storage facilities. NW Natural also holds all future storage rights in certain other areas of the Mist gas field in Oregon in addition to other leases and property interests.

A portion of these properties are used in the NGD segment.

NWN Water's Distribution Properties

NWN Water owns and maintains water pipelines and wastewater treatment facilities, and holds related leases and other property interests in Oregon, Washington, and Idaho, associated with water entities that were acquired during 2018 and 2019. Pipelines are located in municipal streets or alleys pursuant to franchise or occupation ordinances, in county roads or state highways pursuant to agreements or permits granted pursuant to statute, or on lands of others pursuant to easements obtained from the owners of such lands. These properties are used by entities that are aggregated and reported as other under NW Holdings.

We consider all of our properties currently used in our operations, both owned and leased, to be well maintained, in good operating condition, and, along with planned additions, adequate for our present and foreseeable future needs.

ITEM 3. LEGAL PROCEEDINGS

Other than the proceedings disclosed in Note 18, we have only nonmaterial litigation in the ordinary course of business.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

PART II

ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

NW Holdings' common stock is listed and trades on the New York Stock Exchange under the symbol NWN.

There is no established public trading market for NW Natural's common stock.

As of February 24, 2020, there were 4,739 holders of record of NW Holdings' common stock and NW Holdings was the sole holder of NW Natural's common stock.

The following table provides information about purchases of NW Holdings' equity securities that are registered pursuant to Section 12 of the Securities Exchange Act of 1934, as amended, during the quarter ended December 31, 2019:

Issuer Purchases of Equity Securities

Period	Total Number of Shares Purchased ⁽¹⁾	Average Price Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs ⁽²⁾	Maximum Dollar Value of Shares that May Yet Be Purchased Under the Plans or Programs ⁽²⁾			
Balance forward			2,124,528	\$ 16,732,648			
10/01/19-10/31/19	—	\$ —	—	—			
11/01/19-11/30/19	637	65.40	—	_			
12/01/19-12/31/19	—	—	—	_			
Total	637		2,124,528	\$ 16,732,648			

⁽¹⁾ During the quarter ended December 31, 2019, no shares of NW Holdings common stock were purchased on the open market to meet the requirements of our Dividend Reinvestment and Direct Stock Purchase Plan. However, 637 shares of NW Holdings common stock were purchased on the open market to meet the requirements of share-based compensation programs. During the quarter ended December 31, 2019, no shares of NW Holdings common stock were accepted as payment for stock option exercises pursuant to the NW Natural Restated Stock Option Plan.

(2) During the quarter ended December 31, 2019, no shares of NW Holdings common stock were repurchased pursuant to the NW Holdings Board of Directors-approved share repurchase program. In May 2019, we received NW Holdings Board of Directors approval to extend the repurchase program through May 2022. For more information on this program, see Note 5.

NORTHWEST NATURAL HOLDING COMPANY SELECTED FINANCIAL DATA

	For the year ended December 31,									
In thousands, except per share data	_	2019		2018		2017		2016		2015
Operating revenues	\$	746,372	\$	706,143	\$	755,038	\$	668,173	\$	717,888
Earnings from continuing operations		65,311		67,311		72,073		62,419		60,026
Loss from discontinued operations, net of tax		(3,576)		(2,742)		(127,696)		(3,524)		(6,323)
Net income (loss)		61,735		64,569		(55,623)		58,895		53,703
Earnings from continuing operations per share of common stock:										
Basic	\$	2.19	\$	2.34	\$	2.51	\$	2.26	\$	2.19
Diluted		2.19		2.33		2.51		2.25		2.19
Loss from discontinued operations per share of common stock:										
Basic	\$	(0.12)	\$	(0.10)	\$	(4.45)	\$	(0.13)	\$	(0.23)
Diluted		(0.12)		(0.09)		(4.44)		(0.13)		(0.23)
Earnings (loss) per share of common stock:										
Basic	\$	2.07	\$	2.24	\$	(1.94)	\$	2.13	\$	1.96
Diluted		2.07		2.24		(1.93)		2.12		1.96
Dividends paid per share of common stock		1.90		1.89		1.88		1.87		1.86
Total assets, end of period	\$	3,428,454	\$	3,242,662	\$	3,039,746	\$	3,079,801	\$	3,069,410
Total equity		865,999		762,634		742,776		850,497		780,972
Long-term debt		805,955		706,247		683,184		679,334		569,445

NORTHWEST NATURAL GAS COMPANY SELECTED FINANCIAL DATA

	For the year ended December 31,									
In thousands, except per share data	2019		2018		2017		2016			2015
Operating revenues	\$	739,944	\$	705,571	\$	755,038	\$	667,949	\$	717,664
Earnings from continuing operations		68,974		68,049		71,720		62,835		60,511
Loss from discontinued operations, net of tax		_		(1,723)		(127,343)		(3,940)		(6,808)
Net income (loss)		68,974		66,326		(55,623)		58,895		53,703
Total assets, end of period	\$	3,321,487	\$	3,192,736	\$	3,043,676	\$	3,081,470	\$	3,072,100
Total equity		822,196		715,668		742,776		850,497		780,972
Long-term debt		769,081		704,134		683,184		679,334		569,445

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following is management's assessment of NW Holdings' and NW Natural's financial condition, including the principal factors that affect results of operations. The discussion covers the years ended December 31, 2019, 2018, and 2017 and refers to the consolidated results of NW Holdings, the substantial majority of which consist of the operating results of NW Natural. When significant activity exists at NW Holdings that does not exist at NW Natural, additional disclosure has been provided. References in this discussion to "Notes" are to the Notes to the Consolidated Financial Statements in Item 8 of this report.

NW Holdings' direct and indirect wholly-owned subsidiaries include:

- Northwest Natural Gas Company (NW Natural);
 - Northwest Energy Corporation (Energy Corp);
 - NWN Gas Reserves LLC (NWN Gas Reserves);
 - NW Natural Energy, LLC (NWN Energy);
 - NW Natural Gas Storage, LLC (NWN Gas Storage);
 - Gill Ranch Storage, LLC (Gill Ranch), which is presented as a discontinued operation;
 - NNG Financial Corporation (NNG Financial);
 - KB Pipeline Company (KB);

i0

- NW Natural Water Company, LLC (NWN Water);
 - Falls Water Co., Inc. (Falls Water);
 - Salmon Valley Water Company;
 - NW Natural Water of Oregon, LLC (NWN Water of Oregon);
 - Sunstone Water, LLC;
 - Sunstone Infrastructure, LLC;
 - Sunriver Water, LLC (Sunriver Water);
 - Sunriver Environmental, LLC (Sunriver Environmental)
 - NW Natural Water of Washington, LLC (NWN Water of Washington);
 - Cascadia Water, LLC (Cascadia Water);
 - Cascadia Infrastructure, LLC;
 - Suncadia Water Company, LLC (Suncadia Water);
 - Suncadia Environmental Company, LLC (Suncadia Environmental);
 - NW Natural Water of Idaho, LLC (NWN Water of Idaho);
 - Gem State Water Company, LLC (Gem State Water);
 - Gem State Infrastructure, LLC; and
 - NW Natural Water of Texas, LLC (NWN Water of Texas);
 - Blue Topaz Water, LLC; and
 - Blue Topaz Infrastructure, LLC.

On October 1, 2018, we completed a reorganization into a holding company structure. We believe that our holding company structure is an agile and efficient platform from which to pursue, finance, and oversee new opportunities, such as in the water sector, while also providing legal separation between regulated natural gas distribution operations and other businesses. In this reorganization, shareholders of NW Natural (the predecessor publicly held parent company) became shareholders of NW Holdings, on a one-for-one basis, with the same number of shares and same ownership percentage as they held in NW Natural immediately prior to the reorganization. NW Natural became a wholly-owned subsidiary of NW Holdings. Additionally, certain subsidiaries of NW Natural were transferred to NW Holdings. As required under accounting guidance, these subsidiaries are presented as discontinued operations in the 2018 and 2017 consolidated results of NW Natural within this report.

NW Natural's natural gas distribution activities are reported in the natural gas distribution (NGD) segment. The NGD segment also includes NWN Gas Reserves, which is a wholly-owned subsidiary of Energy Corp, and the NGD-portion of NW Natural's Mist storage facility in Oregon. Other activities aggregated and reported as other at NW Natural include the non-NGD storage activity at Mist as well as asset management services and the appliance retail center operations. Other activities aggregated and reported as other at NW Holding, LLC (TWH), which is pursuing the development of a proposed natural gas pipeline through its wholly-owned subsidiary, Trail West Pipeline, LLC (TWP); NNG Financial's investment in Kelso-Beaver Pipeline (KB Pipeline); and NWN Water, which owns and continues to pursue investments in the water sector. See Note 4 for further discussion of our business segment and other, as well as our direct and indirect wholly-owned subsidiaries.

In addition, NW Holdings has reported discontinued operations results related to the pending sale of Gill Ranch Storage, LLC (Gill Ranch). NW Natural Gas Storage, LLC (NWN Gas Storage), currently an indirect wholly-owned subsidiary of NW Holdings, entered into a Purchase and Sale Agreement during the second quarter of 2018 that provides for the sale of all membership interests in Gill Ranch. Gill Ranch owns a 75% interest in the natural gas storage facility located near Fresno, California known as the Gill Ranch Gas Storage Facility. Pacific Gas and Electric Company (PG&E) owns the remaining 25% interest in the Gill Ranch Gas Storage Facility. For more information, see "Results of Operations - *Pending Sale of Gill Ranch Storage*" below.

NON-GAAP FINANCIAL MEASURES. In addition to presenting the results of operations and earnings amounts in total, certain financial measures are expressed in cents per share or exclude the effects of certain items, which are non-GAAP financial measures. We present net income or loss and earnings or loss per share adjusted for certain items along with the U.S. GAAP financial measures to illustrate their magnitude on ongoing business and operational results. Although the excluded amounts are properly included in the determination of net income or loss and earnings or loss per share under U.S. GAAP, we believe the amount and nature of these items make period to period comparisons of operations difficult or potentially confusing. We use such non-GAAP financial measures to analyze our financial performance because we believe they provide useful information to our investors and creditors in evaluating our financial condition and results of operations. Our non-GAAP financial measures should not be considered a substitute for, or superior to, measures calculated in accordance with U.S. GAAP. Reconciliations of the non-GAAP financial measures to their closest U.S. GAAP financial measure used in subsequent sections of Item 7 are provided below.

NW HOLDINGS NON-GAAP RECONCILIATIONS

			2018				2017					
		20	019			20)18			20)17	
			_	Per				Per				Per
In millions, except per share data		mount		Share		mount		hare		mount		Share
Net income from continuing operations	\$	65.3	\$	2.19	\$	67.3	\$	2.33	\$	72.1	\$	2.51
Adjustment:												
Tax effects of 2017 TCJA remeasurement ⁽¹⁾				_						(3.4)		(0.12)
Adjusted net income from continuing operations	\$	65.3	\$	2.19	\$	67.3	\$	2.33	\$	68.7	\$	2.39
NGD segment net income from continuing operations	\$	60.8	\$	2.04	\$	57.5	\$	1.99	\$	60.5	\$	2.10
Adjustment:												
Tax effects of 2017 TCJA remeasurement ⁽¹⁾		_		_		_		_		1.0		0.03
Adjusted NGD segment net income from continuing												
operations	\$	60.8	\$	2.04	\$	57.5	\$	1.99	\$	61.5	\$	2.13
Other net income from continuing operations	\$	4.5	\$	0.15	\$	9.8	\$	0.34	\$	11.6	\$	0.41
Adjustment:												
Tax effects of 2017 TCJA remeasurement ⁽¹⁾		_		_		_		_		(4.4)		(0.15)
Adjusted other net income from continuing operations	\$	4.5	\$	0.15	\$	9.8	\$	0.34	\$	7.2	\$	0.26
NW NATURAL NON-GAAP RECONCILIATIONS												
		2	019			2	018			20)17	
In millions		Am	noun	t	Amount				Amount			
Net income from continuing operations	\$			69.0	\$			68.0	\$			71.7
Adjustment:												
Tax effects of 2017 TCJA remeasurement ⁽¹⁾								_				(3.0)
Adjusted net income from continuing operations	\$			69.0	\$			68.0	\$			68.7
·	<u> </u>				·				· —			
NGD segment net income from continuing operations	\$			60.8	\$			57.5	\$			60.5
Adjustment:	Ŧ				Ŧ				Ŧ			
Tax effects of 2017 TCJA remeasurement ⁽¹⁾				_				_				1.0
Adjusted NGD segment net income from continuing									· —			
operations	\$			60.8	\$			57.5	\$			61.5
Other net income from continuing operations	\$			8.1	\$			10.6	\$			11.2
Adjustment:												
Tax effects of 2017 TCJA remeasurement ⁽¹⁾	_			_				_				(4.0)
Adjusted other net income from continuing operations	\$			8.1	\$			10.6	\$			7.2
Note: Totals may not fact due to rounding												

Note: Totals may not foot due to rounding.

⁽¹⁾ Non-cash TCJA benefit (expense) associated with continuing operations of \$3.4 million was recorded in income tax expense (benefit) in the fourth quarter of 2017 as a result of the federal tax rate changing from 35% to 21% effective December 22, 2017. The majority of this benefit was recorded at NW Natural. NW Holdings EPS amounts are calculated using diluted shares of 28.8 million as shown on the NW Holdings Consolidated Statements of Comprehensive Income. The TCJA impacts in the NGD segment and other may not correlate exactly to the consolidated amount due to rounding. See Note 11 for additional information on the TCJA.

We manage our business and strategic initiatives with a long-term view of providing service safely and reliably to our customers, working with regulators on key policy initiatives, and remaining focused on growing our businesses. See "2020 Outlook" below for more information. Highlights for the year include:

- added nearly 12,500 natural gas customers in 2019 for an annual growth rate of 1.7% at December 31, 2019;
- invested \$219.9 million in NGD's infrastructure and facilities for growth, reliability, and technology upgrades;
- completed construction of the North Mist gas storage facility and commenced storage services in May 2019;
- scored first in the nation among large gas utilities in the 2019 J.D. Power Gas Utility Residential Customer Satisfaction Study;
- concluded the Washington general rate case with a \$5.1 million increase in revenue requirement;
- filed a general rate case in Oregon requesting a \$71.4 million revenue requirement increase;
- continued acquiring water utilities, closing the largest transaction to date with the purchase of the water and wastewater utilities in Sunriver, Oregon in May 2019; and
- delivered increasing dividends for the 64th consecutive year to shareholders.

Key financial highlights for NW Holdings include:

		2019			2018					2017			
In millions, except per share data	A	mount	Pe	r Share	Α	mount	Pe	er Share	A	mount	Per	Share	
Net income from continuing operations	\$	65.3	\$	2.19	\$	67.3	\$	2.33	\$	72.1	\$	2.51	
Loss from discontinued operations, net of tax		(3.6))	(0.12)		(2.7))	(0.09)		(127.7)		(4.44)	
Consolidated net income (loss)	\$	61.7	\$	2.07	\$	64.6	\$	2.24	\$	(55.6)	\$	(1.93)	
Adjusted net income from continuing operations ⁽¹⁾		65.3		2.19		67.3		2.33		68.7		2.39	
Natural gas distribution margin		422.7				383.7				392.6			

Key financial highlights for NW Natural include:

In millions, except per share data		2019	2018			2017
		Amount		Amount		Amount
Net income from continuing operations	\$	69.0	\$	68.0	\$	71.7
Loss from discontinued operations, net of tax		—		(1.7)		(127.3)
Consolidated net income (loss)	\$	69.0	\$	66.3	\$	(55.6)
Adjusted net income from continuing operations ⁽¹⁾		69.0		68.0		68.7

⁽¹⁾ See the Non-GAAP Reconciliations table at the beginning of Item 7 for a reconciliation of this non-GAAP financial measure to its closest U.S. GAAP financial measure.

2019 COMPARED TO 2018. NW Holdings' net income from continuing operations decreased \$2.0 million and NW Natural's net income from continuing operations increased \$1.0 million.

In March 2019, the OPUC issued an order resolving the remaining open items from NW Natural's 2018 Oregon general rate case regarding recovery of the pension balancing account and treatment of the benefits associated with the TCJA. As a result of the order, in the first quarter of 2019, NW Natural recorded a disallowance and several benefits and expenses through the consolidated statements of comprehensive income as follows:

Pension balancing account. Approximately \$12.5 million in previously deferred pension expenses were recognized of which approximately \$4.6 million was recorded in operations and maintenance expense and \$7.9 million was recorded in other income (expense), net. These charges were offset with a corresponding increase in revenue of \$7.1 million and in income tax benefits of \$2.7 million as the order required the offset of certain deferred TCJA benefits against the pension balancing account. Additional TCJA income tax benefits were realized throughout 2019 to offset the remainder of the \$12.5 million charge.

NW Natural also recognized a regulatory pension disallowance of \$10.5 million with approximately \$3.9 million recognized in operations and maintenance expense and \$6.6 million recognized in other income (expense), net, partially offset by related discrete income tax benefits of \$1.1 million. Lastly, NW Natural realized \$3.8 million of deferred regulatory interest accrued on the pension balancing account.

Deferred TCJA benefits and timing variance. In addition, the OPUC ordered the return of approximately \$6.3 million of excess deferred income taxes associated with plant and gas reserves annually beginning April 1, 2019. As a result, NW Natural recognized approximately \$2.0 million in income tax benefits in the first quarter of 2019. Reductions to customer billings commenced April 1, 2019 and offset these income tax benefits in total by the end of 2019. NW Natural will continue reductions to customer billings and recognition of deferred income tax benefits in subsequent years until all benefits have been returned.

The increase of \$1.0 million at NW Natural was primarily due to the following factors:

- a \$39.0 million increase in NGD segment margin driven by new customer rates from the 2018 Oregon rate case and 2019 Washington rate case, customer growth, and lease revenue from the North Mist storage facility; the remaining increase primarily relates to \$7.1 million in revenues which were offset by pension expenses due to the OPUC order as discussed above;
- a \$9.4 million decrease in NGD segment income tax expense primarily due to the income tax implications of the March 2019 OPUC order, of which \$5.4 million was offset by pension expenses as discussed above, with the remainder driven by the return of deferred TCJA benefit credits to customers and lower pretax income in the current period compared to the prior period; and
- a \$5.8 million increase in deferred regulatory interest income in other income (expense), net, of which \$5.1 million relates to interest recognized in association with the OPUC order discussed above; offset by
- a \$34.4 million increase in pension costs within operations and maintenance expense and other income (expense), net, of which \$12.5 million relates to costs which were entirely offset by revenues and income tax benefits as discussed above, and \$10.5 million relates to the regulatory pension disallowance discussed above. In addition, there was an \$11.4 million increase in pension expenses as NW Natural began collecting ongoing pension costs through customer rates on November 1, 2018 and began collecting deferred pension costs through customer rates on April 1, 2019 rather than deferring a portion to the balancing account;
- a \$5.4 million increase in depreciation and amortization primarily due to additional capital expenditures;
- a \$5.4 million decrease in non-NGD segment operating revenues due to lower asset management revenues and increased asset management revenue sharing with Oregon customers as a result of the 2018 Oregon rate case;
- a \$4.6 million increase in NGD segment interest expense due to higher interest on long- and short-term debt balances; and
- a \$2.9 million increase in NGD segment operations and maintenance expenses primarily attributable to annual employee cost increases.

The decrease of \$2.0 million at NW Holdings was primarily driven by increases in professional service costs and expenses associated with developing the water business, partially offset by the increase of \$1.0 million at NW Natural.

2018 COMPARED TO 2017. NW Holdings' and NW Natural's net income from continuing operations were \$67.3 million and \$68.0 million, respectively, in 2018 compared to \$72.1 million and \$71.7 million, respectively, in 2017. The decrease was primarily due to the benefit associated with the TCJA deferred income tax remeasurement in 2017.

Excluding the benefit in 2017 associated with the TCJA remeasurement, NW Holdings adjusted net income from continuing operations decreased \$1.4 million. See the Non-GAAP reconciliations at the beginning of Item 7 for additional information. The decrease was primarily due to the following factors, all of which were driven by activity at NW Natural:

- an \$8.9 million decrease in NGD segment margin primarily due to the deferral of excess revenue associated with the federal income tax rate decrease as a result of the TCJA;
- a \$4.3 million increase in operations and maintenance expense driven by general payroll and benefits increases as well as increases in professional services and contract labor;
- a \$4.1 million increase in depreciation and amortization primarily due to additional capital expenditures; and
- a \$3.3 million decrease in other income (expense), net, primarily due to an increase in pension and postretirement benefit expense, partially offset by an increase in the equity portion of AFUDC; partially offset by
- a \$20.2 million decrease in income tax expense due to the decrease in the federal income tax rate as a result of the TCJA and lower pretax earnings.

We expect to make significant progress on our long-term objectives in the coming year. Our natural gas distribution business is focused on providing safe, reliable, and affordable energy in an environmentally responsible way to better the lives of the public we serve. Our water and wastewater utility business is committed to reliably providing clean water and safe wastewater services to the public, while also continuing to grow organically and through acquisitions.

In 2020, we remain focused on the strategic pillars of our business:

- Ensuring safe & reliable service;
- Providing superior customer service;
- Advancing constructive legislative policies and regulation;
- Enabling customer growth; and
- Leading in a low-carbon future.

ENSURING SAFE AND RELIABLE SERVICE. Delivering our products safely and reliably to customers is our first priority. At NW Natural, we remain focused on safety and emergency response through hands-on, scenario-based training for employees, third-party contractors, and first responders. The reliability, resiliency and safety of our gas system is critical and to this end, we remain focused on investing in necessary upgrades and replacing key system components. Safety for our gas infrastructure also includes maintaining and strengthening our cybersecurity defenses, upgrading key technology systems over the next several years, and preparing for large-scale emergency events, such as seismic hazards. Our water and wastewater utilities are focused on enhancing their capital expenditure plans to ensure continued safe and reliable service to customers and allow us to readily prioritize capital investments.

PROVIDING SUPERIOR CUSTOMER EXPERIENCE. We have a legacy of providing excellent customer service and a long-standing dedication to continuous improvement, which has resulted in NW Natural consistently receiving high rankings in the J.D. Power and Associates customer satisfaction studies. In 2020, we intend to strive to enhance our natural gas customers' experience to meet their evolving expectations by prioritizing improvements to technology and internal processes, to support our customers' most frequent interactions and highest value touchpoints.

ADVANCING CONSTRUCTIVE LEGISLATIVE POLICIES AND REGULATION. NW Natural recently worked with lawmakers and the governor to pass a landmark bill for the State of Oregon Senate Bill 98 is groundbreaking legislation that allows utilities to procure renewable natural gas for homes and businesses. While currently in regulatory rulemaking, NW Natural has been pursuing potential renewable natural gas supplies and expects to begin procuring it for customers in 2020. This year, NW Natural plans to submit an integrated resource plan to both the Oregon and Washington Commissions outlining our key long-term capital projects and resource plans for conventional and renewable natural gas. NW Natural will also continue working with the EPA and other stakeholders on an environmentally protective and cost-effective clean-up for the Portland Harbor Superfund Site. For our water utilities, we are focused on building relationships with our current and prospective regulators, pursuing efficient approval processes for acquisitions, and engaging in constructive regulatory proceedings.

ENABLING CUSTOMER GROWTH. Natural gas is the preferred energy choice in our service territory given its efficient, affordable, and reliable qualities. We are focused on leveraging these key attributes to capitalize on our region's strong economic growth. We continue to grow our market share in the residential sector and capture new commercial customers as well as multifamily developments. At NW Natural Water, we continue to be focused on supporting the fast-growing communities we currently serve and continuing our disciplined acquisition strategy.

LEADING IN A LOW-CARBON FUTURE. We are deeply committed to a clean energy future and environmental stewardship. It's why NW Natural launched a low-carbon initiative to reduce emissions in the communities we serve by leveraging our modern natural gas pipeline system in new ways, working closely with customers, policymakers and regulators, and embracing cutting-edge technology. In 2020, we will continue to execute on our RNG strategy with plans to procure RNG for our customers as prescribed under Oregon Senate Bill 98, execute on our RNG interconnection projects, and develop voluntary renewable product offerings for our customers. A study commissioned with a premier environmental consultant has concluded that natural gas can help achieve crucial emission reductions of 80% by 2050. NW Natural intends to strive to help its customers reduce and offset their consumption, support the development of RNG, and explore other innovative solutions to lower the carbon intensity of natural gas, such as power to gas. We also intend to leverage technology and relationships to examine ways to reduce emissions across the entire value chain from suppliers to end-use heating appliances.

DIVIDENDS

NW Holdings dividend highlights include:

Per common share	2019	2018	2017
Dividends paid	\$ 1.9025	5 1.8925	\$ 1.8825

In January 2020, the NW Holdings' Board of Directors declared a quarterly dividend on NW Holdings common stock of \$0.4775 per share, payable on February 14, 2020, to shareholders of record on January 31, 2020, reflecting an indicated annual dividend rate of \$1.91 per share.

See "Financial Condition - *Liquidity and Capital Resources*" for more information regarding the NW Holdings and NW Natural dividend policies and regulatory conditions on NW Natural dividends to its parent, NW Holdings.

RESULTS OF OPERATIONS

Regulatory Matters

Regulation and Rates

NATURAL GAS DISTRIBUTION. NW Natural's natural gas distribution business is subject to regulation by the OPUC and WUTC with respect to, among other matters, rates and terms of service, systems of accounts, and issuances of securities by NW Natural. In 2019, approximately 89% of NGD customers were located in Oregon, with the remaining 11% in Washington. Earnings and cash flows from natural gas distribution operations are largely determined by rates set in general rate cases and other proceedings in Oregon and Washington. They are also affected by weather, the local economies in Oregon and Washington, the pace of customer growth in the residential, commercial, and industrial markets, and NW Natural's ability to remain price competitive, control expenses, and obtain reasonable and timely regulatory recovery of its natural gas distribution-related costs, including operating expenses and investment costs in plant and other regulatory assets. See "*Most Recent Completed Rate Cases*" below.

MIST INTERSTATE GAS STORAGE. NW Natural's interstate storage activity at Mist is subject to regulation by the OPUC, WUTC, and the Federal Energy Regulatory Commission (FERC) with respect to, among other matters, rates and terms of service. The OPUC also regulates the intrastate storage services at Mist, while FERC regulates the interstate storage services at Mist. The FERC uses a maximum cost of service model which allows for gas storage prices to be set at or below the cost of service as approved by the agency in NW Natural's last regulatory filing. The OPUC Schedule 80 rates are tied to the FERC rates, and are updated whenever NW Natural modifies FERC maximum rates.

OTHER. In June 2018, NWN Gas Storage, a wholly-owned subsidiary of NW Holdings, entered into a Purchase and Sale Agreement for the sale of all of its ownership interests in Gill Ranch, a natural gas storage facility located near Fresno, California. The sale was approved by the CPUC in December 2019. The wholly owned rate regulated water businesses of NWN Water, a wholly owned subsidiary of NW Holdings, are subject to regulation by the utility commissions in the states in which they are located, which currently include Oregon, Washington, and Idaho, and is expected to include Texas.

Most Recent Completed Rate Cases

OREGON. Effective November 1, 2018, the OPUC authorized rates to customers based on an ROE of 9.4%, an overall return of 7.317%, and a capital structure of 50% common equity and 50% long-term debt. In March 2019, the OPUC issued an order resolving the remaining matters of the rate case regarding recovery of NW Natural's pension balancing account and the return of tax reform benefits to customers. For additional information, see "Rate Mechanisms - *Pension Cost Deferral and Pension Balancing Account*" and "Rate Mechanisms - *Tax Reform Deferral*" below.

On December 30, 2019, NW Natural filed a general rate case in Oregon. For more information, see "Regulatory Proceeding Updates - 2020 Oregon Rate Case" below.

WASHINGTON. Effective January 1, 2009, through October 31, 2019, the WUTC authorized rates to customers based on an ROE of 10.1% and an overall rate of return of 8.4% with a capital structure of 51% common equity, 5% short-term debt, and 44% long-term debt.

Effective November 1, 2019, the WUTC authorized rates to customers based on an ROE of 9.4% and an overall rate of return of 7.161% with a capital structure of 50.0% long-term debt, 1.0% short-term debt, and 49.0% common equity. The WUTC also authorized the recovery of environmental remediation expenses allocable to Washington customers through an Environmental Cost Recovery Mechanism (ECRM) and directed NW Natural to provide federal tax reform benefits to customers. See "Rate Mechanisms - Environmental Cost Deferral and Recovery - *Washington ECRM*" and "Rate Mechanisms - *Tax Reform Deferral*" below.

FERC. NW Natural is required under its Mist interstate storage certificate authority and rate approval orders to file every five years either a petition for rate approval or a cost and revenue study to change or justify maintaining the existing rates for its interstate storage services. On October 12, 2018, NW Natural filed a rate petition with FERC for revised maximum cost-based rates, which incorporated the new federal corporate income tax rate. The revised rates were effective beginning November 1, 2018.

NW Natural continuously evaluates the need for rate cases in its jurisdictions. See "Regulatory Proceeding Updates—Oregon Rate Case" below.

Rate Mechanisms

During 2019, NW Natural's key approved rates and recovery mechanisms for each service area included:

	Oregon	Wash	ington
	2018 Rate Case	2009 Rate Case	2019 Rate Case (effective 11/1/2019)
Authorized Rate Structure:			
ROE	9.4%	10.1%	9.4%
ROR	7.3%	8.4%	7.2%
Debt/Equity Ratio	50%/50%	49%/51%	51%/49%
Key Regulatory Mechanisms:			
PGA	Х	Х	Х
Gas Cost Incentive Sharing	Х		
Decoupling	Х		
WARM	Х		
Environmental Cost Recovery	Х		Х
Interstate Storage and Asset Management Sharing	Х	Х	Х

Annually, or more often if circumstances warrant, NW Natural reviews all regulatory assets for recoverability. If NW Natural should determine all or a portion of these regulatory assets no longer meet the criteria for continued application of regulatory accounting, then NW Natural would be required to write-off the net unrecoverable balances against earnings in the period such a determination was made.

PURCHASED GAS ADJUSTMENT. Rate changes are established for NW Natural each year under PGA mechanisms in Oregon and Washington to reflect changes in the expected cost of natural gas commodity purchases. The PGA filings include gas costs under spot purchases as well as contract supplies, gas costs hedged with financial derivatives, gas costs from the withdrawal of storage inventories, the production of gas reserves, interstate pipeline demand costs, temporary rate adjustments, which amortize balances of deferred regulatory accounts, and the removal of temporary rate adjustments effective for the previous year.

Typically, each year NW Natural hedges gas prices on a portion of NW Natural's annual sales requirement based on normal weather, including both physical and financial hedges. NW Natural entered the 2019-20 gas year with its forecasted sales volumes hedged at 52% in financial swap and option contracts, including hedging of 56% in Oregon and 24% in Washington, and 19% in physical gas supplies, including hedging of 20% in Oregon and 14% in Washington.

As of December 31, 2019, NW Natural was hedged at approximately 71% for the 2019-20 gas year, and was hedged in Oregon at approximately 75% and Washington at approximately 38%. NW Natural is also hedged between 1% and 29% for annual requirements over the subsequent five gas years, which consists of between 2% and 31% in Oregon and between 0% and 15% in Washington. Hedge levels are subject to change based on actual load volumes, which depend to a certain extent on weather, economic conditions, and estimated gas reserve production. Also, gas storage inventory levels may increase or decrease with storage expansion, changes in storage contracts with third parties, variations in the heat content of the gas, and/or storage recall by NW Natural.

In September 2019, NW Natural filed its annual PGA and received OPUC and WUTC approval in October 2019. PGA rate changes were effective November 1, 2019. Rates and hedging approaches may vary between states due to different rate structures and mechanisms. In addition, as required with the Washington PGA filing, NW Natural incorporated and began implementing risk-responsive hedging strategies for the 2019-20 PGA for its Washington gas supplies.

Under the current PGA mechanism in Oregon, there is an incentive sharing provision whereby NW Natural is required to select each year an 80% deferral or a 90% deferral of higher or lower actual gas costs compared to estimated PGA prices, such that the impact on NW Natural's current earnings from the incentive sharing is either 20% or 10% of the difference between actual

and estimated gas costs, respectively. For the 2018-19 and 2019-20 gas years, NW Natural selected the 90% deferral option. Under the Washington PGA mechanism, NW Natural defers 100% of the higher or lower actual gas costs, and those gas cost differences are passed on to customers through the annual PGA rate adjustment.

EARNINGS TEST REVIEW. NW Natural is subject to an annual earnings review in Oregon to determine if the NGD business is earning above its authorized ROE threshold. If NGD business earnings exceed a specific ROE level, then 33% of the amount above that level is required to be deferred or refunded to customers. Under this provision, if NW Natural selects the 80% deferral gas cost option, then NW Natural retains all earnings up to 150 basis points above the currently authorized ROE. If NW Natural selects the 90% deferral option, then it retains all earnings up to 100 basis points above the currently authorized ROE. For the 2018-19 and 2019-20 gas years, it selected the 90% deferral option. The ROE threshold is subject to adjustment annually based on movements in short-term interest rates. For calendar years 2017, 2018, and 2019, the ROE threshold was 10.66%, 10.48%, and 10.24%, respectively. There were no refunds required for 2017 and 2018. NW Natural does not expect a refund for 2019 based on results, and anticipates filing its 2019 earnings test in May 2020.

GAS RESERVES. In 2011, the OPUC approved the Encana gas reserves transaction to provide long-term gas price protection for NGD business customers and determined costs under the agreement would be recovered on an ongoing basis through the annual PGA mechanism. Gas produced from NW Natural's interests is sold at then prevailing market prices, and revenues from such sales, net of associated operating and production costs and amortization, are included in cost of gas. The cost of gas, including a carrying cost for the rate base investment made under the original agreement, is included in NW Natural's annual Oregon PGA filing, which allows NW Natural to recover these costs through customer rates. The net investment under the original agreement earns a rate of return.

In 2014, NW Natural amended the original gas reserves agreement in response to Encana's sale of its interest in the Jonah field located in Wyoming to Jonah Energy. Under the amended agreement with Jonah Energy, NW Natural has the option to invest in additional wells on a well-by-well basis with drilling costs and resulting gas volumes shared at the amended proportionate working interest for each well in which NW Natural invests. Volumes produced from the additional wells drilled after the amended agreement are included in NW Natural's Oregon PGA at a fixed rate of \$0.4725 per therm. NW Natural has not participated in additional wells since 2014.

DECOUPLING. In Oregon, NW Natural has a decoupling mechanism. Decoupling is intended to break the link between earnings and the quantity of gas consumed by customers, removing any financial incentive to discourage customers' efforts to conserve energy. The Oregon decoupling mechanism was reauthorized and the baseline expected usage per customer was reset in the 2018 Oregon general rate case. This mechanism employs a use-per-customer decoupling calculation, which adjusts margin revenues to account for the difference between actual and expected customer volumes. The margin adjustment resulting from differences between actual and expected volumes under the decoupling component is recorded to a deferral account, which is included in the annual PGA filing.

WARM. In Oregon, NW Natural has an approved weather normalization mechanism, which is applied to residential and commercial customer bills. This mechanism is designed to help stabilize the collection of fixed costs by adjusting residential and commercial customer billings based on temperature variances from average weather, with rate decreases when the weather is colder than average and rate increases when the weather is warmer than average. The mechanism is applied to bills from December through mid-May of each heating season. The mechanism adjusts the margin component of customers' rates to reflect average weather, which uses the 25-year average temperature for each day of the billing period. Daily average temperatures and 25-year average temperatures are based on a set point temperature of 59 degrees Fahrenheit for residential customers and 58 degrees Fahrenheit for commercial customers. The collections of any unbilled WARM amounts due to tariff caps and floors are deferred and earn a carrying charge until collected, or returned, in the PGA the following year. Residential and commercial customers in Oregon are allowed to opt out of the weather normalization mechanism, and as of December 31, 2019, 8% of total eligible customers had opted out. NW Natural does not have a weather normalization mechanism approved for residential and commercial Washington customers, which account for about 11% of total customers. See "Business Segment—*Natural Gas Distribution*" below.

INDUSTRIAL TARIFFS. The OPUC and WUTC have approved tariffs covering NGD service to major industrial customers, which are intended to give NW Natural certainty in the level of gas supplies needed to serve this customer group. The approved terms include, among other things, an annual election period, special pricing provisions for out-of-cycle changes, and a requirement that industrial customers complete the term of their service election under NW Natural's annual PGA tariff.

ENVIRONMENTAL COST DEFERRAL AND RECOVERY. NW Natural has authorizations in Oregon and Washington to defer costs related to remediation of properties that are owned or were previously owned by NW Natural. In Oregon, a Site Remediation and Recovery Mechanism (SRRM) is currently in place to recover prudently incurred costs allocable to Oregon customers, subject to an earnings test. On October 21, 2019 the WUTC authorized an Environmental Cost Recovery Mechanism (ECRM) for recovery of prudently incurred costs allocable to Washington customers beginning November 1, 2019.

Oregon SRRM

Under the Oregon SRRM collection process, there are three types of deferred environmental remediation expense:

- Pre-review This class of costs represents remediation spend that has not yet been deemed prudent by the OPUC. Carrying costs on these remediation expenses are recorded at NW Natural's authorized cost of capital. NW Natural anticipates the prudence review for annual costs and approval of the earnings test prescribed by the OPUC to occur by the third quarter of the following year.
- Post-review This class of costs represents remediation spend that has been deemed prudent and allowed after applying the earnings test, but is not yet included in amortization. NW Natural earns a carrying cost on these amounts at a rate equal to the five-year treasury rate plus 100 basis points.
- Amortization This class of costs represents amounts included in current customer rates for collection and is generally
 calculated as one-fifth of the post-review deferred balance. NW Natural earns a carrying cost equal to the amortization rate
 determined annually by the OPUC, which approximates a short-term borrowing rate. NW Natural included \$5.1 million and
 \$6.1 million of deferred remediation expense approved by the OPUC for collection during the 2019-20 and 2018-19 PGA
 years, respectively.

In addition, the SRRM also provides for the annual collection of \$5.0 million from Oregon customers through a tariff rider. As it collects amounts from customers, NW Natural recognizes these collections as revenue net of any earnings test adjustments and separately amortizes an equal and offsetting amount of the deferred regulatory asset balance through the environmental remediation operating expense line shown separately in the operating expenses section of the Consolidated Statements of Comprehensive Income (Loss). See Note 18 for more information on our environmental matters.

The SRRM earnings test is an annual review of adjusted NGD ROE compared to authorized NGD ROE. For 2018, the first ten months were weighted at 9.5% and the last two months at 9.4%, reflecting the ROE change from NW Natural's most recent rate case effective November 1, 2018. To apply the earnings test NW Natural must first determine what if any costs are subject to the test through the following calculation:

Annual spend

Less: \$5.0 million base rate rider

Prior year carry-over⁽¹⁾

\$5.0 million insurance + interest on insurance

Total deferred annual spend subject to earnings test

Less: over-earnings adjustment, if any

Add: deferred interest on annual spend⁽²⁾

Total amount transferred to post-review

- ⁽¹⁾ Prior year carry-over results when the prior year amount transferred to post-review is negative. The negative amount is carried over to offset annual spend in the following year.
- ⁽²⁾ Deferred interest is added to annual spend to the extent the spend is recoverable.

To the extent the NGD business earns at or below its authorized ROE as defined in the SRRM, the total amount transferred to post-review is recoverable through the SRRM. To the extent more than authorized ROE is earned in a year, the amount transferred to post-review would be reduced by those earnings that exceed its authorized ROE.

For 2019, NW Natural has performed this test, which is anticipated to be submitted to the OPUC in May 2020. No earnings test adjustment is expected for 2019.

Washington ECRM

The ECRM established by the WUTC order on October 21, 2019 permits NW Natural's recovery of environmental remediation expenses allocable to Washington customers. These expenses represent 3.32 percent of costs associated with remediation of sites that historically served both Oregon and Washington customers. The order allows for recovery of past deferred and future prudently incurred remediation costs allocable to Washington through application of insurance proceeds and collections from customers. Prudently incurred costs that were deferred from the initial deferral authorization in February 2011 through June 2019 are to be fully offset with insurance proceeds, with any remaining insurance proceeds to be amortized over a 10.5 year period. On an annual basis NW Natural will file for a prudence determination and a request to recover remediation expenditures in excess of insurance amortizations in the following year's customer rates. After insurance proceeds are fully amortized, if in a particular year the request to collect deferred amounts exceeds one percent of Washington normalized revenues, then the excess will be collected over three years with interest.

The WUTC order also disallowed approximately \$1.5 million of deferred environmental remediation expenses. NW Natural recognized an after-tax charge of approximately \$1.1 million in the fourth quarter of 2019 as a result of this order.

PENSION COST DEFERRAL AND PENSION BALANCING ACCOUNT. From 2011 through October 2018, the OPUC authorized a regulatory mechanism in which NW Natural deferred annual pension expenses above the amount set in rates, with recovery of these deferred amounts through the implementation of a balancing account, which included the expectation of higher and lower

pension expenses in future years. During this period the mechanism permitted NW Natural to accrue interest on the account balance at the NGD business' authorized rate of return. The OPUC ordered the freezing of the account in October 2018 with pension expenses to be recovered through rates beginning November 1, 2018.

In March 2019 the OPUC issued an order (Pension Order) directing the means by which the account would be recovered. As a result, the following items were recorded in the first quarter of 2019:

- Applied \$7.1 million of TCJA benefits deferred from January 1, 2018 to October 31, 2018, as a reduction against the pension balancing account;
- · Credited to customers' benefit \$5.4 million of deferred income taxes as a reduction against the pension balancing account;
- Reduced the amount of the frozen balancing account by an additional \$10.5 million; and
- Reduced the interest rate on the pension balancing account from NW Natural's authorized rate of return of 7.317% to 4.3%.

The items above resulted in the recovery of \$12.5 million of deferred pension expenses by applying deferred tax benefits against the pension balancing account. Recognition of these items resulted in higher operations and maintenance expense and other income (expense), net with offsetting benefits recognized in operating revenues and income tax expense. Additional pension expenses of \$10.5 million from the regulatory disallowance were also recognized in operations and maintenance expense and other income (expense), net. Deferred regulatory interest income of \$3.8 million was also realized in other income (expense), net.

Commencing April 1, 2019, the OPUC also authorized the collection of the remainder of the pension balancing account over ten years in a customer tariff of \$7.3 million per year. Pension expense deferrals, excluding interest, were \$10.3 million and \$6.5 million in 2018 and 2017, respectively. Deferred pension expense recoveries, inclusive of the applications of deferred TCJA benefits described above, were \$16.8 million in 2019.

TAX REFORM DEFERRAL. In December 2017, NW Natural filed applications with the OPUC and WUTC to defer the overall net benefit associated with the TCJA that was enacted on December 22, 2017.

In February 2019, NW Natural and the other parties to the 2018 Oregon rate case agreed upon terms by which the deferred benefits would be returned to customers via a joint stipulation filed with the OPUC. In March 2019, the OPUC approved the terms in their entirety as follows:

- Applied \$7.1 million of TCJA benefits deferred from January 1, 2018 to October 31, 2018, as a reduction against the pension balancing account;
- Credited to customers' benefit \$5.4 million of deferred income taxes as a reduction against the pension balancing account;

Commencing April 1, 2019, the OPUC also ordered the following:

- Provide an annual credit to base rates of \$3.4 million for excess deferred income taxes to all customers, subject to the average rate assumption method;
- Provide an additional annual credit of \$3.0 million to sales service customers for five years;
- An increase in rate base of \$15.4 million, and corresponding increase to revenue requirement of \$1.4 million.

If NW Natural files a general rate case within five years of the date of the Pension Order, this revenue requirement may be adjusted as part of that general rate case.

On October 21, 2019 the WUTC issued an order dictating the means by which deferred tax reform benefits would be returned to customers beginning November 1, 2019. The order directs NW Natural to provide customers with a rate reduction of \$2.1 million over one year to reflect the benefit of the lower federal corporate income tax rate accumulating from January 1, 2018 through October 31, 2019, and provides an additional annual rate reduction initially set at approximately \$0.5 million to reflect a benefit from the remeasurement of deferred tax liabilities of approximately \$15.0 million.

INTERSTATE STORAGE AND ASSET MANAGEMENT SHARING. On an annual basis, NW Natural credits amounts to Oregon and Washington customers as part of a regulatory incentive sharing mechanism related to net revenues earned from Mist gas storage and asset management activities. Generally, amounts are credited to Oregon customers in June, while credits are given to customers in Washington as reductions in rates through the annual PGA filing in November. In November 2018, the percentage of net revenues shared with Oregon customers increased from 67% to 90% as a result of the 2018 Oregon general rate case.

The following table presents the credits to NGD customers:

In millions	2019	2018	2017
Oregon	\$ 16.3	\$ 11.7	\$ 11.7
Washington	1.2	1.0	1.0

HOLDING COMPANY REORGANIZATION. On October 1, 2018, we completed the reorganization to a holding company structure. There are a number of conditions under the agreement with the OPUC and the WUTC related to the formation of a holding company structure. One of the conditions is that, for three years following formation of the holding company, NW Natural will be required to provide an annual \$500,000 credit to Oregon customers and a \$55,000 credit to Washington customers. The first and second year credits to both Oregon and Washington customers were given in conjunction with the 2018-19 and 2019-20 PGA filings with the rate adjustments commencing on November 1, 2018 and 2019, respectively.

Regulatory Proceeding Updates

During 2019, NW Natural was involved in the regulatory activities discussed below.

WATER UTILITIES. In 2019, NW Holdings, through its water subsidiaries, continued implementation of its growth strategy and entered into the following agreements which required regulatory approval:

- Sunriver Water, LLC and Sunriver Environmental, LLC NWN Water of Oregon received regulatory approval from the OPUC for the Sunriver Water acquisition in April 2019. Sunriver Environmental is not under the OPUC's jurisdiction. The transaction closed in May 2019.
- Estates Water Systems Inc. and Monterra Inc. Cascadia Water received regulatory approval from the WUTC for these Sequim, Washington acquisitions in April 2019. The transaction closed in May 2019.
- Spirit Lake East Water Company and Lynnwood Water Gem State Water received regulatory approval from the IPUC for these Coeur d'Alene, Idaho acquisitions in July 2019. The transaction closed in July 2019.
- Suncadia Water Company, LLC and Suncadia Environmental, LLC NWN Water of Washington received regulatory
 approval for the purchase of Suncadia Water in January 2020. Suncadia Environmental is not subject to the WUTC's
 jurisdiction. The transaction closed in January 2020. See Note 20 for additional information.
- T&W Water Service Company NWN Water of Texas received regulatory approval from the Public Utility Commission of Texas for the T&W Water Service Company acquisition in February 2020. We expect the transaction to close in 2020.

INTEGRATED RESOURCE PLAN (IRP). NW Natural files a full IRP biennially for Oregon and Washington with the OPUC and WUTC, respectively. NW Natural filed its 2018 Oregon and Washington IRPs in August 2018, and received both a letter of compliance from the WUTC and acknowledgment by the OPUC in February 2019. The IRP included analysis of different growth scenarios and corresponding resource acquisition strategies. This analysis is needed to develop supply and demand resource requirements, consider uncertainties in the planning process, and to establish a plan for providing reliable and low cost natural gas service.

RENEWABLE NATURAL GAS. On June 19, 2019, the Oregon legislature passed Senate Bill 98 (SB98), which enables natural gas utilities to procure or develop renewable natural gas (RNG) on behalf of their Oregon customers. RNG is produced from organic materials like food, agricultural and forestry waste, wastewater, or landfills. Methane is captured from these organic materials as they decompose and is conditioned to pipeline quality, so it can be added into the existing natural gas system, reducing net greenhouse gas emissions.

SB98 outlines the following parameters for the RNG program including: setting out broad targets for gas utilities that allow for the purchase of RNG from third parties such that 30% of the gas distributed to retail customers is RNG by 2050; allowing gas utilities to invest in RNG infrastructure for the production, processing, pipeline interconnection and distribution of RNG to their customers; and creating a limit of 5% of a utility's revenue requirement that can be used to cover the incremental cost of RNG to protect utilities and ratepayers from increased costs as the RNG market develops.

The bill was signed into law by the governor in July 2019. The OPUC opened a docket in August to begin the rulemaking process for the bill, which is expected to conclude with the OPUC adopting rules by July 31, 2020.

CORPORATE ACTIVITY TAX. In 2019, the State of Oregon enacted a Corporate Activity Tax (CAT) that is applicable to all businesses with annual Oregon gross revenue in excess of \$1 million. The CAT is in addition to the state's corporate income tax and imposes a 0.57% tax on certain Oregon gross receipts less a reduction for a portion of cost of goods sold or labor. The CAT legislation became effective September 29, 2019 and applies to calendar years beginning January 1, 2020. On December 23, 2019, NW Natural filed an application with the OPUC to allow us to defer this additional expense, with recovery of these deferred amounts to be determined through future rate case proceedings.

2020 OREGON RATE CASE. On December 30, 2019, NW Natural filed a request for a general rate increase with the OPUC. The filing includes a requested \$71.4 million annual revenue requirement increase based upon the following assumptions or requests:

- Capital structure of 50% debt and 50% equity;
- Return on equity of 10.0%;
- Cost of capital of 7.298%;
- Average rate base of \$1.47 billion.

The filing includes an increase in average rate base of \$269.9 million compared to the last rate case due to the following items:

- Investments supporting customer growth and reliability for the distribution system as well as for operating resiliency;
- · Replacing key components of our Mist storage facility, which provides service during the peak winter months; and
- Upgrading technology including cybersecurity and critical customer interfacing systems.

NW Natural's filing will be reviewed by the OPUC and other stakeholders. The process is anticipated to take up to 10 months with new rates expected to take effect November 1, 2020.

Business Segment - Natural Gas Distribution (NGD)

NGD results are primarily affected by customer growth, revenues from rate-base additions, and, to a certain extent, by changes in delivered volumes due to weather and customers' gas usage patterns. In Oregon, NW Natural has a conservation tariff (also called the decoupling mechanism), which adjusts margin up or down each month through a deferred regulatory accounting adjustment designed to offset changes resulting from increases or decreases in average use by residential and commercial customers. NW Natural also has a weather normalization tariff in Oregon, WARM, which adjusts customer bills up or down to offset changes in margin resulting from above- or below-average temperatures during the winter heating season. Residential and commercial customers in Oregon are allowed to opt out of the weather normalization mechanism, and as of December 31, 2019, 8% of total eligible customers had opted out. NW Natural does not have a weather normalization mechanism approved for residential and commercial Washington customers, which account for about 11% of total customers. The decoupling and WARM mechanisms are designed to reduce, but not eliminate, the volatility of customer bills and natural gas distribution earnings. See "Regulatory Matters—*Rate Mechanisms*" above.

The NGD business is seasonal in nature due to higher gas usage by residential and commercial customers during the cold winter heating months. Other categories of customers experience seasonality in their usage but to a lesser extent. Seasonality affects the comparability of the results of operations of the NGD business across quarters but not across years.

NGD segment highlights include:

Dollars and therms in millions, except EPS data	2019	2018	2017
NGD net income	\$ 60.8	\$ 57.5	\$ 60.5
Adjusted NGD net income ⁽¹⁾	60.8	57.5	61.5
EPS - NGD segment	2.04	1.99	2.10
Adjusted EPS - NGD segment ⁽¹⁾	2.04	1.99	2.13
Gas sold and delivered (in therms)	1,215	1,128	1,240
NGD margin ⁽²⁾	\$ 422.7	\$ 383.7	\$ 392.6

⁽¹⁾ See the Non-GAAP Reconciliations table at the beginning of Item 7 for a reconciliation of this non-GAAP financial measure to its closest U.S. GAAP financial measure.

⁽²⁾ See Natural Gas Distribution Margin Table below for additional detail.

2019 COMPARED TO 2018. NGD net income was \$60.8 million in 2019 compared to \$57.5 million in 2018. The primary factors contributing to the increase in NGD net income were as follows:

- a \$39.0 million increase in NGD margin primarily due to:
 - a \$16.2 million increase due to new customer rates from the 2018 Oregon rate case and 2019 Washington rate case;
 - a \$6.1 million increase from customer growth;
 - an \$11.8 million increase from revenue generated from NW Natural's North Mist storage contract which commenced service in May 2019 and is included within other regulated services within NGD margin;
 - a \$7.1 million increase due to revenues recognized in association with recoveries of NW Natural's pension balancing
 account, which are entirely offset by pension expenses within operations and maintenance and other income (expense),
 net; and
 - a \$3.7 million increase driven by colder than average weather in the first quarter of 2019 coupled with higher fee revenues from interruptible customers as a result of system restrictions; partially offset by
 - a \$3.2 million decrease due to an adjustment to the tax reform deferral estimate in 2018; and
 - a \$1.5 million decrease due to a regulatory disallowance of deferred environmental expenditures as a result of the 2019 Washington rate case.
- a \$9.4 million decrease in income tax expense primarily due to the income tax implications of the March 2019 OPUC order, of which \$5.4 million was offset by pension expenses as discussed above, with the remainder driven by the return of deferred TCJA benefit credits to customers and lower pretax income in the current period compared to the prior period; and
- a \$5.8 million increase in deferred regulatory interest income in other income (expense), net, of which \$5.1 million relates to interest recognized in association with the OPUC order discussed above.

The increases were partially offset by:

 a \$34.4 million increase in pension costs within operations and maintenance expense and other income (expense), net, of which \$12.5 million relates to costs which were entirely offset by revenues and income tax benefits in the March 2019 OPUC order, and \$10.5 million relates to the regulatory pension disallowance included in the March 2019 OPUC order. In addition, there was a \$11.4 million increase in pension expenses as NW Natural began collecting ongoing pension costs through customer rates on November 1, 2018 and began collecting deferred pension costs through customer rates on April 1, 2019 rather than deferring a portion to the balancing account;

- a \$5.7 million increase in depreciation expense due to NGD plant additions;
- a \$4.6 million increase in interest expense driven by \$2.3 million higher interest on long term debt, \$1.2 million lower AFUDC debt interest income, and \$0.9 million higher commercial paper and line of credit interest;
- a \$3.3 million decrease in AFUDC equity interest; and
- a \$2.9 million increase in NGD segment operations and maintenance expenses primarily attributable to annual employee cost increases.

Total natural gas sold and delivered in 2019 increased 8% over 2018 primarily due to the impact of weather that was average in the current period compared to weather that was 15% warmer than average in the prior period.

2018 COMPARED TO 2017. NGD net income was \$57.5 million in 2018 compared to \$60.5 million in 2017. NGD net income in 2017 includes a \$1.0 million loss from the remeasurement of deferred income tax balances due to the enactment of the TCJA. Excluding this item, adjusted NGD net income decreased \$4.0 million, or \$0.14 per share. See the NW Holdings Non-GAAP Reconciliations at the beginning of Item 7 for additional information.

The primary factors contributing to the decrease in adjusted NGD net income were as follows:

- a \$8.9 million decrease in NGD margin primarily due to:
 - a \$7.9 million decrease due to revenues collected and deferred in association with the TCJA; partially offset by
 - a \$4.8 million increase from customer growth; and
 - the majority of the remaining decrease was due to the effects of warmer than average weather in 2018 compared to colder than average weather in 2017, partially offset by higher rates from the 2018 Oregon general rate case effective November 1, 2018.
- a \$6.0 million increase in operations and maintenance expense driven largely from payroll and benefits due to increased headcount, general salary increases, and increased professional services and contract labor expense;
- a \$4.2 million decrease in other income (expense), net, primarily due to increases in pension non-service component costs, partially offset by increases in the equity portion of AFUDC in 2018; and
- a \$4.0 million increase in depreciation expense primarily due to additional capital expenditures; partially offset by
- a \$20.0 million decrease in income tax expense primarily due to the reduction in the federal statutory tax rate from the TCJA and lower pretax income.

Total natural gas sold and delivered in 2018 decreased 9% over 2017 primarily due to the impact of weather that was 26% warmer than the prior period and 15% warmer than average.

NATURAL GAS DISTRIBUTION MARGIN TABLE. The following table summarizes the composition of NGD gas volumes, revenues, and cost of sales:

						Favorable (e (Unfavorable)			
In thousands, except degree day and customer data		2019	2018	2017	201	9 vs. 2018	20	18 vs. 2017		
NGD volumes (therms):										
Residential and commercial sales		734,347	661,163	740,369		73,184		(79,206)		
Industrial sales and transportation		480,807	467,040	499,924		13,767		(32,884)		
Total NGD volumes sold and delivered		1,215,154	1,128,203	1,240,293		86,951		(112,090)		
Operating revenues:										
Residential and commercial sales	\$	638,884	\$ 621,782	\$ 684,214	\$	17,102	\$	(62,432)		
Industrial sales and transportation		56,553	58,713	63,925		(2,160)		(5,212)		
Other distribution revenues		13,035	(109)	3,872		13,144		(3,981)		
Other regulated services		12,056	262	_		11,794		262		
Less: Revenue taxes ⁽¹⁾		_	_	19,069		_		(19,069)		
Total operating revenues		720,528	680,648	732,942		39,880		(52,294)		
Less: Cost of gas		255,135	255,743	325,019		608		69,276		
Less: Environmental remediation expense		12,337	11,127	15,291		(1,210)		4,164		
Less: Revenue taxes ⁽¹⁾		30,325	30,082	_		(243)		(30,082)		
NGD margin	\$	422,731	\$ 383,696	\$ 392,632	\$	39,035	\$	(8,936)		
Margin ⁽²⁾										
Residential and commercial sales	\$	366,974	\$ 352,710	\$ 355,736	\$	14,264	\$	(3,026)		
Industrial sales and transportation		31,985	30,817	31,847		1,168		(1,030)		
Miscellaneous revenues		4,671	5,542	3,865		(871)		1,677		
Gain (loss) from gas cost incentive sharing		(1,299)	(27)	1,237		(1,272)		(1,264)		
Other margin adjustments ⁽³⁾		8,350	(5,608)	(53)		13,958		(5,555)		
Distribution margin		410,681	383,434	392,632		27,247		(9,198)		
Other regulated services		12,050	 262	 _		11,788		262		
NGD margin	\$	422,731	\$ 383,696	\$ 392,632	\$	39,035	\$	(8,936)		
Degree days ⁽⁴⁾	_									
Average ⁽⁵⁾		2,710	2,714	2,705		(4)		9		
Actual		2,709	2,313	3,114		17%		(26)%		
Percent colder (warmer) than average weather		— %	(15)%	15%						
NGD Meters - end of period:										
Residential meters		692,012	680,134	668,803		11,878		11,331		
Commercial meters		69,858	69,259	68,050		599		1,209		
Industrial meters		1,007	1,028	1,021		(21)		7		
Total number of meters		762,877	750,421	737,874		12,456		12,547		
NGD Meter growth:										
Residential meters		1.7 %	1.7 %							
Commercial meters		0.9	1.8							
Industrial meters		(2.0)	0.7							
Total meter growth		1.7	1.7							

⁽¹⁾ The change in presentation of revenue taxes was a result of the adoption of ASU 2014-09 "Revenue From Contracts with Customers" and all related amendments on January 1, 2018. This change had no impact on NGD margin results. For additional information, see Note 2.

⁽²⁾ Amounts reported as margin for each category of meters are operating revenues, which are net of revenue taxes, less cost of gas and environmental remediation expense.

⁽³⁾ Other margin adjustments include net revenue recoveries of \$6.2 million and revenue deferrals of \$7.9 million for the years ended December 31, 2019 and 2018, respectively, associated with the decline of the U.S. federal corporate income tax rate.

⁽⁴⁾ Heating degree days are units of measure reflecting temperature-sensitive consumption of natural gas, calculated by subtracting the average of a day's high and low temperatures from 59 degrees Fahrenheit.

⁽⁵⁾ Average weather represents the 25-year average of heating degree days. Through October 31, 2018, average weather is calculated over the period 1986 - 2010, as determined in NW Natural's 2012 Oregon general rate case, and beginning November 1, 2018, average weather is calculated over the period May 31, 1992 through May 30, 2017, as determined in NW Natural's 2018 Oregon general rate case.

Residential and Commercial Sales

The primary factors that impact results of operations in the residential and commercial markets are customer growth, seasonal weather patterns, energy prices, competition from other energy sources, and economic conditions in our service areas. The impact of weather on margin is significantly reduced through NW Natural's weather normalization mechanism in Oregon; approximately 82% of NW Natural's total customers are covered under this mechanism. The remaining customers either opt out of the mechanism or are located in Washington, which does not have a similar mechanism in place. For more information on the weather mechanism, see "Regulatory Matters—Rate Mechanisms—*Weather Normalization Mechanism*" above.

NGD residential and commercial sales highlights include:

In millions	2019	20)18	2017
Volumes (therms):				
Residential sales	457.2		411.7	465.2
Commercial sales	277.1		249.5	275.2
Total volumes	 734.3		661.2	740.4
Operating revenues:				
Residential sales	\$ 437.7	\$	418.4	\$ 455.9
Commercial sales	201.2		203.3	228.3
Total operating revenues	\$ 638.9	\$	621.7	\$ 684.2
Margin:				
Residential:				
Sales	\$ 272.3	\$	240.0	\$ 262.1
Alternative revenues:				
Weather normalization	(1.8)		7.6	(11.9)
Decoupling	(6.6)		(0.6)	(2.4)
Amortization of alternative revenue	 2.0		1.9	 —
Total residential NGD margin	265.9		248.9	 247.8
Commercial:				
Sales	115.8		103.7	101.5
Alternative revenues:				
Weather normalization	(0.7)		2.4	(4.6)
Decoupling	(5.2)		7.3	11.1
Amortization of alternative revenue	 (8.8)		(9.6)	—
Total commercial NGD margin	101.1		103.8	 108.0
Total residential and commercial NGD margin	\$ 367.0	\$	352.7	\$ 355.8

2019 COMPARED TO 2018. The increases of \$17.2 million in operating revenue and \$14.3 million in total residential and commercial NGD margin were primarily driven by new customer rates from the 2018 Oregon rate case and 2019 Washington rate case as well as sales volume increases of 73.1 million therms, or 11%, due to customer growth and average weather in 2019 compared to warmer than average weather in 2018.

2018 COMPARED TO 2017. The decreases of \$62.5 million in operating revenue and \$3.1 million in total residential and commercial NGD margin were primarily driven by sales volume decreases of 79.2 million therms, or 11%, due to warmer than average weather in 2018 compared to colder than average weather in the prior period, partially offset by customer growth.

Industrial Sales and Transportation

Industrial customers have the option of purchasing sales or transportation services. Under the sales service, the customer buys the gas commodity from NW Natural. Under the transportation service, the customer buys the gas commodity directly from a third-party gas marketer or supplier. The NGD gas commodity cost is primarily a pass-through cost to customers; therefore, NGD profit margins are not materially affected by an industrial customer's decision to purchase gas from third parties. Industrial and large commercial customers may also select between firm and interruptible service options, with firm services generally providing higher profit margins compared to interruptible services. To help manage gas supplies, industrial tariffs are designed to provide some certainty regarding industrial customers' volumes by requiring an annual service election which becomes effective November 1, special charges for changes between elections, and in some cases, a minimum or maximum volume requirement before changing options.

NGD industrial sales and transportation highlights include:

In millions	2	2019	2018		2017
Volumes (therms):					
Industrial - firm sales		36.6	3	35.3	35.7
Industrial - firm transportation		175.7	16	62.7	167.7
Industrial - interruptible sales		47.4	5	50.6	55.1
Industrial - interruptible transportation		221.1	21	8.4	241.4
Total volumes		480.8	46	67.0	499.9
Margin:					
Industrial - sales and transportation	\$	32.0	\$ 3	80.8	\$ 31.8

2019 COMPARED TO 2018. Industrial sales and transportation volumes increased by 13.8 million therms and NGD margin increased \$1.2 million due to an increase in manufacturing activity in NW Natural's service territory. The increase was partially offset by a reduction in customer count, which was driven by customer elections to switch from industrial to commercial rate schedules.

2018 COMPARED TO 2017. Industrial sales and transportation volumes decreased by 32.9 million therms and NGD margin decreased \$1.0 million due to lower usage from warmer than average weather in 2018 compared to colder than average weather in 2017.

Miscellaneous Revenues

Margin from miscellaneous revenues includes fee income as well as regulatory revenue adjustments, which reflect current period deferrals to and prior year amortizations from regulatory asset and liability accounts, except for gas cost deferrals which flow through cost of gas. Decoupling and other regulatory amortizations from prior year deferrals are included in revenues from residential, commercial, and industrial firm customers.

Margin from NGD miscellaneous revenues highlights include:

In millions	2019	201	10	2017
Other revenues	\$ 4.7	\$	5.5	\$ 3.9

2019 COMPARED TO 2018. Margin from miscellaneous revenues remained flat due to continued entitlement and curtailment revenue in first quarter of 2019 related to the October 2018 Canadian pipeline event.

2018 COMPARED TO 2017. Margin from miscellaneous revenues increased \$1.6 million due to increases in entitlement and curtailment revenue due to system restrictions for certain industrial and commercial customers as a result of a Canadian pipeline event in October 2018 that disrupted gas supply.

Other Regulated Services

Other Regulated Services primarily consist of lease revenues from NW Natural's North Mist storage facility as well as other lease revenues for compressed natural gas assets.

Other regulated services revenue highlights include:

In millions	2019	201	8	2017	
North Mist storage services	\$ 11.8	\$	_	\$	_
Other services	 0.3		0.3		_
Total other regulated services	\$ 12.1	\$	0.3	\$	_

2019 COMPARED TO 2018. Other regulated services margin increased \$11.8 million in 2019 compared to 2018 due to the commencement of storage services at the North Mist expansion facility in May 2019. See Note 7 for more information regarding North Mist expansion lease accounting.

Cost of Gas

Cost of gas as reported by the NGD segment includes gas purchases, gas withdrawn from storage inventory, gains and losses from commodity hedges, pipeline demand costs, seasonal demand cost balancing adjustments, regulatory gas cost deferrals, gas reserves costs, and company gas use. The OPUC and WUTC generally require natural gas commodity costs to be billed to customers at the actual cost incurred, or expected to be incurred. Customer rates are set each year so that if cost estimates were met the NGD business would not earn a profit or incur a loss on gas commodity purchases; however, in Oregon we have

the incentive sharing mechanism described under "Regulatory Matters—Rate Mechanisms—*Purchased Gas Adjustment*" above. In addition to the PGA incentive sharing mechanism, gains and losses from hedge contracts entered into after annual PGA rates are effective for Oregon customers are also required to be shared and therefore may impact net income. Further, NW Natural also has a regulatory agreement whereby it earns a rate of return on its investment in the gas reserves acquired under the original agreement with Encana and includes gas from the amended gas reserves agreement at a fixed rate of \$0.4725 per therm, which are also reflected in NGD margin. See "Application of Critical Accounting Policies and Estimates—*Accounting for Derivative Instruments and Hedging Activities*" below.

Cost of gas highlights include:

In millions except where indicated	2019			2018	2017		
Cost of gas	\$	255.1	\$	255.7	\$	325.0	
Volumes sold (therms)		818		747		831	
Average cost of gas (cents per therm)	\$	0.31	\$	0.34	\$	0.39	
Gain (loss) from gas cost incentive sharing		(1.3)		—		1.2	

2019 COMPARED TO 2018. Cost of gas was flat compared to the prior year, primarily due to the 10% increase in volumes sold driven by average weather in 2019 compared to warmer than average weather in 2018 and customer growth, primarily offset by a three cent decrease in the average cost of gas.

2018 COMPARED TO 2017. Cost of gas decreased 69.3 million, or 21%, primarily due to the 10% decrease in volumes sold due to warmer than average weather in 2018 compared to colder than average weather in 2017, and lower average cost of gas collected from customers, partially offset by customer growth.

The effect on net income from NW Natural's Oregon gas cost incentive sharing mechanism resulted in a margin loss of \$1.3 million in 2019 compared to a slight margin loss in 2018 and a margin gain of \$1.2 million in 2017. In 2019, actual gas prices were higher than those included in rates during the period. In 2018, actual prices closely aligned with estimated prices included in customer rates. In 2017, actual prices were lower than the estimated prices included in customer rates due to warmer than average weather nationally, which resulted in lower national natural gas commodity prices. For a discussion of the gas cost incentive sharing mechanism, see "Regulatory Matters—Rate Mechanisms—*Purchased Gas Adjustment*" above.

<u>Other</u>

Other activities aggregated and reported as other at NW Holdings include NWN Energy's equity investment in Trail West Holding, LLC (TWH), which is pursuing the development of a proposed natural gas pipeline through its wholly-owned subsidiary, Trail West Pipeline, LLC (TWP); NNG Financial's investment in Kelso-Beaver Pipeline (KB Pipeline); and NWN Water, which owns and continues to pursue investments in the water sector. Other activities aggregated and reported as other at NW Natural include the non-NGD storage activity at Mist as well as asset management services and the appliance retail center operations. See Note 4 for further discussion of our business segment and other, as well as our direct and indirect wholly-owned subsidiaries, and Note 14 for further details on our investment in TWH.

At Mist, NW Natural provides gas storage services to customers in the interstate and intrastate markets using storage capacity that has been developed in advance of NGD customers' requirements. Pre-tax income from gas storage at Mist and asset management services is subject to revenue sharing with NGD customers.

Under this regulatory incentive sharing mechanism, NW Natural retains 80% of pre-tax income from Mist gas storage services and asset management services when the underlying costs of the capacity being used are not included in NGD business rates. The remaining 20% is credited to a deferred regulatory account for credit to NGD customers.

Through October 2018, when the capacity used was included in NGD rates, NW Natural retained 33% of pre-tax income with the remaining 67% credited to a deferred regulatory account for credit to NGD customers. In conjunction with the Oregon rate case, effective November 2018 NW Natural retains 10% of pre-tax income from such storage and asset management services and 90% is credited to NGD business customers.

The following table presents the results of activities aggregated and reported as other for both NW Holdings and NW Natural:

In millions, except EPS data	2019	2018	2017
NW Natural other - net income	\$ 8.1	\$ 10.6	\$ 11.2
Other NW Holdings activity	(3.6)	(0.8)	0.4
NW Holdings other - net income	\$ 4.5	\$ 9.8	\$ 11.6
EPS - NW Holdings - other	\$ 0.15	\$ 0.34	\$ 0.41

The significant drivers of changes in other net income discussed below apply to both NW Holdings and NW Natural.

2019 COMPARED TO 2018. Other net income decreased \$5.3 million and \$2.5 million at NW Holdings and NW Natural, respectively. The decrease at NW Natural was primarily driven by lower asset management revenues and increased asset management revenue sharing with Oregon customers as a result of the 2018 Oregon rate case. The decrease from other NW Holdings activity was driven by increases in professional service costs and expenses associated with developing the water business.

2018 COMPARED TO 2017. Other net income decreased compared to the prior period primarily due to \$4.2 million in higher income tax expense driven by \$4.4 million in income tax benefits recognized in 2017 from the enactment of the TCJA, partially offset by a \$2.8 million increase in revenues from asset management agreements for Mist storage and transportation capacity.

Consolidated Operations

Operations and Maintenance

Operations and maintenance highlights include:

In millions	2019	2018	2017		
NW Natural	\$ 169.1	\$ 155.2	\$	152.2	
Other NW Holdings operations and maintenance	9.1	1.5		0.2	
NW Holdings	\$ 178.2	\$ 156.7	\$	152.4	

2019 COMPARED TO 2018. Operations and maintenance expense increased \$21.5 million and \$13.9 million for NW Holdings and NW Natural, respectively. The increase at NW Natural was primarily due to the following:

- a \$12.5 million increase in pension expenses, consisting of:
 - a \$4.6 million increase from recovery of amounts in NW Natural's pension balancing account upon receipt of an OPUC accounting order in March 2019, which was offset within NGD margin and income tax benefits;
 - a \$4.0 million increase from higher pension costs as NW Natural began collecting ongoing pension costs through customer rates on November 1, 2018 and began collecting deferred pension costs through customer rates on April 1, 2019 rather than deferring a portion to the balancing account; and
 - a \$3.9 million increase from a regulatory pension disallowance as a result of the March 2019 OPUC order in the Oregon general rate case.

The remaining change was primarily attributable to annual employee cost increases.

The \$7.6 million increase in other NW Holdings operations and maintenance expense was primarily due to expenses associated with developing the water business.

2018 COMPARED TO 2017. Operations and maintenance expense increased \$4.3 million and \$3.0 million for NW Holdings and NW Natural, respectively, primarily due to the following factors:

- a \$3.4 million increase in NGD payroll and benefits due to increased headcount and general salary increases; and
- a \$3.2 million increase in NGD non-payroll costs primarily due to increases in general professional services and contract labor.

Delinquent customer receivable balances continue to remain at historically low levels. Bad debt expense as a percent of revenues was 0.1% for 2019, 2018, and 2017.

Depreciation and Amortization

Depreciation and amortization highlights include:

In millions	2019	:	2018	2017
NW Natural	\$ 90.4	\$	85.0	\$ 81.0
Other NW Holdings depreciation and amortization	 1.1		0.2	 0.1
NW Holdings	\$ 91.5	\$	85.2	\$ 81.1

The significant drivers of changes in depreciation and amortization discussed below apply to both NW Holdings and NW Natural.

2019 COMPARED TO 2018. Depreciation and amortization expense increased by \$6.3 million and \$5.4 million for NW Holdings and NW Natural, respectively, primarily due to NGD plant additions that included investments in natural gas transmission and distribution systems supporting customer growth, safety, reliability, facility upgrades, and enhanced technology. In addition, the

North Mist gas storage facility began operations and began depreciating in May 2019. The increase in other NW Holdings depreciation and amortization was primarily due to depreciation expense at acquired water and wastewater entities.

2018 COMPARED TO 2017. Depreciation and amortization expense increased by \$4.1 million and \$4.0 million for NW Holdings and NW Natural, respectively, primarily due to NGD plant additions that included investments in natural gas transmission and distribution systems supporting customer growth, safety, reliability, facility upgrades, and enhanced technology.

Other Income (Expense), Net

Other income (expense), net highlights include:

In millions	2019	2018		2017
Pension and other postretirement costs	\$ (13.3)	\$ (17	0) \$	(10.2)
Deferral (amortization) of regulatory pension balancing account	(10.7)	7.	9	4.1
Regulatory disallowance of pension costs	(6.6)	-	_	—
Equity portion of AFUDC	0.7	4.	1	2.7
Net interest income (expense) on deferred regulatory accounts	7.2	1.	7	2.0
Other non-operating	(0.3)	(0.	3)	1.2
NW Natural total other income (expense), net	\$ (23.0)	\$ (3	6) \$	(0.2)
Other NW Holdings activity	 0.2	-		(0.1)
NW Holdings total other income (expense), net	\$ (22.8)	\$ (3	6) \$	(0.3)

The significant drivers of changes in Other income (expense) discussed below apply to both NW Holdings and NW Natural.

2019 COMPARED TO 2018. Other income (expense), net, decreased \$19.2 million and \$19.4 million at NW Holdings and NW Natural, respectively. The decrease was primarily driven by activity in NW Natural's pension balancing account as described below. In addition, net interest income on deferred regulatory accounts increased \$5.5 million primarily due to \$5.1 million of deferred equity interest income recognized in 2019 in conjunction with amortization of the pension balancing account. Interest income from the equity portion of AFUDC decreased \$3.3 million, primarily driven by the placement of the North Mist facility into service in May 2019.

Pension Balancing Account

From 2011 through October 31, 2018, NW Natural had OPUC approval to defer certain pension costs in excess of what was recovered in customer rates. This pension cost deferral was recorded to a regulatory balancing account, which stabilized the amount of pension expense recognized each year in the consolidated statements of comprehensive income (loss). Total pension cost deferrals, excluding interest, were \$10.3 million and \$6.5 million for the years ended December 31, 2018 and 2017, of which \$7.9 million and 4.1 million was recognized in other income (expense), net, respectively. In October 2018, the OPUC issued an order freezing the pension balancing account and directing that future pension expense would be recovered through rates with an increase of \$8.1 million to revenue requirement.

In March 2019, the OPUC issued another order allowing for the application of certain deferred revenues and tax benefits from the TCJA to reduce NW Natural's pension regulatory balancing account. A corresponding total of \$12.5 million in pension expenses were recognized, of which \$7.9 million was recognized in other income (expense), net in the consolidated statements of comprehensive income in the first quarter of 2019, with offsetting benefits recorded within operating revenues and income taxes. The order also directed NW Natural to reduce the balancing account by an additional, disallowed, \$10.5 million, of which \$6.6 million was charged to other income (expense), net in the consolidated statements of comprehensive income. Amortization of the remaining amount of the balancing account began in the second quarter of 2019 in accordance with the order. Total amortization of the balancing account for the year ended December 31, 2019, inclusive of the \$12.5 million recovery mentioned above, was \$16.8 million, of which \$10.7 million was recorded to other income (expense), net. See Note 10 and "Regulatory Matters—Regulatory Proceeding Updates - *Pension Cost Deferral and Pension Balancing Account*" for more information regarding the pension balancing account.

2018 COMPARED TO 2017. Other income (expense), net, decreased \$3.3 million and \$3.4 million at NW Holdings and NW Natural, respectively, primarily due to a \$3.0 million increase in pension and other postretirement non-service costs and \$0.8 million lower gains from company-owned life insurance, partially offset by a \$1.4 million increase in the equity portion of AFUDC.

Interest Expense, Net

Interest expense, net highlights include:

In millions	2019	2018	2017
NW Natural	\$ 41.3	\$ 37.0	\$ 37.5
Other NW Holdings interest expense	1.4	0.1	—
NW Holdings	\$ 42.7	\$ 37.1	\$ 37.5

2019 COMPARED TO 2018. Interest expense, net of amounts capitalized increased \$5.6 million and \$4.3 million at NW Holdings and NW Natural, respectively. The increase at NW Natural was primarily driven by \$2.3 million higher interest on long term debt balances, \$1.2 million lower AFUDC debt interest income, and \$0.9 million higher commercial paper and line of credit interest. The additional increase at NW Holdings was driven by interest on long-term debt at NWN Water and interest on NW Holdings' line of credit.

2018 COMPARED TO 2017. Interest expense, net of amounts capitalized, decreased \$0.4 million and \$0.5 million at NW Holdings and NW Natural, respectively, primarily due to a \$2.3 million increase in the interest-related portion of AFUDC, partially offset by increased commercial paper interest expenses of \$1.6 million.

Income Tax Expense

NW Holdings income tax expense highlights include:

In millions		2019		2018	2017		
ncome tax expense		12.6	\$	24.2	\$	41.0	
Effects from the TCJA ⁽¹⁾		_		_		3.4	
Adjusted income tax expense	\$		\$	24.2	\$	44.4	
Effective tax rate		16.2%)	26.4%	I	36.3%	
Adjusted effective tax rate		16.2%)	26.4%		39.3%	

⁽¹⁾ See the Non-GAAP Reconciliations table at the beginning of Item 7 for a reconciliation of this non-GAAP financial measure to its closest U.S.GAAP measure.

NW Natural income tax expense highlights include:

In millions	2019			2018	2017
Income tax expense	\$	14.1	\$	24.5	\$ 41.5
Effects from the TCJA ⁽¹⁾		_		—	3.0
Adjusted income tax expense	\$	14.1	\$	24.5	\$ 44.5
Effective tax rate		16.9%		26.4%	36.6%
Adjusted effective tax rate		16.9%		26.4%	39.3%

⁽¹⁾ See the Non-GAAP Reconciliations table at the beginning of Item 7 for a reconciliation of this non-GAAP financial measure to its closest U.S.GAAP measure.

The significant drivers of changes in income tax expense discussed below apply to both NW Holdings and NW Natural.

2019 COMPARED TO 2018. The effective tax rate decreased by 10.2% and 9.5% at NW Holdings and NW Natural, respectively. The reduction was driven by the return of tax reform benefits to customers, including \$5.4 million in tax benefits recognized in association with the OPUC 2018 Oregon rate case order which was offset by pension expenses. See "Executive Summary - *Deferred TCJA benefits and timing variance*" above.

2018 COMPARED TO 2017. The effective tax rate decreased by 9.9% and 10.2% at NW Holdings and NW Natural, respectively, primarily due to a decline in the statutory income tax rate from 39.5% to 26.5% as a result of the TCJA enactment in 2017. Income tax expense decreased due to the TCJA and lower pre-tax income, partially offset by a benefit of \$3.4 million recognized in 2017 at NW Holdings and a benefit of \$3.0 million recognized in 2017 at NW Natural from the remeasurement of deferred tax balances upon the TCJA enactment date. Excluding the impact of the 2017 remeasurement benefits of \$3.4 million and \$3.0 million at NW Holdings and NW Natural, respectively, the adjusted effective tax rate decreased 12.9% at both NW Holdings and NW Natural due to the statutory tax rate declining from the TCJA. See the Non-GAAP Reconciliations at the beginning of Item 7 for additional information.

Pending Sale of Gill Ranch Storage

On June 20, 2018, NWN Gas Storage, a wholly owned subsidiary of NW Holdings, entered into a Purchase and Sale Agreement (the Sale Agreement) that provides for the sale by NWN Gas Storage of all of its membership interests in Gill Ranch. Gill Ranch owns a 75% interest in the natural gas storage facility located near Fresno, California known as the Gill Ranch Gas Storage Facility. PG&E owns the remaining 25% interest in the Gill Ranch Facility.

In the Sale Agreement, NWN Gas Storage makes representations and warranties concerning, among other things, Gill Ranch, the Gill Ranch Facility and Gill Ranch's business and contractual relationships, and agrees to cause Gill Ranch to conduct its business and maintain its properties in the ordinary course, consistent with material agreements and past practice.

The Sale Agreement provides for an initial cash purchase price of \$25.0 million (subject to a working capital adjustment), plus potential additional payments to NWN Gas Storage of up to \$26.5 million in the aggregate if Gill Ranch achieves certain economic performance levels for the first three full gas storage years (April 1 of one year through March 31 of the following year) occurring after the closing and the remaining portion of the gas storage year during which the closing occurs.

The decision approving the transaction was issued by the CPUC on December 12, 2019 and the transaction is subject to other customary closing conditions and covenants, including the requirement that all of the representations and warranties be true and correct as of the closing date except, as would not, in the case of certain representations and warranties, be reasonably expected to have a material adverse effect on Gill Ranch. The agreement, as amended, is currently subject to termination by either party if the transaction has not closed by March 31, 2020. We continue to strive to close this transaction.

On January 29, 2019, PG&E filed voluntary petitions for relief under chapter 11 bankruptcy. We cannot fully predict the course of the bankruptcy proceedings or the impact on the sale and will continue to monitor the situation closely.

The results of Gill Ranch Storage have been determined to be discontinued operations and are presented separately, net of tax, from the results of continuing operations of NW Holdings for all periods presented. See Note 19 for more information on the Sale Agreement and the results of our discontinued operations.

The CPUC regulates Gill Ranch under a market-based rate model which allows for the price of storage services to be set by the marketplace. The CPUC also regulates the issuance of securities, system of accounts, and regulates intrastate storage services. The Geologic Energy Management Division of the California Department of Conservation regulations for gas storage wells were finalized in June 2018, and the U.S. Department of Transportation's Pipeline and Hazardous Materials Safety Administration (PHMSA) proposed new federal regulations for underground natural gas storage facilities, which were finalized during 2019 and increased costs for all storage providers. NW Holdings will continue to monitor and assess additional new regulations until the sale is complete.

Short-term liquidity for Gill Ranch is supported by cash balances, internal cash flow from operations, equity contributions from its parent company, and, if necessary, additional external financing.

FINANCIAL CONDITION

Capital Structure

NW Holdings' long-term goal is to maintain a strong and balanced consolidated capital structure. NW Natural targets a regulatory capital structure of 50% common equity and 50% long-term debt, which is consistent with approved regulatory allocations in Oregon, which has an allocation of 50% common equity and 50% long-term debt without recognition of short-term debt, and Washington, which has an allocation of 50% long-term debt, 1% short-term debt, and 49% common equity.

When additional capital is required, debt or equity securities are issued depending on both the target capital structure and market conditions. These sources of capital are also used to fund long-term debt retirements and short-term commercial paper maturities. See "*Liquidity and Capital Resources*" below and Note 9. Achieving our target capital structure and maintaining sufficient liquidity to meet operating requirements is necessary to maintain attractive credit ratings and provide access to the capital markets at reasonable costs.

NW Holdings' consolidated capital structure, excluding short-term debt, was as follows:

	December	31,
	2019	2018
Common equity	49.6%	50.9%
Long-term debt (including current maturities)	50.4	49.1
Total	100.0%	100.0%

NW Natural's consolidated long-term capital structure, excluding short-term debt, was as follows:

	December	⁻ 31,
	2019	2018
Common equity	49.3%	49.4%
Long-term debt (including current maturities)	50.7	50.6
Total	100.0%	100.0%

Including short-term debt balances, as of December 31, 2019 and 2018, NW Holdings' consolidated capital structure included common equity of 45.7% and 44.4%, long-term debt of 42.5% and 41.1%, and short-term debt including current maturities of long-term debt of 11.8% and 14.5%, respectively. As of December 31, 2019 and 2018, NW Natural's consolidated capital structure included common equity of 45.9% and 42.9%, long-term debt of 42.9% and 42.2%, and short-term debt including current maturities of under the term that the term debt of 11.2% and 14.9%, respectively.

During 2019, changes to NW Natural's capital structures were primarily due to capital contributions from NW Holdings and the issuance of long-term debt. Changes to NW Holdings' capital structure were primarily due to issuances of common equity at NW Holdings and the issuance of long-term debt at NW Natural. See further discussion below in "Cash Flows — *Financing Activities*".

Liquidity and Capital Resources

At December 31, 2019 and December 31, 2018, NW Holdings had approximately \$9.6 million and \$12.6 million, and NW Natural had approximately \$5.9 million and \$7.9 million, of cash and cash equivalents, respectively. In order to maintain sufficient liquidity during periods when capital markets are volatile, NW Holdings and NW Natural may elect to maintain higher cash balances and add short-term borrowing capacity. NW Holdings and NW Natural may also pre-fund their respective capital expenditures when long-term fixed rate environments are attractive.

NW Holdings

For NW Holdings, short-term liquidity is primarily provided by cash balances, dividends from its operating subsidiaries, in particular NW Natural, available cash from a multi-year credit facility, and short-term credit facilities. NW Holdings also has a universal shelf registration statement filed with the SEC for the issuance of debt and equity securities. NW Holdings long-term debt, if any, and equity issuances are primarily used to provide equity contributions to NW Holdings' operating subsidiaries for operating and capital expenditures and other corporate purposes. NW Holdings' issuance of securities is not subject to regulation by state public utility commissions, but the dividends from NW Natural to NW Holdings are subject to regulatory ring-fencing provisions. NW Holdings guarantees the debt of its wholly-owned subsidiary, NWN Water. See "*Long-Term Debt*" below for more information regarding NWN Water debt.

As part of the ring-fencing conditions agreed upon with the OPUC and WUTC in connection with the holding company reorganization, NW Natural may not pay dividends or make distributions to NW Holdings if NW Natural's credit ratings and common equity ratio, defined as the ratio of equity to long-term debt, fall below specified levels. If NW Natural's long-term secured credit ratings are below A- for S&P and A3 for Moody's, dividends may be issued so long as NW Natural's common equity ratio is 45% or more. If NW Natural's long term secured credit ratings are below BBB for S&P and Baa2 for Moody's, dividends may be issued so long as NW Natural's common equity ratio is 45% or more. If NW Natural's common equity ratio is 46% or more. Dividends may not be issued if NW Natural's long-term secured credit ratings are BB+ or below for S&P or Ba1 or below for Moody's, or if NW Natural's common equity ratio is below 44%, where the ratio is measured using common equity and long-term debt excluding imputed debt or debt-like lease obligations. In each case, common equity ratios are determined based on a preceding or projected 13-month average. In addition, there are certain OPUC notice requirements for dividends in excess of 5% of NW Natural's retained earnings.

Additionally, if NW Natural's common equity (excluding goodwill and equity associated with non-regulated assets), on a preceding or projected 13-month average basis, is less than 46% of NW Natural's capital structure, NW Natural is required to notify the OPUC, and if the common equity ratio falls below 44%, file a plan with the OPUC to restore its equity ratio to 44%. This condition is designed to ensure NW Natural continues to be adequately capitalized under the holding company structure. Under the WUTC order, the average common equity ratio must not exceed 56%.

At December 31, 2019 and 2018, NW Natural satisfied the ring-fencing provisions described above.

Based on several factors, including current cash reserves, committed credit facilities, its ability to receive dividends from its operating subsidiaries, in particular NW Natural, and an expected ability to issue long-term debt and equity securities in the capital markets, NW Holdings believes its liquidity is sufficient to meet anticipated near-term cash requirements, including all contractual obligations, investing, and financing activities as discussed in "Contractual Obligations" and "Cash Flows" below.

NW HOLDINGS DIVIDENDS. Quarterly dividends have been paid on common stock each year since NW Holdings' predecessor's stock was first issued to the public in 1951. Annual common stock dividend payments per share, adjusted for stock splits, have increased each year since 1956. The declarations and amount of future dividends to shareholders will depend upon earnings, cash flows, financial condition, NW Natural's ability to pay dividends to NW Holdings and other factors. The amount and timing of dividends payable on common stock is at the sole discretion of the NW Holdings Board of Directors.

Natural Gas Distribution Segment

For the NGD business segment, short-term borrowing requirements typically peak during colder winter months when the NGD business borrows money to cover the lag between natural gas purchases and bill collections from customers. Short-term liquidity for the NGD business is primarily provided by cash balances, internal cash flow from operations, proceeds from the sale of commercial paper notes, as well as available cash from multi-year credit facilities, short-term credit facilities, company-owned life insurance policies, the sale of long-term debt, and equity contributions from NW Holdings. NW Natural's long-term debt and contributions from NW Holdings are primarily used to finance NGD capital expenditures, refinance maturing debt, and provide temporary funding for other general corporate purposes of the NGD business.

Based on its current debt ratings (see "*Credit Ratings*" below), NW Natural has been able to issue commercial paper and longterm debt at attractive rates and has not needed to borrow or issue letters of credit from its back-up credit facility. In the event NW Natural is not able to issue new debt due to adverse market conditions or other reasons, NW Natural expects that near-term liquidity needs can be met using internal cash flows, issuing commercial paper, receiving equity contributions from NW Holdings, or, for the NGD segment, drawing upon a committed credit facility. NW Natural also has a universal shelf registration statement filed with the SEC for the issuance of secured and unsecured debt securities.

In the event senior unsecured long-term debt ratings are downgraded, or outstanding derivative positions exceed a certain credit threshold, counterparties under derivative contracts could require NW Natural to post cash, a letter of credit, or other forms of collateral, which could expose NW Natural to additional cash requirements and may trigger increases in short-term borrowings while in a net loss position. NW Natural was not required to post collateral at December 31, 2019. However, if the credit risk-related contingent features underlying these contracts were triggered on December 31, 2019, assuming long-term debt ratings dropped to non-investment grade levels, NW Natural could have been required to post \$0.1 million in collateral with our counterparties. See "Credit Ratings" below and Note 16.

Other items that may have a significant impact on NW Natural's liquidity and capital resources include NW Natural's pension contribution requirements and environmental expenditures.

PENSION CONTRIBUTION. NW Natural expects to make contributions to its company-sponsored defined benefit plan, which is closed to new employees, over the next several years until the plan is fully funded under the Pension Protection Act rules, including the rules issued under the Moving Ahead for Progress in the 21st Century Act (MAP-21), as amended. See "Application of Critical Accounting Policies—Accounting for Pensions and Postretirement Benefits" below and Note 10 for more information.

ENVIRONMENTAL EXPENDITURES. NW Natural expects to continue using cash resources to fund environmental liabilities. NW Natural has authorizations in Oregon and Washington to defer costs related to remediation of properties that are owned or were previously owned by NW Natural. In Oregon, a Site Remediation and Recovery Mechanism (SRRM) is currently in place to recovery prudently incurred costs allocable to Oregon customers, subject to an earnings test. On October 21, 2019 the WUTC authorized an Environmental Cost Recovery Mechanism (ECRM) for recovery of prudently incurred costs allocable to Washington customers beginning November 1, 2019. See Note 18, and "Results of Operations—Regulatory Matters— *Environmental Cost Deferral and Recovery*" above.

Based on several factors, including current credit ratings, NW Natural's commercial paper program, current cash reserves, committed credit facilities, and an expected ability to issue long-term debt and receive equity contributions from NW Holdings, NW Natural believes its liquidity is sufficient to meet anticipated near-term cash requirements, including all contractual obligations, investing, and financing activities as discussed in "*Contractual Obligations*" and "*Cash Flows*" below.

NW NATURAL DIVIDENDS. The declarations and amount of future dividends to NW Holdings will depend upon earnings, cash flows, financial condition, the satisfaction of OPUC and WUTC regulatory ring-fencing restrictions, and other factors. The amount and timing of dividends payable on common stock is subject to approval of the NW Natural Board of Directors.

OFF-BALANCE SHEET ARRANGEMENTS. Except for certain lease and purchase commitments, NW Holdings and NW Natural have no material off-balance sheet financing arrangements. See "*Contractual Obligations*" below.

In October 2017, NW Natural entered into a 20-year lease agreement for a new corporate operations center location in Portland, Oregon. The existing lease expires in 2020 and after an extensive search and evaluation process with a focus on seismic preparedness, safety, reliability, least cost to customers and a continued commitment to NW Natural's employees and the communities NW Natural serves, NW Natural executed a new lease for suitable commercial office space in Portland, Oregon. Payments under the lease are expected to commence in the third quarter of 2020 and total estimated base rent payments over the 20-year life of the lease are approximately \$160 million. NW Natural has the option to extend the term of the lease for two additional seven-year periods.

Additionally, the lease was analyzed in consideration of build-to-suit lease accounting guidance with the conclusion that NW Natural is the accounting owner of the asset during construction. As a result, NW Natural recognized \$25.5 million during 2018 in property, plant and equipment and an obligation in other non-current liabilities for the same amount on its consolidated balance sheet. These accounting transactions are non-cash in nature, and as such, are not included in the cash flow analysis and capital expenditures forecasts below, and have no impact on short-term liquidity. When the new lease accounting standard, ASC 842, became effective for NW Holdings and NW Natural in 2019, the associated build-to-suit asset and liability were de-recognized in accordance with the new standard. See Note 2 for more information on the impacts of the new lease standard.

Contractual Obligations

The following table shows contractual obligations from continuing operations at December 31, 2019 by maturity and type of obligation:

		P	aym	ents Due	in Y	ears Endin	g De	ecember 37	1,					
In millions		2020		2021		2022		2023		2024		nereafter	Total	
NW Natural														
Short-term debt maturities	\$	125.1	\$	_	\$	_	\$	_	\$	_	\$	_	\$	125.1
Long-term debt maturities		75.0		60.0		_		90.0		_		624.7		849.7
Interest on long-term debt		36.1		34.9		33.2		32.3		29.2		343.9		509.6
Postretirement benefit payments ⁽¹⁾		25.8		26.7		27.5		28.4		29.2		162.4		300.0
Operating leases		4.4		6.7		6.8		7.0		7.1		130.9		162.9
Gas purchases ⁽²⁾		86.2		2.9		_		_		_		_		89.1
Gas pipeline capacity commitments		81.1		74.5		72.8		72.5		71.0		530.4		902.3
Other purchase commitments ⁽³⁾		_		0.9		1.6		0.1		2.0		_		4.6
Other long-term liabilities ⁽⁴⁾		18.3		_		_		_		_		_		18.3
NW Natural Total		452.0		206.6		141.9		230.3		138.5		1,792.3		2,961.6
Other (NW Holdings)														
Short-term debt maturities		24.0		_		_		_		_		_		24.0
Short- and long-term obligations ⁽⁵⁾		1.3		35.8		0.3		0.3		0.3		1.1		39.1
NW Holdings Total	\$	477.3	\$	242.4	\$	142.2	\$	230.6	\$	138.8	\$	1,793.4	\$	3,024.7

⁽¹⁾ Postretirement benefit payments primarily consists of two NW Natural items: (1) estimated pension and other postretirement plan payments, which are funded by plan assets and future cash contributions, and (2) required payments to the Western States multiemployer pension plan due to NW Natural's withdrawal from the plan in December 2013. See Note 10.

(2) Gas purchases include contracts which use price formulas tied to monthly index prices. The commitment amounts presented incorporate the December 2019 first of month index price for each supply basin from which gas is purchased. For a summary of gas purchase and gas pipeline capacity commitments, see Note 17.

⁽³⁾ Other purchase commitments primarily consist of remaining balances under existing purchase orders.

⁽⁴⁾ Other long-term liabilities includes accrued deferred compensation plan liabilities for executives and directors. The timing of these payments are uncertain; however, these payments are unlikely to all occur in the next 12 months.

⁽⁵⁾ Short- and long-term obligations include short- and long-term debt obligations and other immaterial liabilities.

In addition to known contractual obligations listed in the above table, NW Natural has also recognized liabilities for future environmental remediation or action. The exact timing of payments beyond 12 months with respect to those liabilities cannot be reasonably estimated due to numerous uncertainties surrounding the course of environmental remediation and the preliminary nature of site investigations. See Note 18 for a further discussion of environmental remediation cost liabilities.

At December 31, 2019, 626 of NW Natural's natural gas distribution employees were members of the Office and Professional Employees International Union (OPEIU) Local No. 11. In November 2019, union employees ratified a new collective bargaining agreement that took effect on December 1, 2019, expires on May 31, 2024, and is effective thereafter from year to year unless either party serves notice of its intent to negotiate modifications to the collective bargaining agreement. The remaining terms of the collective bargaining agreement include the following items: a 1.5% wage increase effective December 1, 2019, a 2.0% wage increase effective June 1, 2020, and scheduled wage increases effective June 1 of each subsequent year of 3.5%; competitive health benefits, including 15% to 20% premium cost sharing by employees; a 401(k) contribution of 4% for employees hired after our pension plan was closed on December 31, 2009; and a 401(k) match of 50% of the first 8% of savings.

Short-Term Debt

The primary source of short-term liquidity for NW Holdings is cash balances, dividends from its operating subsidiaries, in particular NW Natural, available cash from a multi-year credit facility, and short-term credit facilities it may enter into from time to time.

The primary source of short-term liquidity for NW Natural is from the sale of commercial paper, available cash from a multi-year credit facility, and short-term credit facilities. NW Natural has a separate commercial paper program and separate bank facilities. In addition to issuing commercial paper or bank loans to meet working capital requirements, including seasonal requirements to finance gas purchases and accounts receivable, short-term debt may also be used to temporarily fund capital requirements. For NW Natural, commercial paper and bank loans are periodically refinanced through the sale of long-term debt or equity contributions from NW Holdings. Commercial paper, when outstanding, is sold through two commercial banks under an issuing and paying agency agreement and is supported by one or more unsecured revolving credit facilities. See "Credit Agreements" below.

At December 31, 2019 and 2018, NW Holdings had short-term debt outstanding of \$149.1 million and \$217.6 million, respectively, and NW Natural had short-term debt outstanding of \$125.1 million and \$217.5 million, respectively. The weighted average interest rate on short-term debt outstanding at December 31, 2019 and 2018 was 2.0% and 3.0%, respectively, at both NW Holdings and NW Natural.

Credit Agreements

NW Holdings

NW Holdings has a \$100 million credit agreement, with a feature that allows it to request increases in the total commitment amount, up to a maximum of \$150 million. The maturity date of the agreement is October 2, 2023, with available extensions of commitments for two additional one-year periods, subject to lender approval.

All lenders under the NW Holdings credit agreement are major financial institutions with committed balances and investment grade credit ratings as of December 31, 2019 as follows:

In millions		
Lender rating, by category	Loan Com	nmitment
AA/Aa	\$	100
Total	\$	100

Based on credit market conditions, it is possible one or more lending commitments could be unavailable to NW Holdings if the lender defaulted due to lack of funds or insolvency; however, NW Holdings does not believe this risk to be imminent due to the lenders' strong investment-grade credit ratings.

The NW Holdings credit agreement permits the issuance of letters of credit in an aggregate amount of up to \$40 million. The principal amount of borrowings under the credit agreement is due and payable on the maturity date. The credit agreement requires NW Holdings to maintain a consolidated indebtedness to total capitalization ratio of 70% or less. Failure to comply with this covenant would entitle the lenders to terminate their lending commitments and accelerate the maturity of all amounts outstanding. NW Holdings was in compliance with this covenant at December 31, 2019 and 2018, with consolidated indebtedness to total capitalization ratios of 54.3% and 55.6%, respectively.

The agreement also requires NW Holdings to maintain debt ratings (which are defined by a formula using NW Natural's credit ratings in the event NW Holdings does not have a credit rating) with Standard & Poor's (S&P) and Moody's Investors Service, Inc. (Moody's) and notify the lenders of any change in its senior unsecured debt ratings or senior secured debt ratings, as applicable, by such rating agencies. A change in NW Holdings' debt ratings by S&P or Moody's is not an event of default, nor is the maintenance of a specific minimum level of debt rating a condition of drawing upon the credit agreement. Rather, interest rates on any loans outstanding under the credit agreements are tied to debt ratings and therefore, a change in the debt rating would increase or decrease the cost of any loans under the credit agreements when ratings are changed. NW Holdings does not currently maintain ratings with S&P or Moody's.

Interest charges on the credit agreement are indexed to the London Interbank Offered Rate (LIBOR). The agreement contains a provision to transition to an equivalent replacement rate upon the phase-out of LIBOR in 2021.

NW Holdings had \$1.0 million and \$2.8 million of letters of credit issued and outstanding in support of acquisitions of water companies, separate from the aforementioned credit agreement, at December 31, 2019 and 2018, respectively. The \$1.0 million letter of credit outstanding at NW Holdings as of December 31, 2019 for purposes of facilitating the Suncadia acquisition was extinguished after the close of the transaction on January 31, 2020.

NW Natural

NW Natural has a multi-year credit agreement for unsecured revolving loans totaling \$300 million, with a feature that allows NW Natural to request increases in the total commitment amount, up to a maximum of \$450 million. The maturity date of the agreement is October 2, 2023 with an available extension of commitments for two additional one-year periods, subject to lender approval.

All lenders under the NW Natural credit agreement are major financial institutions with committed balances and investment grade credit ratings as of December 31, 2019 as follows:

In millions		
Lender rating, by category	Loan Commitment	
AA/Aa	\$ 300	•
Total	\$ 300	•

Based on credit market conditions, it is possible one or more lending commitments could be unavailable to NW Natural if the lender defaulted due to lack of funds or insolvency; however, NW Natural does not believe this risk to be imminent due to the lenders' strong investment-grade credit ratings.

The NW Natural credit agreement permits the issuance of letters of credit in an aggregate amount of up to \$60 million. The principal amount of borrowings under the credit agreement is due and payable on the maturity date. There were no outstanding balances under this credit agreement or the prior credit agreement at December 31, 2019 or 2018. The credit agreement requires NW Natural to maintain a consolidated indebtedness to total capitalization ratio of 70% or less. Failure to comply with this covenant would entitle the lenders to terminate their lending commitments and accelerate the maturity of all amounts outstanding. NW Natural was in compliance with this covenant at December 31, 2019 and 2018, with consolidated indebtedness to total capitalization ratios of 54.1% and 57.1%, respectively.

The agreement also requires NW Natural to maintain credit ratings with S&P and Moody's and notify the lenders of any change in NW Natural's senior unsecured debt ratings or senior secured debt ratings, as applicable, by such rating agencies. A change in NW Natural's debt ratings by S&P or Moody's is not an event of default, nor is the maintenance of a specific minimum level of debt rating a condition of drawing upon the credit agreement. Rather, interest rates on any loans outstanding under the agreement are tied to debt ratings and therefore, a change in the debt rating would increase or decrease the cost of any loans under the credit agreement when ratings are changed. See "*Credit Ratings*" below.

Interest charges on the credit agreement are indexed to LIBOR. The agreement contains a provision to transition to an equivalent replacement rate upon the phase-out of LIBOR in 2021.

Credit Ratings

NW Holdings does not currently maintain ratings with S&P or Moody's. NW Natural's credit ratings are a factor of liquidity, potentially affecting access to the capital markets including the commercial paper market. NW Natural's credit ratings also have an impact on the cost of funds and the need to post collateral under derivative contracts. The following table summarizes NW Natural's current credit ratings:

	S&P	Moody's
Commercial paper (short-term debt)	A-1	P-2
Senior secured (long-term debt)	AA-	A2
Senior unsecured (long-term debt)	n/a	Baa1
Corporate credit rating	A+	n/a
Ratings outlook	Stable	Stable

In May 2019, Moody's revised NW Natural's ratings outlook from negative to stable. In addition, the senior secured (long-term debt) rating changed from A1 to A2 and the senior unsecured (long-term debt) rating was revised from A3 to Baa1.

The above credit ratings and ratings outlook are dependent upon a number of factors, both qualitative and quantitative, and are subject to change at any time. The disclosure of or reference to these credit ratings is not a recommendation to buy, sell or hold NW Holdings or NW Natural securities. Each rating should be evaluated independently of any other rating.

As part of the ring-fencing conditions agreed upon with the OPUC and WUTC in connection with the holding company reorganization, NW Holdings and NW Natural are required to maintain separate credit ratings, long-term debt ratings, and preferred stock ratings, if any.

Long-Term Debt

The following NW Natural debentures were retired in the periods indicated:

	Year Ended December 31,				
In millions	201	19 2	2018 2	2017	
NW Natural First Mortgage Bonds					
Series 7.00% due 2017	\$	— \$	— \$	40	
Series 6.60% due 2018		—	22	—	
Series 1.55% due 2018		—	75	—	
Series 8.31% due 2019		10	—	—	
Series 7.63% due 2019		20	—	—	
Total	\$	30 \$	97 \$	40	

In June 2019, NWN Water, a wholly-owned subsidiary of NW Holdings, entered into a two-year term loan agreement for \$35.0 million. The loan carried an interest rate of 2.35% at December 31, 2019, which is based upon the one-month LIBOR rate. The loan is guaranteed by NW Holdings and requires NW Holdings to maintain a consolidated indebtedness to total capitalization ratio of 70% or less. Failure to comply with this covenant would entitle the lenders to terminate their lending commitments and accelerate the maturity of all amounts outstanding. NW Holdings was in compliance with this covenant at December 31, 2019, with a consolidated indebtedness to total capitalization ratio of 54.3%.

In June 2019, NW Natural issued \$140.0 million of FMBs consisting of \$50.0 million with an interest rate of 3.141%, due in 2029, and \$90.0 million with an interest rate of 3.869%, due in 2049. In September 2019, NW Natural retired \$10.0 million of FMBs with an interest rate of 8.310%, and retired \$20.0 million of FMBs with an interest rate of 7.630% in December 2019.

\$75.0 million of FMBs with an interest rate of 5.370% matured in February 2020. No other long-term debt is scheduled to mature over the next twelve months.

See "Financial Condition-Contractual Obligations" above for long-term debt maturing over the next five years.

Bankruptcy Ring-fencing Restrictions

As part of the ring-fencing conditions agreed upon with the OPUC and WUTC in connection with the holding company reorganization, NW Natural is required to have one director who is independent from NW Natural management and from NW Holdings and to issue one share of NW Natural preferred stock to an independent third party. NW Natural was in compliance with both of these ring-fencing provisions as of December 31, 2019 and 2018. NW Natural may file a voluntary petition for bankruptcy only if approved unanimously by the Board of Directors of NW Natural, including the independent director, and by the holder of the preferred share.

Cash Flows

Operating Activities

Changes in our operating cash flows are primarily affected by net income or loss, changes in working capital requirements, and other cash and non-cash adjustments to operating results.

Operating activity highlights include:

NW Holdings			
In millions	2019	2018	2017
Cash provided by operating activities	\$ 185.3	\$ 168.8	\$ 206.7
NW Natural	 		
In millions	2019	2018	2017
Cash provided by operating activities	\$ 186.2	\$ 173.5	\$ 206.5

The significant drivers of changes in cash provided by operating activities discussed below apply to both NW Holdings and NW Natural.

2019 COMPARED TO 2018. The significant factors contributing to the \$16.5 million and \$12.7 million increases in NW Holdings and NW Natural cash flow provided by operating activities, respectively, were as follows:

- an increase of \$27.5 million at NW Holdings and \$24.9 million at NW Natural due to net income tax refunds in 2019 compared to payments in 2018. The refunds were primarily due to bonus depreciation taken on NW Natural's North Mist gas storage expansion which was placed into service in May 2019, as well as \$6.0 million in income taxes paid in 2018 and refunded to NW Natural in 2019;
- an increase of \$10.6 million from collections of both current and deferred pension expenses as a result of NW Natural's Oregon rate case; and
- an increase of \$4.6 million due to lower contributions paid to qualified defined benefit pension plans in the current period compared to prior periods; partially offset by
- a net decrease of \$28.5 million at NW Natural from changes in receivables, inventories, and accounts payable, primarily
 reflecting increased gas purchase expenditures from average weather in the current period compared to warmer-than
 average weather in the prior period as well as higher gas costs than those included in customer rates.

2018 COMPARED TO 2017. The significant factors contributing to the \$37.9 million and \$33.0 million decreases in NW Holdings and NW Natural cash flow provided by operating activities, respectively, were as follows:

- a decrease of \$31.5 million in cash flow benefits from changes in deferred gas cost balances primarily due to higher gas prices in the fourth quarter of 2018 and lower current year PGA rates reflecting over-collections of certain fixed costs from customers in the prior year when weather was colder than average;
- a decrease of \$12.6 million due to \$27.4 million income taxes paid in 2018 due to the elimination of bonus depreciation as a result of the TCJA, compared to income taxes paid of \$14.8 million in 2017; partially offset by
- a net increase of \$10.2 million from changes in working capital related to receivables, inventories, and accounts payable reflecting warmer than average weather in 2018 compared to the prior period; and
- an increase of \$3.9 million due to a decrease in contributions paid to qualified defined benefit pension plans.

During the year ended December 31, 2019, NW Natural contributed \$11.0 million to its qualified defined benefit pension plan, compared to \$15.5 million for 2018 and \$19.4 million in 2017. The amount and timing of future contributions will depend on market interest rates and investment returns on the plans' assets. See Note 10.

Bonus income tax depreciation of 50% was available in 2017 for a large portion of capital expenditures, and bonus depreciation of 40% was available in 2019 for a large portion of North Mist gas storage expansion capital expenditures for federal and Oregon purposes. This reduced taxable income and provided cash flow benefits in 2017 and 2019. As a result of the enactment of the TCJA on December 22, 2017, bonus depreciation was eliminated for other NGD business property acquired and placed in service after December 31, 2017. Accordingly, bonus depreciation was not available for such property in 2018 and 2019, and we do not anticipate similar cash flow benefits related to bonus depreciation in the future.

We have lease and purchase commitments relating to our operating activities that are financed with cash flows from operations. For information on cash flow requirements related to leases and other purchase commitments, see "Financial Condition— *Contractual Obligations*" above and Note 17.

Investing Activities

Investing activity highlights include:

NW Holdings			
In millions	2019	2018	2017
Cash used in investing activities	\$ (303.8) \$	(217.5) \$	(214.2)
Capital expenditures	(223.5)	(214.6)	(213.3)
NW Natural			
In millions	2019	2018	2017
Cash used in investing activities	\$ (243.1) \$	(238.5) \$	(214.2)
Capital expenditures	(221.4)	(214.3)	(213.3)

2019 COMPARED TO 2018. Cash used in investing activities increased \$86.3 million and \$4.6 million at NW Holdings and NW Natural, respectively. The increase at NW Natural was driven by continued capital expenditures for customer growth, system reinforcement, and technology, as well as leasehold improvement additions at NW Natural's new corporate operations center. The increase was partially offset by lower capital expenditures due to the completion of the North Mist gas storage expansion in May 2019. The increase at NW Holdings was driven by \$55.9 million higher expenditures for acquisitions, net of cash acquired.

2018 COMPARED TO 2017. The \$3.3 million increase in cash used in investing activities at NW Holdings was primarily due to continued capital expenditures primarily related to NW Natural's North Mist gas storage expansion facility as well as customer growth, system reinforcement, technology, and facilities. The additional increase in cash used in investing activities at NW Natural was primarily due to NW Natural's initial cash contribution of \$20 million to its then subsidiary, and now parent, NW Holdings.

NW Holdings capital expenditures in 2020 are anticipated to be between \$240 million and \$280 million, of which between \$230 million and \$270 million are anticipated to occur at the NGD business. The total capital investment for the five-year period from 2020 to 2024 is expected to range from \$980 million to \$1.14 billion, with \$950 million to \$1.10 billion relating to the natural gas distribution segment and \$30 million to \$40 million related to maintenance capital expenditures for water utilities we currently own or have under a purchase and sale agreement.

The timing and amount of the core capital expenditures and projects for 2020 and the next five years could change based on regulation, growth, and cost estimates. Additional investments in our infrastructure during and after 2020 that are not incorporated in the estimates provided above will depend largely on additional regulations, growth, and expansion opportunities. Required funds for the investments are expected to be internally generated or financed with long-term debt or equity, as appropriate.

Financing Activities

Financing activity highlights include:

NW Holdings

In millions	2019	2018	2017
Cash provided by financing activities	\$ 115.5 \$	57.8 \$	7.4
Change in short-term debt	(68.5)	163.3	0.9
Change in long-term debt	145.0	(47.0)	60.0
Change in common stock issued, net	93.0	_	_
Cash dividend payments on common stock	53.3	51.3	54.0

NW Natural

In millions	20)19	2018	2017
Cash provided by financing activities	\$	54.9 \$	69.8 \$	7.4
Change in short-term debt		(92.4)	163.3	0.9
Change in long-term debt		110.0	(47.0)	60.0
Cash dividend payments on common stock		53.4	38.4	54.0

2019 COMPARED TO 2018. Cash provided by financing activities increased \$57.7 million and decreased \$14.9 million at NW Holdings and NW Natural, respectively.

The decrease in cash provided by financing activities at NW Natural was primarily driven by \$255.7 million in higher repayments of short-term debt compared to the prior period and \$15.0 million higher cash dividends paid. The decrease was partially offset by net issuances of \$110.0 million in long-term debt in the current period compared to net repayments of \$47.0 million in the prior period as well as a capital contribution from NW Holdings to NW Natural of \$93.0 million.

The increase at NW Holdings was primarily due to proceeds of \$93.0 million from the June 2019 issuance of NW Holdings common stock, the issuance of \$35.0 million of long-term debt at NW Natural Water, and short-term debt issuances of \$24 million at NW Holdings. These increases were partially offset by the debt activity at NW Natural described above.

2018 COMPARED TO 2017. The \$50.4 million increase in cash provided by financing activities at NW Holdings was primarily due to \$162.4 million higher short-term debt issuances, partially offset by \$107.0 million lower net proceeds from long-term debt activity in 2018. NW Natural cash provided by financing activities was \$12.0 million higher in comparison to NW Holdings primarily due to the payment of the November 15, 2018 dividend to NW Holdings shareholders using NW Holdings funds.

Pension Cost and Funding Status of Qualified Retirement Plans

NW Natural's pension costs are determined in accordance with accounting standards for compensation and retirement benefits. See "Application of Critical Accounting Policies and Estimates – *Pensions and Postretirement Benefits*" below. Pension expense for NW Natural's qualified defined benefit plan, which is allocated between operations and maintenance expenses, capital expenditures, and through October 31, 2018, the deferred regulatory balancing account, totaled \$16.5 million in 2019, a decrease of \$4.2 million from 2018. The fair market value of pension assets in this plan increased to \$313.1 million at December 31, 2019 from \$257.8 million at December 31, 2018. The increase was due to a gain on plan assets of \$65.1 million and \$11.0 million in employer contributions, partially offset by benefit payments of \$20.8 million.

Contributions made to NW Natural's company-sponsored qualified defined benefit pension plan are based on actuarial assumptions and estimates, tax regulations, and funding requirements under federal law. The qualified defined benefit pension plan was underfunded by \$164.3 million at December 31, 2019. NW Natural plans to make contributions during 2020 of \$29.0 million. See Note 10 for further pension disclosures.

Contingent Liabilities

Loss contingencies are recorded as liabilities when it is probable that a liability has been incurred and the amount of the loss is reasonably estimable in accordance with accounting standards for contingencies. See "Application of Critical Accounting Policies and Estimates" below. At December 31, 2019, NW Natural's total estimated liability related to environmental sites was \$136.0 million. See Note 18 and "Results of Operations—Regulatory Matters—Rate Mechanisms—Environmental Cost Deferral and Recovery" above.

NW Holdings is not currently party to any direct claims or litigation, though in the future it may be subject to claims and litigation arising in the ordinary course of business.

New Accounting Pronouncements

For a description of recent accounting pronouncements that may have an impact on our financial condition, results of operations, or cash flows, see Note 2.

APPLICATION OF CRITICAL ACCOUNTING POLICIES AND ESTIMATES

In preparing financial statements in accordance with U.S. GAAP, management exercises judgment in the selection and application of accounting principles, including making estimates and assumptions that affect reported amounts of assets, liabilities, revenues, expenses, and related disclosures in the financial statements. Management considers critical accounting policies to be those which are most important to the representation of financial condition and results of operations and which require management's most difficult and subjective or complex judgments, including accounting estimates that could result in materially different amounts if reported under different conditions or used different assumptions. Our most critical estimates and judgments for both NW Holdings and NW Natural include accounting for:

- · regulatory accounting;
- revenue recognition;
- · derivative instruments and hedging activities;
- pensions and postretirement benefits;
- · income taxes;
- · environmental contingencies; and
- · impairment of long-lived assets and goodwill.

Management has discussed its current estimates and judgments used in the application of critical accounting policies with the Audit Committees of the Boards of NW Holdings and NW Natural. Within the context of critical accounting policies and estimates, management is not aware of any reasonably likely events or circumstances that would result in materially different amounts being reported.

Regulatory Accounting

The NGD segment is regulated by the OPUC and WUTC, which establish the rates and rules governing services provided to customers, and, to a certain extent, set forth special accounting treatment for certain regulatory transactions. In general, the same accounting principles as non-regulated companies reporting under U.S. GAAP are used. However, authoritative guidance for regulated operations (regulatory accounting) requires different accounting treatment for regulated companies to show the effects of such regulation. For example, NW Natural accounts for the cost of gas using a PGA deferral and cost recovery mechanism, which is submitted for approval annually to the OPUC and WUTC. See "Results of Operations—Regulatory Matters —Rate Mechanisms—*Purchased Gas Adjustment*" above. There are other expenses and revenues that the OPUC or WUTC may require NW Natural to defer for recovery or refund in future periods. Regulatory accounting requires NW Natural to account for these types of deferred expenses (or deferred revenues) as regulatory assets (or regulatory liabilities) on the balance sheet. When the recovery of these regulatory assets from, or refund of regulatory liabilities to, customers is approved, NW Natural recognizes the expense or revenue on the income statement at the same time the adjustment to amounts included in rates charged to customers.

The conditions that must be satisfied to adopt the accounting policies and practices of regulatory accounting include:

- an independent regulator sets rates;
- the regulator sets the rates to cover specific costs of delivering service; and
- the service territory lacks competitive pressures to reduce rates below the rates set by the regulator.

Because NW Natural's NGD operations satisfy all three conditions, NW Natural continues to apply regulatory accounting to NGD operations. Future accounting changes, regulatory changes, or changes in the competitive environment could require NW Natural to discontinue the application of regulatory accounting for some or all of our regulated businesses. This would require the write-off of those regulatory assets and liabilities that would no longer be probable of recovery from or refund to customers.

Based on current accounting and regulatory competitive conditions, NW Natural believes it is reasonable to expect continued application of regulatory accounting for NGD activities. Further, it is reasonable to expect the recovery or refund of NW Natural's regulatory assets and liabilities at December 31, 2019 through future customer rates. If it is determined that all or a portion of these regulatory assets or liabilities no longer meet the criteria for continued application of regulatory accounting, then NW Natural would be required to write-off the net unrecoverable balances against earnings in the period such determination is made. The net balance in regulatory asset and liability accounts was a net liability of \$285.3 million and a net liability of \$245.3 million as of December 31, 2019 and 2018, respectively. See Note 2 for more detail on regulatory balances.

Revenue Recognition

Revenues, which are derived primarily from the sale, transportation, and storage of natural gas, are recognized upon the delivery of gas commodity or services rendered to customers.

Accrued Unbilled Revenue

For a description of the policy regarding accrued unbilled revenue, most of which relates to the NGD business at NW Natural, see Note 2. The following table presents changes in key metrics if the estimated percentage of unbilled volume at December 31 was adjusted up or down by 1%:

		2019				
In millions	Up 1	%	Dow	/n 1%		
Unbilled revenue increase (decrease) ⁽¹⁾	\$	0.9	\$	(0.9)		
Margin increase (decrease) ⁽¹⁾		0.2		(0.1)		
Net income before tax increase (decrease) ⁽¹⁾		0.1		(0.1)		
	and the second					

(1) Includes impact of regulatory mechanisms including decoupling mechanism and excludes the impact of unbilled revenue from water services.

Derivative Instruments and Hedging Activities

NW Natural's gas acquisition and hedging policies set forth guidelines for using financial derivative instruments to support prudent risk management strategies. These policies specifically prohibit the use of derivatives for trading or speculative purposes. Financial derivative contracts are utilized to hedge a portion of natural gas sale requirements. These contracts include swaps, options, and combinations of option contracts. NW Natural primarily uses these derivative financial instruments to manage commodity price variability. A small portion of NW Natural's derivative hedging strategy involves foreign currency exchange contracts.

Derivative instruments are recorded on the balance sheet at fair value. If certain regulatory conditions are met, then the derivative instrument fair value is recorded together with an offsetting entry to a regulatory asset or liability account pursuant to regulatory accounting, and no unrealized gain or loss is recognized in current income or loss. See "*Regulatory Accounting*" above for additional information. The gain or loss from the fair value of a derivative instrument subject to regulatory deferral is included in the recovery from, or refund to, NGD business customers in future periods. If a derivative contract is not subject to regulatory deferral, then the accounting treatment for unrealized gains and losses is recorded in accordance with accounting standards for derivatives and hedging which is either in current income or loss or in accumulated other comprehensive income or loss (AOCI or AOCL). Derivative contracts outstanding at December 31, 2019, 2018 and 2017 were measured at fair value using models or other market accepted valuation methodologies derived from observable market data. Estimates of fair value may change significantly from period-to-period depending on market conditions, notional amounts, and prices. These changes may have an impact on results of operations, but the impact would largely be mitigated due to the majority of derivative activities being subject to regulatory deferral treatment. For more information on derivative activity and associated regulatory treatment, see Note 2 and Note 16.

The following table summarizes the amount of losses realized from commodity price transactions for the last three years:

In millions	2019	2018		2017	
NGD business net gain (loss) on:					
Commodity Swaps	\$ 17.9	\$	7.4	\$	(7.8)

Realized gains and losses from commodity hedges shown above were recorded in cost of gas and were, or will be, included in annual PGA rates.

Pensions and Postretirement Benefits

NW Natural maintains a qualified non-contributory defined benefit pension plan, non-qualified supplemental pension plans for eligible executive officers and certain key employees, and other postretirement employee benefit plans covering certain nonunion employees. NW Natural also has a qualified defined contribution plan (Retirement K Savings Plan) for all eligible employees. Only the qualified defined benefit pension plan and Retirement K Savings Plan have plan assets, which are held in qualified trusts to fund the respective retirement benefits. The qualified defined benefit retirement plan for union and non-union employees was closed to new participants several years ago. Non-union and union employees hired or re-hired after December 31, 2006 and 2009, respectively, and employees of certain NW Holdings subsidiaries are provided an enhanced Retirement K Savings Plan benefit. The postretirement Welfare Benefit Plan for non-union employees was also closed to new participants several years ago.

Net periodic pension and postretirement benefit costs (retirement benefit costs) and projected benefit obligations (benefit obligations) are determined using a number of key assumptions including discount rates, rate of compensation increases, retirement ages, mortality rates and an expected long-term return on plan assets. See Note 10.

Accounting standards also require balance sheet recognition of unamortized actuarial gains and losses and prior service costs in AOCI or AOCL, net of tax. However, the retirement benefit costs related to qualified defined benefit pension and postretirement benefit plans are generally recovered in rates charged to NGD customers, which are set based on accounting standards for pensions and postretirement benefit expenses. As such, NW Natural received approval from the OPUC to recognize the unamortized actuarial gains and losses and prior service costs as a regulatory asset or regulatory liability based on expected rate recovery, rather than including it as AOCI or AOCL under common equity. See "*Regulatory Accounting*" above and Note 2, "*Industry Regulation*".

In 2011, NW Natural received regulatory approval from the OPUC and began deferring a portion of pension expense above or below the amount set in rates to a regulatory balancing account on the balance sheet. As part of general rate case proceedings, on October 26, 2018, the OPUC issued an order to freeze NW Natural's pension balancing account as of October 31, 2018. In March 2019, the OPUC issued an order resolving the remaining open items for NW Natural's 2018 Oregon general rate case regarding recovery of the pension balancing account. At December 31, 2019, the cumulative amount deferred for future pension cost recovery was \$54.2 million, including accrued interest. The regulatory balancing account includes the recognition of accrued interest on the account balance at NW Natural's authorized rate of return from 2011 through October 31, 2018, and at 4.3% thereafter. See "Regulatory Matters - Rate Mechanisms - *Pension Cost Deferral and Pension Balancing Account*" above for more information.

A number of factors, as discussed above, are considered in developing pension and postretirement benefit assumptions. For the December 31, 2019 measurement date, NW Natural reviewed and updated:

- the weighted-average discount rate assumptions for pensions decreased from 4.20% for 2018 to 3.16% for 2019, and our weighted-average discount rate assumptions for other postretirement benefits decreased from 4.13% for 2018 to 3.11% for 2019. The new rate assumptions were determined for each plan based on a matching of benchmark interest rates to the estimated cash flows, which reflect the timing and amount of future benefit payments. Benchmark interest rates are drawn from the FTSE Above Median Curve, which consists of high quality bonds rated AA- or higher by S&P or Aa3 or higher by Moody's;
- the expected annual rate of future compensation increases for bargaining unit employees, which was updated from a range of 3.25% to 3.50% for 2018, to the 2019 assumption of 6.50% in 2020 and 3.50% thereafter. The increase was a result of a new collective bargaining agreement that took effect December 1, 2019. The assumed range of 3.25% to 3.50% for nonbargaining employees remained unchanged;
- the expected long-term return on qualified defined benefit plan assets decreased from 7.50% to 7.25%;
- the mortality rate assumptions were updated RP-2014 mortality tables using scale MP-2018 to Pri-2012 mortality tables using scale MP-2019, which partially offset the increase of our projected benefit obligation; and
- other key assumptions, which were based on actual plan experience and actuarial recommendations.

At December 31, 2019, the net pension liability (benefit obligations less market value of plan assets) for NW Natural's qualified defined benefit plan increased \$1.9 million compared to 2018. The increase in the net pension liability is primarily due to the \$57.1 million increase to the pension benefit obligation, partially offset by a \$55.3 million increase in plan assets. The liability for non-qualified plans increased \$3.0 million, and the liability for other postretirement benefits increased \$1.4 million in 2019.

The expected long-term rate of return on plan assets is determined by averaging the expected earnings for the target asset portfolio. In developing expected return, historical actual performance and long-term return projections are analyzed, which gives consideration to the current asset mix and target asset allocation.

NW Natural believes its pension assumptions are appropriate based on plan design and an assessment of market conditions. The following shows the sensitivity of retirement benefit costs and benefit obligations to changes in certain actuarial assumptions:

Dollars in millions	Change in Assumption	Impact on 2019 Retirement Benefit Costs	Impact on Retirement Benefit Obligations at Dec. 31, 2019
Discount rate:	(0.25)%		
Qualified defined benefit plans		\$ 1.4	\$ 16.2
Non-qualified plans		_	0.8
Other postretirement benefits		0.1	0.9
Expected long-term return on plan assets:	(0.25)%		
Qualified defined benefit plans		0.7	N/A

In July 2012, President Obama signed MAP-21 into law. This legislation changed several provisions affecting pension plans, including temporary funding relief and Pension Benefit Guaranty Corporation (PBGC) premium increases, which shifts the level of minimum required contributions from the short-term to the long-term as well as increasing the operational costs of running a pension plan. MAP-21 established a new minimum and maximum corridor for segment rates based on a 25-year average of bond yields, which resulted in lower minimum contributions requirements than those under previous regulations. MAP-21, as amended, provides for the current corridor to be in effect through 2020 and subsequently broaden on an annual basis from 2021 through 2024.

Income Taxes

Valuation Allowances

Deferred tax assets are recognized to the extent that these assets are believed to be more likely than not to be realized. In making such a determination, available positive and negative evidence is considered, including future reversals of existing taxable temporary differences, projected future taxable income, tax-planning strategies, and results of recent operations. NW Holdings and NW Natural have determined that all recorded deferred tax assets are more likely than not to be realized as of December 31, 2019. See Note 11.

Uncertain Tax Benefits

The calculation of tax liabilities involves dealing with uncertainties in the application of complex tax laws and regulations in the jurisdictions in which we operate. A tax benefit from a material uncertain tax position will only be recognized when it is more likely than not that the position, or some portion thereof, will be sustained upon examination, including resolution of any related appeals or litigation processes, on the basis of the technical merits. NW Holdings and NW Natural participate in the Compliance Assurance Process (CAP) with the Internal Revenue Service (IRS). Under the CAP program companies work with the IRS to identify and resolve material tax matters before the federal income tax return is filed each year. No reserves for uncertain tax benefits were recorded during 2019, 2018, or 2017. See Note 11.

Tax Legislation

When significant proposed or enacted changes in income tax rules occur we consider whether there may be a material impact to our financial position, results of operations, cash flows, or whether the changes could materially affect existing assumptions used in making estimates of tax related balances.

On December 22, 2017, H.R.1 - An Act to provide for reconciliation pursuant to titles II and V of the concurrent resolution on the budget for fiscal year 2018, also known as the Tax Cuts and Jobs Act (TCJA), was enacted. The TCJA lowers the U.S. federal corporate income tax rate to 21% from the existing maximum rate of 35%, effective for our tax year beginning January 1, 2018. The TCJA includes specific provisions related to regulated public utilities that generally provide for the continued deductibility of interest expense and the elimination of bonus depreciation. Certain rate normalization requirements for accelerated cost recovery benefits related to regulated plant balances also continue. See Note 11 for more information on how we are impacted by the TCJA.

With respect to other tax legislation, the final tangible property regulations applicable to all taxpayers were issued on September 13, 2013 and were generally effective for taxable years beginning on or after January 1, 2014. In addition, procedural guidance related to the regulations was issued under which taxpayers may make accounting method changes to comply with the regulations. We have evaluated the regulations and do not anticipate any material impact. However, unit-of-property guidance applicable to natural gas distribution networks has not yet been issued and is expected in the near future. We will further evaluate the effect of these regulations after this guidance is issued, but believe the current method is materially consistent with the new regulations and do not expect this additional guidance to have a material effect on our financial statements.

Regulatory Matters

Regulatory tax assets and liabilities are recorded to the extent it is probable they will be recoverable from, or refunded to, customers in the future. At December 31, 2019 and 2018, NW Natural had net regulatory income tax assets of \$19.4 million and \$21.4 million, respectively, representing future rate recovery of deferred tax liabilities resulting from differences in NGD plant financial statement and tax bases and NGD plant removal costs. These regulatory assets are currently being recovered through customer rates. At December 31, 2019 and 2018, regulatory income tax assets of \$2.5 million and \$2.3 million, respectively, were recorded by NW Natural, representing probable future rate recovery of deferred tax liabilities resulting from the equity portion of AFUDC.

At December 31, 2019 and 2018, regulatory liability balances, representing the estimated net benefit to NGD customers resulting from the change in deferred taxes as a result of the TCJA, of \$205.0 million and \$217.1 million, respectively, were recorded by NW Natural. These balances include a gross up for income taxes of \$54.3 million and \$57.5 million, respectively.

The TCJA includes specific guidance for determining the shortest time period over which the portion of this regulatory liability resulting from accelerated cost recovery of NGD plant may accrue to the benefit of customers to avoid incurring federal normalization penalties. However, it is anticipated that until such time that customers receive the direct benefit of this regulatory liability, the balance, net of the additional gross up for income taxes, will continue to provide an indirect benefit to customers by reducing the NGD rate base which determines customer rates for service. Regulatory orders were issued by Oregon in March 2019 and by Washington in October 2019 addressing the provision of these TCJA tax benefits to customers. See "Regulatory Matters-Regulatory Proceeding Updates-*Tax Reform Deferral*" for more information.

NGD rates in effect for Oregon through October 31, 2018 and for Washington through October 31, 2019 included an allowance to provide for the recovery of the anticipated provision for income taxes incurred as a result of providing regulated services. The provision for income taxes during these periods included an allowance for federal income taxes determined by utilizing the pre-TCJA federal corporate income tax rate of 35 percent. NW Natural recorded an additional regulatory liability in 2018 and 2019 reflecting the deferral of estimated rate benefit for customers due to the newly enacted 21 percent federal corporate income tax rate. As of December 31, 2019 and 2018, regulatory liabilities of \$1.7 million and \$8.3 million, respectively, were recorded to reflect the estimated revenue deferral benefit to be provided to Oregon and Washington customers.

Environmental Contingencies

Environmental liabilities are accounted for in accordance with accounting standards under the loss contingency guidance when it is probable that a liability has been incurred and the amount of the loss is reasonably estimable. Amounts recorded for environmental contingencies take numerous factors into consideration, including, among other variables, changes in enacted laws, regulatory orders, estimated remediation costs, interest rates, insurance proceeds, participation by other parties, timing of payments, and the input of legal counsel and third-party experts. Accordingly, changes in any of these variables or other factual circumstances could have a material impact on the amounts recorded for our environmental liabilities. For a complete discussion of environmental accounting policies refer to Note 2. For a discussion of current environmental sites and liabilities refer to Note 18. In addition, for information regarding the regulatory treatment of these costs and NW Natural's regulatory recovery mechanism, see "Results of Operations—Regulatory Matters—Rate Mechanisms—*Environmental Cost Deferral and Recovery*" above.

Impairment of Long-Lived Assets and Goodwill

Long-lived assets

We review the carrying value of long-lived assets whenever events or changes in circumstances indicate the carrying amount of the assets might not be recoverable. Factors that would necessitate an impairment assessment of long-lived assets include a significant adverse change in the extent or manner in which the asset is used, a significant adverse change in legal factors or business climate that could affect the value of the asset, or a significant decline in the observable market value or expected future cash flows of the asset, among others.

When such factors are present, we assess the recoverability by determining whether the carrying value of the asset will be recovered through expected future cash flows. An asset is determined to be impaired when the carrying value of the asset exceeds the expected undiscounted future cash flows from the use and eventual disposition of the asset. If an impairment is indicated, we record an impairment loss for the difference between the carrying value and the fair value of the long-lived assets. Fair value is estimated using appropriate valuation methodologies, which may include an estimate of discounted cash flows.

In the fourth quarter of 2017, we recognized a non-cash pre-tax impairment of long-lived assets at the Gill Ranch Facility of \$192.5 million. We determined circumstances existed that indicated the carrying value of the assets may not be recoverable. Those circumstances included the completion of a comprehensive strategic review process that evaluated various alternatives including a potential sale, as well as contracting for available storage at lower than anticipated values for the coming storage year. Given these considerations, management was required to re-evaluate the estimated cash flows from our interests in the Gill Ranch Facility, and determined that those estimated cash flows were no longer sufficient to cover the carrying value of the assets.

We used the income approach to estimate fair value, using the estimated future net cash flows. We also compared the results of the income approach to our own recent sale experience and recent market comparable transactions in order to estimate fair value. Many factors and assumptions impact the net cash flows used. The most significant and uncertain estimates included our forecast of gas storage pricing, our ability to successfully identify and contract with higher-value customers in and/or near the northern California market that Gill Ranch serves, and exploring the possibility of providing energy storage services such as compressed gas energy storage (CGES). After completing the strategic evaluation, which included a potential sale in the fourth quarter of 2017, we lowered our views of a near-term market recovery and decreased the likelihood associated with contracting with higher-value customers. These changes were the most significant estimates that caused our cash flow projections to decrease to a point where they were no longer sufficient to cover the carrying value of the asset.

On June 20, 2018, NWN Gas Storage, NW Holdings' wholly-owned subsidiary, entered into a Purchase and Sale Agreement that provides for the sale by NWN Gas Storage of all of the membership interests in Gill Ranch. As a result of our strategic shift away from California gas storage operations and the significance of Gill Ranch's financial results in 2017, we concluded that the pending sale of Gill Ranch qualifies as assets and liabilities held for sale and discontinued operations. As such, the assets and liabilities, respectively, and, the results of Gill Ranch are presented separately from the results of continuing operations, net of tax, as discontinued operations for the consolidated results of NW Holdings in all periods presented. The expenses included in the results of discontinued operations within the consolidated results of NW Holdings are the direct operating expenses incurred by Gill Ranch that may be reasonably segregated from the costs of our continuing operations. See "Results of Operations - *Pending Sale of Gill Ranch Storage*" above, Note 4, and Note 19 for additional information.

Goodwill and Business Combinations

In a business combination, goodwill is initially measured as any excess of the acquisition-date fair value of the consideration transferred over the acquisition-date fair value of the net identifiable assets acquired.

The carrying value of goodwill is reviewed annually during the fourth quarter using balances as of October 1, or whenever events or changes in circumstance indicate that such carrying values may not be recoverable.

NW Holdings and NW Natural early-adopted ASU 2017-04, "Simplifying the Test for Goodwill Impairment" in the third quarter of 2018. The ASU removes Step 2 from the goodwill impairment test and under the amended guidance an entity should perform its annual goodwill impairment test by comparing the fair value of a reporting unit with its carrying amount and recognize an impairment charge for the amount in which the carrying amounts exceed the fair value of the reporting unit. In accordance with the updated guidance per ASU 2017-04, NW Holdings' and NW Natural's policy for goodwill assessments begins with a qualitative analysis in which events and circumstances are evaluated, including macroeconomic conditions, industry and market conditions, regulatory environments, and the overall financial performance of the reporting unit. If the qualitative assessment indicates that the carrying value may be at risk of recoverability, a quantitative evaluation is performed to measure the carrying value against the fair value of the reporting unit. This evaluation may involve the assessment of future cash flows and other subjective factors for which uncertainty exists and could impact the estimation of future cash flows. These factors include, but are not limited to, the amount and timing of future cash flows, future growth rates, and the discount rate. Unforeseen events and changes in circumstances or market conditions could adversely affect these estimates, which could result in an impairment charge. A qualitative assessment was performed during the fourth quarter of 2019 which indicated a quantitative assessment was not required; thus, no goodwill impairment was recorded. See Note 2 and Note 15 for additional information.

Business combinations are accounted for using the acquisition method. The cost of an acquisition is measured as the aggregate of the consideration transferred, measured at fair value at the acquisition date, and the fair value of any non-controlling interest in the acquiree. Acquisition-related costs are expensed as incurred. When NW Natural acquires a business, it assesses the financial assets acquired and liabilities assumed for appropriate classification and designation in accordance with the contractual terms, economic circumstances and pertinent conditions as of the acquisition date. When there is substantial judgment or uncertainty around the fair value of acquired assets, we may engage a third party expert to assist in determining the fair values of certain assets or liabilities.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

NW Holdings and NW Natural are exposed to various forms of market risk including commodity supply risk, commodity price risk, interest rate risk, foreign currency risk, credit risk and weather risk. The following describes NW Holdings' and NW Natural's exposure to these risks, as applicable.

Commodity Supply Risk

NW Natural enters into spot, short-term, and long-term natural gas supply contracts, along with associated pipeline transportation contracts, to manage commodity supply risk. Historically, NW Natural has arranged for physical delivery of an adequate supply of gas, including gas in Mist storage and off-system storage facilities, to meet expected requirements of core NGD customers. NW Natural's long-term gas supply contracts are primarily index-based and subject to monthly re-pricing, a strategy that is intended to substantially mitigate credit exposure to physical gas counterparties. Absolute notional amounts under physical gas contracts related to open positions on derivative instruments were 512.8 million therms and 472.3 million therms as of December 31, 2019 and 2018, respectively.

Commodity Price Risk

Natural gas commodity prices are subject to market fluctuations due to unpredictable factors including weather, pipeline transportation congestion, drilling technologies, market speculation, and other factors that affect supply and demand. Commodity price risk is managed with financial swaps and physical gas reserves from a long-term investment in working interests in gas leases operated by Jonah Energy. These financial hedge contracts and gas reserves volumes are generally included in NW Natural's annual PGA filing for recovery, subject to a regulatory prudence review. Notional amounts under financial derivative contracts were \$123.3 million and \$77.7 million as of December 31, 2019 and 2018, respectively. The fair value of financial swaps, based on market prices at December 31, 2019, was an unrealized gain of \$5.6 million, which would result in cash inflows of \$1.2 million in 2020, \$0.7 million in 2021, and \$3.7 million in 2022.

Interest Rate Risk

NW Holdings and NW Natural are exposed to interest rate risk primarily associated with new debt financing needed to fund capital requirements, including future contractual obligations and maturities of long-term and short-term debt. Interest rate risk is primarily managed through the issuance of fixed-rate debt with varying maturities. NW Holdings and NW Natural may also enter into financial derivative instruments, including interest rate swaps, options and other hedging instruments, to manage and mitigate interest rate exposure. NW Holdings and NW Natural did not have any interest rate swaps outstanding as of December 31, 2019 or 2018.

Foreign Currency Risk

The costs of certain pipeline and off-system storage services purchased from Canadian suppliers are subject to changes in the value of the Canadian currency in relation to the U.S. currency. Foreign currency forward contracts are used to hedge against fluctuations in exchange rates for NW Natural's commodity-related demand and reservation charges paid in Canadian dollars. Notional amounts under foreign currency forward contracts were \$6.7 million and \$6.9 million as of December 31, 2019 and 2018, respectively. If all of the foreign currency forward contracts had been settled on December 31, 2019, a gain of \$0.1 million would have been realized. See Note 16.

Credit Risk

Credit Exposure to Natural Gas Suppliers

Certain gas suppliers have either relatively low credit ratings or are not rated by major credit rating agencies. To manage this supply risk, NW Natural purchases gas from a number of different suppliers at liquid exchange points. NW Natural evaluates and monitors suppliers' creditworthiness and maintains the ability to require additional financial assurances, including deposits, letters of credit, or surety bonds, in case a supplier defaults. In the event of a supplier's failure to deliver contracted volumes of gas, the NGD business would need to replace those volumes at prevailing market prices, which may be higher or lower than the original transaction prices. NW Natural expects these costs would be subject to its PGA sharing mechanism discussed above. Since most of NW Natural's commodity supply contracts are priced at the daily or monthly market index price tied to liquid exchange points, and NW Natural has adequate storage flexibility, NW Natural believes it is unlikely a supplier default would have a material adverse effect on its financial condition or results of operations.

Credit Exposure to Financial Derivative Counterparties

Based on estimated fair value at December 31, 2019, NW Natural's overall credit exposure relating to commodity contracts is considered immaterial as it reflects amounts owed to financial derivative counterparties (see table below). However, changes in natural gas prices could result in counterparties owing NW Natural money. Therefore, NW Natural's financial derivatives policy requires counterparties to have at least an investment-grade credit rating at the time the derivative instrument is entered into and specific limits on the contract amount and duration based on each counterparty's credit rating. NW Natural actively monitors and manages derivative credit exposure and places counterparties on hold for trading purposes or requires cash collateral, letters of credit, or guarantees as circumstances warrant.

The following table summarizes NW Natural's overall financial swap and option credit exposure, based on estimated fair value, and the corresponding counterparty credit ratings. The table uses credit ratings from S&P and Moody's, reflecting the higher of the S&P or Moody's rating or a middle rating if the entity is split-rated with more than one rating level difference:

	Financial Der Unrealiz	rivative Po zed Fair V	osition by Credit R /alue Gain (Loss)	lating
In millions	2019	2019		
AA/Aa	\$	4.0	\$	(6.3)
A/A		1.6		(1.5)
Total	\$	5.6	\$	(7.8)

In most cases, NW Natural also mitigates the credit risk of financial derivatives by having master netting arrangements with counterparties which provide for making or receiving net cash settlements. Generally, transactions of the same type in the same currency that have settlement on the same day with a single counterparty are netted and a single payment is delivered or received depending on which party is due funds.

Additionally, NW Natural has master contracts in place with each derivative counterparty, most of which include provisions for posting or calling for collateral. Generally, NW Natural can obtain cash or marketable securities as collateral with one day's notice. Various collateral management strategies are used to reduce liquidity risk. The collateral provisions vary by counterparty but are not expected to result in the significant posting of collateral, if any. NW Natural has performed stress tests on the portfolio and concluded the liquidity risk from collateral calls is not material. Derivative credit exposure is primarily with investment grade counterparties rated AA-/Aa3 or higher. Contracts are diversified across counterparties, business types and countries to reduce credit and liquidity risk.

At December 31, 2019, financial derivative credit risk on a volumetric basis was geographically concentrated 38% in the United States and 62% in Canada, based on counterparties' location. At December 31, 2018, financial derivative credit risk on a volumetric basis was geographically concentrated 33% in the United States and 67% in Canada with our counterparties.

Credit Exposure to Insurance Companies

Credit exposure to insurance companies for loss or damage claims could be material. NW Holdings and NW Natural regularly monitor the financial condition of insurance companies who provide general liability insurance policy coverage to NW Holdings, NW Natural, their predecessors, and their subsidiaries.

Weather Risk

NW Natural has a weather normalization mechanism in Oregon; however, it is exposed to weather risk primarily from NGD business operations. A large percentage of NGD margin is volume driven, and current rates are based on an assumption of average weather. NW Natural's weather normalization mechanism in Oregon is for residential and commercial customers, which is intended to stabilize the recovery of NGD business fixed costs and reduce fluctuations in customers' bills due to colder or warmer than average weather. Customers in Oregon are allowed to opt out of the weather normalization mechanism. As of December 31, 2019, approximately 8% of Oregon customers had opted out. In addition to the Oregon customers opting out, Washington residential and commercial customers account for approximately 11% of our total customer base and are not covered by weather normalization. The combination of Oregon and Washington customers not covered by a weather normalization mechanism is 18% of all residential and commercial customers. See "Results of Operations—Regulatory Matters —Rate Mechanisms—*WARM*" above.

TABLE OF CONTENTS

		Page
1.	Management's Reports on Internal Control Over Financial Reporting	72
2.	Reports of Independent Registered Public Accounting Firm	74
3.	Consolidated Financial Statements:	
	Consolidated Statements of Comprehensive Income (Loss) of Northwest Natural Holding Company for the Years Ended December 31, 2019, 2018, and 2017	77
	Consolidated Balance Sheets of Northwest Natural Holding Company at December 31, 2019 and 2018	78
	Consolidated Statements of Shareholders' Equity of Northwest Natural Holding Company for the Years Ended December 31, 2019, 2018, and 2017	80
	Consolidated Statements of Cash Flows of Northwest Natural Holding Company for the Years Ended December 31, 2019, 2018, and 2017	81
	Consolidated Statements of Comprehensive Income (Loss) of Northwest Natural Gas Company for the Years Ended December 31, 2019, 2018, and 2017	83
	Consolidated Balance Sheets of Northwest Natural Gas Company at December 31, 2019 and 2018	84
	Consolidated Statements of Shareholder's Equity of Northwest Natural Gas Company for the Years Ended December 31, 2019, 2018, and 2017	86
	Consolidated Statements of Cash Flows of Northwest Natural Gas Company for the Years Ended December 31, 2019, 2018, and 2017	87
	Notes to Consolidated Financial Statements	88
4.	Quarterly Financial Information	133
5.	Supplementary Data for the Years Ended December 31, 2019, 2018, and 2017:	
	Financial Statement Schedules	
	Schedule I - Condensed Financial Information of Northwest Natural Holding Company at December 31, 2019 and 2018, and for the Years Ended December 31, 2019 and 2018	135
	Schedule II – Valuation and Qualifying Accounts and Reserves of Northwest Natural Holding Company and Northwest Natural Gas Company for the Years Ended December 31, 2019, 2018, and 2017	139
Supp	plemental Schedules Omitted	

All other schedules are omitted because of the absence of the conditions under which they are required or because the required information is included elsewhere in the financial statements.

NW HOLDINGS MANAGEMENT'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING

NW Holdings management is responsible for establishing and maintaining adequate internal control over financial reporting as defined in Rules 13a-15(f) or 15d-15(f) under the Securities Exchange Act of 1934, as amended. NW Holdings' internal control over financial reporting is designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles in the United States of America (U.S. GAAP). NW Holdings' internal control over financial reporting includes those policies and procedures that:

(i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions involving company assets;

(ii) provide reasonable assurance that transactions are recorded as necessary to permit the preparation of financial statements in accordance with U.S. GAAP, and that receipts and expenditures are being made only in accordance with authorizations of management and the NW Holdings Board of Directors; and

(iii) provide reasonable assurance regarding prevention or timely detection of the unauthorized acquisition, use, or disposition of NW Holdings' assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements or fraud. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

NW Holdings management assessed the effectiveness of NW Holdings' internal control over financial reporting as of December 31, 2019. In making this assessment, NW Holdings management used the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) in *Internal Control-Integrated Framework (2013)*.

Based on NW Holdings management's assessment and those criteria, NW Holdings management has concluded that it maintained effective internal control over financial reporting as of December 31, 2019.

The effectiveness of internal control over financial reporting as of December 31, 2019 has been audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm, as stated in their report which appears in this annual report.

<u>/s/ David H. Anderson</u> David H. Anderson President and Chief Executive Officer

<u>/s/ Frank H. Burkhartsmeyer</u> Frank H. Burkhartsmeyer Senior Vice President and Chief Financial Officer

March 2, 2020

NW NATURAL MANAGEMENT'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING

NW Natural management is responsible for establishing and maintaining adequate internal control over financial reporting as defined in Rules 13a-15(f) or 15d-15(f) under the Securities Exchange Act of 1934, as amended. NW Natural's internal control over financial reporting is designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles in the United States of America (U.S. GAAP). NW Natural's internal control over financial reporting includes those policies and procedures that:

(i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions involving company assets;

(ii) provide reasonable assurance that transactions are recorded as necessary to permit the preparation of financial statements in accordance with U.S. GAAP, and that receipts and expenditures are being made only in accordance with authorizations of management and the NW Natural Board of Directors; and

(iii) provide reasonable assurance regarding prevention or timely detection of the unauthorized acquisition, use, or disposition of NW Natural's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements or fraud. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

NW Natural management assessed the effectiveness of NW Natural's internal control over financial reporting as of December 31, 2019. In making this assessment, NW Natural management used the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) in *Internal Control-Integrated Framework (2013)*.

Based on NW Natural management's assessment and those criteria, NW Natural management has concluded that it maintained effective internal control over financial reporting as of December 31, 2019.

<u>/s/ David H. Anderson</u> David H. Anderson President and Chief Executive Officer

<u>/s/ Frank H. Burkhartsmeyer</u> Frank H. Burkhartsmeyer Senior Vice President and Chief Financial Officer

March 2, 2020

To the Board of Directors and Shareholders of Northwest Natural Holding Company:

Opinions on the Financial Statements and Internal Control over Financial Reporting

We have audited the accompanying consolidated balance sheets of Northwest Natural Holding Company and its subsidiaries (the "Company") as of December 31, 2019 and 2018, and the related consolidated statements of comprehensive income (loss), of shareholders' equity and of cash flows for each of the three years in the period ended December 31, 2019, including the related notes and financial statement schedules listed in the accompanying index (collectively referred to as the "consolidated financial statements"). We also have audited the Company's internal control over financial reporting as of December 31, 2019, based on criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Company as of December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019 in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2019, based on criteria established in Internal Control - Integrated Framework (2013) issued by the COSO.

Change in Accounting Principle

As discussed in Note 2 to the consolidated financial statements, the Company changed the manner in which it accounts for leases in 2019.

Basis for Opinions

The Company's management is responsible for these consolidated financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying NW Holdings' Management's Report on Internal Control over Financial Reporting. Our responsibility is to express opinions on the Company's consolidated financial statements and on the Company's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Critical Audit Matters

The critical audit matters communicated below are matters arising from the current period audit of the consolidated financial statements that were communicated or required to be communicated to the audit committee and that (i) relate to accounts or disclosures that are material to the consolidated financial statements and (ii) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

Accounting for the Effects of Regulatory Matters

As described in Note 2 to the consolidated financial statements, the Company has operations that are subject to the actions of regulators where rates are designed to recover specific costs of providing regulatory services, which requires the Company to record regulatory assets and liabilities. As of December 31, 2019, there were \$385.1 million of regulatory assets and \$670.4 million of regulatory liabilities. The Company's Natural Gas Distribution segment is regulated by the Oregon Public Utility Commission and Washington Utilities and Transportation Commission, which establish the rates and rules governing services provided to customers, and, to a certain extent, set forth special accounting treatment for certain regulatory transactions. Regulatory accounting requires management to account for deferred expenses (or deferred revenues) as regulatory liabilities to, customers is approved, management recognizes the expense or revenue on the income statement at the same time the adjustment to amounts included in rates charged to customers.

The principal considerations for our determination that performing procedures relating to the Company's accounting for the effects of regulatory matters is a critical audit matter are there was a significant amount of judgment by management in assessing the potential outcomes and related accounting impacts associated with the ongoing accounting application of regulated operations, including alternative revenue programs, deferral and amortization accounting, and the results of earnings tests. This in turn led to a high degree of auditor judgment, subjectivity and effort in performing procedures and evaluating audit evidence obtained related to the recovery of regulatory assets and the settlement of regulatory liabilities.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to management's assessment of regulatory proceedings and the ongoing accounting application of regulated operations, including alternative revenue programs, deferral and amortization accounting, and the results of earnings tests, and including the probability of recovering incurred costs and related accounting and disclosure impacts. These procedures also included, among others, evaluating (i) the reasonableness of management's assessment regarding the probability of recovery of regulatory assets and settlement of regulatory liabilities, and (ii) the sufficiency of the disclosures in the consolidated financial statements. Testing the regulatory assets and formulas outlined in rate orders, other regulatory correspondence, and application of relevant regulatory precedents.

Valuation of Acquired Tangible Assets for Sunriver Environmental, LLC

As described in Note 15 to the consolidated financial statements, in May 2019 the Company completed the acquisition of Sunriver Water, LLC and Sunriver Environmental, LLC for cash consideration of \$55.0 million, subject to closing adjustments, which resulted in \$14.0 million of tangible assets being recorded. The Sunriver acquisition met the criteria of a business combination, and as such a preliminary allocation of the consideration to the acquired assets based on their estimated fair value as of the acquisition date was performed. The fair value determination was made using existing regulatory conditions for assets associated with Sunriver Water, LLC as well as existing market conditions and standard valuation approaches for assets associated with Sunriver Environmental, LLC in order to allocate value as determined by an independent third party assessor for certain assets, which involved the use of management judgment in determining the significant estimates and assumptions used by the assessor, with the remaining difference from the consideration transferred being recorded as goodwill.

The principal considerations for our determination that performing procedures relating to the valuation of acquired tangible assets for Sunriver Environmental, LLC is a critical audit matter are (i) there was a high degree of auditor judgment and subjectivity in applying procedures relating to the fair value measurement of tangible assets acquired due to the significant amount of judgment by management when developing the estimate; (ii) significant audit effort was required in evaluating the estimate of the appraisal values of the acquired assets; and (iii) the audit effort involved the use of professionals with specialized skill and knowledge.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to business combination acquisition accounting, including controls over management's valuation of the tangible assets, as well as controls over the estimate of the appraisal values of the acquired property. These procedures also included, among others, reading the purchase agreement and testing management's process for estimating the fair value of the acquired tangible assets. Professionals with specialized skill and knowledge were used to assist in the evaluation of management's valuation method and the reasonableness of the estimate of the appraisal values of the acquired assets.

/s/ PricewaterhouseCoopers LLP Portland, Oregon March 2, 2020 We have served as the Company's auditor since 1997. To the Board of Directors and Shareholder of Northwest Natural Gas Company:

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Northwest Natural Gas Company and its subsidiaries (the "Company") as of December 31, 2019 and 2018, and the related consolidated statements of comprehensive income (loss), of shareholders' equity and of cash flows for each of the three years in the period ended December 31, 2019, including the related notes and financial statement schedule listed in the accompanying index (collectively referred to as the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019 in conformity with accounting principles generally accepted in the United States of America.

Change in Accounting Principle

As discussed in Note 2 to the consolidated financial statements, the Company changed the manner in which it accounts for leases in 2019.

Basis for Opinion

These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's consolidated financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits of these consolidated financial statements in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ PricewaterhouseCoopers LLP Portland, Oregon March 2, 2020

We have served as the Company's auditor since 1997.

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (LOSS)

		Year E	Inde	ed Decemb	ber	31,
In thousands, except per share data		2019		2018		2017
Operating revenues	\$	746,372	\$	706,143	\$	755,038
Operating expenses:						
Cost of gas		254,911		255,519		324,795
Operations and maintenance		178,191		156,698		152,358
Environmental remediation		12,337		11,127		15,291
General taxes		32,388		32,172		30,639
Revenue taxes		30,325		30,082		_
Depreciation and amortization		91,496		85,156		81,053
Other operating expenses		3,250		3,227		_
Total operating expenses		602,898	_	573,981		604,136
Income from operations		143,474		132,162		150,902
Other income (expense), net		(22,836)		(3,601)		(295)
Interest expense, net		42,685		37,059		37,526
Income before income taxes		77,953		91,502	_	113,081
Income tax expense		12,642		24,191		41,008
Net income from continuing operations		65,311		67,311	_	72,073
Loss from discontinued operations, net of tax		(3,576)		(2,742)		(127,696)
Net income (loss)		61,735		64,569		(55,623)
Other comprehensive income (loss):						
Change in employee benefit plan liability, net of taxes of \$956 for 2019, (\$166) for 2018, and \$735 for 2017		(2,655)		476		(2,059)
Amortization of non-qualified employee benefit plan liability, net of taxes of (\$172) for 2019, (\$278) for 2018, and (\$374) for 2017		476		774		572
Comprehensive income (loss)	\$	59,556	\$	65,819	\$	(57,110)
Average common shares outstanding:						
Basic		29,786		28,803		28,669
Diluted		29,859		28,873		28,753
Earnings from continuing operations per share of common stock:						
Basic	\$	2.19	\$	2.34	\$	2.51
Diluted		2.19		2.33		2.51
Loss from discontinued operations per share of common stock:						
Basic	\$	(0.12)	\$	(0.10)	\$	(4.45)
Diluted		(0.12)		(0.09)		(4.44)
Earnings (loss) per share of common stock:						
	-	0.07	•	0.04	•	(4.0.4)
Basic	\$	2.07	\$	2.24	\$	(1.94)

CONSOLIDATED BALANCE SHEETS

	As of Dece	ember 31,		
In thousands	2019	2018		
Assets:				
Current assets:				
Cash and cash equivalents	\$ 9,648	\$ 12,633		
Accounts receivable	67,137	66,970		
Accrued unbilled revenue	56,192	57,827		
Allowance for uncollectible accounts	(673)	(977)		
Regulatory assets	41,929	41,930		
Derivative instruments	6,802	9,001		
Inventories	43,985	44,149		
Gas reserves	15,278	16,647		
Income taxes receivable	256	6,000		
Other current assets	38,004	28,472		
Discontinued operations - current assets	15,134	13,269		
Total current assets	293,692	295,921		
Non-current assets:				
Property, plant, and equipment	3,476,746	3,414,490		
Less: Accumulated depreciation	1,037,847	993,118		
Total property, plant, and equipment, net	2,438,899	2,421,372		
Gas reserves	48,394	66,197		
Regulatory assets	343,146	371,786		
Derivative instruments	3,337	725		
Other investments	63,333	63,558		
Operating lease right of use asset	2,950	_		
Assets under sales-type leases	146,310	_		
Goodwill	49,929	8,954		
Other non-current assets	38,464	14,149		
Total non-current assets	3,134,762	2,946,741		
Total assets	\$ 3,428,454	\$ 3,242,662		

CONSOLIDATED BALANCE SHEETS

In thousands Liabilities and equity: Current liabilities: Short-term debt Current maturities of long-term debt Accounts payable Taxes accrued Interest accrued	2019 \$ 149,100 75,109 113,370	2018 \$ 217,620 29,989
Current liabilities: Short-term debt Current maturities of long-term debt Accounts payable Taxes accrued	75,109 113,370	, ,
Current liabilities: Short-term debt Current maturities of long-term debt Accounts payable Taxes accrued	75,109 113,370	, ,
Current maturities of long-term debt Accounts payable Taxes accrued	75,109 113,370	, ,
Accounts payable Taxes accrued	113,370	29,989
Taxes accrued	2	
Taxes accrued		115,878
Interest accrued	11,971	11,023
	7,451	7,306
Regulatory liabilities	44,657	47,436
Derivative instruments	2,000	12,381
Operating lease liabilities	2,101	_
Other current liabilities	62,705	54,492
Discontinued operations - current liabilities	13,709	12,959
Total current liabilities	482,173	509,084
Long-term debt	805,955	706,247
Deferred credits and other non-current liabilities:		
Deferred tax liabilities	295,643	280,463
Regulatory liabilities	625,717	611,560
Pension and other postretirement benefit liabilities	228,129	221,886
Derivative instruments	609	3,025
Operating lease liabilities	841	—
Other non-current liabilities	123,388	147,763
Total deferred credits and other non-current liabilities	1,274,327	1,264,697
Commitments and contingencies (see Note 17 and Note 18)		
Equity:		
Common stock - no par value; authorized 100,000 shares; issued and outstanding 30,472 and 28,880 at December 31, 2019 and 2018, respectively	558,282	457,640
Retained earnings	318,450	312,182
Accumulated other comprehensive loss	(10,733)	(7,188
 Total equity	865,999	762,634
Total liabilities and equity	\$ 3,428,454	\$ 3,242,662

[THIS PAGE INTENTIONALLY LEFT BLANK]

CONSOLIDATED STATEMENTS OF SHAREHOLDERS' EQUITY

	С	ommon						Total
In thousands		Stock	E	Earnings		ncome (Loss)		Equity
Balance at December 31, 2016	\$	445,187	\$	412,261	\$	(6,951)	\$	850,497
Comprehensive income (loss)		_		(55,623)		(1,487)		(57,110)
Dividends on common stock, \$1.88 per share		_		(54,289)		_		(54,289)
Stock-based compensation		2,882		_		_		2,882
Shares issued pursuant to equity based plans		796		_		_		796
Balance at December 31, 2017		448,865		302,349		(8,438)		742,776
Comprehensive income				64,569		1,250		65,819
Dividends on common stock, \$1.89 per share				(54,736)		_		(54,736)
Stock-based compensation		3,020		_		_		3,020
Shares issued pursuant to equity based plans		5,175		_		_		5,175
Cash purchase of shares for business combination		(7,945)		_		_		(7,945)
Value of shares transferred for business combination		8,525		_		_		8,525
Balance at December 31, 2018		457,640		312,182		(7,188)		762,634
Comprehensive income (loss)		_		61,735		(2,179)		59,556
Dividends on common stock, \$1.90 per share		_		(56,833)		_		(56,833)
Stock-based compensation		2,601		_		_		2,601
Shares issued pursuant to equity based plans		5,085		_		_		5,085
Issuance of common stock, net of issuance costs		92,956		_		_		92,956
Reclassification of tax effects from the TCJA		_		1,366		(1,366)		_
Balance at December 31, 2019	\$	558,282	\$	318,450	\$	(10,733)	\$	865,999

CONSOLIDATED STATEMENTS OF CASH FLOWS

	Year E	Year Ended Decemb					
In thousands	2019	2018	2017				
Operating activities:							
Net income (loss)	\$ 61,735	\$ 64,569	\$ (55,623)				
Adjustments to reconcile net income (loss) to cash provided by operations:							
Depreciation and amortization	91,496	85,156	81,053				
Regulatory amortization of gas reserves	19,172	16,684	16,353				
Deferred income taxes	6,317	14,356	(52,414				
Qualified defined benefit pension plan expense	16,497	8,108	5,364				
Contributions to qualified defined benefit pension plans	(10,970)	(15,540)	(19,430)				
Deferred environmental expenditures, net	(16,226)	(14,528)	(13,716)				
Environmental remediation expense	12,337	11,127	15,291				
Regulatory revenue deferral from the TCJA	853	7,929	_				
Regulatory disallowance of pension costs	10,500	_	_				
Other	13,907	1,596	2,102				
Changes in assets and liabilities:							
Receivables, net	5,844	181	3,282				
Inventories	(5,969)	3,207	5,600				
Income and other taxes	4,528	(16,904)	6,734				
Accounts payable	(16,485)	16,792	1,092				
Interest accrued	145	526	807				
Deferred gas costs	(23,471)	(14,395)	17,122				
Decoupling mechanism	18,661	4,497	4,436				
Other, net	(4,285)	(3,945)	(8,529				
Discontinued operations	712	(645)	197,180				
Cash provided by operating activities	185,298	168,771	206,704				
Investing activities:							
Capital expenditures	(223,471)	(214,636)	(213,325				
Acquisitions, net of cash acquired	(56,786)	(873)	_				
Leasehold improvement expenditures	(18,812)	(4,415)	_				
Other	(2,885)	1,898	(577)				
Discontinued operations	(1,827)	573	(270)				
Cash used in investing activities	(303,781)	(217,453)	(214,172				

CONSOLIDATED STATEMENTS OF CASH FLOWS

	Year Ended December 31,					
	20	019	2	2018		2017
Financing activities:						
Repurchases related to stock-based compensation		_		_		(2,034)
Proceeds from stock options exercised		2,015		1,546		4,819
Proceeds from common stock issued	9	2,956		_		_
Long-term debt issued	17	5,000		50,000		100,000
Long-term debt retired	(3	0,000)	(97,000)		(40,000)
Change in short-term debt	(6	8,520)	1	63,274		900
Cash dividend payments on common stock	(5	3,339)	(51,311)		(53,957)
Stock purchases related to acquisitions		—		(7,951)		_
Other	(2,614)		(715)		(2,309)
Cash provided by financing activities	11	5,498		57,843		7,419
Increase (decrease) in cash and cash equivalents	(2,985)		9,161		(49)
Cash and cash equivalents, beginning of period	1	2,633		3,472		3,521
Cash and cash equivalents, end of period	\$	9,648	\$	12,633	\$	3,472
Supplemental disclosure of cash flow information:						
Interest paid, net of capitalization	\$4	1,231	\$	35,324	\$	34,787
Income taxes paid (refunded)		(96)		27,370		14,780

[THIS PAGE INTENTIONALLY LEFT BLANK]

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (LOSS)

		Year E	End	31,		
In thousands		2019		2018		2017
Operating revenues	\$	739,944	\$	705,571	\$	755,038
Operating expenses:						
Cost of gas		255,135		255,743		325,019
Operations and maintenance		169,091		155,225		152,180
Environmental remediation		12,337		11,127		15,291
General taxes		32,075		32,086		30,602
Revenue taxes		30,325		30,082		_
Depreciation and amortization		90,405		84,986		81,024
Other operating expenses		3,230		3,223		_
Total operating expenses		592,598		572,472		604,116
Income from operations		147,346		133,099		150,922
Other income (expense), net		(22,968)		(3,599)		(198)
Interest expense, net		41,339		36,992		37,526
Income before income taxes		83,039		92,508		113,198
Income tax expense		14,065		24,459		41,478
Net income from continuing operations		68,974		68,049		71,720
Loss from discontinued operations, net of tax		_		(1,723)		(127,343)
Net income (loss)		68,974		66,326		(55,623)
Other comprehensive income (loss):						
Change in employee benefit plan liability, net of taxes of \$956 for 2019, (\$166) for 2018, and \$735 for 2017		(2,655)		476		(2,059)
Amortization of non-qualified employee benefit plan liability, net of taxes of (\$172) for 2019, (\$278) for 2018, and (\$374) for 2017		476		774		572
Comprehensive income (loss)	\$	66,795	\$	67,576	\$	(57,110)

CONSOLIDATED BALANCE SHEETS

	As of Decei	mber 31,		
In thousands	2019	2018		
Assets:				
Current assets:				
Cash and cash equivalents	\$ 5,919	\$ 7,947		
Accounts receivable	66,823	66,824		
Accrued unbilled revenue	56,139	57,773		
Receivables from affiliates	787	4,166		
Allowance for uncollectible accounts	(672)	(975		
Regulatory assets	41,929	41,930		
Derivative instruments	6,802	9,001		
Inventories	43,896	44,126		
Gas reserves	15,278	16,647		
Other current assets	33,258	25,347		
Total current assets	270,159	272,786		
Non-current assets:				
Property, plant, and equipment	3,456,075	3,410,439		
Less: Accumulated depreciation	1,036,593	992,855		
Total property, plant, and equipment, net	2,419,482	2,417,584		
Gas reserves	48,394	66,197		
Regulatory assets	343,146	371,786		
Derivative instruments	3,337	725		
Other investments	49,837	49,922		
Operating lease right of use asset	2,760	_		
Assets under sales-type leases	146,310	_		
Other non-current assets	38,062	13,736		
Total non-current assets	3,051,328	2,919,950		
Total assets	\$ 3,321,487	\$ 3,192,736		

CONSOLIDATED BALANCE SHEETS

	As of Decem	As of December 31,							
In thousands	2019	2018							
Liabilities and equity:									
Current liabilities:									
Short-term debt	\$ 125,100 \$	217,500							
Current maturities of long-term debt	74,907	29,989							
Accounts payable	111,641	114,937							
Payables to affiliates	1,546	523							
Taxes accrued	11,717	10,990							
Interest accrued	7,441	7,273							
Regulatory liabilities	44,657	47,436							
Derivative instruments	2,000	12,381							
Operating lease liabilities	1,979	_							
Other current liabilities	61,438	53,027							
Total current liabilities	442,426	494,056							
Long-term debt	769,081	704,134							
Deferred credits and other non-current liabilities:									
Deferred tax liabilities	309,297	294,739							
Regulatory liabilities	625,717	611,560							
Pension and other postretirement benefit liabilities	228,129	221,886							
Derivative instruments	609	3,025							
Operating lease liabilities	772	_							
Other non-current liabilities	123,260	147,668							
Total deferred credits and other non-current liabilities	1,287,784	1,278,878							
Commitments and contingencies (see Note 17 and Note 18)									
Equity:									
Common stock	319,557	226,452							
Retained earnings	513,372	496,404							
Accumulated other comprehensive loss	(10,733)	(7,188							
Total equity	822,196	715,668							
Total liabilities and equity	\$ 3,321,487 \$	3,192,736							

CONSOLIDATED STATEMENTS OF SHAREHOLDER'S EQUITY

				Accumulated Other	
In thousands	Corr	nmon Stock	Retained Earnings	Comprehensive Income (Loss)	Total Equity
Balance at December 31, 2016	\$	445,187	\$ 412,261	\$ (6,951)	\$ 850,497
Comprehensive income (loss)	·		(55,623)	(1,487)	(57,110)
Dividends on common stock		_	(54,289)		(54,289)
Stock-based compensation		2,882	_	_	2,882
Shares issued pursuant to equity based plans		796	_	_	796
Balance at December 31, 2017		448,865	 302,349	(8,438)	742,776
Comprehensive income			66,326	1,250	67,576
Dividends on common stock			(41,035)	_	(41,035)
Stock-based compensation ⁽¹⁾		2,161	_	_	2,161
Shares issued pursuant to equity based plans ⁽¹⁾		3,075	_	_	3,075
Transfer of investments to NW Holdings as of October 1, 2018		(227,649)	168,764	_	(58,885)
Balance at December 31, 2018		226,452	 496,404	(7,188)	715,668
Comprehensive income (loss)			68,974	(2,179)	66,795
Dividends on common stock			(53,372)	_	(53,372)
Capital contribution from parent		93,105	_	_	93,105
Reclassification of tax effects from the TCJA		_	1,366	(1,366)	_
Balance at December 31, 2019	\$	319,557	\$ 513,372	\$ (10,733)	\$ 822,196

⁽¹⁾ Stock-based compensation is based on stock awards of NW Natural to be issued in shares of NW Holdings.

CONSOLIDATED STATEMENTS OF CASH FLOWS

	Year E	ber 31,	
In thousands	2019	2018	2017
Operating activities:			
Net income (loss)	\$ 68,974	\$ 66,326	\$ (55,623
Adjustments to reconcile net income (loss) to cash provided by operations:			
Depreciation and amortization	90,405	84,986	81,024
Regulatory amortization of gas reserves	19,172	16,684	16,353
Deferred income taxes	4,046	12,330	15,894
Qualified defined benefit pension plan expense	16,497	8,108	5,364
Contributions to qualified defined benefit pension plans	(10,970)	(15,540)	(19,430
Deferred environmental expenditures, net	(16,226)	(14,528)	(13,716
Environmental remediation expense	12,337	11,127	15,291
Regulatory revenue deferral from the TCJA	853	7,929	
Regulatory disallowance of pension costs	10,500	·	
Other	12,317	883	2,003
Changes in assets and liabilities:	,		,
Receivables, net	9,264	(3,920)	3,215
Inventories	(5,990)	3,212	5,601
Income and other taxes	496	(7,854)	6,730
Accounts payable	(18,548)	13,937	3,332
Interest accrued	168	500	807
Deferred gas costs	(23,471)		17,122
Decoupling mechanism	18,661	4,497	4,436
Other, net	(2,309)	(3,958)	(8,291
Discontinued operations	(2,000)	3,184	126,371
Cash provided by operating activities	186,176	173,508	206,483
Investing activities:	100,170	175,500	200,403
Capital expenditures	(221,380)	(214,328)	(213,325
Leasehold improvement expenditures	(18,812)		(215,525
Other	(18,812) (2,885)	(4,415) 898	(577
	(2,005)		-
Discontinued operations	(243,077)	(20,617)	(270
Cash used in investing activities	(243,077)	(238,462)	(214,172
Financing activities:			(2.024
Repurchases related to stock-based compensation		4.000	(2,034
Proceeds from stock options exercised		1,368	4,819
Long-term debt issued	140,000	50,000	100,000
Long-term debt retired	(30,000)	(97,000)	(40,000
Change in short-term debt	(92,400)	163,300	900
Cash contributions received from parent	93,155		
Cash dividend payments on common stock	(53,372)	(38,387)	(53,957
Other	(2,510)	(1,539)	(2,309
Discontinued operations		(7,951)	
Cash provided by financing activities	54,873	69,791	7,419
Increase (decrease) in cash and cash equivalents	(2,028)	4,837	(270
Cash and cash equivalents, beginning of period	7,947	3,110	3,380
Cash and cash equivalents, end of period	\$ 5,919	\$ 7,947	\$ 3,110
Supplemental disclosure of cash flow information:			
Interest paid, net of capitalization	\$ 39,927	\$ 35,305	\$ 34,787
Income taxes paid (refunded)	2,479	27,350	14,780

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

1. ORGANIZATION AND PRINCIPLES OF CONSOLIDATION

On October 1, 2018, we completed a reorganization into a holding company structure. In this reorganization, shareholders of NW Natural (the predecessor publicly held parent company) became shareholders of NW Holdings on a one-for-one basis; maintaining the same number of shares and ownership percentage as held in NW Natural immediately prior to the reorganization. NW Natural became a wholly-owned subsidiary of NW Holdings. Additionally, certain subsidiaries of NW Natural were transferred to NW Holdings. This reorganization was accounted for as a transaction among entities under common control. As required under accounting guidance, these subsidiaries are presented in this report as discontinued operations in the consolidated results of NW Natural. See Note 19 for additional information.

The accompanying consolidated financial statements represent the respective, consolidated financial results of NW Holdings and NW Natural and all respective companies that each registrant directly or indirectly controls, either through majority ownership or otherwise. This is a combined report of NW Holdings and NW Natural, which includes separate consolidated financial statements for each registrant.

NW Natural's regulated natural gas distribution activities are reported in the natural gas distribution (NGD) segment. The NGD segment is NW Natural's core operating business and serves residential, commercial, and industrial customers in Oregon and southwest Washington. The NGD segment is the only reportable segment for NW Holdings and NW Natural. All other activities, water businesses, and other investments are aggregated and reported as other at their respective registrant.

In addition, NW Holdings has reported discontinued operations results related to the pending sale of Gill Ranch Storage, LLC (Gill Ranch). All prior period amounts have been retrospectively adjusted to reflect this change both in operational results and reportable segments for NW Holdings and NW Natural, respectively. These reclassifications and the reorganization activities described above had no effect on the prior year's consolidated results of operations, financial condition, or cash flows. See Note 19 for additional information.

NW Holdings' direct and indirect wholly-owned subsidiaries as of the filing date of this report include:

- Northwest Natural Gas Company (NW Natural);
 - Northwest Energy Corporation (Energy Corp);
 - NWN Gas Reserves LLC (NWN Gas Reserves);
- NW Natural Energy, LLC (NWN Energy);
 - NW Natural Gas Storage, LLC (NWN Gas Storage);
 - Gill Ranch Storage, LLC (Gill Ranch), which is presented as a discontinued operation;
 - NNG Financial Corporation (NNG Financial);
 - KB Pipeline Company (KB);
- NW Natural Water Company, LLC (NWN Water);
 - Falls Water Co., Inc. (Falls Water);
 - Salmon Valley Water Company;
 - NW Natural Water of Oregon, LLC (NWN Water of Oregon);
 - Sunstone Water, LLC;
 - Sunstone Infrastructure, LLC;
 - Sunriver Water, LLC (Sunriver Water);
 - Sunriver Environmental, LLC (Sunriver Environmental);
 - NW Natural Water of Washington, LLC (NWN Water of Washington);
 - Cascadia Water, LLC (Cascadia Water);
 - Cascadia Infrastructure, LLC;
 - Suncadia Water Company, LLC (Suncadia Water);
 - Suncadia Environmental Company, LLC (Suncadia Environmental);
 - NW Natural Water of Idaho, LLC (NWN Water of Idaho);
 - Gem State Water Company, LLC (Gem State Water);
 - Gem State Infrastructure, LLC; and
 - NW Natural Water of Texas, LLC (NWN Water of Texas);
 - Blue Topaz Water, LLC; and
 - Blue Topaz Infrastructure, LLC.

Investments in corporate joint ventures and partnerships that NW Holdings does not directly or indirectly control, and for which it is not the primary beneficiary, include NNG Financial's investment in Kelso-Beaver Pipeline and NWN Energy's investment in Trail West Holdings, LLC (TWH), which are accounted for under the equity method. NW Holdings and its direct and indirect subsidiaries are collectively referred to herein as NW Holdings, and NW Natural and its direct and indirect subsidiaries are collectively referred to herein as NW Holdings financial statements of NW Holdings and NW Natural are presented after elimination of all intercompany balances and transactions.

During the second quarter of 2018, we moved forward with our long-term strategic plans, which include a shift away from the California gas storage business. In June 2018, NWN Gas Storage, a wholly-owned subsidiary of NW Natural at the time and now a wholly-owned subsidiary of NW Holdings, entered into a Purchase and Sale Agreement that provides for the sale of all of the membership interests in its wholly-owned subsidiary, Gill Ranch. We received regulatory approval for the sale in December 2019. We have concluded that the pending sale of Gill Ranch qualifies as assets and liabilities held for sale and discontinued operations. As such, the results of Gill Ranch have been presented as a discontinued operation for NW Holdings for all periods presented and for NW Natural up until the holding company reorganization was effective on October 1, 2018 on the consolidated statements of comprehensive income and cash flows, and the assets and liabilities associated with Gill Ranch have been classified as discontinued operations. Additionally, we reevaluated reportable segments and concluded that the remaining gas storage activities no longer met the requirements to be separately reported as a segment. Interstate Storage Services is now reported in Other under NW Natural and NW Holdings as applicable, and all prior periods reflect this change. See Note 4, which provides segment information.

Notes to the consolidated financial statements reflect the activity of continuing operations for both NW Holdings and NW Natural for all periods presented, unless otherwise noted.

2. SIGNIFICANT ACCOUNTING POLICIES

Use of Estimates

The preparation of financial statements in conformity with generally accepted accounting principles in the United States of America (U.S. GAAP) requires management to make estimates and assumptions that affect reported amounts in the consolidated financial statements and accompanying notes. Actual amounts could differ from those estimates, and changes would most likely be reported in future periods. Management believes the estimates and assumptions used are reasonable.

Industry Regulation

NW Holdings' principal business is to operate as a holding company for NW Natural and its other subsidiaries.

NW Natural's principal business is the distribution of natural gas, which is regulated by the OPUC and WUTC. NW Natural also has natural gas storage services, which are regulated by the FERC, and to a certain extent by the OPUC and WUTC. Additionally, certain of NW Holdings' subsidiaries own water businesses, which are regulated by the public utility commission in the state in which the water utility is located, which is currently Oregon, Washington and Idaho. Accounting records and practices of the regulated businesses conform to the requirements and uniform system of accounts prescribed by these regulatory authorities in accordance with U.S. GAAP. The businesses in which customer rates are regulated by the OPUC, WUTC, IPUC, and FERC have approved cost-based rates which are intended to allow such businesses to earn a reasonable return on invested capital.

In applying regulatory accounting principles, NW Holdings and NW Natural capitalize or defer certain costs and revenues as regulatory assets and liabilities pursuant to orders of the applicable state public utility commission, which provide for the recovery of revenues or expenses from, or refunds to, utility customers in future periods, including a return or a carrying charge in certain cases.

Amounts NW Natural deferred as regulatory assets and liabilities were as follows:

	Rec	Julatory A	ry Assets		
In thousands	2019		2018		
Current:					
Unrealized loss on derivatives ⁽¹⁾	\$ 2	,000 \$	12,381		
Gas costs	20	,140	2,873		
Environmental costs ⁽²⁾	4	,762	5,601		
Decoupling ⁽³⁾	1	,969	9,140		
Pension balancing ⁽⁴⁾	5	,939	_		
Income taxes	2	,209	2,218		
Other ⁽⁵⁾	4	,910	9,717		
Total current	\$ 41	,929 \$	41,930		
Non-current:					
Unrealized loss on derivatives ⁽¹⁾	\$	609 \$	3,025		
Pension balancing ⁽⁴⁾		,251	74,173		
Income taxes		,173	19,185		
Pension and other postretirement benefit liabilities	173	,262	174,993		
Environmental costs ⁽²⁾	87	,624	76,149		
Gas costs	2	,866	9,978		
Decoupling ⁽³⁾		_	2,545		
Other ⁽⁵⁾	13	,361	11,738		
Total non-current	\$ 343	,146 \$	371,786		
	Bog		hilition		
In thousands	2019	llatory Lia	2018		
Current:	2010		2010		
Gas costs	\$ 1	223 \$	17,182		
Unrealized gain on derivatives ⁽¹⁾		622	8,740		
Decoupling ⁽³⁾		831	2,264		
Income taxes ⁽⁶⁾		435	2,204		
Other ⁽⁵⁾		546	19,250		
Total current		657 \$	47,436		
Non-current:			,		
Gas costs	\$ 2	013 \$	552		
Unrealized gain on derivatives ⁽¹⁾		337	725		
Decoupling ⁽³⁾		378			
Income taxes ⁽⁶⁾	198		225,408		
Accrued asset removal costs ⁽⁷⁾	401		380,464		
Other ⁽⁵⁾		877	4,411		
Total non-current		717 \$	611,560		
⁽¹⁾ Unrealized gains or losses on derivatives are non-cash items and, therefore, o					

⁽¹⁾ Unrealized gains or losses on derivatives are non-cash items and, therefore, do not earn a rate of return or a carrying charge. These amounts are recoverable through natural gas distribution rates as part of the annual Purchased Gas Adjustment (PGA) mechanism when realized at settlement.

⁽²⁾ Refer to the Environmental Cost Deferral and Recovery table in Note 18 for a description of environmental costs.

⁽³⁾ This deferral represents the margin adjustment resulting from differences between actual and expected volumes.

⁽⁴⁾ Refer to Note 10 for information regarding the deferral of pension expenses.

⁽⁵⁾ Balances consist of deferrals and amortizations under approved regulatory mechanisms and typically earn a rate of return or carrying charge.

⁽⁶⁾ This balance represents estimated amounts associated with the Tax Cuts and Jobs Act. See Note 11.

⁽⁷⁾ Estimated costs of removal on certain regulated properties are collected through rates. See "Accounting Policies—*Plant, Property, and Accrued Asset Removal Costs*" below.

The amortization period for NW Natural's regulatory assets and liabilities ranges from less than one year to an indeterminable period. Regulatory deferrals for gas costs payable are generally amortized over 12 months beginning each November 1 following the gas contract year during which the deferred gas costs are recorded. Similarly, most other regulatory deferred accounts are amortized over 12 months. However, certain regulatory account balances, such as income taxes, environmental costs, pension

liabilities, and accrued asset removal costs, are large and tend to be amortized over longer periods once NW Natural has agreed upon an amortization period with the respective regulatory agency.

We believe all costs incurred and deferred at December 31, 2019 are prudent. All regulatory assets and liabilities are reviewed annually for recoverability, or more often if circumstances warrant. If we should determine that all or a portion of these regulatory assets or liabilities no longer meet the criteria for continued application of regulatory accounting, then NW Natural would be required to write-off the net unrecoverable balances in the period such determination is made.

Regulatory interest income of \$19.6 million and \$7.6 million and regulatory interest expense of \$12.3 million and \$5.9 million was recognized within other income (expense), net for the years ended December 31, 2019 and 2018, respectively.

Environmental Regulatory Accounting

See Note 18 for information about the SRRM and OPUC orders regarding implementation.

New Accounting Standards

NW Natural and NW Holdings consider the applicability and impact of all accounting standards updates (ASUs) issued by the Financial Accounting Standards Board (FASB). ASUs not listed below were assessed and determined to be either not applicable or are expected to have minimal impact on consolidated financial position or results of operations.

Recently Adopted Accounting Pronouncements

ACCUMULATED OTHER COMPREHENSIVE INCOME. On February 14, 2018, the FASB issued ASU 2018-02, "Income Statement—Reporting Comprehensive Income: Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income." This update was issued in response to concerns from certain stakeholders regarding the current requirements under U.S. GAAP that deferred tax assets and liabilities are adjusted for a change in tax laws or rates, and the effect is to be included in income from continuing operations in the period of the enactment date. This requirement is also applicable to items in accumulated other comprehensive income where the related tax effects were originally recognized in other comprehensive income. The adjustment of deferred taxes due to the new corporate income tax rate enacted through the Tax Cuts and Jobs Act (TCJA) on December 22, 2017 recognized in income from continuing operations causes the tax effects of items within accumulated other comprehensive income (referred to as stranded tax effects) to not reflect the appropriate tax rate. The amendments in this update allow but do not require a reclassification from accumulated other comprehensive income to retained earnings for stranded tax effects resulting from the TCJA and require certain disclosures about stranded tax effects. NW Natural adopted and applied the standard in the first quarter of 2019. NW Natural elected to reclassify the stranded tax effects of the TCJA of \$1.4 million from accumulated other comprehensive loss to retained earnings in the period of adoption. Going forward, our policy is that, in the event that regulation changes result in stranded tax effects, such amounts will be reclassified from accumulated other comprehensive income (loss) to retained earnings in the final period that the related deferred tax balance remeasurement is expected to impact income from continuing operations.

DERIVATIVES AND HEDGING. On August 28, 2017, the FASB issued ASU 2017-12, "Derivatives and Hedging: Targeted Improvements to Accounting for Hedging Activities." The purpose of the amendment is to more closely align hedge accounting with companies' risk management strategies. The ASU amends the accounting for risk component hedging, the hedged item in fair value hedges of interest rate risk, and amounts excluded from the assessment of hedge effectiveness. The guidance also amends the recognition and presentation of the effect of hedging instruments and includes other simplifications of hedge accounting. The amendments in this update were effective beginning January 1, 2019 and were applied prospectively to hedging instruments. The adoption did not have an impact on the financial statements or disclosures of NW Holdings or NW Natural.

GOODWILL. On January 26, 2017, the FASB issued ASU 2017-04, "Simplifying the Test for Goodwill Impairment." The ASU removes Step 2 from the goodwill impairment test and under the amended guidance an entity should perform its annual goodwill impairment test by comparing the fair value of a reporting unit with its carrying amount and recognize an impairment charge for the amount in which the carrying amounts exceed the fair value of the reporting unit. The amendments in this standard are effective for us beginning January 1, 2020 and early adoption is permitted for interim or annual goodwill impairment tests performed after January 1, 2017. NW Natural early adopted ASU 2017-04 in the quarter ended September 30, 2018. The adoption of this ASU did not materially affect the financial statements and disclosures of NW Holdings or NW Natural.

LEASES. On February 25, 2016, the FASB issued ASU 2016-02, "Leases," which revises the existing lease accounting guidance. Pursuant to the new standard ("ASC 842"), lessees are required to recognize all leases, including operating leases that are greater than 12 months at lease commencement, on the balance sheet and record corresponding right of use assets and lease liabilities. Lessor accounting will remain substantially the same under the new standard. Quantitative and qualitative disclosures are also required for users of the financial statements to have a clear understanding of the nature of our leasing activities.

We elected the alternative prospective transition approach for adoption beginning January 1, 2019. All comparative periods prior to January 1, 2019 will retain the financial reporting and disclosure requirements of ASC 840 "Leases" ("ASC 840"). There was no cumulative effect adjustment to the opening balance of retained earnings recorded as of January 1, 2019 for adoption as there were no initial direct costs or other capitalized costs related to the legacy leases that needed to be derecognized upon adoption of ASC 842.

We elected the land easement optional practical expedient to not evaluate existing or expired land easements that were not previously accounted for as leases under the ASC 840 lease guidance. For the existing lease portfolio, we did not elect the optional practical expedient package to retain the legacy lease accounting conclusions upon adoption; we re-assessed our existing contracts under the new leasing standard including whether the contract meets the definition of a lease and lease classification. As a result, we determined that most of our underground gas storage contracts no longer meet the definition of a lease under the new lease standard.

In October 2017, NW Natural entered into a 20-year operating lease agreement commencing in 2020 for a new corporate operations center location in Portland, Oregon. The lease was analyzed under ASC 840 in consideration of build-to-suit lease accounting guidance with the conclusion that NW Natural was the owner of the asset during construction for accounting purposes. Under the new lease standard, ASC 842, NW Natural is no longer considered the owner of the asset during construction for accounting purposes. As such, in January 2019 we derecognized the build-to-suit asset and liability balances of \$26.0 million as of December 31, 2018 that were previously recorded within property, plant and equipment and other non-current liabilities in the consolidated balance sheet.

Upon adoption on January 1, 2019, NW Holdings recorded an operating lease right of use asset and an associated operating lease liability of approximately \$7.3 million, of which \$7.0 million was recorded at NW Natural. Lease liabilities are measured using NW Natural's incremental borrowing rate based on information available at the lease commencement date in determining the present value of lease payments. As of December 31, 2019, our lessee portfolio under the new standard consists primarily of our current leased corporate operations center, which expires in 2020. Our lessor portfolio primarily consists of our North Mist Facility which classified as a sales-type lease. See Note 7 for more information.

CLOUD COMPUTING. On August 29, 2018, the FASB issued ASU 2018-15, "Customer's Accounting for Implementation Costs Incurred in a Cloud Computing Arrangement That Is a Service Contract." The purpose of the amendment is to align the requirements for capitalizing implementation costs incurred in a hosting arrangement that is a service contract with the requirements for capitalizing implementation costs incurred to develop or obtain internal-use software. The amendments in this update are effective for us beginning January 1, 2020. Early adoption is permitted, and NW Holdings and NW Natural early adopted ASU 2018-15 in the quarter ended March 31, 2019 utilizing the prospective application methodology. The adoption of this ASU did not materially affect the financial statements and disclosures of NW Holdings or NW Natural.

Recently Issued Accounting Pronouncements

INCOME TAXES. On December 18, 2019, the FASB issued ASU 2019-12, "Income Taxes (Topic 740): Simplifying the Accounting for Income Taxes." The purpose of the amendment is to reduce cost and complexity related to accounting for income taxes by removing certain exceptions to the general principles and improving consistent application for other areas in Topic 740. The amendments in this update are effective for us beginning January 1, 2021. Early adoption is permitted. The amended presentation and disclosure guidance should be applied retrospectively. We do not expect this ASU to materially affect the financial statements and disclosures of NW Holdings or NW Natural.

RETIREMENT BENEFITS. On August 28, 2018, the FASB issued ASU 2018-14, "Changes to the Disclosure Requirements for Defined Benefit Plans." The purpose of the amendment is to modify the disclosure requirements for defined benefit pension and other postretirement plans. The amendments in this update are effective for us beginning January 1, 2020. Early adoption is permitted. The amended presentation and disclosure guidance should be applied retrospectively. We do not expect this ASU to materially affect the financial statements and disclosures of NW Holdings or NW Natural.

FAIR VALUE MEASUREMENT. On August 28, 2018, the FASB issued ASU 2018-13, "Changes to the Disclosure Requirements for Fair Value Measurement." The purpose of the amendment is to modify the disclosure requirements for fair value measurements. The amendments in this update are effective for us beginning January 1, 2020. Early adoption is permitted. The amendments on changes in unrealized gains and losses, the range and weighted average of significant unobservable inputs used to develop Level 3 fair value measurements and the narrative description of measurement uncertainty should be applied prospectively. All other amendments should be applied retrospectively. NW Holdings and NW Natural do not have either Level 3 fair value measurements or transfers between Level 1 or Level 2 in their current portfolios, and therefore, we do not expect this ASU to have an impact on the financial statements and disclosures of NW Holdings or NW Natural.

CREDIT LOSSES. On June 16, 2016, the FASB issued ASU 2016-13, "Measurement of Credit Losses on Financial Instruments," which applies to financial assets subject to credit losses and measured at amortized cost. The new standard will require financial assets measured at amortized cost to be presented at the net amount expected to be collected and the allowance for credit losses is to be recorded as a valuation account that is deducted from the amortized cost basis. The amendments in this update are effective beginning January 1, 2020. Early adoption is permitted for fiscal years beginning after December 15, 2018. The majority of NW Holdings' and NW Natural's financial assets are short-term in nature, such as trade receivables, and therefore, we do not expect this ASU to materially affect our financial statements and disclosures.

Accounting Policies

The accounting policies discussed below apply to both NW Holdings and NW Natural.

Plant, Property, and Accrued Asset Removal Costs

Plant and property are stated at cost, including capitalized labor, materials, and overhead. In accordance with regulatory accounting standards, the cost of acquiring and constructing long-lived plant and property generally includes an allowance for funds used during construction (AFUDC) or capitalized interest. AFUDC represents the regulatory financing cost incurred when debt and equity funds are used for construction (see "*AFUDC*" below). When constructed assets are subject to market-based rates rather than cost-based rates, the financing costs incurred during construction are included in capitalized interest in accordance with U.S. GAAP, not as regulatory financing costs under AFUDC.

In accordance with long-standing regulatory treatment, our depreciation rates consist of three components: one based on the average service life of the asset, a second based on the estimated salvage value of the asset, and a third based on the asset's estimated cost of removal. We collect, through rates, the estimated cost of removal on certain regulated properties through depreciation expense, with a corresponding offset to accumulated depreciation. These removal costs are non-legal obligations as defined by regulatory accounting guidance. Therefore, we have included these costs as non-current regulatory liabilities rather than as accumulated depreciation on our consolidated balance sheets. In the rate setting process, the liability for removal costs is treated as a reduction to the net rate base on which the NGD business has the opportunity to earn its allowed rate of return.

The costs of NGD plant retired or otherwise disposed of are removed from NGD plant and charged to accumulated depreciation for recovery or refund through future rates. Gains from the sale of regulated assets are generally deferred and refunded to customers. For assets not related to NGD, we record a gain or loss upon the disposal of the property, and the gain or loss is recorded in operating income or loss in the consolidated statements of comprehensive income.

The provision for depreciation of NGD property, plant, and equipment is recorded under the group method on a straight-line basis with rates computed in accordance with depreciation studies approved by regulatory authorities. The weighted-average depreciation rate for NGD assets in service was approximately 2.9% for 2019, and 2.8% for 2018, and 2017, reflecting the approximate weighted-average economic life of the property. This includes 2019 weighted-average depreciation rates for the following asset categories: 2.6% for transmission and distribution plant, 2.2% for gas storage facilities, 5.7% for general plant, and 4.7% for intangible and other fixed assets.

AFUDC. Certain additions to NGD plant include AFUDC, which represents the net cost of debt and equity funds used during construction. AFUDC is calculated using actual interest rates for debt and authorized rates for ROE, if applicable. If short-term debt balances are less than the total balance of construction work in progress, then a composite AFUDC rate is used to represent interest on all debt funds, shown as a reduction to interest charges, and on ROE funds, shown as other income. While cash is not immediately recognized from recording AFUDC, it is realized in future years through rate recovery resulting from the higher NGD cost of service. Our composite AFUDC rate was 3.9% in 2019, 5.2% in 2018, and 5.5% in 2017.

IMPAIRMENT OF LONG-LIVED ASSETS. We review the carrying value of long-lived assets whenever events or changes in circumstances indicate the carrying amount of the assets may not be recoverable. Factors that would necessitate an impairment assessment of long-lived assets include a significant adverse change in the extent or manner in which the asset is used, a significant adverse change in legal factors or business climate that could affect the value of the asset, or a significant decline in the observable market value or expected future cash flows of the asset, among others.

When such factors are present, we assess the recoverability by determining whether the carrying value of the asset will be recovered through expected future cash flows. An asset is determined to be impaired when the carrying value of the asset exceeds the expected undiscounted future cash flows from the use and eventual disposition of the asset. If an impairment is indicated, we record an impairment loss for the difference between the carrying value and the fair value of the long-lived assets. Fair value is estimated using appropriate valuation methodologies, which may include an estimate of discounted cash flows.

In the fourth quarter of 2017, a non-cash pre-tax impairment of long-lived assets at the Gill Ranch Facility of \$192.5 million was recognized. The income approach was used to estimate fair value, using the estimated future net cash flows. We also compared the results of the income approach to our own recent sale experience and recent market comparable transactions in order to estimate fair value. The Gill Ranch Facility was originally included in the gas storage segment, which has since been eliminated, and is now included in discontinued operations. We determined circumstances existed that indicated the carrying value of the assets may not be recoverable. Those circumstances included the completion of a comprehensive strategic review process that evaluated various alternatives including a potential sale, as well as contracting for available storage at lower than anticipated values for the coming storage year. Given these considerations, management re-evaluated the estimated cash flows from our interests in the Gill Ranch Facility, and determined that those estimated cash flows were no longer sufficient to cover the carrying value of the assets. The results of Gill Ranch have been presented as a discontinued operation for NW Holdings and NW Natural on the consolidated statements of comprehensive income and cash flows, and the assets and liabilities associated with Gill Ranch have been classified as discontinued operations assets and liabilities on the consolidated balance sheets. See Note 19 for additional information.

Cash and Cash Equivalents

For purposes of reporting cash flows, cash and cash equivalents include cash on hand plus highly liquid investment accounts with original maturity dates of three months or less. At December 31, 2019 and 2018, NW Holdings had outstanding checks of approximately \$3.2 million and \$2.7 million, respectively, substantially all of which is recorded at NW Natural. These balances are included in accounts payable in the NW Holdings and NW Natural balance sheets.

Revenue Recognition and Accrued Unbilled Revenue

Revenues, derived primarily from the sale and transportation of natural gas, are recognized upon delivery of the gas commodity or service to customers. Revenues include accruals for gas or water delivered but not yet billed to customers based on estimates of deliveries from meter reading dates to month end (accrued unbilled revenue). Accrued unbilled revenue is dependent upon a number of factors that require management's judgment, including total natural gas receipts and deliveries, customer use of natural gas or water by billing cycle, and weather factors. Accrued unbilled revenue is reversed the following month when actual billings occur. NW Holdings' accrued unbilled revenue at December 31, 2019 and 2018 was \$56.2 million and \$57.8 million respectively, substantially all of which is accrued unbilled revenue at NW Natural.

Revenues not related to NGD are derived primarily from Interstate Storage Services, asset management activities at the Mist gas storage facility, and other investments and business activities. At the Mist underground storage facility, revenues are primarily firm service revenues in the form of fixed monthly reservation charges. In addition, we also have asset management service revenue from an independent energy marketing company that optimizes commodity, storage, and pipeline capacity release transactions. Under this agreement, guaranteed asset management revenue is recognized using a straight-line, pro-rata methodology over the term of each contract. Revenues earned above the guaranteed amount are recognized as they are earned.

Revenue Taxes

Revenue-based taxes are primarily franchise taxes, which are collected from customers and remitted to taxing authorities. In 2018, revenue taxes are included in operating expenses in the statements of comprehensive income for NW Holdings and NW Natural. In 2017 and 2016, revenue taxes are included in operating revenues in the statements of comprehensive income for NW Holdings and NW Natural. All revenue taxes are recorded at NW Natural and were \$30.3 million, \$30.1 million, and \$19.1 million for 2019, 2018, and 2017, respectively.

Accounts Receivable and Allowance for Uncollectible Accounts

Accounts receivable consist primarily of amounts due for natural gas sales and transportation services to NGD customers, plus amounts due for gas storage services. At NW Holdings and NW Natural we establish allowances for uncollectible accounts (allowance) for trade receivables, including accrued unbilled revenue, based on the aging of receivables, collection experience of past due account balances including payment plans, and historical trends of write-offs as a percent of revenues. A specific allowance is established and recorded for large individual customer receivables when amounts are identified as unlikely to be partially or fully recovered. Inactive accounts are written-off against the allowance after they are 120 days past due or when deemed uncollectible. Differences between the estimated allowance and actual write-offs will occur based on a number of factors, including changes in economic conditions, customer creditworthiness, and natural gas prices. The allowance for uncollectible accounts is adjusted quarterly, as necessary, based on information currently available.

Inventories

NGD gas inventories, which consist of natural gas in storage for NGD customers, are stated at the lower of weighted-average cost or net realizable value. The regulatory treatment of these inventories provides for cost recovery in customer rates. NGD gas inventories injected into storage are priced in inventory based on actual purchase costs, and those withdrawn from storage are charged to cost of gas during the period they are withdrawn at the weighted-average inventory cost.

Gas storage inventories, which primarily represent inventories at the Gill Ranch Facility and are included in Discontinued operations - current assets on the consolidated balance sheets, mainly consist of natural gas received as fuel-in-kind from storage customers. Gas storage inventories are valued at the lower of average cost or net realizable value. Cushion gas is not included in inventory balances, is recorded at original cost, and is classified as a long-term plant asset.

Materials and supplies inventories consist of inventories both related to and unrelated to NGD and are stated at the lower of average cost or net realizable value.

NW Natural's NGD and gas storage inventories totaled \$27.5 million and \$29.9 million at 2019 and 2018, respectively. At December 31, 2019 and 2018, NW Holdings' materials and supplies inventories, which are comprised primarily of NW Natural's materials and supplies, totaled \$16.5 million and \$14.2 million, respectively.

Gas Reserves

Gas reserves are payments to acquire and produce natural gas reserves. Gas reserves are stated at cost, adjusted for regulatory amortization, with the associated deferred tax benefits recorded as liabilities on the balance sheet. The current portion is calculated based on expected gas deliveries within the next fiscal year. NW Natural recognizes regulatory amortization of this asset on a volumetric basis calculated using the estimated gas reserves and the estimated therms extracted and sold each month. The amortization of gas reserves is recorded to cost of gas along with gas production revenues and production costs. See Note 13.

Derivatives

NW Natural's derivatives are measured at fair value and recognized as either assets or liabilities on the balance sheet. Changes in the fair value of the derivatives are recognized in earnings unless specific regulatory or hedge accounting criteria are met. Accounting for derivatives and hedges provides an exception for contracts intended for normal purchases and normal sales for which physical delivery is probable. In addition, certain derivative contracts are approved by regulatory authorities for recovery or refund through customer rates. Accordingly, the changes in fair value of these approved contracts are deferred as regulatory assets or liabilities pursuant to regulatory accounting principles. NW Natural's financial derivatives generally qualify for deferral under regulatory accounting. NW Natural's index-priced physical derivative contracts also qualify for regulatory deferral accounting treatment.

Derivative contracts entered into for NGD requirements after the annual PGA rate has been set and maturing during the PGA year are subject to the PGA incentive sharing mechanism. In Oregon, NW Natural participates in a PGA sharing mechanism under which it is required to select either an 80% or 90% deferral of higher or lower gas costs such that the impact on current earnings from the gas cost sharing is either 20% or 10% of gas cost differences compared to PGA prices, respectively. For each of the PGA years in Oregon beginning November 1, 2019, 2018, and 2017, NW Natural selected the 90% deferral of gas cost differences. In Washington, 100% of the differences between the PGA prices and actual gas costs are deferred. See Note 16.

NW Natural's financial derivatives policy sets forth the guidelines for using selected derivative products to support prudent risk management strategies within designated parameters. NW Natural's objective for using derivatives is to decrease the volatility of gas prices and cash flows without speculative risk. The use of derivatives is permitted only after the risk exposures have been identified, are determined not to exceed acceptable tolerance levels, and are determined necessary to support normal business activities. NW Natural does not enter into derivative instruments for trading purposes. All derivatives for NW Holdings are currently held at NW Natural.

Fair Value

In accordance with fair value accounting, we use the following fair value hierarchy for determining inputs for our debt, pension plan assets, and derivative fair value measurements:

- Level 1: Valuation is based on quoted prices for identical instruments traded in active markets;
- Level 2: Valuation is based on quoted prices for similar instruments in active markets, quoted prices for identical or similar instruments in markets that are not active, and model-based valuation techniques for which all significant assumptions are observable in the market; and
- Level 3: Valuation is generated from model-based techniques that use significant assumptions not observable in the market. These unobservable assumptions reflect our own estimates of assumptions market participants would use in valuing the asset or liability.

In addition, the fair value for certain pension trust investments is determined using Net Asset Value per share (NAV) as a practical expedient, and therefore they are not classified within the fair value hierarchy. These investments primarily consist of institutional investment products.

When developing fair value measurements, it is our policy to use quoted market prices whenever available or to maximize the use of observable inputs and minimize the use of unobservable inputs when quoted market prices are not available. Fair values are primarily developed using industry-standard models that consider various inputs including: (a) quoted future prices for commodities; (b) forward currency prices; (c) time value; (d) volatility factors; (e) current market and contractual prices for underlying instruments; (f) market interest rates and yield curves; (g) credit spreads; and (h) other relevant economic measures. NW Natural considers liquid points for natural gas hedging to be those points for which there are regularly published prices in a nationally recognized publication or where the instruments are traded on an exchange.

Goodwill and Business Combinations

NW Holdings, through its wholly-owned subsidiary NWN Water and NW Water's wholly-owned subsidiaries, has completed various acquisitions that resulted in the recognition of goodwill. Goodwill is measured as the excess of the acquisition-date fair value of the consideration transferred over the acquisition-date fair value of the net identifiable assets assumed. Adjustments are recorded during the measurement period to finalize the allocation of the purchase price. The carrying value of goodwill is reviewed annually during the fourth quarter using balances as of October 1, or whenever events or changes in circumstance indicate that such carrying values may not be recoverable. The goodwill assessment policy begins with a qualitative analysis in which events and circumstances are evaluated, including macroeconomic conditions, industry and market conditions, regulatory environments, and overall financial performance of the reporting unit. If the qualitative assessment indicates that the carrying value may be at

risk of recoverability, a quantitative evaluation is performed to measure the carrying value of the goodwill against the fair value of the reporting unit. The reporting unit is determined primarily based on current operating segments and the level of review provided by the Chief Operating Decision Maker (CODM) and/or segment management on the operating segment's financial results. Reporting units are evaluated periodically for changes in the corporate environment.

As of December 31, 2019 and 2018, NW Holdings had goodwill of \$49.9 million and \$9.0 million, respectively. All of NW Holdings' goodwill was acquired in 2018 and 2019 through the business combinations completed by NWN Water and its wholly-owned subsidiaries. No impairment charges were recorded as a result of the fourth quarter goodwill impairment assessment.

Business combinations are accounted for using the acquisition method. The cost of an acquisition is measured as the aggregate of the consideration transferred, measured at fair value at the acquisition date, and the fair value of any non-controlling interest in the acquiree. Acquisition-related costs are expensed as incurred. When NW Natural acquires a business, it assesses the financial assets acquired and liabilities assumed for appropriate classification and designation in accordance with the contractual terms, economic circumstances and pertinent conditions as of the acquisition date. When there is substantial judgment or uncertainty around the fair value of acquired assets, we may engage a third party expert to assist in determining the fair values of certain assets or liabilities.

Income Taxes

We account for income taxes under the asset and liability method, which requires the recognition of deferred tax assets and liabilities for the expected future tax consequences of events that have been included in the financial statements. Under this method, deferred tax assets and liabilities are determined on the basis of the differences between the financial statement and tax basis of assets and liabilities using enacted tax rates in effect for the year in which the differences are expected to reverse. The effect of a change in tax rates on deferred tax assets and liabilities is recognized in income in the enactment date period unless, for NW Natural, a regulatory order specifies deferral of the effect of the change in tax rates over a longer period of time.

For NW Natural, deferred income tax assets and liabilities are also recognized for temporary differences where the deferred income tax benefits or expenses have previously been flowed through in the ratemaking process of the NGD business. Regulatory tax assets and liabilities are recorded on these deferred tax assets and liabilities to the extent it is believed they will be recoverable from or refunded to customers in future rates.

Deferred investment tax credits on NGD plant additions, which reduce income taxes payable, are deferred for financial statement purposes and amortized over the life of the related plant.

NW Holdings files consolidated or combined income tax returns that include NW Natural. Income tax expense is allocated on a separate company basis incorporating certain consolidated return considerations. Subsidiary income taxes payable or receivable are generally settled with NW Holdings, the common agent for income tax matters.

Interest and penalties related to unrecognized tax benefits, if any, are recognized within income tax expense and accrued interest and penalties are recognized within the related tax liability line in the consolidated balance sheets. No accrued interest or penalties for uncertain tax benefits have been recorded. See Note 11.

Environmental Contingencies

Loss contingencies are recorded as liabilities when it is probable a liability has been incurred and the amount of the loss is reasonably estimable in accordance with accounting standards for contingencies. Estimating probable losses requires an analysis of uncertainties that often depend upon judgments about potential actions by third parties. Accruals for loss contingencies are recorded based on an analysis of potential results.

With respect to environmental liabilities and related costs, estimates are developed based on a review of information available from numerous sources, including completed studies and site specific negotiations. NW Natural's policy is to accrue the full amount of such liability when information is sufficient to reasonably estimate the amount of probable liability. When information is not available to reasonably estimate the probable liability, or when only the range of probable liabilities can be estimated and no amount within the range is more likely than another, it is our policy to accrue at the low end of the range. Accordingly, due to numerous uncertainties surrounding the course of environmental remediation and the preliminary nature of several site investigations, in some cases, it may not be possible to reasonably estimate the high end of the range cannot be reasonably estimated is disclosed. See Note 18.

Subsequent Events

We monitor significant events occurring after the balance sheet date and prior to the issuance of the financial statements to determine the impacts, if any, of events on the financial statements to be issued. Refer to Note 20 for our subsequent events.

3. EARNINGS PER SHARE

Basic earnings or loss per share are computed using NW Holdings' net income or loss and the weighted average number of common shares outstanding for each period presented. Diluted earnings per share are computed in the same manner, except using the weighted average number of common shares outstanding plus the effects of the assumed exercise of stock options and the payment of estimated stock awards from other stock-based compensation plans that are outstanding at the end of each period presented. Anti-dilutive stock awards are excluded from the calculation of diluted earnings or loss per common share.

NW Holdings' diluted earnings or loss per share are calculated as follows:

In thousands, except per share data	2019	2018	2017
Net income from continuing operations	\$ 65,311	\$ 67,311	\$ 72,073
Loss from discontinued operations, net of tax	(3,576)	(2,742)	(127,696)
Net income (loss)	\$ 61,735	\$ 64,569	\$ (55,623)
Average common shares outstanding - basic	29,786	 28,803	28,669
Additional shares for stock-based compensation plans (See Note 8)	73	70	84
Average common shares outstanding - diluted	 29,859	 28,873	28,753
Earnings from continuing operations per share of common stock:			
Basic	\$ 2.19	\$ 2.34	\$ 2.51
Diluted	2.19	2.33	2.51
Loss from discontinued operations per share of common stock:			
Basic	\$ (0.12)	\$ (0.10)	\$ (4.45)
Diluted	(0.12)	(0.09)	(4.44)
Earnings (loss) per share of common stock:			
Basic	\$ 2.07	\$ 2.24	\$ (1.94)
Diluted	2.07	2.24	(1.93)
Additional information:			
Anti-dilutive shares	_	2	13

4. SEGMENT INFORMATION

We primarily operate in one reportable business segment, which is NW Natural's local gas distribution business and is referred to as the NGD segment. During the second quarter of 2018, we moved forward with long-term strategic plans, which include a shift away from the California gas storage business, by entering into a Purchase and Sale Agreement that provides for the sale of all of the membership interests in Gill Ranch. As such, we reevaluated reportable segments and concluded that the remaining gas storage activities no longer meet the requirements of a reportable segment. Interstate Storage Services and asset management activities at the Mist gas storage facility are now reported as other under NW Natural. NW Natural and NW Holdings also have investments and business activities not specifically related to the NGD segment, which are aggregated and reported as other and described below for each entity.

No individual customer accounts for over 10% of NW Holdings' or NW Natural's operating revenues.

Natural Gas Distribution

NW Natural's local gas distribution segment (NGD) is a regulated utility principally engaged in the purchase, sale, and delivery of natural gas and related services to customers in Oregon and southwest Washington. The NGD business is responsible for building and maintaining a safe and reliable pipeline distribution system, purchasing sufficient gas supplies from producers and marketers, contracting for firm and interruptible transportation of gas over interstate pipelines to bring gas from the supply basins into its service territory, and re-selling the gas to customers subject to rates, terms, and conditions approved by the OPUC or WUTC. NGD also includes taking customer-owned gas and transporting it from interstate pipeline connections, or city gates, to the customers' end-use facilities for a fee, which is approved by the OPUC or WUTC. Approximately 89% of NGD customers are located in Oregon and 11% in Washington. On an annual basis, residential and commercial customers typically account for around 60% of total NGD volumes delivered and around 90% of NGD margin. Industrial customers largely account for the remaining volumes and NGD margin. A small amount of the margin is also derived from miscellaneous services, gains or losses from an incentive gas cost sharing mechanism, and other service fees.

Industrial sectors served by the NGD business include: pulp, paper, and other forest products; the manufacture of electronic, electrochemical and electrometallurgical products; the processing of farm and food products; the production of various mineral products; metal fabrication and casting; the production of machine tools, machinery, and textiles; the manufacture of asphalt, concrete, and rubber; printing and publishing; nurseries; and government and educational institutions.

In addition to NW Natural's local gas distribution business, the NGD segment also includes the portion of the Mist underground storage facility used to serve NGD customers, the North Mist gas storage expansion in Oregon, and NWN Gas Reserves, which is a wholly-owned subsidiary of Energy Corp.

NW Natural

NW Natural's activities in Other include Interstate Storage Services and third-party asset management services for the Mist facility in Oregon, appliance retail center operations, and corporate operating and non-operating revenues and expenses that cannot be allocated to NGD operations.

Earnings from Interstate Storage Services assets are primarily related to firm storage capacity revenues. Earnings from the Mist facility also include revenue, net of amounts shared with NGD customers, from management of NGD assets at Mist and upstream pipeline capacity when not needed to serve NGD customers. Under the Oregon sharing mechanism, NW Natural retains 80% of the pre-tax income from these services when the costs of the capacity were not included in NGD rates, or 10% of the pre-tax income when the costs have been included in these rates. The remaining 20% and 90%, respectively, are recorded to a deferred regulatory account for crediting back to NGD customers.

NW Holdings

NW Holdings' activities in Other include all remaining activities not associated with NW Natural, specifically NWN Water, which consolidates the water and wastewater utility operations and is pursuing other investments in the water sector through itself and wholly-owned subsidiaries; NWN Gas Storage, a wholly-owned subsidiary of NWN Energy; NWN Energy's equity investment in TWH, which is pursuing development of a cross-Cascades transmission pipeline project (TWP); and other pipeline assets in NNG Financial. For more information on TWP, see Note 14. Other also includes corporate revenues and expenses that cannot be allocated to other operations, including certain business development activities.

All prior period amounts have been retrospectively adjusted to reflect the change in reportable segments and the designation of Gill Ranch as a discontinued operation for NW Holdings, and the designation of subsidiaries previously owned by NW Natural that are now owned by NW Holdings as discontinued operations for NW Natural.

Segment Information Summary

Inter-segment transactions were immaterial for the periods presented. The following table presents summary financial information concerning the reportable segment and other for continuing operations. See Note 19 for information regarding discontinued operations for NW Holdings and NW Natural.

In thousands	Other NGD (NW Natural) N		IW Natural	Other (NW Holdings)		N	W Holdings		
2019									
Operating revenues	\$ 720,528	\$	19,416	\$	739,944	\$	6,428	\$	746,372
Depreciation and amortization	89,415		990		90,405		1,091		91,496
Income (loss) from operations	135,918		11,428		147,346		(3,872)		143,474
Net income (loss) from continuing operations	60,828		8,146		68,974		(3,663)		65,311
Capital expenditures	219,880		1,500		221,380		2,091		223,471
Total assets at December 31, 2019 ⁽¹⁾	3,273,835		47,652		3,321,487		91,833		3,413,320
2018									
Operating revenues	\$ 680,648	\$	24,923	\$	705,571	\$	572	\$	706,143
Depreciation and amortization	83,732		1,254		84,986		170		85,156
Income (loss) from operations	118,095		15,004		133,099		(937)		132,162
Net income (loss) from continuing operations	57,491		10,558		68,049		(738)		67,311
Capital expenditures	212,323		2,005		214,328		308		214,636
Total assets at December 31, 2018 ⁽¹⁾	3,141,969		50,767		3,192,736		36,657		3,229,393
2017									
Operating revenues	\$ 732,942	\$	22,096	\$	755,038	\$	_	\$	755,038
Depreciation and amortization	79,734		1,290		81,024		29		81,053
Income (loss) from operations ⁽²⁾	138,450		12,472		150,922		(20)		150,902
Net income from continuing operations	60,509		11,211		71,720		353		72,073
Capital expenditures	211,672		1,653		213,325		_		213,325
Total assets at December 31, 2017 ⁽¹⁾	2,961,326		50,471		3,011,797		14,075		3,025,872

⁽¹⁾ Total assets for NW Holdings exclude assets related to discontinued operations of \$15.1 million, \$13.3 million and \$13.9 million as of December 31, 2019, 2018, and 2017, respectively. Total assets for NW Natural exclude assets related to discontinued operations of \$31.9 million as of December 31, 2017.

⁽²⁾ Includes \$1.0 million of tax expense in NGD, \$4.0 million of tax benefit in Other (NW Natural), and \$0.4 million of tax benefit in Other (NW Holdings) from the TCJA remeasurement for the year ended December 31, 2017.

Natural Gas Distribution Margin

NGD margin is a financial measure used by the CODM, consisting of NGD operating revenues, reduced by the associated cost of gas, environmental remediation expense, and revenue taxes. The cost of gas purchased for NGD customers is generally a pass-through cost in the amount of revenues billed to regulated NGD customers. Environmental remediation expense represents collections received from customers through environmental recovery mechanisms in Oregon and Washington as well as adjustments for the Oregon environmental earnings test when applicable. This is offset by environmental remediation expense presented in operating expenses. Revenue taxes are collected from NGD customers and remitted to taxing authorities. The collections from customers are offset by the expense recognition of the obligation to the taxing authority. By subtracting cost of gas, environmental remediation expense, and revenue taxes from NGD operating revenues, NGD margin provides a key metric used by the CODM in assessing the performance of the NGD segment.

The following table presents additional segment information concerning NGD margin:

In thousands	2019		2018	2017	
NGD margin calculation:					
NGD operating revenues	\$ 720,528	\$	680,648	\$	732,942
Less: NGD cost of gas	255,135		255,743		325,019
Environmental remediation expense	12,337		11,127		15,291
Revenue taxes ⁽¹⁾	30,325		30,082		_
NGD margin	\$ 422,731	\$	383,696	\$	392,632
(4)					

(1) The change in presentation of revenue taxes was a result of the adoption of ASU 2014-09 "Revenue From Contracts with Customers" and all related amendments on January 1, 2018. This change had no impact on NGD margin results as revenue taxes were previously presented net in NGD operating revenue. For additional information, see Note 2.

5. COMMON STOCK

As of December 31, 2019 and 2018, NW Holdings had 100 million shares of common stock authorized. As of December 31, 2019, NW Holdings had 206,560 shares reserved for issuance of common stock under the Employee Stock Purchase Plan (ESPP) and 340,133 shares reserved for issuance under the Dividend Reinvestment and Direct Stock Purchase Plan (DRPP). At NW Holdings' election, shares sold through the DRPP may be purchased in the open market or through original issuance of shares reserved for issuance under the DRPP.

The Restated Stock Option Plan (SOP) was terminated with respect to new grants in 2012; however, options granted before the Restated SOP was terminated remain outstanding until the earlier of their expiration, forfeiture, or exercise. Options are now exercisable for shares of NW Holdings common stock. There were 10,938 options outstanding at December 31, 2019, which were granted prior to termination of the plan.

On June 7, 2019, NW Holdings completed the issuance of 1,437,500 shares of common stock, inclusive of the overallotment option granted to the underwriters, which was exercised in full. All shares were issued on June 7, 2019 at an offering price of \$67.00 per share. The issuance resulted in proceeds to NW Holdings of \$93.0 million, net of discounts and expenses. The issuance was executed to raise funds for general corporate purposes, including for equity contributions to NW Holdings' subsidiaries, that are reflected as equity transfers on occurrence. Contributions received by NW Natural were also used, in part, to repay short-term indebtedness.

Stock Repurchase Program

NW Holdings has a share repurchase program under which it may purchase its common shares on the open market or through privately negotiated transactions. NW Holdings currently has Board authorization through May 2022 to repurchase up to an aggregate of the greater of 2.8 million shares or \$100 million. No shares of common stock were repurchased pursuant to this program during the year ended December 31, 2019. Since the plan's inception in 2000 under NW Natural, a total of 2.1 million shares have been repurchased at a total cost of \$83.3 million.

The following table summarizes the changes in the number of shares of NW Holdings' common stock issued and outstanding:

In thousands	Shares
Balance, December 31, 2016	28,630
Sales to employees under ESPP	18
Stock-based compensation	88
Balance, December 31, 2017	28,736
Sales to employees under ESPP	19
Stock-based compensation	64
Sales to shareholders under DRPP	61
Balance, December 31, 2018	28,880
Sales to employees under ESPP	18
Stock-based compensation	83
Equity Issuance	1,438
Sales to shareholders under DRPP	53
Balance, December 31, 2019	30,472

6. REVENUE

The following table presents disaggregated revenue from continuing operations:

	Year ended December 31, 2019									
In thousands		NGD		Other W Natural)	NW Natural		Other (NW Holdings)		NW Holdings	
Natural gas sales	\$	729,296	\$	_	\$	729,296	\$		\$	729,296
Gas storage revenue, net		_		10,240		10,240		_		10,240
Asset management revenue, net		_		3,705		3,705		_		3,705
Appliance retail center revenue		_		5,471		5,471		_		5,471
Other revenue		847		_		847		6,428		7,275
Revenue from contracts with customers		730,143		19,416		749,559		6,428		755,987
Alternative revenue		(20,984)		_		(20,984)		_		(20,984)
Leasing revenue		11,369		_		11,369		_		11,369
Total operating revenues	\$	720,528	\$	19,416	\$	739,944	\$	6,428	\$	746,372

	Year ended December 31, 2018									
In thousands		NGD		Other NW Natural)	NW Natural		Other (NW Holdings)		NW Holdings	
Natural gas sales	\$	670,662	\$	_	\$	670,662	\$		\$	670,662
Gas storage revenue, net		_		10,780		10,780		—		10,780
Asset management revenue, net		_		8,548		8,548		_		8,548
Appliance retail center revenue		_		5,595		5,595		_		5,595
Other revenue		_		_		_		572		572
Revenue from contracts with customers		670,662		24,923		695,585		572		696,157
Alternative revenue		8,989		_		8,989		_		8,989
Leasing revenue		997		_		997		_		997
Total operating revenues	\$	680,648	\$	24,923	\$	705,571	\$	572	\$	706,143

NW Natural's revenue represents substantially all of NW Holdings' revenue and is recognized for both registrants when the obligation to customers is satisfied and in the amount expected to be received in exchange for transferring goods or providing services. Revenue from contracts with customers contains one performance obligation that is generally satisfied over time, using the output method based on time elapsed, due to the continuous nature of the service provided. The transaction price is determined by a set price agreed upon in the contract or dependent on regulatory tariffs. Customer accounts are settled on a monthly basis or paid at time of sale and based on historical experience. It is probable that we will collect substantially all of the consideration to which we are entitled.

NW Holdings and NW Natural do not have any material contract assets, as net accounts receivable and accrued unbilled revenue balances are unconditional and only involve the passage of time until such balances are billed and collected. NW Holdings and NW Natural do not have any material contract liabilities.

Revenue-based taxes are primarily franchise taxes, which are collected from NGD customers and remitted to taxing authorities. Beginning January 1, 2018, revenue taxes are included in operating revenues with an equal and offsetting expense recognized in operating expenses in the consolidated statements of comprehensive income.

Natural Gas Distribution

Natural gas sales. NW Natural's primary source of revenue is providing natural gas to customers in the NGD service territory, which includes residential, commercial, industrial and transportation customers. NGD revenue is generally recognized over time upon delivery of the gas commodity or service to the customer, and the amount of consideration received and recognized as revenue is dependent on the Oregon and Washington tariffs. Customer accounts are to be paid in full each month, and there is no right of return or warranty for services provided. Revenues include firm and interruptible sales and transportation services, franchise taxes recovered from the customer, late payment fees, service fees, and accruals for gas delivered but not yet billed (accrued unbilled revenue). The accrued unbilled revenue balance is based on estimates of deliveries during the period from the last meter reading and management judgment is required for a number of factors used in this calculation, including customer use and weather factors.

We applied the significant financing practical expedient and have not adjusted the consideration NW Natural expects to receive from NGD customers for the effects of a significant financing component as all payment arrangements are settled annually. Due to the election of the right to invoice practical expedient, we do not disclose the value of unsatisfied performance obligations as of December 31, 2019.

Alternative revenue. Weather normalization (WARM) and decoupling mechanisms are considered to be alternative revenue programs. Alternative revenue programs are considered to be contracts between NW Natural and its regulator and are excluded from revenue from contracts with customers.

Leasing revenue. Leasing revenue primarily consists of revenues from NW Natural's North Mist Storage contract with Portland General Electric (PGE) in support of PGE's gas-fired electric power generation facilities under an initial 30-year contract with options to extend, totaling up to an additional 50 years upon mutual agreement of the parties. The facility is accounted for as a sales-type lease with regulatory accounting deferral treatment. The investment is included in rate base under an established cost-of-service tariff schedule, with revenues recognized according to the tariff schedule and as such, profit upon commencement was deferred and will be amortized over the lease term. Leasing revenue also contains rental revenue from small leases of property owned by NW Natural to third parties. The majority of these transactions are accounted for as operating leases and the revenue is recognized over the term of the lease agreement. Lease revenue is excluded from revenue from contracts with customers. See Note 7.

NW Natural Other

Gas storage revenue. NW Natural's other revenue includes gas storage activity, which includes Mist Interstate Storage Services used to store natural gas for customers. Gas storage revenue is generally recognized over time as the gas storage service is provided to the customer and the amount of consideration received and recognized as revenue is dependent on set rates defined per the storage agreements. Noncash consideration in the form of dekatherms of natural gas is received as consideration for providing gas injection services to gas storage customers. This noncash consideration is measured at fair value using the average spot rate. Customer accounts are generally paid in full each month, and there is no right of return or warranty for services provided. Revenues include firm and interruptible storage services, net of the regulatory sharing amount refunded to NGD customers.

Asset management revenue. Revenues include the optimization of the storage assets and pipeline capacity and are provided net of the profit sharing amount refunded to NGD customers. Certain asset management revenues received are recognized over time using a straight-line approach over the term of each contract, and the amount of consideration received and recognized as revenue is dependent on a variable pricing model. Variable revenues earned above guaranteed amounts are estimated and recognized at the end of each period using the most likely amount approach. Additionally, other asset management revenues may be based on a fixed rate. Generally, asset management accounts are settled on a monthly basis.

As of December 31, 2019, unrecognized revenue for the fixed component of the transaction price related to gas storage and asset management revenue was approximately \$73.4 million. Of this amount, approximately \$16.0 million will be recognized in 2020, \$18.2 million in 2021, \$14.5 million in 2022, \$11.6 million in 2023, \$7.8 million in 2024, and \$5.3 million thereafter. The amounts presented here are calculated using current contracted rates.

Appliance retail center revenue. NW Natural owns and operates an appliance store that is open to the public, where customers can purchase natural gas home appliances. Revenue from the sale of appliances is recognized at the point in time in which the appliance is transferred to the third party responsible for delivery and installation services and when the customer has legal title to the appliance. It is required that the sale be paid for in full prior to transfer of legal title. The amount of consideration received and recognized as revenue varies with changes in marketing incentives and discounts offered to customers.

NW Holdings Other

NW Holdings' primary source of other revenue is providing water and wastewater services to customers. Water distribution and wastewater collection revenue is generally recognized over time upon delivery of the water commodity or wastewater collection service to the customer, and the amount of consideration received and recognized as revenue is dependent on the water customer rates set by the applicable state public utility commission and contractual rates for wastewater customers. Customer accounts are to be paid in full each month, and there is no right of return or warranty for services provided.

We applied the significant financing practical expedient and have not adjusted the consideration we expect to receive from water distribution and wastewater collection customers for the effects of a significant financing component as all payment arrangements are settled annually. Due to the election of the right to invoice practical expedient, we do not disclose the value of unsatisfied performance obligations as of December 31, 2019.

7. LEASES

Lease Revenue

Leasing revenue primarily consists of NW Natural's North Mist natural gas storage agreement with PGE which is billed under an OPUC-approved rate schedule and includes an initial 30-year term with options to extend, totaling up to an additional 50 years upon mutual agreement of the parties. Under U.S. GAAP, this agreement is classified as a sales-type lease and qualifies for regulatory accounting deferral treatment. The investment in the storage facility is included in rate base under a separately established cost-of-service tariff, with revenues recognized according to the tariff schedule. As such, the selling profit that was calculated upon commencement as part of the sale-type lease recognition was deferred and will be amortized over the lease term. Billing rates under the cost-of-service tariff will be updated annually to reflect current information including depreciable asset levels, forecasted operating expenses, and the results of regulatory proceedings, as applicable, and revenue received under this agreement is recognized as operating revenue on the consolidated statements of comprehensive income. There are no variable payments or residual value guarantees. The lease does not contain an option to purchase the underlying assets.

NW Natural also maintains a sales-type lease for specialized compressor facilities to provide high pressure compressed natural gas (CNG) services. Lease payments are outlined in an OPUC-approved rate schedule over a 10-year term. There are no variable payments or residual value guarantees. The selling profit computed upon lease commencement was not significant.

Our lessor portfolio also contains small leases of property owned by NW Natural to third parties. These transactions are accounted for as operating leases and the revenue is recognized over the term of the lease agreement.

The components of lease revenue at NW Natural were as follows:

In thousands	ar ended ber 31, 2019
Lease revenue	
Operating leases	\$ 171
Sales-type leases	11,198
Total lease revenue	\$ 11,369

Total future minimum lease payments to be received under non-cancelable leases at NW Natural at December 31, 2019 are as follows:

In thousands	Operating	S	ales-Type	Total
2020	\$ 6	5 \$	18,228	\$ 18,293
2021	4	9	17,518	17,567
2022	4	5	17,026	17,071
2023	4	5	16,557	16,602
2024	4	5	15,867	15,912
Thereafter	93	3	264,740	264,833
Total lease revenue	\$ 342	2 \$	349,936	\$ 350,278
Less: imputed interest			202,319	
Total leases receivable		\$	147,617	

The total leases receivable above is reported under the NGD segment and the short- and long-term portions are included within other current assets and assets under sales-type leases on the consolidated balance sheets, respectively. The total amount of unguaranteed residual assets at December 31, 2019 was \$4.0 million and is included in assets under sales-type leases on the consolidated balance sheets. Additionally, under regulatory accounting, the revenues and expenses associated with these agreements are presented on the consolidated statements of comprehensive income such that their presentation aligns with similar regulated activities at NW Natural.

Additionally, future minimum lease payments of \$0.5 million for each of the years ending 2020, 2021 and 2022 are to be received under non-cancelable operating leases associated with non-utility property rentals. For the year ended December 31, 2019, approximately \$0.5 million of lease revenue is presented in other income (expense), net on the consolidated statements of comprehensive income as it is non-operating income.

Lease Expense

Operating Leases

We have operating leases for land, buildings and equipment. Our primary lease is for NW Natural's operations center. Our leases have remaining lease terms of one year to 11 years. Many of our lease agreements include options to extend the lease, which we do not include in our minimum lease terms unless they are reasonably certain to be exercised. Short-term leases with a term of 12 months or less are not recorded on the balance sheet.

As most of our leases do not provide an implicit rate and are entered into by NW Natural, we use NW Natural's incremental borrowing rate based on information available at the lease commencement date in determining the present value of lease payments.

The components of lease expense, a portion of which is capitalized, were as follows:

	Year ended December 31, 2019								
In thousands	 NW Natural	Other (NW Holdings)			NW Holdings				
Operating lease expense	\$ 4,620	\$	191	\$	4,811				
Short-term lease expense	1,146		_		1,146				

Supplemental balance sheet information related to operating leases as of December 31, 2019 is as follows:

In thousands	NW	NW	NW Holdings		
Operating lease right of use assets	\$	2,760	\$ 190	\$	2,950
Operating lease liabilities - current liabilities	\$	1,979	\$ 122	\$	2,101
Operating lease liabilities - non-current liabilities		772	69		841
Total operating lease liabilities	\$	2,751	\$ 191	\$	2,942

As of December 31, 2019, the weighted average remaining lease term for the operating leases is one year for NW Natural. The weighted average discount rate used in the valuation of the operating lease right of use assets over the remaining lease term is 3.98% for NW Natural.

Maturities of operating lease liabilities at December 31, 2019 were as follows:

In thousands	NW)ther Holdings)	NW Holdings		
2020	\$	2,029	\$ 126	\$	2,155
2021		143	52		195
2022		111	18		129
2023		88	_		88
2024		89	_		89
Thereafter		526	_		526
Total lease payments		2,986	196		3,182
Less: imputed interest		235	5		240
Total lease obligations		2,751	191		2,942
Less: current obligations		1,979	122		2,101
Long-term lease obligations	\$	772	\$ 69	\$	841

As of December 31, 2019, finance lease liabilities with maturities of less than one year were \$0.2 million at NW Natural.

Significant Lease Not Yet Commenced

In October 2017, NW Natural entered into a 20-year operating lease agreement for a new corporate operations center in Portland, Oregon in anticipation of the expiration of the current operations center lease in 2020. The lease commenced in the first quarter of 2020 and total estimated base rent payments over the life of the lease are approximately \$160 million. There is an option to extend the term of the lease for two additional periods of seven years.

Cash Flow Information

Supplemental cash flow information related to leases was as follows:

	Year ended December 31, 2019					
	NW Natural		Other (NW Holdings)		NW Holdings	
Cash paid for amounts included in the measurement of lease liabilities						
Operating cash flows from operating leases	\$	4,447	\$	182	\$	4,629
Finance cash flows from finance leases		120		_		120
Right of use assets obtained in exchange for lease obligations						
Operating leases	\$	7,205	\$	372	\$	7,577
Finance leases		312		—		312

Finance Leases

NW Natural also leases building storage spaces for use as a gas meter room in order to provide natural gas to multifamily or mixed use developments. These contracts are accounted for as finance leases and typically involve a one-time upfront payment with no remaining liability. The right of use asset for finance leases was \$0.5 million at December 31, 2019.

Lease Disclosures Related to Periods Prior to the First Quarter of 2019

Land, buildings, and equipment are leased under agreements that expire in various years, including a 99-year land lease that extends through 2108. Rental costs for continuing operations were \$5.9 million, \$7.3 million, and \$5.9 million for the years ended December 31, 2018, 2017, and 2016, respectively, a portion of which was capitalized.

The following table reflects NW Natural's future minimum lease payments due under non-cancelable operating leases for continuing operations at December 31, 2018. These commitments relate principally to the lease of the corporate operations center and underground gas storage facilities.

In thousands	Minimum lease payments
2019	\$ 5,368
2020	4,812
2021	7,077
2022	7,223
2023	7,304
Thereafter	149,881
Total	\$ 181,665

8. STOCK-BASED COMPENSATION

Stock-based compensation plans are designed to promote stock ownership in NW Holdings by employees and officers of NW Holdings and its affiliates. These compensation plans include a Long Term Incentive Plan (LTIP), an ESPP, and a Restated SOP.

Long Term Incentive Plan

The LTIP is intended to provide a flexible, competitive compensation program for eligible officers and key employees. Under the LTIP, shares of NW Holdings common stock are authorized for equity incentive grants in the form of stock, restricted stock, restricted stock units, stock options, or performance shares. An aggregate of 1,100,000 shares were authorized for issuance as of December 31, 2019. Shares awarded under the LTIP may be purchased on the open market or issued as original shares.

Of the 1,100,000 shares of common stock authorized for LTIP awards at December 31, 2019, there were 510,931 shares available for issuance under any type of award. This assumes market, performance, and service-based grants currently outstanding are awarded at the target level. There were no outstanding grants of restricted stock or stock options under the LTIP at December 31, 2019 or 2018. The LTIP stock awards are compensatory awards for which compensation expense is based on the fair value of stock awards, with expense being recognized over the performance and vesting period of the outstanding awards. Forfeitures are recognized as they occur.

Performance Shares

LTIP performance shares incorporate a combination of market, performance, and service-based factors. The following table summarizes performance share expense information:

Dollars in thousands	Shares ⁽¹⁾	Expense During Award Year ⁽²⁾	otal Expense for Award
Estimated award:			
2017-2019 grant ⁽³⁾	41,573	\$ 572	\$ 1,971
Actual award:			
2016-2018 grant	28,218	598	1,413
2015-2017 grant	18,304	(346)	1,169

⁽¹⁾ In addition to common stock shares, a participant also receives a dividend equivalent cash payment equal to the number of shares of common stock received on the award payout multiplied by the aggregate cash dividends paid per share during the performance period.

(2) Amount represents the expense recognized in the third year of the vesting period noted above. For the 2015-2017 grant, targets were not met and expense that had been previously recognized was reversed during 2017.

⁽³⁾ This represents the estimated number of shares to be awarded as of December 31, 2019 as certain performance share measures have been achieved. Amounts are subject to change with final payout amounts authorized by the Board of Directors in February 2020.

The aggregate number of performance shares granted and outstanding at the target and maximum levels were as follows:

Dollars in thousands	Performance S Outsta			2019	Cumulative Expense			
Performance Period	Target	Maximum Expense		De	cember 31, 2019			
2017-19	30,234	60,468	\$	572	\$	1,971		
2018-20	—	—		—		—		
2019-21				_		—		
Total	30,234	60,468	\$	572				

For the 2017-2019 performance period, performance share awards are based on the achievement of EPS and Return on Invested Capital (ROIC) factors, which can be modified by a Total Shareholder Return (TSR) factor relative to the performance of the Russell 2500 Utilities Index over the three-year performance period and a growth modifier based on accumulative EBITDA. For the 2018-2020 and 2019-2021 performance period, performance share awards are based on the achievement of a three-year ROIC threshold that must be met and a cumulative EPS factor, which can be modified by a TSR factor relative to the performance of the Russell 2500 Utilities Index over the three-year performance period. The 2018-2020 and 2019-2021 performance factors to remain variable until the first quarter of the third year of the award period. As the performance factor will not be approved until the first quarter of 2020 and 2021, there is not a mutual understanding of the awards' key terms and conditions between NW Natural and the participants as of December 31, 2019, and therefore, no expense was recognized for the 2018-2020 and 2019-2021 performance period. NW Natural will calculate the grant date fair value and recognize expense once the final performance factor has been approved. If the target is achieved for the 2018-2020 and 2019-2021 awards, NW Holdings would grant 31,825 and 35,170 shares in the first quarter of 2020 and 2021, respectively.

Compensation expense is recognized in accordance with accounting standards for stock-based compensation and calculated based on performance levels achieved and an estimated fair value using the Monte-Carlo method. Due to there not being a mutual understanding of the 2018-2020 and 2019-2021 awards' key terms and conditions as noted above, the grant date fair value has not yet been determined and no nonvested shares existed at December 31, 2019. The weighted-average grant date fair value of nonvested shares associated with the 2017-2019 awards was \$57.05 per share at December 31, 2018. The weighted-average grant date fair value of shares vested during the year was \$57.05 per share and there were no performance shares granted during the year and no unrecognized compensation expense for accounting purposes as of December 31, 2019.

Restricted Stock Units

In 2012, RSUs began being granted under the LTIP instead of stock options under the Restated SOP. Generally, the RSUs awarded are forfeitable and include a performance-based threshold as well as a vesting period of four years from the grant date. Upon vesting, the RSU holder is issued one share of common stock plus a cash payment equal to the total amount of dividends paid per share between the grant date and vesting date of that portion of the RSU. The fair value of an RSU is equal to the closing market price of NW Holdings' common stock on the grant date. During 2019, total RSU expense was \$1.8 million compared to \$1.8 million in 2018 and \$1.6 million in 2017. As of December 31, 2019, there was \$3.4 million of unrecognized compensation cost from grants of RSUs, which is expected to be recognized over a period extending through 2024.

Information regarding the RSU activity is summarized as follows:

	Number of RSUs	Av	ghted - erage Per RSU
Nonvested, December 31, 2016	89,973	\$	48.85
Granted	32,168		60.51
Vested	(35,341)		47.07
Forfeited	(2,278)		53.78
Nonvested, December 31, 2017	84,522		53.90
Granted	32,450		57.59
Vested	(32,689)		50.75
Forfeited	(1,603)		59.95
Nonvested, December 31, 2018	82,680		56.47
Granted	36,018		65.29
Vested	(35,778)		54.22
Forfeited	(3,187)		63.89
Nonvested, December 31, 2019	79,733	\$	61.17

Restated Stock Option Plan

The NW Natural Restated SOP was terminated for new option grants in 2012; however, options granted before the plan terminated remain outstanding until the earlier of their expiration, forfeiture, or exercise and are now exercisable for shares of NW Holdings common stock. Any new grants of stock options will be made under NW Holdings' LTIP, however, no option grants have been awarded since 2012 and all stock options were vested as of December 31, 2015.

Options under the Restated SOP were granted to officers and key employees designated by a committee of the Board of Directors. All options were granted at an option price equal to the closing market price on the date of grant and may be exercised for a period of up to 10 years and seven days from the date of grant. Option holders may exchange shares they have owned for at least six months, valued at the current market price, to purchase shares at the option price.

Information regarding the Restated SOP activity is summarized as follows:

	Option Shares	Weighted - Average Price Per Share	Intrinsic Value (In millions)
Balance outstanding and exercisable, December 31, 2016	180,163	\$ 44.38	\$ 2.8
Exercised	(88,275)	44.33	1.8
Forfeited	(200)	41.15	n/a
Balance outstanding and exercisable, December 31, 2017	91,688	44.43	1.4
Exercised	(35,450)	43.61	0.8
Forfeited	(300)	43.29	n/a
Balance outstanding and exercisable, December 31, 2018	55,938	44.96	0.9
Exercised	(45,000)	44.79	1.0
Expired	_	_	n/a
Balance outstanding and exercisable, December 31, 2019	10,938	\$ 45.67	\$ 0.3

During 2019, cash of \$2.0 million was received for stock options exercised and \$0.2 million related tax benefit was recognized. The weighted-average remaining life of options exercisable and outstanding at December 31, 2019 was 1.12 years.

Employee Stock Purchase Plan

NW Holdings' ESPP allows employees of NW Holdings, NW Natural and certain designated subsidiaries to purchase common stock at 85% of the closing price on the trading day immediately preceding the initial offering date, which is set annually. For the 2019-2020 ESPP period, each eligible employee may purchase up to \$21,222 worth of stock through payroll deductions over a period defined by the Board of Directors, with shares issued at the end of the subscription period.

Stock-Based Compensation Expense

Stock-based compensation expense is recognized as operations and maintenance expense or is capitalized as part of construction overhead at the entity at which the award recipient is employed. The following table summarizes the NW Holdings' financial statement impact, substantially all of which was recorded at NW Natural, of stock-based compensation under the LTIP, Restated SOP and ESPP:

In thousands	2019			2018	2017
Operations and maintenance expense, for stock-based compensation	\$	2,172	\$	2,489	\$ 2,354
Income tax benefit		(575)		(659)	(930)
Net stock-based compensation effect on net income (loss)		1,597		1,830	1,424
Amounts capitalized for stock-based compensation	\$	430	\$	531	\$ 528

9. DEBT

Short-Term Debt

The primary source of short-term liquidity for NW Holdings is cash balances, dividends from its operating subsidiaries, in particular NW Natural, available cash from a multi-year credit facility, and short-term credit facilities it may enter into from time to time.

The primary source of short-term liquidity for NW Natural is from the sale of commercial paper, its multi-year credit facilities, and short-term credit facilities it may enter into from time to time. In addition to issuing commercial paper or bank loans to meet working capital requirements, including seasonal requirements to finance gas purchases and accounts receivable, short-term debt may also be used to temporarily fund capital requirements. For NW Natural, commercial paper and bank loans are periodically refinanced through the sale of long-term debt or equity contributions from NW Holdings. NW Natural's commercial paper is sold through two commercial banks under an issuing and paying agency agreement and is supported by one or more unsecured revolving credit facilities. See "Credit Agreements" below.

At December 31, 2019 and 2018, NW Holdings had short-term debt outstanding of \$149.1 million and \$217.6 million, respectively. The weighted average interest rate of NW Holdings' short-term debt outstanding at December 31, 2019 and 2018 was 2.0% and 3.0%, respectively. At December 31, 2019 and 2018, NW Natural had \$125.1 million and \$217.5 million of commercial paper outstanding, respectively. The weighted average interest rate of commercial paper outstanding at December 31, 2019 and 3.0%, respectively. The weighted average interest rate of commercial paper outstanding at December 31, 2019 and 3.0%, respectively.

The carrying cost of commercial paper approximates fair value using Level 2 inputs. See Note 2 for a description of the fair value hierarchy. At December 31, 2019, NW Natural's commercial paper had a maximum remaining maturity of 22 days and an average remaining maturity of 10 days.

Credit Agreements

NW Holdings

In October 2018, NW Holdings entered into a \$100.0 million credit agreement, with a feature that allows it to request increases in the total commitment amount, up to a maximum of \$150.0 million. The maturity date of the agreement is October 2, 2023, with available extensions of commitments for two additional one-year periods, subject to lender approval.

The NW Holdings credit agreement permits the issuance of letters of credit in an aggregate amount of up to \$40.0 million. The principal amount of borrowings under the credit agreement is due and payable on the maturity date. The credit agreement requires NW Holdings to maintain a consolidated indebtedness to total capitalization ratio of 70% or less. Failure to comply with this covenant would entitle the lenders to terminate their lending commitments and accelerate the maturity of all amounts outstanding. NW Holdings was in compliance with this covenant at December 31, 2019 and 2018.

The agreement also requires NW Holdings to maintain debt ratings (which are defined by a formula using NW Natural's credit ratings in the event NW Holdings does not have a credit rating) with Standard & Poor's (S&P) and Moody's Investors Service, Inc. (Moody's) and notify the lenders of any change in its senior unsecured debt ratings or senior secured debt ratings, as applicable, by such rating agencies. A change in NW Holdings' debt ratings by S&P or Moody's is not an event of default, nor is the maintenance of a specific minimum level of debt rating a condition of drawing upon the credit agreement. Rather, interest rates on any loans outstanding under the credit agreements are tied to debt ratings and therefore, a change in the debt rating would increase or decrease the cost of any loans under the credit agreements when ratings are changed. NW Holdings does not currently maintain ratings with S&P or Moody's.

There was a \$24.0 million outstanding balance and no outstanding balances under the NW Holdings agreement at December 31, 2019 and 2018, respectively. No letters of credit were issued or outstanding under the NW Holdings agreement at December 31, 2019 and 2018. NW Holdings had \$1.0 million and \$2.8 million of letters of credit issued and outstanding in support of acquisitions of water companies, separate from the aforementioned credit agreement, at December 31, 2019 and 2018, respectively.

NW Natural

In October 2018, NW Natural entered into a new multi-year credit agreement for unsecured revolving loans totaling \$300.0 million, with a feature that allows NW Natural to request increases in the total commitment amount, up to a maximum of \$450.0 million. The maturity date of the agreement is October 2, 2023 with available extensions of commitments for two additional one-year periods, subject to lender approval. The new credit agreement is substantially similar to the prior credit agreement which was terminated upon the closing of the New Credit Agreement. The new credit agreement permits the issuance of letters of credit in an aggregate amount of up to \$60.0 million. The principal amount of borrowings under the credit agreement is due and payable on the maturity date. There were no outstanding balances under NW Natural's prior credit agreement or the new credit agreement and no letters of credit issued or outstanding at December 31, 2019 and 2018.

NW Natural's prior credit agreement and the new credit agreement require NW Natural to maintain a consolidated indebtedness to total capitalization ratio of 70% or less. Failure to comply with this covenant would entitle the lenders to terminate their lending commitments and accelerate the maturity of all amounts outstanding. NW Natural was in compliance with this covenant at December 31, 2019 and 2018.

The new credit agreement also requires NW Natural to maintain credit ratings with S&P and Moody's and notify the lenders of any change in NW Natural's senior unsecured debt ratings or senior secured debt ratings, as applicable, by such rating agencies. A change in NW Natural's debt ratings by S&P or Moody's is not an event of default, nor is the maintenance of a specific minimum level of debt rating a condition of drawing upon the new credit agreement. Rather, interest rates on any loans outstanding under the new credit agreement are tied to debt ratings and therefore, a change in the debt rating would increase or decrease the cost of any loans under the new credit agreement when ratings are changed.

Long-Term Debt

NW Holdings

At December 31, 2019 and 2018, NW Holdings had long-term debt outstanding of \$881.1 million and \$736.2 million, respectively; which included \$5.7 million and \$5.6 million of unamortized debt issuance costs at NW Natural, respectively. NW Holdings' long-term debt is primarily comprised of debt held at its wholly-owned subsidiaries NW Natural (shown below) and NWN Water. Long-term debt at NWN Water is primarily comprised of a two-year term loan agreement for \$35.0 million, due in 2021. NWN Water entered into this agreement in June 2019 and the loan carried an interest rate of 2.35% at December 31, 2019, which is based upon the one-month LIBOR rate. The loan is guaranteed by NW Holdings and requires NW Holdings to maintain a consolidated indebtedness to total capitalization ratio of 70% or less. Failure to comply with this covenant would entitle the lenders to terminate their lending commitments and accelerate the maturity of all amounts outstanding. NW Holdings was in compliance with this covenant at December 31, 2019, with a consolidated indebtedness to total capitalization ratio of 54.3%.

NW Natural

NW Natural's issuance of FMBs, which includes NW Natural's medium-term notes, under the Mortgage and Deed of Trust (Mortgage) is limited by eligible property, adjusted net earnings, and other provisions of the Mortgage. The Mortgage constitutes a first mortgage lien on substantially all of NW Natural's NGD property.

Maturities and Outstanding Long-Term Debt

Retirement of long-term debt for each of the annual periods through December 31, 2024 and thereafter are as follows:

In thousands	Long-term debt maturities
2020	\$ 75,000
2021	60,000
2022	—
2023	90,000
2024	—
Thereafter	624,700

The following table presents debt outstanding as of December 31:

In thousands	2019	2018
NW Natural		
First Mortgage Bonds:		
8.310% Series due 2019	\$ —	\$ 10,000
7.630% Series due 2019	_	20,000
5.370% Series due 2020	75,000	75,000
9.050% Series due 2021	10,000	10,000
3.176% Series due 2021	50,000	50,000
3.542% Series due 2023	50,000	50,000
5.620% Series due 2023	40,000	40,000
7.720% Series due 2025	20,000	20,000
6.520% Series due 2025	10,000	10,000
7.050% Series due 2026	20,000	20,000
3.211% Series due 2026	35,000	35,000
7.000% Series due 2027	20,000	20,000
2.822% Series due 2027	25,000	25,000
6.650% Series due 2027	19,700	19,700
6.650% Series due 2028	10,000	10,000
3.141% Series due 2029	50,000	—
7.740% Series due 2030	20,000	20,000
7.850% Series due 2030	10,000	10,000
5.820% Series due 2032	30,000	30,000
5.660% Series due 2033	40,000	40,000
5.250% Series due 2035	10,000	10,000
4.000% Series due 2042	50,000	50,000
4.136% Series due 2046	40,000	40,000
3.685% Series due 2047	75,000	75,000
4.110% Series due 2048	50,000	50,000
3.869% Series due 2049	90,000	
Long-term debt, gross	849,700	739,700
Less: current maturities	75,000	30,000
Total long-term debt	\$ 774,700	\$ 709,700

First Mortgage Bonds

In June 2019, NW Natural issued \$140.0 million of FMBs consisting of \$50.0 million with an interest rate of 3.141%, due in 2029, and \$90.0 million with an interest rate of 3.869%, due in 2049.

In September 2018, NW Natural issued \$50.0 million of FMBs with an interest rate of 4.110%, due in 2048.

Retirements of Long-Term Debt

In September 2019, NW Natural retired \$10.0 million of FMBs with an interest rate of 8.310%, and retired \$20.0 million of FMBs with an interest rate of 7.630% in December 2019.

In March 2018, NW Natural retired \$22.0 million of FMBs with an interest rate of 6.600%, and retired \$75.0 million of FMBs with an interest rate of 1.545% in December 2018.

Fair Value of Long-Term Debt

NW Holdings' and NW Natural's outstanding debt does not trade in active markets. The fair value of debt is estimated using natural gas distribution companies with similar credit ratings, terms, and remaining maturities to NW Holdings' and NW Natural's debt that actively trade in public markets. Substantially all outstanding debt at NW Holdings is comprised of NW Natural debt. These valuations are based on Level 2 inputs as defined in the fair value hierarchy. See Note 2.

The following table provides an estimate of the fair value of NW Holdings' long-term debt, including current maturities of long-term debt, using market prices in effect on the valuation date:

	December 31,						
In thousands		2019					
Gross long-term debt	\$	886,776	\$	741,813			
Unamortized debt issuance costs		(5,712)		(5,577)			
Carrying amount	\$	881,064	\$	736,236			
Estimated fair value	\$	957,268	\$	762,335			

The following table provides an estimate of the fair value of NW Natural's long-term debt, including current maturities of long-term debt, using market prices in effect on the valuation date:

	December 31,						
In thousands		2019					
Gross long-term debt	\$	849,700	\$	739,700			
Unamortized debt issuance costs		(5,712)		(5,577)			
Carrying amount	\$	843,988	\$	734,123			
Estimated fair value	\$	919,835	\$	760,222			

10. PENSION AND OTHER POSTRETIREMENT BENEFIT COSTS

NW Natural maintains a qualified non-contributory defined benefit pension plan (Pension Plan), non-qualified supplemental pension plans for eligible executive officers and other key employees, and other postretirement employee benefit plans. NW Natural also has a qualified defined contribution plan (Retirement K Savings Plan) for all eligible employees. The Pension Plan and Retirement K Savings Plan have plan assets, which are held in qualified trusts to fund retirement benefits.

Effective January 1, 2007 and 2010, the qualified defined benefit pension plans and postretirement benefits for non-union employees and union employees, respectively, were closed to new participants.

Non-union and union employees hired or re-hired after December 31, 2006 and 2009, respectively, and employees of NW Natural subsidiaries are provided an enhanced Retirement K Savings Plan benefit.

The following table provides a reconciliation of the changes in NW Natural's benefit obligations and fair value of plan assets, as applicable, for NW Natural's pension and other postretirement benefit plans, excluding the Retirement K Savings Plan, and a summary of the funded status and amounts recognized in NW Holdings' and NW Natural's consolidated balance sheets as of December 31:

	Postretirement Benefit Plans									
	Pension Benefits				Other Benefits					
In thousands		2019		2018		2019		2018		
Reconciliation of change in benefit obligation:										
Obligation at January 1	\$	455,568	\$	486,289	\$	28,172	\$	28,927		
Service cost		6,308		7,185		244		282		
Interest cost		18,683		16,991		1,117		964		
Net actuarial (gain) loss		58,269		(32,979)		1,809		(327)		
Benefits paid		(23,160)		(21,918)		(1,774)		(1,674)		
Obligation at December 31	\$	515,668	\$	455,568	\$	29,568	\$	28,172		
Reconciliation of change in plan assets:										
Fair value of plan assets at January 1	\$	257,797	\$	287,925	\$	_	\$	_		
Actual return on plan assets		65,104		(25,925)		_		_		
Employer contributions		13,310		17,715		1,774		1,674		
Benefits paid		(23,160)		(21,918)		(1,774)		(1,674)		
Fair value of plan assets at December 31	\$	313,051	\$	257,797	\$		\$	_		
Funded status at December 31	\$	(202,617)	\$	(197,771)	\$	(29,568)	\$	(28,172)		

NW Natural's Pension Plan had a projected benefit obligation of \$477.3 million and \$420.2 million at December 31, 2019 and 2018, respectively, and fair values of plan assets of \$313.1 million and \$257.8 million, respectively. The plan had an accumulated benefit obligation of \$434.9 million and \$385.9 million at December 31, 2019 and 2018, respectively.

The following table presents amounts realized through regulatory assets or in other comprehensive loss (income) for the years ended December 31:

	Regulatory Assets							C	Other Comp	oreh	ensive Los	ss (Income)		
	Pe	ension Benef	its	Other I	Other Postretirement Benefits				Pension Benefits						
In thousands	2019	2018	2017	2019	9 2018 2017		2019 2018		2018 2017		2019		2018	_	2017
Net actuarial loss (gain)	\$ 10,424	\$ 14,261	\$ 12,177	\$ 1,809	\$	(327)	\$ (214)	\$	3,595	\$	(677)	\$	2,777		
Amortization of:															
Prior service cost	(7)	(42)	(127)	468		468	468		_		_		_		
Actuarial loss	(14,057)	(18,761)	(14,802)	(369)	(448)	(696)		(648)		(1,052)		(946)		
Total	\$ (3,640)	\$ (4,542)	\$ (2,752)	\$ 1,908	\$	(307)	\$ (442)	\$	2,947	\$	(1,729)	\$	1,831		

The following table presents amounts recognized in regulatory assets and accumulated other comprehensive loss (AOCL) at December 31:

			Regulato	ry A	ssets			AC	OCL	
	 Pension	Ben	nefits	01	ther Postretir	eme	ent Benefits	 Pension	Ber	efits
In thousands	 2019		2018		2019		2018	2019		2018
Prior service cost (credit)	\$ _	\$	7	\$	(1,270)	\$	(1,738)	\$ _	\$	_
Net actuarial loss	166,903		170,535		7,629		6,189	14,484		11,537
Total	\$ 166,903	\$	170,542	\$	6,359	\$	4,451	\$ 14,484	\$	11,537

The following table presents amounts recognized by NW Holdings and NW Natural in AOCL and the changes in AOCL related to NW Natural's non-qualified employee benefit plans:

	Year Ended Dece	mber 31,		
In thousands	 2019	2018		
Beginning balance	\$ (7,188) \$	(8,438)		
Amounts reclassified to AOCL	(3,611)	642		
Amounts reclassified from AOCL:				
Amortization of actuarial losses	648	1,052		
Reclassification of stranded tax effects ⁽¹⁾	(1,366)	—		
Total reclassifications before tax	 (4,329)	1,694		
Tax expense (benefit)	784	(444)		
Total reclassifications for the period	(3,545)	1,250		
Ending balance	\$ (10,733) \$	(7,188)		

⁽¹⁾ Reclassification of \$1.4 million of income tax effects resulting from the TCJA from accumulated other comprehensive loss to retained earnings was made pursuant to the adoption of ASU 2018-02. See Note 2.

In 2020, NW Natural will amortize an estimated \$18.3 million from regulatory assets to net periodic benefit costs, consisting of \$18.8 million of actuarial losses offset by \$0.5 million of prior service credits. A total of \$0.9 million will be amortized from AOCL to earnings related to actuarial losses in 2020.

The assumed discount rates for NW Natural's Pension Plan and other postretirement benefit plans were determined independently based on the FTSE Above Median Curve (discount rate curve), which uses high quality corporate bonds rated AA-or higher by S&P or Aa3 or higher by Moody's. The discount rate curve was applied to match the estimated cash flows in each of the plans to reflect the timing and amount of expected future benefit payments for these plans.

The assumed expected long-term rate of return on plan assets for the Pension Plan was developed using a weighted-average of the expected returns for the target asset portfolio. In developing the expected long-term rate of return assumption, consideration was given to the historical performance of each asset class in which the plan's assets are invested and the target asset allocation for plan assets.

The investment strategy and policies for Pension Plan assets held in the retirement trust fund were approved by the NW Natural Retirement Committee, which is composed of senior management with the assistance of an outside investment consultant. The policies set forth the guidelines and objectives governing the investment of plan assets. Plan assets are invested for total return with appropriate consideration for liquidity, portfolio risk, and return expectations. All investments are expected to satisfy the prudent investments rule under the Employee Retirement Income Security Act of 1974. The approved asset classes may include cash and short-term investments, fixed income, common stock and convertible securities, absolute and real return strategies, and real estate. Plan assets may be invested in separately managed accounts or in commingled or mutual funds. Investment rebalancing takes place periodically as needed, or when significant cash flows occur, in order to maintain the allocation of assets within the stated target ranges. The retirement trust fund is not currently invested in NW Holdings or NW Natural securities.

The following table presents the Pension Plan asset target allocation at December 31, 2019:

Asset Category	Target Allocation
Long government/credit	20%
U.S. large cap equity	18
Non-U.S. equity	18
Absolute return strategies	12
U.S. small/mid cap equity	10
Real estate funds	7
High yield bonds	5
Emerging markets equity	5
Emerging market debt	5

Non-qualified supplemental defined benefit plan obligations were \$38.3 million and \$35.4 million at December 31, 2019 and 2018, respectively. These plans are not subject to regulatory deferral, and the changes in actuarial gains and losses, prior service costs, and transition assets or obligations are recognized in AOCL, net of tax until they are amortized as a component of net periodic benefit cost. These are unfunded, non-qualified plans with no plan assets; however, a significant portion of the obligations is indirectly funded with company and trust-owned life insurance and other assets.

Other postretirement benefit plans are unfunded plans but are subject to regulatory deferral. The actuarial gains and losses, prior service costs, and transition assets or obligations for these plans are recognized as a regulatory asset.

Net periodic benefit costs consist of service costs, interest costs, the expected returns on plan assets, and the amortization of gains and losses and prior service costs. The gains and losses are the sum of the actuarial and asset gains and losses throughout the year and are amortized over the average remaining service period of active participants. The asset gains and losses are based in part on a market-related valuation of assets. The market-related valuation reflects differences between expected returns and actual investment returns with the differences recognized over a two-year period from the year in which they occur, thereby reducing year-to-year net periodic benefit cost volatility.

The service cost component of net periodic benefit cost for NW Natural pension and other postretirement benefit plans is recognized in operations and maintenance expense in the consolidated statements of comprehensive income. The other nonservice cost components are recognized in other income (expense), net in the consolidated statements of comprehensive income. The following table provides the components of net periodic benefit cost for NW Natural's pension and other postretirement benefit plans for the years ended December 31:

		F	Pens	sion Benefit	s		Other Postretirement Benefits								
In thousands	_	2019		2018		2017		2019		2018		2017			
Service cost	\$	6,308	\$	7,185	\$	7,090	\$	244	\$	282	\$	341			
Interest cost		18,684		16,991		18,111		1,116		964		1,141			
Expected return on plan assets		(20,854)		(20,639)		(20,433)		_		_		_			
Amortization of prior service costs		7		43		127		(468)		(468)		(468)			
Amortization of net actuarial loss		14,704		19,813		15,748		368		448		696			
Net periodic benefit cost		18,849		23,393		20,643		1,260		1,226		1,710			
Amount allocated to construction		(2,493)		(2,764)		(6,597)		(86)		(98)		(587)			
Amount deferred to regulatory balancing account		_		(10,314)		(6,542)		—		_		—			
Net periodic benefit cost charged to expense		16,356		10,315		7,504		1,174		1,128		1,123			
Regulatory pension disallowance		10,500		—		_		—		—		—			
Amortization of regulatory balancing account		16,841		—		_		_		_		—			
Net amount charged to expense	\$	43,697	\$	10,315	\$	7,504	\$	1,174	\$	1,128	\$	1,123			

Net periodic benefit costs are reduced by amounts capitalized to NGD plant. In addition, a certain amount of net periodic benefit costs were recorded to the regulatory balancing account, representing net periodic pension expense for the Pension Plan above the amount set in rates, as approved by the OPUC, from 2011 through October 31, 2018.

In March 2019, the OPUC issued an order concluding the NW Natural 2018 Oregon rate case. The order allowed for the application of certain deferred revenues and tax benefits from the TCJA to reduce NW Natural's pension regulatory balancing account. A corresponding total of \$12.5 million in pension expenses were recognized in operating and maintenance expense and other income (expense), net in the consolidated statements of comprehensive income in the first quarter of 2019, with offsetting benefits recorded within operating revenues and income taxes. The order also directed NW Natural to reduce the balancing account by an additional \$10.5 million, of which \$3.9 million was charged to operations and maintenance expense and \$6.6 million was charged to other income (expense), net in the consolidated statements of comprehensive income and maintenance expense and \$6.6 million was charged to other income (expense), net in the second quarter of 2019 in accordance with the order.

Total amortization of the regulatory balancing account of \$16.8 million in 2019, of which \$6.2 million was charged to operations and maintenance expense and \$10.6 million was charged to other income (expense), net. Total deferrals of the regulatory balancing account were \$10.3 million in 2018, of which \$2.4 million was deferred from operations and maintenance expense and \$7.9 million was deferred from other income (expense), net.

The following table provides the assumptions used in measuring periodic benefit costs and benefit obligations for the years ended December 31:

	P	ension Benefits		Other Po	stretirement Ber	nefits
	2019	2018	2017	2019	2018	2017
Assumptions for net periodic benefit cost:						
Weighted-average discount rate	4.19%	3.51%	3.99%	4.13%	3.44%	3.85%
Rate of increase in compensation	3.25-3.5%	3.25-4.5%	3.25-4.5%	n/a	n/a	n/a
Expected long-term rate of return	7.50%	7.50%	7.50%	n/a	n/a	n/a
Assumptions for year-end funded status:						
Weighted-average discount rate	3.16%	4.20%	3.52%	3.11%	4.13%	3.44%
Rate of increase in compensation ⁽¹⁾	3.50-6.50%	3.25-4.5%	3.25-4.5%	n/a	n/a	n/a
Expected long-term rate of return	7.25%	7.50%	7.50%	n/a	n/a	n/a

⁽¹⁾Rate assumption is 6.50% in 2020 and 3.50% thereafter. The 2020 compensation increase assumption was a result of the 2019 execution of a new collective bargaining agreement with unionized members of NW Natural effective December 1, 2019.

The assumed annual increase in health care cost trend rates used in measuring other postretirement benefits as of December 31, 2019 was 6.50%. These trend rates apply to both medical and prescription drugs. Medical costs and prescription drugs are assumed to decrease gradually each year to a rate of 4.75% by 2026.

Assumed health care cost trend rates can have a significant effect on the amounts reported for the health care plans; however, other postretirement benefit plans have a cap on the amount of costs reimbursable by NW Natural.

A one percentage point change in assumed health care cost trend rates would have the following effects:

In thousands	1%	Increase	1% Decrease
Effect on net periodic postretirement health care benefit cost	\$	49	\$ (44)
Effect on the accumulated postretirement benefit obligation		710	(640)

Mortality assumptions are reviewed annually and are updated for material changes as necessary. In 2019, mortality rate assumptions were updated from RP-2014 mortality tables using scale MP-2018 to Pri-2012 mortality tables using scale MP-2019, which partially offset increases of the projected benefit obligation.

The following table provides information regarding employer contributions and benefit payments for NW Natural's Pension Plan, non-qualified pension plans, and other postretirement benefit plans for the years ended December 31, and estimated future contributions and payments:

In thousands	Pensi	on Benefits	Othe	r Benefits
Employer Contributions:				
2018	\$	17,715	\$	1,674
2019		13,310		1,774
2020 (estimated)		31,338		1,756
Benefit Payments:				
2017		31,580		1,737
2018		21,918		1,674
2019		23,160		1,774
Estimated Future Benefit Payments:				
2020		23,412		1,756
2021		24,304		1,833
2022		25,094		1,848
2023		25,941		1,899
2024		26,757		1,903
2025-2029		148,000		8,945

Employer Contributions to Company-Sponsored Defined Benefit Pension Plans

NW Natural makes contributions to its qualified defined benefit Pension Plans based on actuarial assumptions and estimates, tax regulations, and funding requirements under federal law. The Pension Protection Act of 2006 (the Act) established funding requirements for defined benefit plans. The Act establishes a 100% funding target over seven years for plan years beginning after December 31, 2008. In July 2012, President Obama signed the Moving Ahead for Progress in the 21st Century Act

(MAP-21) into law, which changed several provisions affecting pension plans, including temporary funding relief and Pension Benefit Guaranty Corporation (PBGC) premium increases, which shifts the level of minimum required contributions from the short-term to the long-term as well as increasing the operational costs of running a pension plan. MAP-21 established a new minimum and maximum corridor for segment rates based on a 25-year average of bond yields, which resulted in lower minimum contributions requirements than those under previous regulations. MAP-21, as amended, provides for the current corridor to be in effect through 2020 and subsequently broaden on an annual basis from 2021 through 2024.

The Pension Plan was underfunded by \$164.3 million at December 31, 2019. NW Natural made cash contributions totaling \$11.0 million to its Pension Plan for 2019. During 2020, NW Natural expects to make contributions of approximately \$29.0 million to this plan.

Multiemployer Pension Plan

In addition to the NW Natural-sponsored Pension Plan presented above, prior to 2014 NW Natural contributed to a multiemployer pension plan for its NGD union employees known as the Western States Office and Professional Employees International Union Pension Fund (Western States Plan). That plan's employer identification number is 94-6076144. Effective December 22, 2013, NW Natural withdrew from the plan, which was a noncash transaction. Vested participants will receive all benefits accrued through the date of withdrawal. As the plan was underfunded at the time of withdrawal, NW Natural was assessed a withdrawal liability of \$8.3 million, plus interest, which requires NW Natural to pay \$0.6 million each year to the plan for 20 years beginning in July 2014. The cost of the withdrawal liability was deferred to a regulatory account on the balance sheet.

Payments were \$0.6 million for 2019, and as of December 31, 2019 the liability balance was \$6.5 million. Contributions to the plan were \$0.6 million for each of 2018 and 2017, which was approximately 5% to 6% of the total contributions to the plan by all employer participants in those years.

Defined Contribution Plan

NW Natural's Retirement K Savings Plan is a qualified defined contribution plan under Internal Revenue Code Sections 401(a) and 401(k). NW Natural contributions totaled \$7.0 million, \$6.5 million, and \$5.4 million for 2019, 2018, and 2017, respectively. The Retirement K Savings Plan includes an Employee Stock Ownership Plan.

Deferred Compensation Plans

NW Natural's supplemental deferred compensation plans for eligible officers and senior managers are non-qualified plans. These plans are designed to enhance the retirement savings of employees and to assist them in strengthening their financial security by providing an incentive to save and invest regularly.

Fair Value

Below is a description of the valuation methodologies used for assets measured at fair value. In cases where NW Natural's Pension Plan is invested through a collective trust fund or mutual fund, the fund's market value is utilized. Market values for investments directly owned are also utilized.

U.S. EQUITY. These are non-published net asset value (NAV) assets. The non-published NAV assets consist of commingled trusts where NAV is not published but the investment can be readily disposed of at NAV or market value. The underlying investments in this asset class includes investments primarily in U.S. common stocks.

INTERNATIONAL/GLOBAL EQUITY. These are Level 1 and non-published NAV assets. The Level 1 asset is a mutual fund, and the non-published NAV assets consist of commingled trusts where the NAV/unit price is not published, but the investment can be readily disposed of at the NAV/unit price. The mutual funds has a readily determinable fair value, including a published NAV, and the commingled trusts are valued at unit price. This asset class includes investments primarily in foreign equity common stocks.

LIABILITY HEDGING. These are non-published NAV assets. The non-published NAV assets consist of commingled trusts where NAV is not published but the investment can be readily disposed of at NAV or market value. The underlying investments in this asset class include long duration fixed income investments primarily in U.S. treasuries, U.S. government agencies, municipal securities, mortgage-backed securities, asset-backed securities, as well as U.S. and international investment-grade corporate bonds.

OPPORTUNISTIC. These are non-published NAV assets consisting of commingled trusts where the investments can be readily disposed of at unit price, and a hedge fund of funds where the valuation is not published. This hedge fund of funds is winding down. Based on recent dispositions, NW Natural believes the remaining investment is fairly valued. The hedge fund of funds is valued at the weighted average value of investments in various hedge funds, which in turn are valued at the closing price of the underlying securities. This asset class includes investments in emerging market debt, leveraged loans, REITs, high yield bonds, a commodities fund, and a hedge fund of funds.

ABSOLUTE RETURN STRATEGY. This is a non-published NAV asset consisting of a hedge fund of funds where the valuation is not published. This hedge fund of funds is winding down. Based on recent dispositions, NW Natural believes the remaining investment is fairly valued. The hedge fund of funds is valued at the weighted average value of investments in various hedge funds, which in turn are valued at the closing price of the underlying securities. This asset class primarily includes investments in common stocks and fixed income securities.

CASH AND CASH EQUIVALENTS. These are Level 1 and non-published NAV assets. The Level 1 assets consist of cash in U.S. dollars, which can be readily disposed of at face value. The non-published NAV assets represent mutual funds without published NAV's but the investment can be readily disposed of at the NAV. The mutual funds are valued at the NAV of the shares held by the plan at the valuation date.

The preceding valuation methods may produce a fair value calculation that is not indicative of net realizable value or reflective of future fair values. Although we believe these valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain investments could result in a different fair value measurement at the reporting date.

Investment securities are exposed to various financial risks including interest rate, market, and credit risks. Due to the level of risk associated with certain investment securities, it is reasonably possible that changes in the values of NW Natural's investment securities will occur in the near term and such changes could materially affect NW Natural's investment account balances and the amounts reported as plan assets available for benefit payments.

The following tables present the fair value of NW Natural's plan assets, including outstanding receivables and liabilities, of NW Natural's retirement trust fund:

In thousands			Dec	ember 31, 20	19		
Investments	Level 1	Level 2		Level 3	N	on-Published NAV ⁽¹⁾	Total
US equity	\$ _	\$ 	\$	_	\$	95,604	\$ 95,604
International / Global equity	33,168	_		_		74,337	107,505
Liability hedging	_	_		_		93,028	93,028
Opportunistic	_	_		_		9,864	9,864
Cash and cash equivalents	_	_		_		7,049	7,049
Total investments	\$ 33,168	\$ _	\$		\$	279,882	\$ 313,050

				1	Dec	ember 31, 20	10			
Investments	_	Level 1		Level 2		Level 3	N	on-Published NAV ⁽¹⁾		Total
Investments		Level I		Level 2		Level 5				Total
US equity	\$	_	\$	_	\$	—	\$	85,233	\$	85,233
International / Global equity		24,994		_		_		70,017		95,011
Liability hedging		_		_		_		45,659		45,659
Opportunistic		_		—		_		23,186		23,186
Cash and cash equivalents		_		—		_		8,707		8,707
Total investments	\$	24,994	\$	_	\$	_	\$	232,802	\$	257,796
			_		_		_		_	

December 31, 2018

	Decemb	ber 3	1,
	 2019		2018
Receivables:			
Accrued interest and dividend income	\$ 3,243	\$	1
Due from broker for securities sold	—		—
Total receivables	 3,243		1
Liabilities:	 		
Due to broker for securities purchased	3,242		_
Total investment in retirement trust	\$ 313,051	\$	257,797

(1) The fair value for these investments is determined using Net Asset Value per share (NAV) as of December 31, as a practical expedient, and therefore they are not classified within the fair value hierarchy. These investments primarily consist of institutional investment products, for which the NAV is generally not publicly available.

The following table provides a reconciliation between income taxes calculated at the statutory federal tax rate and the provision for income taxes reflected in the NW Holdings and NW Natural statements of comprehensive income or loss for December 31:

		NW Holdings	i		NW Natural	
Dollars in thousands	2019	2018	2017	2019	2018	2017
Income taxes at federal statutory rate	\$ 16,370	\$ 19,222	\$ 39,578	\$ 17,438	\$ 19,434	\$ 39,624
Increase (decrease):						
State income tax, net of federal	4,422	4,927	5,066	4,716	4,982	5,072
Differences required to be flowed-through by regulatory commissions	(5,772)	1,302	2,357	(5,772)	1,302	2,357
Effect of the TCJA	_	_	(3,376)	_	_	(2,956)
Deferred tax rate differential post-TCJA	_	(76)	_	_	(75)	—
Regulatory settlement	(1,129)	_	_	(1,129)	_	_
Other, net	(1,249)	(1,184)	(2,617)	(1,188)	(1,184)	(2,619)
Total provision for income taxes	\$ 12,642	\$ 24,191	\$ 41,008	\$ 14,065	\$ 24,459	\$ 41,478
Effective tax rate	16.2%	26.4%	36.3%	16.9%	26.4%	36.6%

The NW Holdings and NW Natural effective income tax rates for 2019 compared to 2018 changed primarily as a result of lower pre-tax income and amortization of excess deferred income tax benefits as ordered by regulatory commissions. The NW Holdings and NW Natural effective income tax rates for 2018 compared to 2017 changed primarily as a result of the lower federal corporate income tax rate provided for by the TCJA.

The provision for current and deferred income taxes consists of the following at December 31:

		NW	Holdings	5			NW	/ Natural	
In thousands	2019		2018		2017	2019		2018	2017
Current									
Federal	\$ 5,530	\$	8,953	\$	19,345	\$ 6,755	\$	9,127	\$ 19,304
State	1,667		3,785		5,963	2,101		3,846	5,956
	 7,197		12,738		25,308	 8,856		12,973	 25,260
Deferred									
Federal	1,515		9,001		13,869	1,340		9,025	14,371
State	3,930		2,452		1,831	3,869		2,461	1,847
	5,445		11,453		15,700	5,209		11,486	16,218
Income tax provision	\$ 12,642	\$	24,191	\$	41,008	\$ 14,065	\$	24,459	\$ 41,478

The following table summarizes the tax effect of significant items comprising NW Holdings and NW Natural's deferred income tax balances recorded at December 31:

NW Ho	oldir	ngs		NW N	atur	al
 2019		2018		2019		2018
\$ 269,886	\$	288,385	\$	281,044	\$	303,186
40,133				40,133		—
22,635		27,135		22,635		27,135
19,382		21,403		19,382		21,402
751		1,061		410		537
\$ 352,787	\$	337,984	\$	363,604	\$	352,260
\$ 54,259	\$	57,469	\$	54,259	\$	57,469
2,723		_		_		_
162		52		48		52
\$ 57,144	\$	57,521	\$	54,307	\$	57,521
\$ 295,643	\$	280,463	\$	309,297	\$	294,739
\$	2019 \$ 269,886 40,133 22,635 19,382 751 \$ 352,787 \$ 54,259 2,723 162 \$ 57,144	2019 \$ 269,886 \$ 40,133 22,635 19,382 751 \$ 352,787 \$ \$ 54,259 \$ 2,723 162 \$ 57,144 \$	\$ 269,886 \$ 288,385 40,133 22,635 27,135 19,382 21,403 751 1,061 \$ 352,787 \$ 337,984 \$ 54,259 \$ 57,469 2,723 162 52 \$ 57,144 \$ 57,521	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

At December 31, 2019 and 2018, regulatory income tax assets of \$16.9 million and \$19.1 million, respectively, were recorded by NW Natural, a portion of which is recorded in current assets. These regulatory income tax assets primarily represent future rate recovery of deferred tax liabilities, resulting from differences in NGD plant financial statement and tax bases and NGD plant removal costs, which were previously flowed through for rate making purposes and to take into account the additional future taxes, which will be generated by that recovery. These deferred tax liabilities, and the associated regulatory income tax assets, are currently being recovered through customer rates. At December 31, 2019 and 2018, regulatory income tax assets of \$2.5 million and \$2.3 million, respectively, were recorded by NW Natural, representing future recovery of deferred tax liabilities resulting from the equity portion of AFUDC.

At December 31, 2019 and 2018, deferred tax assets of \$54.3 million and \$57.5 million, respectively, were recorded by NW Natural representing the future income tax benefit associated with the excess deferred income tax regulatory liability recorded as a result of the lower federal corporate income tax rate provided for by the TCJA. At December 31, 2019 and 2018, regulatory liability balances representing the benefit of the change in deferred taxes as a result of the TCJA of \$205.0 million and \$217.1 million, respectively, were recorded by NW Natural.

NW Natural's natural gas utility rates include an allowance to provide for the recovery of the anticipated provision for income taxes incurred as a result of providing regulated services. As a result of the 21 percent federal corporate income tax rate enacted in 2017, NW Natural recorded an additional regulatory liability in 2018 and 2019 reflecting the deferral of the estimated rate benefit for customers. The deferral period for Oregon ended on October 31, 2018 coincident with new rates beginning November 1, 2018. The deferral period for Washington ended on October 31, 2019 coincident with new rates beginning November 1, 2019. At December 31, 2019 and 2018, a regulatory liability of \$1.7 million and \$8.2 million, respectively, was recorded to reflect this estimated revenue deferral.

NW Holdings and NW Natural assess the available positive and negative evidence to estimate if sufficient taxable income will be generated to utilize their respective existing deferred tax assets. Based upon this assessment, NW Holdings and NW Natural determined that it is more likely than not that all of their respective deferred tax assets recorded as of December 31, 2019 will be realized.

The Company estimates it has net operating loss (NOL) carryforwards of \$0.4 million for federal taxes and \$0.4 million for Oregon taxes at December 31, 2019. We anticipate fully utilizing these NOL carryforward balances before they begin to expire in 2027 for federal and 2022 for Oregon. California alternative minimum tax (AMT) credits of \$0.1 million are also available. The AMT credits do not expire.

Uncertain tax positions are accounted for in accordance with accounting standards that require an assessment of the anticipated settlement outcome of material uncertain tax positions taken in a prior year, or planned to be taken in the current year. Until such positions are sustained, the uncertain tax benefits resulting from such positions would not be recognized. No reserves for uncertain tax positions were recorded as of December 31, 2019, 2018, or 2017.

The federal income tax returns for tax years 2015 and earlier are closed by statute. The IRS Compliance Assurance Process (CAP) examination of the 2016 and 2017 tax years have been completed. There were no material changes to these returns as filed. The 2018 and 2019 tax years are currently under IRS CAP examination. Our 2020 CAP application has been filed. Under the CAP program, NW Holdings and NW Natural work with the IRS to identify and resolve material tax matters before the tax return is filed each year.

As of December 31, 2019, income tax years 2015 through 2018 remain open for examination by the State of California. Income tax year 2018 is open for examination by the State of Idaho. The State of Oregon examined the Oregon corporate income tax returns for tax years 2015, 2016, and 2017. No material changes occurred as a result of this examination.

U.S. Federal TCJA Matters

On December 22, 2017, the TCJA was enacted and permanently lowered the U.S. federal corporate income tax rate to 21% from the previous maximum rate of 35%, effective for the tax year beginning January 1, 2018. The TCJA included specific provisions related to regulated public utilities that provide for the continued deductibility of interest expense and the elimination of bonus tax depreciation for property both acquired and placed into service on or after January 1, 2018.

Under pre-TCJA law, business interest was generally deductible in the determination of taxable income. The TCJA imposed a new limitation on the deductibility of net business interest expense in excess of approximately 30 percent of adjusted taxable income. Taxpayers operating in the trade or business of a regulated utility are excluded from these new interest expense limitations. Proposed U.S. Treasury Regulations were published in November of 2018 which provide a de minimis rule whereby if 90 percent or more of a taxpayer's adjusted asset basis is allocable to regulated utility activities, then all of the business interest expense of that taxpayer is deemed to be excepted business interest of the regulated utility activity and is thereby not limited under the TCJA. As a result of the de minimis rule, NW Holdings and NW Natural anticipate that business interest expense will not be limited under the TCJA.

The TCJA generally provides for immediate full expensing for qualified property both acquired and placed in service after September 27, 2017 and before January 1, 2023. This would generally provide for accelerated cost recovery for capital investments. However, the definition of qualified property excludes property used in the trade or business of a regulated utility. Final U.S. Treasury Regulations were published in September of 2019 which clarified that bonus tax depreciation would not be available for regulated utility activity assets both acquired and placed in service by NW Holdings or NW Natural on or after January 1, 2018. Proposed U.S. Treasury Regulations released in September of 2019 indicated that long production period property acquired before September 27, 2017 continues to qualify for bonus depreciation in the year placed in service consistent with pre-TCJA law.

The SEC staff previously issued Staff Accounting Bulletin 118, which provided guidance on accounting for the tax effects of the TCJA. SAB 118 provided a measurement period that should not extend beyond one year from the TCJA enactment date for companies to complete the accounting for the TCJA under ASC 740. To the extent that a company's accounting for certain income tax effects of the TCJA was incomplete but a reasonable estimate could be made, a company would record a provisional estimate in the financial statements. NW Natural previously disclosed that due to uncertainties with respect to the availability of bonus tax depreciation for regulated utility activity assets under the TCJA that the effects of bonus tax depreciation for assets placed in service after September 27, 2017 but before January 1, 2018 had not been recorded. The determination to exclude all assets placed in service after September 27, 2017 but before January 1, 2018 from bonus tax depreciation was provisional as provided for under SAB 118.

As a result of the Proposed Regulations on bonus tax depreciation published in August of 2018, NW Natural revised the provisional estimate of deferred taxes and income taxes payable to reflect the effects of bonus tax depreciation for assets placed in service after September 27, 2017 but before January 1, 2018. In the third quarter of 2018, NW Natural recognized increases to prepaid income tax of \$7.4 million, deferred income tax liability of \$4.1 million, and regulatory liability of \$3.3 million. In the fourth quarter of 2018, NW Natural recognized additional increases to prepaid income tax of \$0.5 million, deferred income tax liability of \$0.3 million, and regulatory liability of \$0.2 million. The accounting for income tax effects of the TCJA was complete at the end of calendar year 2018.

NW Natural previously filed applications with the OPUC and WUTC to defer the NGD net income tax benefits resulting from the TCJA. In March 2019, the OPUC issued an order addressing the regulatory amortization of the income tax benefits from the TCJA that NW Natural deferred for Oregon customers in December of 2017. Under the order, NW Natural will provide the benefit of these TCJA income tax deferrals to Oregon customers through ongoing annual credits to customer base rates and as a one-time recovery of a portion of the pension balancing account regulatory asset balance. On an annualized basis, it is anticipated that the income tax benefits from the provision of these TCJA benefits to customers should approximate the reduction to pretax income that occurs as a result of the customer base rate credits and one-time recovery of a portion of the pension balancing account.

In October 2019, the WUTC issued an order addressing the regulatory amortization of the income tax benefits from the TCJA that NW Natural deferred for Washington customers in December of 2017. Under the order, NW Natural will provide deferred income tax benefits from the TCJA to customers through base rate credits beginning November 1, 2019.

The following table sets forth the major classifications of property, plant, and equipment and accumulated depreciation of continuing operations at December 31:

In thousands	2019		2018
NW Natural:			
NGD plant in service	\$ 3,302,04	9 \$	3,134,122
NGD work in progress	84,96	5	204,978
Less: Accumulated depreciation	1,017,93	1	974,252
NGD plant, net	2,369,08	3	2,364,848
Other plant in service	63,51	3	66,009
Other construction work in progress	5,54	8	5,330
Less: Accumulated depreciation	18,66	2	18,603
Other plant, net ⁽¹⁾	50,39	9	52,736
Total property, plant, and equipment	\$ 2,419,48	2 \$	2,417,584
Other (NW Holdings):			
Other plant in service	\$ 20,67	1\$	4,051
Less: Accumulated depreciation	1,25	4	263
Other plant, net ⁽¹⁾	19,41	7	3,788
NW Holdings:			
Total property, plant, and equipment	\$ 2,438,85	9 \$	2,421,372
NW Natural and NW Holdings:			
Capital expenditures in accrued liabilities	\$ 32,50	2 \$	23,676

⁽¹⁾ NW Natural previously reported other balances which were restated due to certain assets and liabilities now being classified as discontinued operations assets and liabilities in its balance sheets. See Note 19 for further discussion.

Accumulated depreciation does not include the accumulated provision for asset removal costs of \$401.9 million and \$380.5 million at December 31, 2019 and 2018, respectively. These accrued asset removal costs are reflected on the balance sheet as regulatory liabilities. See Note 2. During 2019 and 2018, no equipment was acquired under capital leases.

NW Holdings

Other plant balances include long-lived assets associated with water operations and non-regulated activities not held by NW Natural or its subsidiaries.

NW Natural

Other plant balances include long-lived assets not related to NGD and long-lived assets that may be used to support NGD operations.

The weighted average depreciation rate for NGD assets was 2.9% during 2019 and 2.8% during 2018, and 2017. The weighted average depreciation rate for assets not related to NGD was 1.8% in 2019, 2.2% in 2018, and 1.9% in 2017.

In October 2017, NW Natural entered into a 20-year lease agreement expected to commence in 2020 for its new corporate operations center location in Portland, Oregon. Under the new lease standard, NW Natural is no longer considered the accounting owner of the asset during construction. As such, the build to suit asset and liability balances at December 31, 2018 of \$26.0 million were derecognized in January 2019. The previous build to suit balances were recorded under ASC 840 within property, plant and equipment and other non-current liabilities in the consolidated balance sheet.

In May 2019, NW Natural placed its North Mist gas storage expansion facility into service and commenced storage services to the facility's single customer, PGE. Under U.S. GAAP, this agreement is classified as a sales-type lease and qualifies for regulatory accounting deferral treatment. Accordingly, the project was de-recognized from property, plant and equipment upon lease commencement and the investment balance is presented net of the current portion of scheduled billings within assets under sales-type leases on the consolidated balance sheets. A total of \$146.0 million was de-recognized from plant on the lease commencement date. The facility is included within rate base for ratemaking purposes. See Note 7 for information regarding leases, including North Mist.

13. GAS RESERVES

NW Natural has invested \$188 million through the gas reserves program in the Jonah Field located in Wyoming as of December 31, 2019. Gas reserves are stated at cost, net of regulatory amortization, with the associated deferred tax benefits recorded as liabilities in the consolidated balance sheets. The investment in gas reserves provides long-term price protection for NGD customers through the original agreement with Encana Oil & Gas (USA) Inc. under which NW Natural invested \$178 million and the amended agreement with Jonah Energy LLC under which an additional \$10 million was invested.

NW Natural entered into the original agreements with Encana in 2011 under which NW Natural holds working interests in certain sections of the Jonah Field. Gas produced in these sections is sold at prevailing market prices, and revenues from such sales, net of associated operating and production costs and amortization, are credited to the NGD cost of gas. The cost of gas, including a carrying cost for the rate base investment, is included in the annual Oregon PGA filing, which allows NW Natural to recover these costs through customer rates. The investment under the original agreement, less accumulated amortization and deferred taxes, earns a rate of return.

In March 2014, NW Natural amended the original gas reserves agreement in order to facilitate Encana's proposed sale of its interest in the Jonah field to Jonah Energy. Under the amendment, NW Natural ended the drilling program with Encana, but increased its working interests in its assigned sections of the Jonah field. NW Natural also retained the right to invest in new wells with Jonah Energy. Under the amended agreement there is still the option to invest in additional wells on a well-by-well basis with drilling costs and resulting gas volumes shared at NW Natural's amended proportionate working interest for each well in which it invests. NW Natural elected to participate in some of the additional wells drilled in 2014, but has not participated in additional wells since 2014. However, there may be the opportunity to participate in more wells in the future.

Gas produced from the additional wells is included in the Oregon PGA at a fixed rate of \$0.4725 per therm, which approximates the 10-year hedge rate plus financing costs at the inception of the investment.

Gas reserves acted to hedge the cost of gas for approximately 5%, 6%, and 6% of NGD gas supplies for the years ended December 31, 2019, 2018, and 2017 respectively.

The following table outlines NW Natural's net gas reserves investment at December 31:

In thousands	2019	2018		
Gas reserves, current	\$ 15,278	\$	16,647	
Gas reserves, non-current	172,029		170,660	
Less: Accumulated amortization	123,635		104,463	
Total gas reserves ⁽¹⁾	 63,672		82,844	
Less: Deferred taxes on gas reserves	15,515		20,071	
Net investment in gas reserves	\$ 48,157	\$	62,773	

⁽¹⁾ The net investment in additional wells included in total gas reserves was \$3.8 million and \$4.8 million at December 31, 2019 and 2018, respectively.

NW Natural's investment is included in NW Holdings' and NW Natural's consolidated balance sheets under gas reserves with the maximum loss exposure limited to the investment balance.

14. INVESTMENTS

Investments include financial investments in life insurance policies, and equity method investments in certain partnerships and limited liability companies. The following table summarizes other investments at December 31:

	NW H	olding	js	NW N	atura	I
In thousands	 2019		2018	2019		2018
Investments in life insurance policies	\$ 49,837	\$	49,922	\$ 49,837	\$	49,922
Investments in gas pipeline	13,472		13,571	_		_
Other	24		65	_		_
Total other investments	\$ 63,333	\$	63,558	\$ 49,837	\$	49,922

Investment in Life Insurance Policies

NW Natural has invested in key person life insurance contracts to provide an indirect funding vehicle for certain long-term employee and director benefit plan liabilities. The amount in the above table is reported at cash surrender value, net of policy loans.

Investments in Gas Pipeline

Trail West Pipeline, LLC (TWP), a wholly-owned subsidiary of TWH, is pursuing the development of a new gas transmission pipeline that would provide an interconnection with NW Natural's NGD system. NWN Energy, a wholly-owned subsidiary of NW Holdings, owns 50% of TWH, and 50% is owned by TransCanada American Investments Ltd., an indirect wholly-owned subsidiary of TransCanada Corporation.

Variable Interest Entity (VIE) Analysis

TWH is a VIE, with NW Holdings' investment in TWP reported under equity method accounting. It has been determined that NW Holdings is not the primary beneficiary of TWH's activities as it only has a 50% share of the entity, and there are no stipulations that allow NW Holdings a disproportionate influence over it. Investments in TWH and TWP are included in other investments on NW Holdings' balance sheet. If this investment is not developed, then the maximum loss exposure related to TWH is limited to NW Holdings' equity investment balance, less its share of any cash or other assets available to NW Holdings as a 50% owner. The investment balance in TWH was \$13.4 million at December 31, 2019 and 2018.

Impairment Analysis

Investments in nonconsolidated entities accounted for under the equity method are reviewed for impairment at each reporting period and following updates to our corporate planning assumptions. If it is determined a loss in value is other than temporary, a charge is recognized for the difference between the investment's carrying value and its estimated fair value. Fair value is based on quoted market prices when available or on the present value of expected future cash flows. Differing assumptions could affect the timing and amount of a charge recorded in any period.

In 2011, TWP withdrew its original application with the FERC for a proposed natural gas pipeline in Oregon and informed FERC that it intended to re-file an application to reflect changes in the project scope aligning the project with the region's current and future gas infrastructure needs. TWP continues working with customers in the Pacific Northwest to further understand their gas transportation needs and determine the commercial support for a revised pipeline proposal. A new FERC certificate application is expected to be filed to reflect a revised scope based on these regional needs.

NW Holdings' equity investment was not impaired at December 31, 2019 as the fair value of expected cash flows from planned development exceeded NW Holdings' remaining equity investment of \$13.4 million at December 31, 2019. However, if NW Holdings learns that the project is not viable or will not go forward, it could be required to recognize a maximum charge of up to approximately \$13.4 million based on the current amount of the equity investment, net of cash and working capital at TWP. NW Holdings will continue to monitor and update the impairment analysis as required.

15. BUSINESS COMBINATIONS

2019 Business Combinations

Sunriver

On May 31, 2019, NWN Water of Oregon, a wholly-owned indirect subsidiary of NW Holdings, completed the acquisition of Sunriver Water and Sunriver Environmental (collectively referred to as Sunriver), a privately-owned water utility and wastewater treatment company located in Sunriver, Oregon that serves approximately 9,400 connections. The acquisition-date fair value of the total consideration transferred, after closing adjustments, was approximately \$55.0 million in cash consideration. The transaction aligns with NW Holdings' water sector strategy as it continues to expand its water utility service territory in the Pacific Northwest and begins to pursue wastewater investment opportunities.

The Sunriver acquisition met the criteria of a business combination, and as such a preliminary allocation of the consideration to the acquired assets based on their estimated fair value as of the acquisition date was performed. In accordance with U.S. GAAP, the fair value determination was made using existing regulatory conditions for assets associated with Sunriver Water, LLC as well as existing market conditions and standard valuation approaches for assets associated with Sunriver Environmental, LLC in order to allocate value as determined by an independent third party assessor for certain assets, which involved the use of management judgment in determining the significant estimates and assumptions used by the assessor, with the remaining difference from the consideration transferred being recorded as goodwill. This allocation is considered preliminary as of December 31, 2019, as facts and circumstances that existed as of the acquisition date may be discovered as we continue to integrate Sunriver. As a result, subsequent adjustments to the preliminary valuation of tangible assets, contract assets and liabilities, tax positions, and goodwill may be required. Subsequent adjustments are not expected to be significant, and any such adjustments are expected to be completed within the one-year measurement period. The acquisition costs were expensed as incurred.

Preliminary goodwill of \$40.1 million was recognized from this acquisition. The goodwill recognized is attributable to Sunriver's regulated water utility service territory, experienced workforce, and the strategic benefits for both the water utility and wastewater services expected from growth in its service territory. No intangible assets aside from goodwill were acquired. The total amount of goodwill that is expected to be deductible for income tax purposes is approximately \$50.2 million.

The preliminary purchase price for the acquisition has been allocated to the net assets acquired as of the acquisition date and is as follows:

In thousands	December 31, 2019
Current assets	\$ 221
Property, plant and equipment	13,819
Goodwill	40,118
Deferred tax assets	812
Current liabilities	(22
Total net assets acquired	\$ 54,948

The amount of Sunriver revenues included in NW Holdings' consolidated statements of comprehensive income is \$3.7 million for the year ended December 31, 2019. Earnings from Sunriver activities for the year ended December 31, 2019 were not material to the results of NW Holdings.

Other Acquisitions

During the year ended December 31, 2019, NWN Water completed three additional acquisitions qualifying as business combinations. The aggregate fair value of the preliminary consideration transferred for these acquisitions was approximately \$2.0 million. These business combinations were not significant to NW Holdings' results of operations.

2018 Business Combinations

Falls Water

On September 13, 2018, NWN Water, then a wholly-owned subsidiary of NW Natural and now a wholly-owned subsidiary of NW Holdings, completed the acquisition of Falls Water, a privately-owned water utility in the Pacific Northwest for non-cash consideration of \$8.5 million, in the form of 125,000 shares of NW Natural common stock, which were converted to NW Holdings common stock in our October 1, 2018 reorganization. Falls Water became a wholly-owned subsidiary of NWN Water and marked its first acquisition in the water utility sector. This acquisition aligns with NW Holdings' water sector strategy as the acquisition provides NWN Water entry into Idaho, expands service area, and opens further opportunity for growth. Falls Water is based in Idaho Falls, Idaho and served approximately 5,300 connections at the time of acquisition.

Through the purchase of all of the outstanding shares of Falls Water, NWN Water acquired the net assets and 100% control of Falls Water. We determined that the Falls Water acquisition met the criteria of a business combination, and as such performed an allocation of the consideration to the acquired assets and assumed liabilities based on their fair value as of the acquisition date, the majority of which was allocated to goodwill. The acquisition costs were insignificant and were expensed as incurred. The results of Falls Water are not material to the consolidated financial results of NW Holdings.

Goodwill of \$6.2 million was recognized from this acquisition and is attributable to Falls Water's regulated service territory and experienced workforce as well as the strategic benefits expected from this high-growth service territory. NW Holdings has included this goodwill in other for segment reporting purposes, and it is not deductible for income tax purposes. No intangible assets aside from goodwill were acquired. See Note 2 for goodwill impairment information.

Other Acquisitions

During 2018, in addition to the Falls Water acquisition, NWN Water completed three acquisitions qualifying as business combinations. The aggregate fair value of the consideration transferred for these acquisitions was approximately \$2.8 million. These business combinations, both individually and in aggregate, were not significant to NW Holdings' results of operations.

As a result of all acquisitions completed, total goodwill was \$49.9 million and \$9.0 million as of December 31, 2019 and 2018, respectively. The increase in the goodwill balance was due to additions associated with our acquisitions in the water sector. All of our goodwill is related to water and wastewater acquisitions and is included in the other category for segment reporting purposes. The annual impairment assessment of goodwill occurs in the fourth quarter of each year. There have been no impairments recognized to date.

16. DERIVATIVE INSTRUMENTS

NW Natural enters into financial derivative contracts to hedge a portion of the NGD segment's natural gas sales requirements. These contracts include swaps, options, and combinations of option contracts. These derivative financial instruments are primarily used to manage commodity price variability. A small portion of NW Natural's derivative hedging strategy involves foreign currency exchange contracts.

NW Natural enters into these financial derivatives, up to prescribed limits, primarily to hedge price variability related to physical gas supply contracts as well as to hedge spot purchases of natural gas. The foreign currency forward contracts are used to hedge the fluctuation in foreign currency exchange rates for pipeline demand charges paid in Canadian dollars.

In the normal course of business, NW Natural also enters into indexed-price physical forward natural gas commodity purchase contracts and options to meet the requirements of NGD customers. These contracts qualify for regulatory deferral accounting treatment.

NW Natural also enters into exchange contracts related to the third-party asset management of its gas portfolio, some of which are derivatives that do not qualify for hedge accounting or regulatory deferral, but are subject to NW Natural's regulatory sharing agreement. These derivatives are recognized in operating revenues, net of amounts shared with NGD customers.

Notional Amounts

The following table presents the absolute notional amounts related to open positions on NW Natural derivative instruments:

Natural gas (in therms): Financial Physical	At December 31,							
In thousands	 2019		2018					
Natural gas (in therms):								
Financial	651,540		408,850					
Physical	512,849		472,275					
Foreign exchange	\$ 6,650	\$	6,936					

Purchased Gas Adjustment (PGA)

Derivatives entered into by NW Natural for the procurement or hedging of natural gas for future gas years generally receive regulatory deferral accounting treatment. In general, commodity hedging for the current gas year is completed prior to the start of the gas year, and hedge prices are reflected in the weighted-average cost of gas in the PGA filing. Rates and hedging approaches may vary between states due to different rate structures and mechanisms. In addition, as required with the Washington PGA filing, NW Natural incorporated and began implementing risk-responsive hedging strategies for the 2019-20 PGA for its Washington gas supplies. Hedge contracts entered into after the start of the PGA period are subject to the PGA incentive sharing mechanism in Oregon. NW Natural entered the 2019-20 and 2018-19 gas years with forecasted sales volumes hedged at 52% and 48% in financial swap and option contracts, and 19% and 24% in physical gas supplies, respectively. Hedge contracts entered into after the PGA for the 2019-20 gas year. Hedge contracts entered into after the PGA for the 2019-20 gas year. Hedge contracts entered into after the PGA for the 2019-20 gas year. Hedge contracts entered into after the PGA for the 2019-20 gas year. Hedge contracts entered into after the PGA filing, and related to subsequent gas years, may be included in future PGA filings and qualify for regulatory deferral.

Unrealized and Realized Gain/Loss

The following table reflects the income statement presentation for the unrealized gains and losses from NW Natural's derivative instruments, which also represents all derivative instruments at NW Holdings:

	December 31, 2019				December 31, 2018			
In thousands	tural gas mmodity		Foreign exchange		atural gas ommodity		Foreign exchange	
Benefit (expense) to cost of gas	\$ 9,863	\$	102	\$	(1,239)	\$	(284)	
Operating revenues (expense)	(568)				1,660			
Amounts deferred to regulatory accounts on balance sheet	(9,376)		(102)		(211)		284	
Total gain (loss) in pre-tax earnings	\$ (81)	\$	_	\$	210	\$	_	

Unrealized Gain/Loss

Outstanding derivative instruments related to regulated NGD operations are deferred in accordance with regulatory accounting standards. The cost of foreign currency forward and natural gas derivative contracts are recognized immediately in the cost of gas; however, costs above or below the amount embedded in the current year PGA are subject to a regulatory deferral tariff and therefore, are recorded as a regulatory asset or liability.

Realized Gain/Loss

NW Natural realized net gains of \$17.9 million and net gains of \$7.4 million for the years ended December 31, 2019 and 2018, respectively, from the settlement of natural gas financial derivative contracts. Realized gains and losses offset the higher or lower cost of gas purchased, resulting in no incremental amounts to collect or refund to customers.

Credit Risk Management of Financial Derivatives Instruments

No collateral was posted with or by NW Natural counterparties as of December 31, 2019 or 2018. NW Natural attempts to minimize the potential exposure to collateral calls by diversifying counterparties to manage liquidity risk. Counterparties generally allow a certain credit limit threshold before requiring NW Natural to post collateral against loss positions. Given NW Natural's counterparty credit limits and portfolio diversification, it was not subject to collateral calls in 2019 or 2018. The collateral call exposure is set forth under credit support agreements, which generally contain credit limits. NW Natural could also be subject to collateral call exposure where it has agreed to provide adequate assurance, which is not specific as to the amount of credit limit allowed, but could potentially require additional collateral in the event of a material adverse change.

Based upon current commodity financial swap and option contracts outstanding, which reflect unrealized gains of \$5.6 million at December 31, 2019, we have estimated the level of collateral demands, with and without potential adequate assurance calls, using current gas prices and various credit downgrade rating scenarios for NW Natural as follows:

		Credit Rating Downgrade Scenarios						
In thousands	rrent js) A+/ 3	BBB+/Baa1	BBB/Baa2	BBB-/Baa3	Speculative			
With Adequate Assurance Calls	\$ — \$	_	\$ —	\$ —	\$ (66)			
Without Adequate Assurance Calls	_	_	_	_	(66)			

NW Natural's financial derivative instruments are subject to master netting arrangements; however, they are presented on a gross basis in the consolidated balance sheets. NW Natural and its counterparties have the ability to set-off obligations to each other under specified circumstances. Such circumstances may include a defaulting party, a credit change due to a merger affecting either party, or any other termination event.

If netted by counterparty, NW Natural's physical and financial derivative position would result in an asset of \$9.4 million and a liability of \$1.9 million as of December 31, 2019, and an asset of \$3.6 million and a liability of \$9.3 million as of December 31, 2018.

NW Natural is exposed to derivative credit and liquidity risk primarily through securing fixed price natural gas commodity swaps with financial counterparties. NW Natural utilizes master netting arrangements through International Swaps and Derivatives Association contracts to minimize this risk along with collateral support agreements with counterparties based on their credit ratings. In certain cases, NW Natural requires guarantees or letters of credit from counterparties to meet its minimum credit requirement standards.

NW Natural's financial derivatives policy requires counterparties to have an investment-grade credit rating at the time the derivative instrument is entered into, and specifies limits on the contract amount and duration based on each counterparty's credit rating. NW Natural does not speculate with derivatives. Derivatives are used to hedge exposure above risk tolerance limits. Increases in market risk created by the use of derivatives is offset by the exposures they modify.

We actively monitor NW Natural's derivative credit exposure and place counterparties on hold for trading purposes or require other forms of credit assurance, such as letters of credit, cash collateral, or guarantees as circumstances warrant. The ongoing assessment of counterparty credit risk includes consideration of credit ratings, credit default swap spreads, bond market credit spreads, financial condition, government actions, and market news. A Monte Carlo simulation model is used to estimate the change in credit and liquidity risk from the volatility of natural gas prices. The results of the model are used to establish trading limits. NW Natural's outstanding financial derivatives at December 31, 2019 mature by October 31, 2022.

We could become materially exposed to credit risk with one or more of our counterparties if natural gas prices experience a significant increase. If a counterparty were to become insolvent or fail to perform on its obligations, we could suffer a material loss; however, we would expect such a loss to be eligible for regulatory deferral and rate recovery, subject to a prudence review. All of our existing counterparties currently have investment-grade credit ratings.

Fair Value

In accordance with fair value accounting, NW natural includes non-performance risk in calculating fair value adjustments. This includes a credit risk adjustment based on the credit spreads of NW Natural counterparties when in an unrealized gain position, or on NW Natural's own credit spread when it is in an unrealized loss position. The inputs in our valuation models include natural gas futures, volatility, credit default swap spreads, and interest rates. Additionally, the assessment of non-performance risk is generally derived from the credit default swap market and from bond market credit spreads. The impact of the credit risk adjustments for all outstanding derivatives was immaterial to the fair value calculation at December 31, 2019. As of

December 31, 2019 and 2018, the net fair value was an asset of \$7.5 million and a liability of \$5.7 million, respectively, using significant other observable, or Level 2, inputs. No Level 3 inputs were used in our derivative valuations, and there were no transfers between Level 1 or Level 2 during the years ended December 31, 2019 and 2018.

17. COMMITMENTS AND CONTINGENCIES

Gas Purchase and Pipeline Capacity Purchase and Release Commitments

NW Natural has signed agreements providing for the reservation of firm pipeline capacity under which it is required to make fixed monthly payments for contracted capacity. The pricing component of the monthly payment is established, subject to change, by U.S. or Canadian regulatory bodies, or is established directly with private counterparties, as applicable. In addition, NW Natural has entered into long-term agreements to release firm pipeline capacity. NW Natural also enters into short-term and long-term gas purchase agreements.

The aggregate amounts of these agreements were as follows at December 31, 2019:

In thousands	Gas urchase eements	C	Capacity Ca urchase Ro		Pipeline Capacity Release preements
2020	\$ 86,175	\$	76,897	\$	4,201
2021	2,899		70,638		3,904
2022	_		68,943		3,904
2023	_		68,563		3,904
2024	—		67,052		3,904
Thereafter	_		527,148		3,253
Total	 89,074		879,241		23,070
Less: Amount representing interest	481		147,613		840
Total at present value	\$ 88,593	\$	731,628	\$	22,230

Total fixed charges under capacity purchase agreements were \$82.2 million for 2019, \$82.6 million for 2018, and \$85.3 million for 2017, of which \$4.3 million, \$4.3 million, and \$4.5 million, respectively, related to capacity releases. In addition, per-unit charges are required to be paid based on the actual quantities shipped under the agreements. In certain take-or-pay purchase commitments, annual deficiencies may be offset by prepayments subject to recovery over a longer term if future purchases exceed the minimum annual requirements.

Leases

Refer to Note 7 for a discussion of lease commitments and contingencies.

Environmental Matters

Refer to Note 18 for a discussion of environmental commitments and contingencies.

18. ENVIRONMENTAL MATTERS

NW Natural owns, or previously owned, properties that may require environmental remediation or action. The range of loss for environmental liabilities is estimated based on current remediation technology, enacted laws and regulations, industry experience gained at similar sites, and an assessment of the probable level of involvement and financial condition of other potentially responsible parties (PRPs). When amounts are prudently expended related to site remediation of those sites described herein, NW Natural has recovery mechanisms in place to collect 96.68% of remediation costs allocable to Oregon customers and 3.32% of costs allocable to Washington customers.

These sites are subject to the remediation process prescribed by the Environmental Protection Agency (EPA) and the Oregon Department of Environmental Quality (ODEQ). The process begins with a remedial investigation (RI) to determine the nature and extent of contamination and then a risk assessment (RA) to establish whether the contamination at the site poses unacceptable risks to humans and the environment. Next, a feasibility study (FS) or an engineering evaluation/cost analysis (EE/CA) evaluates various remedial alternatives. It is at this point in the process when NW Natural is able to estimate a range of remediation costs and record a reasonable potential remediation liability, or make an adjustment to the existing liability. From this study, the regulatory agency selects a remedy and issues a Record of Decision (ROD). After a ROD is issued, NW Natural would seek to negotiate a consent decree or consent judgment for designing and implementing the remedy. NW Natural would have the ability to further refine estimates of remediation liabilities at that time.

Remediation may include treatment of contaminated media such as sediment, soil and groundwater, removal and disposal of media, institutional controls such as legal restrictions on future property use, or natural recovery. Following construction of the remedy, the EPA and ODEQ also have requirements for ongoing maintenance, monitoring and other post-remediation care that may continue for many years. Where appropriate and reasonably known, NW Natural will provide for these costs in the remediation liabilities described below.

Due to the numerous uncertainties surrounding the course of environmental remediation and the preliminary nature of several site investigations, in some cases, NW Natural may not be able to reasonably estimate the high end of the range of possible loss. In those cases, the nature of the possible loss has been disclosed, as has the fact that the high end of the range cannot be reasonably estimated where a range of potential loss is available. Unless there is an estimate within the range of possible losses that is more likely than other cost estimates within that range, NW Natural records the liability at the low end of this range. It is likely changes in these estimates and ranges will occur throughout the remediation process for each of these sites due to the continued evaluation and clarification concerning responsibility, the complexity of environmental laws and regulations and the determination by regulators of remediation alternatives. In addition to remediation costs, NW Natural could also be subject to Natural Resource Damages (NRD) claims. NW Natural will assess the likelihood and probability of each claim and recognize a liability if deemed appropriate. Refer to "*Other Portland Harbor*" below.

Environmental Sites

The following table summarizes information regarding liabilities related to environmental sites, which are recorded in other current liabilities and other noncurrent liabilities in NW Natural's balance sheet at December 31:

	Current L	iabi	lities	1	Non-Curre	nt Li	abilities
In thousands	 2019		2018		2019		2018
Portland Harbor site:							
Gasco/Siltronic Sediments	\$ 11,632	\$	5,117	\$	46,082	\$	44,351
Other Portland Harbor	2,543		2,600		6,920		6,273
Gasco/Siltronic Upland site	14,203		13,983		43,616		44,830
Central Service Center site	_		10		_		_
Front Street site	10,847		11,402		_		3
Oregon Steel Mills	_		_		179		179
Total	\$ 39,225	\$	33,112	\$	96,797	\$	95,636

Portland Harbor Site

The Portland Harbor is an EPA listed Superfund site that is approximately 10 miles long on the Willamette River and is adjacent to NW Natural's Gasco uplands site. NW Natural is one of over one hundred PRPs to the Superfund site. In January 2017, the EPA issued its Record of Decision, which selects the remedy for the clean-up of the Portland Harbor site (Portland Harbor ROD). The Portland Harbor ROD estimates the present value total cost at approximately \$1.05 billion with an accuracy between -30% and +50% of actual costs.

NW Natural's potential liability is a portion of the costs of the remedy for the entire Portland Harbor Superfund site. The cost of that remedy is expected to be allocated among more than one hundred PRPs. NW Natural is participating in a non-binding allocation process with the other PRPs in an effort to resolve its potential liability. The Portland Harbor ROD does not provide any additional clarification around allocation of costs among PRPs; accordingly, NW Natural has not modified any of the recorded liabilities at this time as a result of the issuance of the Portland Harbor ROD.

NW Natural manages its liability related to the Superfund site as two distinct remediation projects, the Gasco/Siltronic Sediments and Other Portland Harbor projects.

Gasco/Siltronic Sediments. In 2009, NW Natural and Siltronic Corporation entered into a separate Administrative Order on Consent with the EPA to evaluate and design specific remedies for sediments adjacent to the Gasco uplands and Siltronic uplands sites. NW Natural submitted a draft EE/CA to the EPA in May 2012 to provide the estimated cost of potential remedial alternatives for this site. In February 2020, NW Natural and the EPA reached an agreement to amend the Administrative Order on Consent to include additional remedial design activities for sediment investigation costs adjacent to the Gasco uplands. At this time, the estimated costs for the various sediment remedy alternatives in the draft EE/CA for the additional studies and design work needed before the cleanup can occur, and for regulatory oversight throughout the cleanup range from \$57.7 million to \$350 million. NW Natural has recorded a liability of \$57.7 million for the sediment clean-up, which reflects the low end of the range. At this time, we believe sediments at this site represent the largest portion of NW Natural's liability related to the Portland Harbor site discussed above.

Other Portland Harbor. While we believe liabilities associated with the Gasco/Siltronic sediments site represent NW Natural's largest exposure, there are other potential exposures associated with the Portland Harbor ROD, including NRD costs and harborwide remedial design and cleanup costs (including downstream petroleum contamination), for which allocations among the PRPs have not yet been determined.

NW Natural and other parties have signed a cooperative agreement with the Portland Harbor Natural Resource Trustee council to participate in a phased NRD assessment to estimate liabilities to support an early restoration-based settlement of NRD claims. One member of this Trustee council, the Yakama Nation, withdrew from the council in 2009, and in 2017, filed suit against NW Natural and 29 other parties seeking remedial costs and NRD assessment costs associated with the Portland Harbor site, set forth in the complaint. The complaint seeks recovery of alleged costs totaling \$0.3 million in connection with the selection of a remedial action for the Portland Harbor site as well as declaratory judgment for unspecified future remedial action costs and for costs to assess the injury, loss or destruction of natural resources resulting from the release of hazardous substances at and from the Portland Harbor site. The Yakama Nation has filed two amended complaints addressing certain pleading defects and dismissing the State of Oregon. On the motion of NW Natural and certain other defendants the federal court has stayed the case pending the outcome of the non-binding allocation proceeding discussed above. NW Natural has recorded a liability for NRD claims which is at the low end of the range of the potential liability; the high end of the range cannot be reasonably estimated at this time. The NRD liability is not included in the aforementioned range of costs provided in the Portland Harbor ROD.

Gasco Uplands Site

A predecessor of NW Natural, Portland Gas and Coke Company, owned a former gas manufacturing plant that was closed in 1958 (Gasco site) and is adjacent to the Portland Harbor site described above. The Gasco site has been under investigation by NW Natural for environmental contamination under the ODEQ Voluntary Cleanup Program (VCP). It is not included in the range of remedial costs for the Portland Harbor site noted above. The Gasco site is managed in two parts, the uplands portion and the groundwater source control action.

NW Natural submitted a revised Remedial Investigation Report for the uplands to ODEQ in May 2007. In March 2015, ODEQ approved Remedial Assessment (RA) for this site, enabling commencement of work on the FS in 2016. NW Natural has recognized a liability for the remediation of the uplands portion of the site which is at the low end of the range of potential liability; the high end of the range cannot be reasonably estimated at this time.

In October 2016, ODEQ and NW Natural agreed to amend their VCP agreement to incorporate a portion of the Siltronic property adjacent to the Gasco site formerly owned by Portland Gas & Coke between 1939 and 1960 into the Gasco RA and FS, excluding the uplands for Siltronic. Previously, NW Natural was conducting an investigation of manufactured gas plant constituents on the entire Siltronic uplands for ODEQ. Siltronic will be working with ODEQ directly on environmental impacts to the remainder of its property.

In September 2013, NW Natural completed construction of a groundwater source control system, including a water treatment station, at the Gasco site. NW Natural has estimated the cost associated with the ongoing operation of the system and has recognized a liability which is at the low end of the range of potential cost. NW Natural cannot estimate the high end of the range at this time due to the uncertainty associated with the duration of running the water treatment station, which is highly dependent on the remedy determined for both the upland portion as well as the final remedy for Gasco sediment exposure.

Other Sites

In addition to those sites above, NW Natural has environmental exposures at three other sites: Central Service Center, Front Street and Oregon Steel Mills. NW Natural may have exposure at other sites that have not been identified at this time. Due to the uncertainty of the design of remediation, regulation, timing of the remediation and in the case of the Oregon Steel Mills site, pending litigation, liabilities for each of these sites have been recognized at their respective low end of the range of potential liability; the high end of the range could not be reasonably estimated at this time.

Central Service Center site. The investigative phase to characterize the existing site has been completed and determined by the Oregon Department of Environmental Quality (DEQ) to be sufficient to allow for the issuance of a Conditional No Further Action (cNFA). The Company is now conducting ongoing environmental monitoring activities over the next 5 years in order to meet the conditions which were included within the cNFA.

Front Street site. The Front Street site was the former location of a gas manufacturing plant NW Natural operated (the former Portland Gas Manufacturing site, or PGM). At ODEQ's request, NW Natural conducted a sediment and source control investigation and provided findings to ODEQ. In December 2015, an FS on the former Portland Gas Manufacturing site was completed.

In July 2017, ODEQ issued the PGM ROD. The ROD specifies the selected remedy, which requires a combination of dredging, capping, treatment, and natural recovery. In addition, the selected remedy also requires institutional controls and long-term inspection and maintenance. NW Natural revised the liability in the second quarter of 2017 to incorporate the estimated undiscounted cost of approximately \$10.5 million for the selected remedy. Further, NW Natural has recognized an additional

liability of \$0.3 million for additional studies and design costs as well as regulatory oversight throughout the cleanup. NW Natural plans to construct the remedy in 2020.

Oregon Steel Mills site. Refer to the "Legal Proceedings," below.

Environmental Cost Deferral and Recovery

NW Natural has authorizations in Oregon and Washington to defer costs related to remediation of properties that are owned or were previously owned by NW Natural. In Oregon, a Site Remediation and Recovery Mechanism (SRRM) is currently in place to recover prudently incurred costs allocable to Oregon customers, subject to an earnings test. On October 21, 2019 the WUTC authorized an Environmental Cost Recovery Mechanism (ECRM) for recovery of prudently incurred costs allocable to Washington customers beginning November 1, 2019.

The following table presents information regarding the total regulatory assets deferred as of December 31:

In thousands	2019	2018
Deferred costs and interest ⁽¹⁾	\$ 36,673	\$ 41,883
Accrued site liabilities ⁽²⁾	135,662	128,369
Insurance proceeds and interest	(79,949)	(88,502)
Total regulatory asset deferral ⁽¹⁾	\$ 92,386	\$ 81,750
Current regulatory assets ⁽³⁾	4,762	5,601
Long-term regulatory assets ⁽³⁾	87,624	76,149

(1) Includes pre-review and post-review deferred costs, amounts currently in amortization, and interest, net of amounts collected from customers. In Oregon, NW Natural earns a carrying charge on cash amounts paid, whereas amounts accrued but not yet paid do not earn a carrying charge until expended. NW Natural also accrues a carrying charge on insurance proceeds for amounts owed to customers. In Washington, neither the cash paid nor insurance proceeds accrue a carrying charge.

(2) Excludes 3.32% of the Front Street site liability, or \$0.4 million in 2019 and \$0.4 million in 2018, as the OPUC only allows recovery of 96.68% of costs for those sites allocable to Oregon, including those that historically served only Oregon customers.

(3) Amounts included in this estimate are still subject to a prudence review by the OPUC and WUTC, and earnings test review by the OPUC. Amounts do not include the \$5.0 million tariff rider. See "Oregon SRRM" below.

Oregon SRRM

COLLECTIONS FROM OREGON CUSTOMERS. Under the SRRM collection process there are three types of deferred environmental remediation expense:

- Pre-review This class of costs represents remediation spend that has not yet been deemed prudent by the OPUC. Carrying costs on these remediation expenses are recorded at NW Natural's authorized cost of capital. NW Natural anticipates the prudence review for annual costs and approval of the earnings test prescribed by the OPUC to occur by the third quarter of the following year.
- Post-review This class of costs represents remediation spend that has been deemed prudent and allowed after applying the earnings test, but is not yet included in amortization. NW Natural earns a carrying cost on these amounts at a rate equal to the five-year treasury rate plus 100 basis points.
- Amortization This class of costs represents amounts included in current customer rates for collection and is generally
 calculated as one-fifth of the post-review deferred balance. NW Natural earns a carrying cost equal to the amortization rate
 determined annually by the OPUC, which approximates a short-term borrowing rate.

In addition to the collection amount noted above, an order issued by the OPUC provides for the annual collection of \$5.0 million from Oregon customers through a tariff rider. As NW Natural collects amounts from customers, it recognizes these collections as revenue and separately amortizes an equal and offsetting amount of its deferred regulatory asset balance through the environmental remediation operating expense line shown separately in the operating expense section of the income statement.

NW Natural received total environmental insurance proceeds of approximately \$150 million as a result of settlements from litigation that was dismissed in July 2014. Under a 2015 OPUC order which established the SRRM, one-third of the Oregon allocated proceeds were applied to costs deferred through 2012 with the remaining two-thirds applied to costs at a rate of \$5.0 million per year plus interest over the following 20 years. NW Natural accrues interest on the Oregon allocated insurance proceeds in the customer's favor at a rate equal to the five-year treasury rate plus 100 basis points. As of December 31, 2019, NW Natural has applied \$78.2 million of insurance proceeds to prudently incurred remediation costs allocated to Oregon.

OREGON ENVIRONMENTAL EARNINGS TEST. To the extent NW Natural earns at or below its authorized Return on Equity (ROE), remediation expenses and interest in excess of the \$5.0 million tariff rider and \$5.0 million insurance proceeds are recoverable through the SRRM. To the extent NW Natural earns more than its authorized ROE in a year, it is required to cover environmental expenses and interest on expenses greater than the \$10.0 million with those earnings that exceed its authorized ROE.

Washington ECRM

WASHINGTON DEFERRAL. On October 21, 2019 the WUTC issued an order (WUTC Order) establishing the ECRM which allows for recovery of past deferred and future prudently incurred environmental remediation costs allocable to Washington customers through application of insurance proceeds and collections from customers. Environmental remediation expenses relating to sites that previously served both Oregon and Washington customers are allocated between states with Washington customers receiving 3.32% percent of the costs and insurance proceeds.

As a result of the WUTC Order, in the fourth quarter of 2019 approximately \$3.0 million of prudently incurred costs deferred from the initial deferral authorization in February 2011 through November 2018 were fully offset with insurance proceeds. In addition, approximately \$1.5 million of disallowed deferred environmental remediation expenses incurred prior to the deferral authorization were charged to environmental remediation expense.

Insurance proceeds will be fully applied to costs incurred between December 2018 and June 2019 once deemed prudent in future rate proceedings. Remaining insurance proceeds will be amortized over a 10.5 year period ending December 31, 2029. On an annual basis, NW Natural will file for a prudence determination and a request to amortize costs to the extent that remediation expenses exceed the insurance amortization. After insurance proceeds are fully amortized, if in a particular year the request to collect deferred amounts exceeds one percent of Washington normalized revenues, then the excess will be collected over three years with interest.

Legal Proceedings

NW Holdings is not currently party to any direct claims or litigation, though in the future it may be subject to claims and litigation arising in the ordinary course of business.

NW Natural is subject to claims and litigation arising in the ordinary course of business. Although the final outcome of any of these legal proceedings cannot be predicted with certainty, including the matter described below, NW Natural and NW Holdings do not expect that the ultimate disposition of any of these matters will have a material effect on financial condition, results of operations, or cash flows.

OREGON STEEL MILLS SITE. In 2004, NW Natural was served with a third-party complaint by the Port of Portland (the Port) in a Multnomah County Circuit Court case, Oregon Steel Mills, Inc. v. The Port of Portland. The Port alleges that in the 1940s and 1950s petroleum wastes generated by NW Natural's predecessor, Portland Gas & Coke Company, and 10 other third-party defendants, were disposed of in a waste oil disposal facility operated by the United States or Shaver Transportation Company on property then owned by the Port and now owned by Evraz Oregon Steel Mills. The complaint seeks contribution for unspecified past remedial action costs incurred by the Port regarding the former waste oil disposal facility as well as a declaratory judgment allocating liability for future remedial action costs. No date has been set for trial. In August 2017, the case was stayed pending the outcome of the Portland Harbor allocation process or other mediation. Although the final outcome of this proceeding cannot be predicted with certainty, NW Natural and NW Holdings do not expect the ultimate disposition of this matter will have a material effect on NW Natural's or NW Holdings' financial condition, results of operations, or cash flows.

For additional information regarding other commitments and contingencies, see Note 17.

19. DISCONTINUED OPERATIONS

NW Holdings

On June 20, 2018, NWN Gas Storage, then a wholly-owned subsidiary of NW Natural, entered into a Purchase and Sale Agreement (the Agreement) that provides for the sale by NWN Gas Storage of all of the membership interests in Gill Ranch. Gill Ranch owns a 75% interest in the natural gas storage facility located near Fresno, California known as the Gill Ranch Gas Storage Facility. Pacific Gas and Electric Company (PG&E) owns the remaining 25% interest in the Gill Ranch Gas Storage Facility. The CPUC regulates Gill Ranch under a market-based rate model which allows for the price of storage services to be set by the marketplace. The CPUC also regulates the issuance of securities, system of accounts, and regulates intrastate storage services. The sale of Gill Ranch was approved by the CPUC in December 2019.

The Agreement provides for an initial cash purchase price of \$25.0 million (subject to a working capital adjustment), plus potential additional payments to NWN Gas Storage of up to \$26.5 million in the aggregate if Gill Ranch achieves certain economic performance levels for the first three full gas storage years (April 1 of one year through March 31 of the following year) occurring after the closing and the remaining portion of the gas storage year during which the closing occurs.

As a result of the strategic shift away from the California gas storage market and the significance of Gill Ranch's financial results in 2017, we concluded that the pending sale of Gill Ranch qualified it as assets and liabilities held for sale and discontinued operations. As such, the assets and liabilities associated with Gill Ranch have been classified as discontinued operations assets and discontinued operations liabilities, respectively, and, the results of Gill Ranch are presented, net of tax, as discontinued operations separately from the results of continuing operations for all periods presented. The expenses included in the results of discontinued operations are the direct operating expenses incurred by Gill Ranch that may be reasonably segregated from the costs of NW Holdings' continuing operations. The following table presents the carrying amounts of the major components of Gill Ranch that are classified as discontinued operations assets and liabilities on the consolidated balance sheets:

	NW H	oldings Disco	ntinued Operations		
In thousands		2019			
Assets:					
Accounts receivable	\$	333	\$	390	
Inventories		695		685	
Other current assets		457		333	
Property, plant, and equipment		13,291		11,621	
Less: Accumulated depreciation		7		7	
Operating lease right of use asset		118		_	
Other non-current assets		247		247	
Total discontinued operations assets - current assets ⁽¹⁾	\$	15,134	\$	13,269	
Liabilities:					
Accounts payable	\$	1,250	\$	873	
Other current liabilities		848		307	
Operating lease liabilities		116			
Other non-current liabilities		11,495		11,779	
Total discontinued operations liabilities - current liabilities ⁽¹⁾	\$	13,709	\$	12,959	
(1) The total execute and lightlifting of Cill Department and shares the summary of Department of the second statement of the					

⁽¹⁾ The total assets and liabilities of Gill Ranch are classified as current as of December 31, 2018 because it was probable that the sale would be completed within one year.

The following table presents the operating results of Gill Ranch, which was historically reported within the gas storage segment, and is presented net of tax on NW Holdings' consolidated statements of comprehensive income:

	NW Holdings Discontinued Operations								
In thousands, except per share data		2019	2018		2017				
Revenues	\$	5,301	\$ 3,57	9 \$	7,135				
Expenses									
Operations and maintenance		8,587	5,77	1	7,245				
General taxes		219	47	9	1,373				
Depreciation and amortization		423	43	0	4,525				
Other expenses and interest		931	60	9	975				
Impairment expense		_	-	_	192,478				
Total expenses		10,160	7,28	9	206,596				
Loss from discontinued operations before income tax		(4,859)	(3,71	0)	(199,461)				
Income tax benefit ⁽¹⁾		(1,283)	(96	8)	(71,765)				
Loss from discontinued operations, net of tax	\$	(3,576)	\$ (2,74	2) \$	(127,696)				
Loss from discontinued operations per share of common stock:									
Basic	\$	(0.12)	\$ (0.1	0) \$	(4.45)				
Diluted		(0.12)	(0.0	9)	(4.44)				

⁽¹⁾ 2017 income tax benefit includes approximately \$18 million of tax benefit from the enactment of the TCJA. The TCJA was enacted December 22, 2017 and resulted in the federal tax rate changing from 35% to 21%.

NW Natural

As part of the holding company reorganization in October 2018, NWN Energy, NWN Gas Storage, Gill Ranch, NNG Financial, NWN Water, and NW Holdings, which were direct and indirect subsidiaries of NW Natural prior to the reorganization, are no longer subsidiaries of NW Natural. See Note 1 for additional information. As a result, NW Natural's financial statements reflect amounts related to these entities as discontinued operations for all periods presented. The expenses included in the results of discontinued operations are the direct operating expenses incurred by the entities that may be reasonably segregated from the costs of NW Natural's continuing operations.

The following table presents the operating results prior to the holding company reorganization effective October 1, 2018 of NWN Energy, NWN Gas Storage, Gill Ranch, NNG Financial, NWN Water, and NW Holdings, which were historically reported within the gas storage segment and other, and is presented net of tax on NW Natural's consolidated statements of comprehensive income:

	NW N	tinued Operations		
In thousands, except per share data		2018	2017	
Revenues	\$	3,016	\$	7,360
Expenses				
Operations and maintenance		4,151		7,423
General taxes		448		1,410
Depreciation and amortization		420		4,555
Other expenses and interest		342		650
Impairment expense		_		192,478
Total expenses		5,361		206,516
Loss from discontinued operations before income tax		(2,345)		(199,156)
Income tax benefit ⁽¹⁾		(622)		(71,813)
Loss from discontinued operations, net of tax	\$	(1,723)	\$	(127,343)

⁽¹⁾ 2017 income tax benefit includes approximately \$18 million of tax benefit from the enactment of the TCJA. The TCJA was enacted December 22, 2017 and resulted in the federal tax rate changing from 35% to 21%.

20. Subsequent Events

Suncadia Acquisition Completed

On January 31, 2020, NWN Water of Washington, a wholly-owned indirect subsidiary of NW Holdings, completed the acquisition of Suncadia Water, a privately-owned water utility, and Suncadia Environmental, a wastewater company (collectively referred to as Suncadia). The acquisition was made for preliminary cash consideration of \$18.9 million, subject to closing adjustments. Suncadia is based in Cle Elum, Washington and serves approximately 2,800 connections. A \$1.0 million letter of credit outstanding at NW Holdings as of December 31, 2019 for purposes of facilitating the acquisition was extinguished upon the close of the transaction.

The preliminary allocation of consideration to the acquired assets and assumed liabilities based on their fair value is not yet complete as valuation procedures are pending. We expect the purchase price to be primarily allocated to property, plant and equipment and goodwill. Acquisition costs were insignificant and were expensed as incurred.

See Note 2 and Note 15 for more information regarding business combinations.

NORTHWEST NATURAL HOLDING COMPANY

QUARTERLY FINANCIAL INFORMATION (UNAUDITED)

	NW Holdings										
				Quarter I							
In thousands, except per share data	N	/larch 31		June 30	Sep	otember 30	De	cember 31			
2019											
Operating revenues	\$	285,348	\$	123,433	\$	90,317	\$	247,274			
Net income (loss) from continuing operations		43,418		2,051		(18,506)		38,348			
Loss from discontinued operations, net of tax		(217)		(956)		(795)		(1,608)			
Net income (loss)	\$	43,201	\$	1,095	\$	(19,301)	\$	36,740			
Average common shares outstanding:											
Basic		28,906		29,337		30,429		30,448			
Diluted		28,970		29,394		30,429		30,521			
Earnings (loss) from continuing operations per share of common stock:											
Basic	\$	1.50	\$	0.07	\$	(0.61)	\$	1.26			
Diluted		1.50		0.07		(0.61)		1.26			
Loss from discontinued operations per share of common stock:											
Basic	\$	(0.01)	\$	(0.03)	\$	(0.02)	\$	(0.05)			
Diluted		(0.01)		(0.03)		(0.02)		(0.05)			
Earnings (loss) per share of common stock:											
Basic	\$	1.49	\$	0.04	\$	(0.63)	\$	1.21			
Diluted		1.49		0.04		(0.63)		1.20			
2018											
Operating revenues	\$	263,635	\$	124,567	\$	91,239	\$	226,702			
Net income (loss) from continuing operations		42,011		(339)		(11,144)		36,783			
Loss from discontinued operations, net of tax		(474)		(659)		(650)		(959)			
Net income (loss)	\$	41,537	\$	(998)	\$	(11,794)	\$	35,824			
Average common shares outstanding:											
Basic		28,753		28,791		28,815		28,851			
Diluted		28,803		28,791		28,815		28,940			
Earnings (loss) from continuing operations per share of common stock:											
Basic	\$	1.46	\$	(0.01)	\$	(0.39)	\$	1.27			
Diluted		1.46		(0.01)		(0.39)		1.27			
Loss from discontinued operations per share of common stock:											
Basic	\$	(0.02)	\$	(0.02)	\$	(0.02)	\$	(0.03)			
Diluted		(0.02)		(0.02)		(0.02)		(0.03)			
Earnings (loss) per share of common stock:											
Basic	\$	1.44	\$	(0.03)	\$	(0.41)	\$	1.24			
Diluted		1.44		(0.03)		(0.41)		1.24			

⁽¹⁾ Quarterly earnings (loss) per share are based upon the average number of common shares outstanding during each quarter. Variations in earnings between quarterly periods are due primarily to the seasonal nature of our business.

NORTHWEST NATURAL GAS COMPANY

QUARTERLY FINANCIAL INFORMATION (UNAUDITED)

		NW Natural									
In thousands 2019		Quarter ended									
	Ν	larch 31	arch 31 June		September 30		De	cember 31			
Operating revenues	\$	284,846	\$	122,242	\$	87,592	\$	245,264			
Net income (loss)		43,895		3,054		(17,588)		39,613			
2018											
Operating revenues	\$	263,635	\$	124,563	\$	91,227	\$	226,146			
Net income (loss) from continuing operations		42,014		(271)		(11,275)		37,581			
Loss from discontinued operations, net of tax		(477)		(727)		(519)		_			
Net income (loss)	\$	41,537	\$	(998)	\$	(11,794)	\$	37,581			

SCHEDULE I - CONDENSED FINANCIAL INFORMATION OF NORTHWEST NATURAL HOLDING COMPANY

NORTHWEST NATURAL HOLDING COMPANY

CONDENSED STATEMENTS OF COMPREHENSIVE INCOME (PARENT COMPANY ONLY)

In thousands	Dec	ar ended ember 31, 2019	Dece	on through mber 31, 2018
Operating expenses:				
Operations and maintenance	\$	2,747	\$	838
Total operating expenses		2,747		838
Loss from operations		(2,747)		(838)
Earnings from investment in subsidiaries, net of tax		64,328		36,469
Other income (expense), net		(22)		36
Interest expense, net		726		53
Income before income taxes		60,833		35,614
Income tax expense (benefit)		(902)		(225)
Net income	\$	61,735	\$	35,839

See Notes to Condensed Financial Statements

NORTHWEST NATURAL HOLDING COMPANY

CONDENSED BALANCE SHEETS

(PARENT COMPANY ONLY)

	As of December 31,						
In thousands	2019	2018					
Assets:							
Current assets:							
Cash and cash equivalents	\$ 119	\$ 4,011					
Receivables from affiliates	1,950	2,796					
Income taxes receivable	256	6,000					
Other current assets	4,600	3,078					
Total current assets	6,925	15,885					
Non-current assets:							
Investments in subsidiaries	888,477	754,971					
Other investments	24	65					
Deferred tax assets	191	_					
Other non-current assets	245	310					
Total non-current assets	888,937	755,346					
Total assets	\$ 895,862	\$ 771,231					
Liabilities and equity:							
Current liabilities:							
Short-term debt	\$ 24,000	\$ —					
Accounts payable	612	168					
Payables to affiliates	3,697	9,166					
Taxes accrued	127	_					
Interest accrued	_	32					
Other current liabilities	37	_					
Total current liabilities	28,473	9,366					
Long-term debt		(1)					
Deferred credits and other non-current liabilities:							
Deferred tax liabilities	_	7					
Total deferred credits and other non-current liabilities		7					
Equity:							
Common stock	840,364	739,722					
Retained earnings	27,025	22,137					
Total equity	867,389	761,859					
Total liabilities and equity	\$ 895,862	\$ 771,231					

See Notes to Condensed Financial Statements

NORTHWEST NATURAL HOLDING COMPANY

CONDENSED STATEMENTS OF CASH FLOWS

(PARENT COMPANY ONLY)

In thousands	Year ended December 31, 2019	Inception through December 31, 2018
Operating activities:		
Net income	\$ 61,735	\$ 35,839
Adjustments to reconcile net income to cash used in operations:		
Equity in earnings of subsidiaries, net of tax	(64,328)	(36,469)
Deferred income taxes	(198)	7
Other	66	15
Changes in assets and liabilities:		
Receivables, net	846	(585)
Income and other taxes	4,325	(9,034)
Accounts payable	(5,177)	9,304
Interest accrued	(32)	32
Other, net	(346)	(44)
Cash used in operating activities	(3,109)	(935)
Investing activities:		
Contributions to subsidiaries	(157,591)	(1,804)
Cash used in investing activities	(157,591)	(1,804)
Financing activities:		
Proceeds from stock options exercised	2,015	—
Proceeds from common stock issued	92,956	—
Change in short-term debt	24,000	—
Cash dividend payments received from subsidiaries	88,439	—
Cash dividend payments on common stock	(53,339)	(12,923)
Capital contributions	—	20,000
Other	2,737	(327)
Cash provided by financing activities	156,808	6,750
Increase (decrease) in cash and cash equivalents	(3,892)	4,011
Cash and cash equivalents, beginning of period	4,011	
Cash and cash equivalents, end of period	\$ 119	\$ 4,011

See Notes to Condensed Financial Statements

NOTES TO CONDENSED FINANCIAL STATEMENTS

1. BASIS OF PRESENTATION

NW Holdings is an energy services holding company that conducts substantially all of its business operations through its subsidiaries, particularly NW Natural. These condensed financial statements and related footnotes have been prepared in accordance with Rule 12-04, Schedule I of Regulation S-X. These financial statements, in which NW Holdings' subsidiaries have been included using the equity method, should be read in conjunction with the consolidated financial statements and notes thereto of NW Holdings included in Item 8 of this Form 10-K.

Equity earnings of subsidiaries including earnings from NW Natural were \$64.3 million and \$35.6 million for the years ended December 31, 2019 and 2018.

Cash dividends paid to NW Holdings from wholly-owned subsidiaries were \$88.4 million for the year ended December 31, 2019. No cash dividends were paid from subsidiaries to NW Holdings in 2018.

2. DEBT

For information concerning NW Holdings' debt obligations, see Note 9 to the consolidated financial statements included in Item 8 of this report.

NORTHWEST NATURAL HOLDING COMPANY

SCHEDULE II - VALUATION AND QUALIFYING ACCOUNTS AND RESERVES

COLUMN A	СС	DLUMN B		COLUMN C			C	COLUMN D		OLUMN E
				Addi		D	eductions			
In thousands (year ended December 31)	beg	alance at ginning of period	(Charged to costs and expenses		harged to er accounts	Ne	t write-offs		alance at d of period
2019										
Reserves deducted in balance sheet from assets to which they apply:	¢	077	۴	450	¢		¢	754	¢	070
Allowance for uncollectible accounts	\$	977	\$	450	\$	—	\$	754	\$	673
2018										
Reserves deducted in balance sheet from assets to which they apply:										
Allowance for uncollectible accounts	\$	956	\$	680	\$	—	\$	659	\$	977
2017										
Reserves deducted in balance sheet from assets to which they apply: Allowance for uncollectible accounts	\$	1,290	\$	865	\$	_	\$	1,199	\$	956

NORTHWEST NATURAL GAS COMPANY

SCHEDULE II - VALUATION AND QUALIFYING ACCOUNTS AND RESERVES

COLUMN A	CC	DLUMN B	COLUMN C			COLUMN D		COLUMN E	
			Additions				Deductions		
In thousands (year ended December 31)	be	alance at ginning of period	Charged to costs and expenses		Charged to er accounts	١	Net write-offs	Ba	alance at end of period
2019									
Reserves deducted in balance sheet from assets to which they apply:									
Allowance for uncollectible accounts	\$	975	\$ 450	\$	_	\$	753	\$	672
2018									
Reserves deducted in balance sheet from assets to which they apply:									
Allowance for uncollectible accounts	\$	956	\$ 678	\$	_	\$	659	\$	975
2017									
Reserves deducted in balance sheet from assets to which they apply:									
Allowance for uncollectible accounts	\$	1,290	\$ 865	\$	_	\$	1,199	\$	956

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

(a) Evaluation of Disclosure Controls and Procedures

NW Holdings and NW Natural management, under the supervision and with the participation of the Chief Executive Officer and Chief Financial Officer, completed an evaluation of the effectiveness of the design and operation of disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) of the Securities Exchange Act of 1934, as amended (the Exchange Act)). Based upon this evaluation, the Chief Executive Officer and Chief Financial Officer of each registrant have concluded that, as of the end of the period covered by this report, disclosure controls and procedures were effective to ensure that information required to be disclosed by each such registrant and included in reports filed or submitted under the Exchange Act is recorded, processed, summarized, and reported within the time periods specified in the Securities and Exchange Commission (SEC) rules and forms and that such information is accumulated and communicated to management of each registrant, including the Chief Executive Officer, as appropriate to allow timely decisions regarding required disclosure.

(b) Changes in Internal Control Over Financial Reporting

NW Holdings and NW Natural management are responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in the Exchange Act Rule 13a-15(f). There have been no changes in internal control over financial reporting that occurred during the quarter ended December 31, 2019 that have materially affected, or are reasonably likely to materially affect, internal control over financial reporting for NW Holdings and NW Natural.

The statements contained in Exhibit 31.1, Exhibit 31.2, Exhibit 31.3, and Exhibit 31.4 should be considered in light of, and read together with, the information set forth in this Item 9(a).

ITEM 9B. OTHER INFORMATION

This disclosure is intended to satisfy any obligation of ours to provide disclosures pursuant to Item 5.02 of Form 8-K. As previously disclosed, NW Natural has executed a double-trigger severance agreement with each named executive officer (NEO) for changes of control of either NW Holdings or NW Natural (CIC Agreements). On February 27, 2020, the Boards of Directors of NW Holdings and NW Natural amended these agreements to remove a provision that reduces the level of benefits provided under the CIC Agreements beginning at age 62 and completely eliminates benefits when the NEOs reach age 65. The Form of CIC Agreement approved to be entered into with each NEO is attached hereto as Exhibit 10q.

PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

The "Information Concerning Nominees and Continuing Directors" and "Corporate Governance" contained in NW Holdings' definitive Proxy Statement for the 2020 Annual Meeting of Shareholders is hereby incorporated by reference.

		EXECUTIVE OFFICERS
Name	Age at Dec. 31, 2019	Positions held during last five years ⁽¹⁾
David H. Anderson*	58	Chief Executive Officer and President ⁽²⁾ (2016-); Chief Operating Officer and President (2015-2016); Executive Vice President and Chief Operating Officer (2014-2015); Executive Vice President Operations and Regulation (2013-2014); Senior Vice President and Chief Financial Officer (2004-2013).
Frank H. Burkhartsmeyer*	55	Senior Vice President and Chief Financial Officer ⁽²⁾ (2017-); President and Chief Executive Officer of Renewables, Avangrid Renewables (2015-2017); Senior Vice President of Finance, Iberdrola Renewables Holdings, Inc. (2012-2015).
James R. Downing	50	Vice President and Chief Information Officer (2017-); Chief Information Officer, WorleyParsons (America's Division) (2016-2017); Executive Service Delivery Manager for SAP, British Petroleum (2011-2015).
Shawn M. Filippi*	47	Vice President, Chief Compliance Officer and Corporate Secretary ⁽²⁾ (2016-); Vice President and Corporate Secretary (2015-2016); Senior Legal Counsel (2011-2014); Assistant Corporate Secretary (2010-2014).
Kimberly A. Heiting	50	Senior Vice President, Operations and Chief Marketing Officer (2018-); Senior Vice President, Communications and Chief Marketing Officer (2018); Vice President, Communications and Chief Marketing Officer (2015-2018); Chief Marketing & Communications Officer (2013-2014); Chief Corporate Communications Officer (2011-2013).
Jon G. Huddleston	57	Vice President, Engineering and Utility Operations (2018-); Senior Director, Utility Operations (2014-2018); Director, Utility Operations (2013-2014); Process Director (2007-2013).
Justin Palfreyman	41	Vice President, Strategy and Business Development (2017-); Vice President, Business Development (2016-2017); Director, Power, Energy and Infrastructure Group, Lazard, Freres & Co. (2009-2016).
Melinda B. Rogers	54	Vice President, Chief Human Resources and Diversity Officer (2018-); Senior Director of Human Resources (2018); Senior Manager, Organizational Effectiveness and Talent Acquisition (2015-2017); Senior Associate, Point B (2014-2015); Director, Executive Development Center, Willamette University (2011-2015).
MardiLyn Saathoff*	63	Senior Vice President, Regulation and General Counsel ⁽³⁾ (2016-); Senior Vice President and General Counsel (2014-2016); Vice President, Legal, Risk and Compliance (2013-2014); Deputy General Counsel (2010-2013); Chief Governance Officer and Corporate Secretary (2008-2014).
David A. Weber	60	Vice President, Gas Supply and Utility Support Services (2019-); President and Chief Executive Officer, NW Natural Gas Storage, LLC and Gill Ranch Storage, LLC (2011-).
Kathryn M. Williams	44	Vice President, Public Affairs (2019-); Government and Community Affairs Director (2018-2019); State Affairs Manager, Port of Portland (2015-2018); Business and Rail Relations Manager, Port of Portland (2007-2015).
Brody J. Wilson*	40	Vice President, Chief Accounting Officer, Controller and Treasurer ⁽²⁾ (2017-); Chief Financial Officer (Interim), Treasurer, Chief Accounting Officer and Controller (2016-2017); Chief Accounting Officer, Controller and Assistant Treasurer (2016); Controller (2013-2015); Acting Controller (2013); Accounting Director (2012-2013).

		DIRECTOR	(NORTHWEST NATURAL GAS COMPANY ONLY)**
N	lame	Age at Dec. 31, 2019	Positions held during last five years ⁽¹⁾
Steven E. W	/ynne**	67	Executive Vice President, Moda, Inc., a privately-held healthcare insurance company (2012-); Director, FLIR Systems, Inc. (1999-); Director, JELD-WEN Holding Inc. (2012-); Director, Pendleton Woolen Mills, Inc. (2013-); Director, Lone Rock Resources, Inc. (2016-); Director, Citifyd Inc. (2013-); Trustee, Willamette University (1999-); Trustee, Portland Center Stage (2012-); Executive Vice President, JELD-WEN, Inc. (2011-2012); President and Chief Executive Officer, SBI International, Ltd. (2004-2007); Partner, Ater Wynne LLP (2001-2002; 2003-2004); President and Chief Executive Officer, Adidas (1995-2000)
			Mr. Wynne's senior management experience with a variety of companies, board service on a number of public and private companies and longstanding legal practice in the areas of corporate finance, securities and mergers and acquisitions qualify him to provide insight and guidance in the areas of corporat governance, strategic planning, enterprise risk management, finance and operations.

** Director of Northwest Natural Gas Company only. All other directors of Northwest Natural Gas Company are also directors of Northwest Natural Holding Company, and information regarding all directors concurrently serving on the Board of Directors of Northwest Natural Gas Company and Northwest Natural Holding Company will be incorporated by reference to our definitive Proxy Statement for the 2020 Annual Meeting of Shareholders.

⁽¹⁾ Unless otherwise specified, all positions held at Northwest Natural Gas Company.

⁽²⁾ Position held at Northwest Natural Holding Company (beginning March 2018) and Northwest Natural Gas Company.

(3) Ms. Saathoff is Senior Vice President and General Counsel of Northwest Natural Holding Company (beginning March 2018) and Senior Vice President, Regulation and General Counsel of Northwest Natural Gas Company.

Each executive officer serves successive annual terms; present terms end at the 2020 annual meeting. There are no family relationships among our executive officers, directors or any person chosen to become one of our officers or directors. NW Holdings and NW Natural have adopted a Code of Ethics (Code) applicable to all employees, officers, and directors that is available on our website at <u>www.nwnaturalholdings.com</u>. We intend to disclose on our website at <u>www.nwnaturalholdings.com</u> any amendments to the Code or waivers of the Code for executive officers and directors.

ITEM 11. EXECUTIVE COMPENSATION

The information concerning "Executive Compensation", "Report of the Organization and Executive Compensation Committee", and "Compensation Committee Interlocks and Insider Participation" contained in NW Holdings' definitive Proxy Statement for the 2020 Annual Meeting of Shareholders is hereby incorporated by reference. Information related to Executive Officers as of December 31, 2019 is reflected in Part III, Item 10, above.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

As of February 24, 2020, NW Holdings owned 100% of the outstanding common stock of NW Natural.

The following table sets forth information regarding compensation plans under which equity securities of NW Holdings are authorized for issuance as of December 31, 2019 (see Note 8 to the Consolidated Financial Statements):

	(a)	(b)	(c)
Plan Category	Number of securities to be issued upon exercise of outstanding options, warrants and rights	Weighted-average exercise price of outstanding options, warrants and rights	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a))
Equity compensation plans approved by security holders:			
Long Term Incentive Plan (LTIP) ⁽¹⁾⁽²⁾	176,962	n/a	510,931
Restated Stock Option Plan	10,938	\$ 45.67	_
Employee Stock Purchase Plan	20,992	58.95	185,568
Equity compensation plans not approved by security holders:			
Executive Deferred Compensation Plan (EDCP) ⁽³⁾	1,026	n/a	n/a
Directors Deferred Compensation Plan (DDCP) ⁽³⁾	41,064	n/a	n/a
Deferred Compensation Plan for Directors and Executives (DCP) ⁽⁴⁾	206,505	n/a	n/a
Total	457,487		696,499

(1) Awards may be granted under the LTIP as Performance Share Awards, Restricted Stock Units, or stock options. Shares issued pursuant to Performance Share Awards and Restricted Stock Units under the LTIP do not include an exercise price, but are payable when the award criteria are satisfied. The number of shares shown in column (a) include 79,733 Restricted Stock Units and 97,229 Performance Share Awards, reflecting the number of shares to be issued as performance share awards under outstanding Performance Share Awards if target performance levels are achieved. If the maximum awards were paid pursuant to the Performance Share Awards outstanding at December 31, 2019, the number of shares shown in column (a) would increase by 97,229 shares, reflecting the maximum share award of 200% of target, and the number of shares shown in column (c) would decrease by the same amount of shares. No stock options or other types of award have been issued under the LTIP.

(2) The number of shares shown in column (c) includes shares that are available for future issuance under the LTIP as Restricted Stock Units, Performance Share Awards, or stock options at December 31, 2019.

- (3) Prior to January 1, 2005, deferred amounts were credited, at the participant's election, to either a "cash account" or a "stock account." If deferred amounts were credited to stock accounts, such accounts were credited with a number of shares of NW Natural (now NW Holdings) common stock based on the purchase price of the common stock on the next purchase date under our Dividend Reinvestment and Direct Stock Purchase Plan, and such accounts were credited with additional shares based on the deemed reinvestment of dividends. Cash accounts are credited quarterly with interest at a rate equal to Moody's Average Corporate Bond Yield plus two percentage points, subject to a 6% minimum rate. At the election of the participant, deferred balances in the stock accounts are payable after termination of Board service or employment in a lump sum, in installments over a period not to exceed 10 years in the case of the DDCP, or 15 years in the case of the EDCP, or in a combination of lump sum and installments. Amounts credited to stock accounts are payable solely in shares of common stock and cash for fractional shares, and amounts in the above table represent the aggregate number of shares credited to participant's stock accounts. We have contributed common stock to the trustee of the Umbrella Trusts such that the Umbrella Trusts hold approximately the number of shares of common stock equal to the number of shares credited to all participants' stock accounts.
- (4) Effective January 1, 2005, the EDCP and DDCP were closed to new participants and replaced with the DCP. The DCP continues the basic provisions of the EDCP and DDCP under which deferred amounts are credited to either a "cash account" or a "stock account." Stock accounts represent a right to receive shares of NW Holdings common stock on a deferred basis, and such accounts are credited with additional shares based on the deemed reinvestment of dividends. Effective January 1, 2007, cash accounts are credited quarterly with interest at a rate equal to Moody's Average Corporate Bond Yield. Our obligation to pay deferred compensation in accordance with the terms of the DCP will generally become due on retirement, death, or other termination of service, and will be paid in a lump sum or in installments of five, 10, or 15 years as elected by the participant in accordance with the terms of the DCP. Amounts credited to stock accounts are payable solely in shares of common stock and cash for fractional shares, and amounts in the above table represent the aggregate number of shares credited to participants' stock accounts. We have contributed common stock to the trustee of the Supplemental Trust such that this trust holds approximately the number of common shares equal to the number of shares credited to all participants' stock accounts. The right of each participant in the DCP is that of a general, unsecured creditor of NW Natural.

The information captioned "Beneficial Ownership of Common Stock by Directors and Executive Officers" and "Security Ownership of Common Stock of Certain Beneficial Owners" contained in NW Holdings' definitive Proxy Statement for the 2020 Annual Meeting of Shareholders is incorporated herein by reference.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

The information captioned "Transactions with Related Persons" and "Corporate Governance" in NW Holdings' definitive Proxy Statement for the 2020 Annual Meeting of Shareholders is hereby incorporated by reference.

ITEM 14. PRINCIPAL ACCOUNTANT FEES AND SERVICES

NW Holdings

The information captioned "2019 and 2018 Audit Firm Fees" in NW Holdings' definitive Proxy Statement for the 2020 Annual Meeting of Shareholders is hereby incorporated by reference.

NW Natural

The following table shows the fees and expenses of NW Natural, paid or accrued for the integrated audits of the consolidated financial statements and other services provided by NW Natural's independent registered public accounting firm, PricewaterhouseCoopers LLP, for fiscal years 2019 and 2018:

In thousands	2019		2018	
Audit Fees	\$	1,222	\$	1,379
Audit-Related Fees		31		30
Tax Fees		22		34
All Other Fees		3		4
Total	\$	1,278	\$	1,447

AUDIT FEES. This category includes fees and expenses for services rendered for the integrated audit of the consolidated financial statements included in the Annual Report on Form 10-K and the review of the quarterly financial statements included in the Quarterly Reports on Form 10-Q. The integrated audit includes the review of our internal control over financial reporting in compliance with Section 404 of the Sarbanes-Oxley Act of 2002 (Sarbanes-Oxley Act). In addition, amounts include fees for services routinely provided by the auditor in connection with regulatory filings, including issuance of consents and comfort letters relating to the registration of Company securities and assistance with the review of documents filed with the SEC.

AUDIT-RELATED FEES. This category includes fees for assurance and related services that are reasonably related to the performance of the audit or review of our financial statements and internal control over financial reporting, including fees and expenses related to consultations for financial accounting and reporting, in addition to fees for EPA assurance letters.

TAX FEES. This category includes fees for tax compliance, and review services rendered for NW Natural's income tax returns.

ALL OTHER FEES. This category relates to services other than those described above. The amount reflects payments for accounting research tools in each of 2019 and 2018, and educational seminars in 2018.

PRE-APPROVAL POLICY FOR AUDIT AND NON-AUDIT SERVICES. The Audit Committee of NW Natural approved or ratified 100 percent of 2019 and 2018 services for audit, audit-related, tax services and all other fees, including audit services relating to compliance with Section 404 of the Sarbanes-Oxley Act. The chair of the Audit Committee of NW Natural is authorized to pre-approve non-audit services between meetings of the Audit Committee and must report such approvals at the next Audit Committee meeting.

PART IV

ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

- (a) The following documents are filed as part of this report:
 - 1. A list of all Financial Statements and Supplemental Schedules is incorporated by reference to Item 8.
 - 2. List of Exhibits filed:

Reference is made to the Exhibit Index commencing on page 145.

ITEM 16. FORM 10-K SUMMARY

None.

NORTHWEST NATURAL HOLDING COMPANY NORTHWEST NATURAL GAS COMPANY

> Exhibit Index to Annual Report on Form 10-K For the Fiscal Year Ended December 31, 2019

Exhibit Number

Document

- *3a. Amended and Restated Articles of Incorporation of Northwest Natural Holding Company (incorporated by reference to Exhibit 3.1 to the Form 8-K dated October 1, 2018, File No. 1-38681).
- *3b. Amended and Restated Articles of Incorporation of Northwest Natural Gas Company (incorporated by reference to Exhibit 3.3 to the Form 8-K dated October 1, 2018, File No. 1-15973).
- *3c. Amended and Restated Bylaws of Northwest Natural Holding Company (incorporated by reference to Exhibit 3.1 to the Form 8-K dated May 30, 2019, File No. 1-38681).
- *3d. Amended and Restated Bylaws of Northwest Natural Gas Company (incorporated by reference to Exhibit 3.2 to the Form 8-K filed May 30, 2019, File No. 1-15973).
- *4a. Copy of Mortgage and Deed of Trust of Northwest Natural Gas Company, dated as of July 1, 1946 (Mortgage and Deed of Trust), to Bankers Trust (to whom Deutsche Bank Trust Company Americas is the successor), Trustee (incorporated by reference to Exhibit 7(j) in File No. 2-6494); and copies of Supplemental Indentures Nos. 1 through 14 to the Mortgage and Deed of Trust, dated respectively, as of June 1, 1949, March 1, 1954, April 1, 1956, February 1, 1959, July 1, 1961, January 1, 1964, March 1, 1966, December 1, 1969, April 1, 1971, January 1, 1975, December 1, 1975, July 1, 1981, June 1, 1985 and November 1, 1985 (incorporated by reference to Exhibit 4(d) in File No. 33-1929); Supplemental Indenture No. 15 to the Mortgage and Deed of Trust, dated as of July 1, 1986 (filed as Exhibit 4(c) in File No. 33-24168); Supplemental Indentures Nos. 16, 17 and 18 to the Mortgage and Deed of Trust, dated, respectively, as of November 1, 1988, October 1, 1989 and July 1, 1990 (incorporated by reference to Exhibit 4(c) in File No. 33-64014).
- *4b. Supplemental Indenture No. 20 to the Mortgage and Deed of Trust, dated as of June 1, 1993 (incorporated by reference to Exhibit 4a.(1) to Form 10-K for year ended December 31, 1993, File No. 0-00994).
- *4c. Supplemental Indenture No. 21 to the Mortgage and Deed of Trust, dated as of October 15, 2012 (incorporated by reference to Exhibit 4.1 to Form 8-K dated October 26, 2012, File No. 1-15973).
- *4d. Supplemental Indenture No. 22 to the Mortgage and Deed of Trust, dated as of November 1, 2016 (incorporated by reference to Exhibit 4.1 to Form 10-Q for the quarter ended September 30, 2016, File No. 1-15973).
- *4e. Supplemental Indenture No. 23 to the Mortgage and Deed of Trust, dated as of September 1, 2018 (incorporated by reference to Exhibit 4(a) to Form 8-K dated September 10, 2018, File No. 1-15973).
- *4f. Copy of Indenture, dated as of June 1, 1991, between Northwest Natural Gas Company and Bankers Trust Company (to whom Deutsch Bank Trust Company Americas is successor), Trustee, relating to Northwest Natural Gas Company's Unsecured Debt Securities (incorporated by reference to Exhibit 4(e) in File No. 33-64014).
- *4g. Credit Agreement, dated as of October 2, 2018, among Northwest Natural Holding Company and the lenders party thereto, with JPMorgan Chase Bank, N.A. as administrative agent and Bank of America, N.A., U.S. Bank National Association, and Wells Fargo Bank, National Association, as co-syndication agents (incorporated by reference to Exhibit 4.1 to Form 8-K dated October 3, 2018, File No. 1-38681).
- *4h. Credit Agreement, dated as of October 2, 2018, among Northwest Natural Gas Company and the lenders party thereto, with JPMorgan Chase Bank, N.A. as administrative agent and Bank of America, N.A., U.S. Bank National Association, and Wells Fargo Bank, National Association, as co-syndication agents (incorporated by reference to Exhibit 4.1 to Form 8-K dated October 3, 2018, File No. 1-15973).
- *4i. Credit Agreement, dated as of June 27, 2019, among NW Natural Water Company, LLC, Northwest Natural Holding Company, the lenders party thereto, and Bank of Montreal, as administrative agent (incorporated by reference to Exhibit 4.1 to the Form 10-Q for the guarter ended June 30, 2019, File No. 1-38681).

- 4j. Description of securities registered under Section 12 of the Exchange Act of 1934.
- *10 Purchase and Sale Agreement dated June 20, 2018, between NW Natural Gas Storage LLC and SENSA Holdings LLC (incorporated by reference to Exhibit 10 to Form 10-Q for the quarter ended June 30, 2018, File No. 1-15973).
- *10.1 Letter agreement, dated December 10, 2019, between NW Natural Gas Storage, LLC and SENSA Holdings LLC, amending the Purchase and Sale Agreement, dated June 20, 2018 (incorporated by reference to Exhibit 10.1 to the Form 8-K dated December 13, 2019, File No. 1-38681).
- *10.2 Letter agreement, dated February 26, 2020, between NW Natural Gas Storage LLC and SENSA Holdings LLC, amending the Purchase and Sale Agreement, dated June 28, 2018, as amended (incorporated by reference to Exhibit 10.1 to the Form 8-K dated March 2, 2020, File No. 1-38681).
- 21. Subsidiaries of Northwest Natural Holding Company.
- 23a. Consent of PricewaterhouseCoopers LLP NW Holdings.
- 23b. Consent of PricewaterhouseCoopers LLP NW Natural.
- 31.1 Certification of Principal Executive Officer of Northwest Natural Gas Company Pursuant to Rule 13a-14(a)/15d-14(a), Section 302 of the Sarbanes-Oxley Act of 2002.
- 31.2 Certification of Principal Financial Officer of Northwest Natural Gas Company Pursuant to Rule 13a-14(a)/15d-14(a), Section 302 of the Sarbanes-Oxley Act of 2002.
- 31.3 Certification of Principal Executive Officer of Northwest Natural Holding Company Pursuant to Rule 13a-14(a)/ 15d-14(a), Section 302 of the Sarbanes-Oxley Act of 2002.
- 31.4 Certification of Principal Financial Officer of Northwest Natural Holding Company Pursuant to Rule 13a-14(a)/ 15d-14(a), Section 302 of the Sarbanes-Oxley Act of 2002.
- **32.1 Certification of Principal Executive Officer and Principal Financial Officer of Northwest Natural Gas Company Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
- **32.2 Certification of Principal Executive Officer and Principal Financial Officer of Northwest Natural Holding Company Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
- 101. The following materials formatted in Inline Extensible Business Reporting Language (Inline XBRL):
 - (i) Consolidated Statements of Income;
 - (ií) Consolidated Balance Sheets; (iii) Consolidated Statements of Cash Flows; and
 - (iv) Related notes.
- 104. The cover page from the Company's Annual Report on Form 10-K for the year ended December 31, 2019, formatted in Inline XBRL and contained in Exhibit 101.

Executive Compensation Plans and Arrangements:

- *10a. Executive Supplemental Retirement Income Plan, 2018 Restatement (incorporated herein by reference to Exhibit 10.6 to the Form 8-K dated October 1, 2018, File No. 1-38681).
- *10b. Supplemental Executive Retirement Plan of Northwest Natural Gas Company, 2018 Restatement, as amended July 25, 2019 (incorporated by reference to Exhibit 10.1 to the Form 10-Q for the quarter ended June 30, 2019, File No. 1-15973).
- *10c. Northwest Natural Gas Company Supplemental Trust, effective January 1, 2005, restated as of October 1, 2018 (incorporated by reference to Exhibit 10.9 to the Form 8-K dated October 1, 2018, File No. 1-38681).

- *10d. Northwest Natural Gas Company Umbrella Trust for Directors, effective January 1, 1991, restated as of October 1, 2018 (incorporated by reference to Exhibit 10.11 to the Form 8-K dated October 1, 2018, File No. 1-38681).
- *10e. Northwest Natural Gas Company Umbrella Trust for Executives, effective January 1, 1988, restated as of October 1, 2018 (incorporated by reference to Exhibit 10.10 to the Form 8-K dated October 1, 2018, File No. 1-38681).
- *10f. Restated Stock Option Plan, as amended effective December 14, 2006 (incorporated by reference to Exhibit 10c. to Form 10-K for 2006, File No. 1-15973).
- *10g. Form of Restated Stock Option Plan Agreement (incorporated by reference to Exhibit 10h. to Form 10-K for 2009, File No. 1-15973).
- *10h. Executive Deferred Compensation Plan, effective as of January 1, 1987, restated as of October 1, 2018 (incorporated by reference to Exhibit 10.4 to the Form 8-K dated October 1, 2018, File No. 1-38681).
- *10i. Directors Deferred Compensation Plan, effective June 1, 1981, restated as of October 1, 2018 (incorporated by reference to Exhibit 10.5 to the Form 8-K dated October 1, 2018, File No. 1-38681).
- *10j. Deferred Compensation Plan for Directors and Executives, effective January 1, 2005, restated as of October 1, 2018 (incorporated by reference to Exhibit 10.3 to the Form 8-K dated October 1, 2018, File No. 1-38681).
- *10k. Form of Indemnity Agreement as entered into between Northwest Natural Gas Company and each director and certain executive officers (incorporated by reference to Exhibit 10I. to Form 10-K for 2018, File No. 1-38681).
- *10I. Form of Indemnity Agreement as entered into between Northwest Natural Holding Company and each director and certain executive officers (incorporated by reference to Exhibit 10m. to Form 10-K for 2018, File No. 1-38681).
- *10m. Non-Employee Directors Stock Compensation Plan, as amended effective December 15, 2005 (incorporated by reference to Exhibit 10.2 to Form 8-K dated December 16, 2005, File No. 1-15973).
- *10n. Executive Annual Incentive Plan, effective January 1, 2019 (incorporated by reference to Exhibit 10q. to Form 10-K for 2018, File No. 1-15973).
- 100. Executive Annual Incentive Plan, effective January 1, 2020.
- *10p. Form of Change in Control Severance Agreement between Northwest Natural Gas Company and each executive officer, as amended and restated as of October 1, 2018 (incorporated by reference to Exhibit 10.2 to the Form 8-K dated October 1, 2018, File No. 1-38681).
- 10q. Form of Change in Control Severance Agreement between Northwest Natural Gas Company and each executive officer, as amended and restated as of March 1, 2020.
- *10r. Northwest Natural Gas Company Long Term Incentive Plan, as amended and restated effective May 24, 2012 (incorporated by reference to Exhibit 10r to Form 10-K for 2012, File No. 1-15973).
- *10s. Northwest Natural Gas Company Long Term Incentive Plan, as amended and restated effective May 25, 2017 (incorporated by reference to Exhibit 10s to Form 10-K for 2017, File No. 1-15973).
- *10t. Northwest Natural Holding Company Long Term Incentive Plan, as amended and restated as of October 1, 2018 (incorporated by reference to Exhibit 10.1 to the Form 8-K dated October 1, 2018, File No. 1-38681).
- *10u. Form of Long Term Incentive Award Agreement under Long Term Incentive Plan (2017-2019) (incorporated by reference to Exhibit 10x. to Form 10-K for 2016, File No. 1-15973).
- *10v. Form of Performances Share Long Term Incentive Agreement under Long Term Incentive Plan (2018-2020) (incorporated by reference to Exhibit 10y. to Form 10-K for 2017, File No. 1-15973).

- *10w. Form of Long Term Incentive Award Agreement under Long Term Incentive Plan (2019-2021) (incorporated by reference to Exhibit 10z. to Form 10-K for 2018, File No. 1-38681).
- 10x. Form of Long Term Incentive Award Agreement under Long Term Incentive Plan (2020-2022).
- *10y. Form of Consent dated December 14, 2006 entered into by each executive officer with respect to amendments to the Executive Supplemental Retirement Income Plan, the Supplemental Executive Retirement Plan and certain change in control severance agreements (incorporated by reference to Exhibit 10.1 to Form 8-K dated December 19, 2006, File No. 1-15973).
- *10z. Consent to Amendment of Deferred Compensation Plan for Directors and Executives, dated February 28, 2008 entered into by each executive officer (incorporated by reference to Exhibit 10bb to Form 10-K for 2007, File No. 1-15973).
- 10aa. Form of Restricted Stock Unit Award Agreement under Long Term Incentive Plan (2020).
- *10bb. Form of Restricted Stock Unit Award Agreement under Long Term Incentive Plan (2019) (incorporated by reference to Exhibit 10cc. to Form 10-K for 2018, File No. 1-38681).
- *10cc. Form of Restricted Stock Unit Award Agreement under Long Term Incentive Plan (2018) (incorporated by reference to Exhibit 10bb. to Form 10-K for 2017, File No. 1-15973).
- *10dd. Corrected Form of Restricted Stock Unit Award Agreement under Long Term Incentive Plan (2017) (incorporated by reference to Exhibit 10.1 to Form 10-Q for the quarter ended March 31, 2017, File No. 1-15973).
- *10ee. Form of Restricted Stock Unit Award Agreement under Long Term Incentive Plan (2016) (incorporated by reference to Exhibit 10bb. to Form 10-K for 2015, File No. 1-15973).
- *10ff. Severance Agreement between Northwest Natural Gas Company and an executive officer, dated August 1, 2016 (incorporated by reference to Exhibit 10.1 to Form 8-K dated July 29, 2016, File No. 1-15973).
- *10gg. Form of Restricted Stock Unit Award Agreement between Northwest Natural Gas Company and an executive officer dated as of July 27, 2016 (incorporated by reference to Exhibit 10.1 to Form 10-Q for the quarter ended June 30, 2016, File No. 1-15973).
- *10hh. Form of Severance Agreement between Northwest Natural Gas Company and an executive officer, dated May 17, 2017 (incorporated by reference to Exhibit 10.1 to Form 8-K dated April 24, 2017, File No. 1-15973).
- *10ii. Form of Special Restricted Stock Unit Agreement between Northwest Natural Gas Company and an executive officer, dated May 17, 2017 (incorporated by reference to Exhibit 10.2 to Form 8-K dated April 24, 2017, File No. 1-15973).
- *10jj. Form of Special Retention Restricted Stock Unit Agreement between Northwest Natural Gas Company and an executive officer, dated September 30, 2016 (incorporated by reference to Exhibit 10qq. to Form 10-K for 2017, File No. 1-15973).
- *10kk. Cash Retention Agreement between Northwest Natural Gas Company and an executive officer, dated as of March 1, 2018 (incorporated by reference to Exhibit 10ss. to Form 10-K for 2017, File No. 1-15973).
- 10ll. Annual Incentive Plan for NW Natural Gas Storage, LLC, as amended effective January 1, 2020.
- *10mm. Long Term Incentive Plan for NW Natural Gas Storage, LLC, as amended effective January 1, 2016 (incorporated by reference to Exhibit 10pp. to Form 10-K for 2016, File No. 1-15973).

^{*}Incorporated by reference as indicated

^{**}Pursuant to Item 601(b)(32)(ii) of Regulation S-K, this certificate is not being "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, each registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized. The signature for each undersigned company shall be deemed to relate only to matters having reference to such company and its subsidiaries.

NORTHWEST NATURAL HOLDING COMPANY

<u>By: /s/ David H. Anderson</u> David H. Anderson President and Chief Executive Officer Date: March 2, 2020

NORTHWEST NATURAL GAS COMPANY

By: /s/ David H. Anderson David H. Anderson President and Chief Executive Officer Date: March 2, 2020 Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated. The signatures of each of the undersigned shall be deemed to relate only to matters having reference to the below named company and its subsidiaries.

NORTHWEST NATURAL HOLDING COMPANY

Signature	Title	Date
/s/ David H. Anderson David H. Anderson President and Chief Executive Officer	Principal Executive Officer and Director	March 2, 2020
/s/ Frank H. Burkhartsmeyer Frank H. Burkhartsmeyer Senior Vice President and Chief Financial Officer	Principal Financial Officer	March 2, 2020
/s/ Brody J. Wilson Brody J. Wilson Vice President, Treasurer, Chief Accounting Officer	Principal Accounting Officer	March 2, 2020
and Controller /s/ Timothy P. Boyle Timothy P. Boyle	Director)
/s/ Martha L. Byorum Martha L. Byorum	Director)))
/s/ John D. Carter John D. Carter	Director))
/s/ Mark S. Dodson Mark S. Dodson	Director)))
/s/ Monica Enand Monica Enand	Director)))
/s/ C. Scott Gibson C. Scott Gibson	Director) March 2, 2020)
/s/ Tod R. Hamachek Tod R. Hamachek	Director)))
/s/ Jane L. Peverett Jane L. Peverett	Director)))
/s/ Kenneth Thrasher Kenneth Thrasher	Director))
/s/ Malia H. Wasson Malia H. Wasson	Director)))
/s/ Charles A. Wilhoite Charles A. Wilhoite	Director)

NORTHWEST NATURAL GAS COMPANY

Signature	Title	Date
/s/ David H. Anderson David H. Anderson President and Chief Executive Officer	Principal Executive Officer and Director	March 2, 2020
/s/ Frank H. Burkhartsmeyer Frank H. Burkhartsmeyer Senior Vice President and Chief Financial Officer	Principal Financial Officer	March 2, 2020
/s/ Brody J. Wilson Brody J. Wilson Vice President, Treasurer, Chief Accounting Officer and Controller	Principal Accounting Officer	March 2, 2020
/s/ Timothy P. Boyle	Director)
/s/ Martha L. Byorum Martha L. Byorum	Director)))
/s/ John D. Carter John D. Carter	Director)))
/s/ Mark S. Dodson Mark S. Dodson	Director)))
/s/ Monica Enand Monica Enand	Director)))
/s/ C. Scott Gibson C. Scott Gibson	Director))
/s/ Tod R. Hamachek Tod R. Hamachek	Director) March 2, 2020)
/s/ Jane L. Peverett	Director))
/s/ Kenneth Thrasher Kenneth Thrasher	Director))
/s/ Malia H. Wasson Malia H. Wasson	Director))
/s/ Charles A. Wilhoite Charles A. Wilhoite	Director)
/s/ Steven E. Wynne Steven E. Wynne	Director)))

Exhibit 21

SUBSIDIARIES OF NORTHWEST NATURAL HOLDING COMPANY

an Oregon Corporation

Jurisdiction Organized
Oregon
Delaware
Delaware
Delaware
Oregon
Washington
Idaho
Idaho
Idaho
Texas
Texas
Texas
Oregon
Idaho

(1) Subsidiary of Northwest Natural Gas Company

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in the Registration Statements on Form S-8 (Nos. 333-187005-01, 333-180350-01, 333-134973-01, 333-100885-01, 333-139819-01, 333-221347-01, 333-227687, and 333-234539) and Form S-3 (No. 333-227662) of Northwest Natural Holding Company of our report dated March 2, 2020 relating to the financial statements, financial statement schedules and the effectiveness of internal control over financial reporting, which appears in this Form 10-K.

/s/ PricewaterhouseCoopers LLP Portland, Oregon March 2, 2020

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in the Registration Statements on Form S-8 (No. 333-221347) and Form S-3 (No. 333-227662-01) of Northwest Natural Gas Company of our report dated March 2, 2020 relating to the financial statements and financial statement schedule which appears in this Form 10-K.

/s/ PricewaterhouseCoopers LLP Portland, Oregon March 2, 2020 I, David H. Anderson, certify that:

1. I have reviewed this annual report on Form 10-K for the year ended December 31, 2019 of Northwest Natural Gas Company;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

(a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

(b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

(c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

(d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

(a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

(b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: March 2, 2020

<u>/s/ David H. Anderson</u> David H. Anderson President and Chief Executive Officer I, Frank H. Burkhartsmeyer, certify that:

1. I have reviewed this annual report on Form 10-K for the year ended December 31, 2019 of Northwest Natural Gas Company;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

(a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

(b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

(c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

(d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

(a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

(b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: March 2, 2020

<u>/s/ Frank H. Burkhartsmeyer</u> Frank H. Burkhartsmeyer Senior Vice President and Chief Financial Officer I, David H. Anderson, certify that:

1. I have reviewed this annual report on Form 10-K for the year ended December 31, 2019 of Northwest Natural Holding Company;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

(a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

(b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

(c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

(d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

(a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

(b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: March 2, 2020

<u>/s/ David H. Anderson</u> David H. Anderson President and Chief Executive Officer I, Frank H. Burkhartsmeyer, certify that:

1. I have reviewed this annual report on Form 10-K for the year ended December 31, 2019 of Northwest Natural Holding Company;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

(a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

(b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

(c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

(d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

(a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

(b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: March 2, 2020

<u>/s/ Frank H. Burkhartsmeyer</u> Frank H. Burkhartsmeyer Senior Vice President and Chief Financial Officer

NORTHWEST NATURAL GAS COMPANY

Certificate Pursuant to Section 906 of Sarbanes – Oxley Act of 2002

Each of the undersigned, DAVID H. ANDERSON, Chief Executive Officer, and FRANK H. BURKHARTSMEYER, the Chief Financial Officer, of NORTHWEST NATURAL GAS COMPANY (the Company), DOES HEREBY CERTIFY that:

1. The Company's Annual Report on Form 10-K for the year ended December 31, 2019 (the Report) fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and

2. Information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

IN WITNESS WHEREOF, each of the undersigned has caused this instrument to be executed this second day of March 2020.

<u>/s/ David H. Anderson</u> David H. Anderson President and Chief Executive Officer

<u>/s/ Frank H. Burkhartsmeyer</u> Frank H. Burkhartsmeyer Senior Vice President and Chief Financial Officer

A signed original of this written statement required by Section 906 of the Sarbanes-Oxley Act of 2002 has been provided to Northwest Natural Gas Company and will be retained by Northwest Natural Gas Company and furnished to the Securities and Exchange Commission or its staff upon request.

NORTHWEST NATURAL HOLDING COMPANY

Certificate Pursuant to Section 906 of Sarbanes – Oxley Act of 2002

Each of the undersigned, DAVID H. ANDERSON, Chief Executive Officer, and FRANK H. BURKHARTSMEYER, the Chief Financial Officer, of NORTHWEST NATURAL HOLDING COMPANY (the Company), DOES HEREBY CERTIFY that:

1. The Company's Annual Report on Form 10-K for the year ended December 31, 2019 (the Report) fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and

2. Information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

IN WITNESS WHEREOF, each of the undersigned has caused this instrument to be executed this second day of March 2020.

<u>/s/ David H. Anderson</u> David H. Anderson President and Chief Executive Officer

<u>/s/ Frank H. Burkhartsmeyer</u> Frank H. Burkhartsmeyer Senior Vice President and Chief Financial Officer

A signed original of this written statement required by Section 906 of the Sarbanes-Oxley Act of 2002 has been provided to Northwest Natural Holding Company and will be retained by Northwest Natural Holding Company and furnished to the Securities and Exchange Commission or its staff upon request.



INVESTOR AND SHAREHOLDER **INFORMATION**

STOCK TRANSFER AGENT AND REGISTRAR

service territory.

For common stock: American Stock Transfer & Trust Company 6201 15th Avenue Brooklyn, NY 11219 (888) 777-0321 web: astfinancial.com email: info@astfinancial.com

TRUSTEE AND **BOND PAYING AGENT**

For bond issues: Deutsche Bank **Trust Company Americas** 60 Wall Street New York, NY 10005 (800) 735-7777



NIKKI SPARLEY Director, Investor Relations Toll free (800) 422-4012, Ext. 2530 Direct (503) 721-2530 nikki.sparley@nwnatural.com



CATHY CROWN Manager, Shareholder Services Toll free (800) 422-4012, Ext. 2402 Direct (503) 220-2402 cathy.crown@nwnatural.com

environmental stewardship, progress on our Low Carbon Pathway, community support and philanthropy, and the values that guide our work every day.

View our Corporate Sustainability Report online: nwnaturalcommunity.com

LOW-INCOME PROGRAMS

NW Natural helps low-income customers manage their bills through a variety of programs. Shareholders and customers support the Gas Assistance Program, which supplements federal and state assistance programs. In addition, the Oregon Low-Income Gas Assistance Program uses public purpose fees to help low-income customers pay their utility bills. The Oregon Low-Income Energy Efficiency Program, also paid for by public purpose charges, helps customers in need acquire high-efficiency equipment and weatherization upgrades.

View the Low-Income Programs at: nwnatural.com/residential

ENERGY-EFFICIENCY PROGRAMS

NW Natural partners with Energy Trust of Oregon to offer our Oregon and Washington customers energy-efficiency programs and services. Learn more about the results of these programs and the benefits to our customers.

View the Energy Trust of Oregon Annual Report at: nwnatural.com/residential

>>> OUR CORE VALUES

Integrity Safety Caring Service Ethic Environmental Stewardship

NW Natural



1

250 SW TAYLOR STREET PORTLAND, OREGON 97204 NWNATURALHOLDINGS.COM NYSE: NWN 4



109 [Reserved] (78,041,739) (81,047,030) (83,059,998) 111 Accumulated provision for amortization and depletion of gas utility plant. (78,041,739) (81,047,030) (83,059,998) 112 [Reserved] 113.1-113.2 [Reserved] 23,066,105 28,885,855 34,857,379 114 Gas plant acquisition adjustments. 23,066,105 28,885,855 34,857,379 116 Other gas plant acquisition adjustments. 117.1 Gas stored-Base gas. 14,133,895 18,488,587 18,494,189 117.1 Gas stored in reservoirs and pipelines-noncurrent. 117.4 Gas stored in reservoirs for depreciatin and amortization of nonutility property. <th></th> <th></th> <th></th> <th colspan="2"></th>					
LUBi Park					
101 Cisplant in service. - - - 103 Repair uncleased or sold. - - - 103 Gas plant teles poll in functions of sold. - - - 103 Gas plant teles to othera. - - - - 104 Gas plant teles to othera. - - - - - 105 Computations with progress. 62,246,074 119,323,3767 (1,305,243,878) 02,049,7593 04,941,93 01,015,111,1112,1112,1114,1114,1114,1114,111					
10.1 Property under capital lesses. 102 Exage plant purposed or sold. 103 Experimental gas plant inclassified. 104 Experimental gas plant inclassified. 105 Experimental gas plant inclassified. 106 Experimental gas plant inclassified. 107 Experimental gas plant inclassified. 108 Experimental gas plant inclassified. 109 Experimental gas plant inclassified. 100 Experimental gas plant inclassified. 101 Experimental gas plant inclassified. 102 Experimental gas plant inclassified. 103 Experimental gas plant inclassified. 103 Experimental gas plant inclassified. 104 Experimental gas plant inclassified. 103 Experimental gas plant inclassified. 103 Experimental gas plant inclassified. 104 Experimental gas plant inclassified. 105 Experimental gas plant inclassified. 10	•				
102 Case pairs functional of rules use. 970,088 970,088 103 Experimental point induced for future use. 923,135 970,088 970,088 103 Experimental point induced for future use. 923,135 970,088 970,088 103 Experimental point induced for future use. 92,254,071 (15,350,213,177) (15,350,213,172) (15,173,173,173,173,173,173) (11,35,851,172,173,173,173,173,173,173,173,173) (11,35,851,172,173,173,173,173,173,173,173,173,173,173		-	-	-	
101 Experimental gas plant under Sample 990.088 970.088 970.088 105 Gas plant based to othera: 923.155 970.068 970.088 105 Construction on classified - Cas. - - - - 106 Comprised construction on classified - Cas. -					
105 Gas plant held for luture use. 923,155 970.068 970.068 105 Comparison hold for luture use.					
105.1 Production properties Held for future use. 52,264,074 159,923,807 204,978,959 107 Construction work in progress - Gas. 62,264,074 159,923,807 12,05,723,878 108 [Reserved] 11,12,12 [Reserved] 113,113,2 [Reserved] 113,113,2 [Reserved] 113,113,2 [Reserved] 113,113,2 [Reserved] 113,113,2 [Reserved] 114,113,189 18,485,587 34,857,379 113,6,113,2 [Reserved] 114,113,189 18,485,587 18,494,189 113,113,2 [Reserved] 114,113,895 18,485,587 18,494,189 117,1 Gas store-Gene gas. 14,113,895 18,485,587 18,494,189 112 Norwality protons 67,258,603 60,113,165 12,138,413 52,653,735 49,921,908 123 Investment in suboidary companies. 290,518,132 152,179,422 105,523,463 13,02,657,975 123 Investment in suboidary companies. 1,930,567,973 1,930,533 54,524,143 52,523,7	•				
10E Completed construction not classified - Cas.		923,155	970,068	970,068	
107 Construction work in programs - cas. 62,26,074 19,92,922 20,49,79,892 108 Reserved] (1,18,014,717) (1,250,333,767) (1,352,43,878) 117 In Scoundlated provision for amontization and depletion of gas utility plant. (7,80,41,793) (81,047,030) (83,057,978) 113.1-113.2 [Reserved] 1 <td></td> <td></td> <td></td> <td></td>					
108 Accumulated provision for depreciation of gas utility plant. (1.188,014,717) (1.250,333,767) (1.305,243,878) 111 Accumulated provision for amortization and depletion of gas utility plant. (7.80,41,739) (81,047,030) (83,059,998) 113 Intr32 [Reserved] 21,066,105 28,885,855 34,857,379 114 Gas plant adjustments. 21,066,105 28,885,855 34,857,379 117 Gas stored Save gas. 14,133,695 18,488,587 18,494,189 117 Gas stored Save gas. 14,133,695 18,488,587 18,494,189 117 Gas stored Save gas. 14,133,695 12,849,189 12,338,418 12,853,603 69,119,165 71,338,418 117 Gas stored Save gas. 10,171,355,6611 (12,171,432) 105,521,449 20,017,721 121 Normality property. 67,558,603 69,119,165 71,338,413 22,627,352 49,921,908 123 Interestrontin substitution comparises. 290,518,132 152,179,432 105,521,449 124 Other investrontin substitution comparises. 2,667,579 70,733 2,875,776 123 Interest special deposits. 1,910,852 1,930,318 4,850,774 13,5500 20,000 2,273,382		62.264.074	159.923.802	204.978.958	
111 Accumulated provision for amonization and depletion of gas utility plant. (78,041,739) (81,047,030) (83,059,998) 112 (Reserved) 12 12 (Reserved) 12 12 (Reserved) 12 12 (Reserved) 12 1				(1,305,243,878)	
11.1.1.1.1.2 [Reserved] 11.3.1.1.3.2 [Reserved] 11.3.1.1.3.2 [Reserved] 11.3.1.1.3.2 [Reserved] 11.4.1.3.2 [Reserved] 11.5.0.1.1.3.1.1.3.2 [Reserved] 11.5.0.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1					
113 113 26.865.00 28.85.850 34.857.379 114 Gas plant adjustments. 23.066.105 28.85.855 34.857.379 115 Accumulated provision for amorization of gas plant acquisition adjustments. 14.133.895 18.488.887 18.488.887 18.488.887 18.494.189 117.1 Gas stored-Bane gas. 14.133.895 18.488.887 18.494.189 17.436.300 18.498.857 18.494.189 17.436.300 18.498.857 18.494.189 17.436.300 18.498.857 18.498.183 18.498.587 18.498.193 12.499.193 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 10.55.735 12.179.432 10.55.735		(78,041,739)	(81,047,030)	(83,059,998)	
14 Gas plant acquisition adjustments. 23,066,05 28,885,855 34,857,379 116 Oher gas plant adjustments. 117 117 Gas stored provision for amountization of gas plant acquisition adjustments. 118 118,488,887 18,494,189 117. Gas stored in reservoirs and pipelines-noncurent. 117.3 Gas stored in reservoirs and pipelines-noncurent. 117.4 Gas stored in reservoirs and pipelines-noncurent. 117.4 Gas stored in reservoirs and pipelines-noncurent. 117.1 Gas stored in reservoirs and pipelines-noncurent. 20.00000000000000000000000000000000000					
115 Accumulated provision for amortization of gas plant acquisition adjustments. 117.1 Gas stored-Base gas. 14,133,895 18,488,587 18,494,189 117.2 System balancing gas. 14,133,895 18,488,587 18,494,189 117.3 Gas stored-Base gas. 14,133,895 18,488,587 18,494,189 117.4 Gas oved to system gas. 118 Other utility plant. 118 Other utility plant. 119 Accumulated provision for depreciation and amortization of other utility property. 67,258,603 69,119,165 7,138,418 129 Accumulated provision for depreciation and amortization of nonutility property. 127,395,661 (18,719,432) 105,582,148 120 Other investments. 290,518,132 152,179,432 105,582,148 123 Investment in subscience companies. 290,518,132 152,179,432 105,582,148 123 Other special funds. 2,102,00 2,047,00 128 121,179,432 105,582,148 124 Other special funds. 1,956,799 700,753 2,875,276 129,108 128 14,950,774 2,275,276 2,865,602 2,102,00 2,074,002 2,074,002 2,074,002 2,074,002 2,074,002 2,074,002 2,074,002 2,074,002 2,074,002 2,074,002		22.000 105	20.005.055	24.057.270	
116 Other gas plant adjustments. 14,133,895 18,488,587 18,494,189 17.7 Gas strowed ne reservoirs and pipelines-noncurrent. 17.7 Gas strowed ne reservoirs and pipelines-noncurrent. 17.7 Gas strowed ne reservoirs and pipelines-noncurrent. 17.7 Gas strowed ne reservoirs and pipelines-noncurrent. 17.7 Gas strowed ne reservoirs and pipelines-noncurrent. 17.1 Gas strowed ne reservoirs and pipelines-noncurrent. 17.7 Gas strowed ne reservoirs and pipelines. 67,258,603 65,119,165 7,133,418 22. Accurrulated provision for depreciation and amortization of nonutility property. 67,258,603 (16,519,439) (20,013,772) 121. Investment in subsidiation companies. 290,518,132 122,179,432 19,558,21,48 122. Accurrulated provision for depreciation and amortization of nonutility property. (17,356,61) (15,519,439) (20,013,772) 123. Intrestment in subsidiation companies. 290,518,132 122,179,432 19,558,21,48 123. Other special deposits. 1,910,652 1,930,638 4,850,774 124. Other special deposits. 1,910,652 1,930,638 4,850,774 125. Unterest special deposits. 1,910,652 1,930,638 4,850,774 124. Other accounts receivable. 6,578,953 55,858,548 82,80		23,066,105	28,885,855	34,857,379	
117.1 Gas stored-Base gas. 14,133,895 18,488,587 18,494,189 117.3 Cas stored in reservoirs and pipelines-noncurrent. 117.3 Gas stored in reservoirs and pipelines-noncurrent. 117.1 TA Gas could to system gas. 118.0 Oner utility pipert. 67,258,603 69,119,165 71,338,418 120 Accurrentiated provision for depreciation and amortization of other utility pipert. 67,258,603 69,119,165 71,338,418 121 Accurrentiated provision for depreciation and amortization of nonutility property. (17,355,661) (18,719,432) (105,582,148) 122 Accurrentiated provision for depreciation and amortization of nonutility property. (17,355,661) (12,719,432) 105,582,148 123 Investment in subciding roompanies. 290,518,132 122,179,432 105,582,148 124 Other investments. 54,581,443 52,653,755 49,921,908 125 Other investments. 1,910,552 2,975,276 13,930,838 4,850,77 121 Other apscial deposits. 1,910,852 1,930,838 4,850,77 121 Other apscial deposits. 1,910,852 1,930,838 4,850,77 121 Other apscial deposits. 1,910,852 2,574,352 6,148,203 124 Other apscial deposits. 1,930,856 2,000,2775					
117.2 System balancing gas. 117.3 Gas stored to reservices and pipelines-noncurrent. 117.4 Gas stored to reservices and pipelines-incurrent. 118 Oher sulfy part. 119 Accumulated provision for depreciation and amortization of nonutility property. 67,258,603 69,119,165 71,338,418 121 Nonutility property. 67,258,603 69,119,165 71,338,418 122 Accumulated provision for depreciation and amortization of nonutility property. (17,39,561) (12,71),432 (12,01,772) 123 Investment in subscitated companies. 54,518,143 52,55,735 (15,552,148 125 Sining funds. 14,001 spocial funds. 32,000 spocial funds. 32,000 spocial funds. 32,000 spocial funds. 3,000 spocial funds. <td></td> <td>14,133,895</td> <td>18,488,587</td> <td>18,494,189</td>		14,133,895	18,488,587	18,494,189	
117.4 Gas owed to system gas. 118 Oher utility plant. 119 Accumulated provision for depreciation and amortization of other utility plant. 2. Other Property and Investments 121 Noturality property. 67,258,603 69,119,155 71,338,418 122 Accumulated provision for depreciation and amortization of nonutility property. (17,495,561) (12,4719,439) (12,013,772) 123.1 Investment in subsidiaty companies. 290,518,132 152,179,432 105,582,148 123.1 Unvestment in subsidiaty companies. 290,518,132 152,57,735 49,921,908 125.1 Sinking funds. 32,656,799 700,753 2,875,276 128.0 Depreciation fund. 1,956,799 700,753 2,875,276 129.1 Drivers special deposits. 1,910,852 1,330,838 4,850,774 131.0 Under special deposits. 1,910,852 1,330,838 4,850,774 132.1 Interest special deposits. 1,910,852 1,330,838 4,850,774 132.1 Unterest special deposits. 1,910,852 1,330,838 4,850,774 132.1 Unterest special deposits. 1,910,852 1,330,838 4,850,774 133.1 Unterest special deposits. 1,910,852 2,356,921	-	,,	-,,	-, - ,	
118 Other utility plant. 129 Accumulated provision for depreciation and amortization of other utility plant. 121 Numulity property. (7,258,603 (6),119,165 71,338,418 122 Accumulated provision for depreciation and amortization of nonutility property. (17,355,661) (18,719,439) (20,013,772) 123 Investment in associated companies. 54,581,443 52,653,735 49,921,908 124 Other rivestments. 54,581,443 52,653,735 49,921,908 125 Dinking funds. 54,581,443 52,653,735 49,921,908 126 Other procestion fund. 1056,799 700,753 2,875,276 131 Cash. 1,910,852 1,930,838 4,850,774 132 Other special deposits. 1,910,852 1,930,838 4,850,774 133 Other special deposits. 1,910,852 1,273,822 2,875,275 134 Other special deposits. 1,910,852 1,273,822 2,875,275 135 Other accounts receivable. 3,856,921 2,574,132 2,273,822 141 Notes accounts receivable. 6,0578,933 58,458,488 58,209,024 142 Outpert special deposits. 1,210,276 (955,580) (975,367) <	117.3 Gas stored in reservoirs and pipelines-noncurrent.				
119 Accumulated provision for depreciation and amoritzation of other utility plant. 2. Other Property and Investments 67,258,603 69,119,165 71,338,418 121 Nonutility property. (17,395,661) (18,719,439) (20,013,772) 123. Investment in subsidiary companies. 290,518,132 152,179,432 105,582,148 124. Other investments. 52,653,735 49,921,908 125. Sinking funds. 52,653,735 49,921,908 126 Depreciation fund. 126 127,07,932 2,875,276 128 Depreciation fund. 1,910,852 1,930,838 4,850,774 131 Outher special deposits. 1,910,852 1,930,838 4,850,774 132 Divident special deposits. 1,910,852 1,930,838 4,850,774 133 Divident special deposits. 1,910,852 1,930,838 4,850,774 134 Other special deposits. 1,910,852 1,930,838 58,029,024 135 Working funds. 1,920,025 2,54,132 2,273,838 144 Other special deposits. 2,060,067 6,424,775 6,148,203 145 Other accounts receivable. 60,578,953 58,685,488 58,0290,024 144 Accumulat					
2. Other Property and Investments 7,258,603 69,115,165 7,138,418 121 Nonutility property. (17,395,661) (18,719,439) (20,013,772) 123 Investment in associated companies. 290,518,132 1152,179,432 105,582,148 124 Other investments. 54,581,443 52,653,735 49,921,908 125 Sinking funds. 2 152,179,432 105,582,148 126 Other investments. 54,581,443 52,653,735 49,921,908 126 Other investments. 54,581,443 52,653,735 49,922,908 126 Other investments. 54,056,799 700,753 2,875,276 121 Cachin. 1,956,679 700,753 2,875,276 123 Onvidend special deposits. 1,910,852 1,930,888 4,850,774 133 Ovidend special deposits. 1,910,852 1,930,888 4,850,774 134 Other accounts receivable. 1,910,852 1,930,888 4,850,774 135 Other accounts receivable. 1,910,852 1,930,888 58,209,024 134 Other accounts receivable. 6,0578,953 5,8655,488 58,209,024 <tr< td=""><td></td><td></td><td></td><td></td></tr<>					
121 Nonuliity property. 67 258,083 69.119.165 71.338.418 122 Accurnal and provision for depreciation and amortization of nonulility property. (17,395,661) (18,719,439) (20,013,772) 123 Investment in subsidiary companies. 290.518,132 152,179,432 105,582,148 124 Other investments. 290.518,132 152,179,432 105,582,148 125 Sinking funds. 126 Depreciation fund. 128 Other special funds. 3 128 Other special deposits. 1,910,852 1,930,838 4,850,774 130 Dividend special deposits. 1,910,852 1,930,838 4,850,774 135 Working funds. 1,856,692 2,02,200 2,02,200 136 Temporary cash investments. 1,856,692 2,574,132 2,277,382 137 Other special deposits 3,536,921 2,574,132 2,277,382 138 Other accounts receivable. 60,578,953 58,685,488 58,209,074 139 Other accounts receivable. 60,578,953 58,685,488 58,209,074 134 Other accounts receivable. 60,578,953 58,685,488 58,209,074 134 Other accounts receivable. 60,578,953 58,685,488 58,209,078					
122 Accumulated provision for deprediation and amortization of nonutility property. (17,395,661) (18,719,439) (20,013,772) 123 Investment in subsidiary companies. 290,518,132 152,179,432 105,582,148 124 Other investments. 54,581,443 52,653,735 49,921,908 126 Depreciation fund. 128 Other special funds. 52,653,735 49,921,908 128 Other special funds. 1,056,799 700,753 2,875,276 131 Cash. 1,910,852 1,930,838 4,850,773 2,875,276 133 Uvidend special deposits. 1,910,852 1,930,838 4,850,774 132 134 Other special deposits. 1,910,852 1,930,838 4,850,774 132 2,273,382 143 Other accounts receivable. 2,574,132 2,773,382 143 4,850,774 12,277,382 144 Accumulated provision for uncollectible accounts - Cr. (1,202,78) (955,63) (973,537) 144 Accumulated provision for uncollectible accounts - Cr. (1,202,73) 2,389 542,109 154 Fuel stock expenses undistributed. 10,102,594 10,064,217 13,381,651 154 Part antacted products. 12,4164,8375 3,266,8748		67 258 603	69 119 165	71 338 418	
123 Investment in associated companies. 280 518,132 152,179,432 152,179,432 152,179,432 149,21,078 124 Other investments. 54,581,443 52,653,735 49,921,008 125 Sinking funds. 126 Depreciation fund. 128 Other special funds. 128 Other special funds. 128 Other special funds. 1,056,799 700,753 2,875,276 131 Cash. 1,056,799 700,753 2,875,276 132 Interest special deposits. 1,910,852 1,930,838 4,850,774 133 Ovidend special deposits. 1,910,852 1,930,838 4,850,774 134 Other special deposits. 1,950,873 58,685,488 58,200,724 134 Other special deposits. 1,930,838 4,850,774 1,273,382 141 Notes receivable. 2,574,132 2,277,382 1,273,382 142 Customer accounts receivable. 2,665,067 6,242,775 6,148,030 143 Other accounts receivable. 207,935 223,898 58,109,143 144 Accounds teceivable from associated companies. 10,102,594 10,064,217 13,381,615 145 Notes receivable from associated companies. 224,116 863,669 879,463					
124 Other investments. 54,581,443 52,653,735 49,921,908 125 Sinking funds. 126 Depreciation fund. 128 Other special funds. 1,056,799 700,753 2,875,276 32 Interest special deposits. 1,910,852 1,930,838 4,850,774 33 Dividend special deposits. 1,910,852 1,930,838 4,850,774 134 Other special deposits. 1,910,852 1,930,838 4,850,774 135 Working funds. 1,910,852 1,930,838 4,850,774 136 Temporary cash investments. 3,536,921 2,574,132 2,273,382 141 Notes receivable. 60,578,953 58,685,488 58,209,024 143 Other accounts receivable. 60,578,953 58,685,488 58,209,024 143 Other accounts receivable. 60,578,953 58,685,488 58,209,024 143 Other accounts receivable. 2,056,607 6,242,775 6,248,003 144 Accuruidate provision for uncollectible accounts - Cr. (1,290,276) (1,042,017 11,38,1651 154 Plant materials and operating supplies (Major only). 10,102,594 10,064,217 11,38,1651 155 Morchandise. 3,290,582 26,616,527					
125 Sinking funds. 126 Depreciation fund. 128 Other special funds. 3. Current and Accrued Assets 31 Cash. 1,056,799 700,753 2,875,276 132 Interest special deposits. 1 1910,852 1,930,838 4,850,774 133 Dividend special deposits. 1 1910,852 1,930,838 4,850,774 134 Other special deposits. 1,910,852 1,930,838 4,850,774 135 Working funds. 1,85,600 210,200 204,200 136 Temporary cash investments. 3,536,921 2,574,132 2,273,382 141 Notes receivable. 60,578,953 58,685,488 58,209,024 143 Other accounts receivable. 60,578,953 58,685,488 58,209,024 143 Other accounts receivable. 60,578,953 58,685,488 58,209,024 144 Accurudlated provision for uncollectible accounts - Cr. (1,290,276) (955,630) (975,367) 145 Notes receivable from associated companies. 207,935 223,899 542,109 155 Fuel stock. 10,102,594 10,064,217 13,38,651 156 Other materials and operating supplies (Major only). 10,102,594 10,64,217 <td< td=""><td>123.1 Investment in subsidiary companies.</td><td>290,518,132</td><td>152,179,432</td><td>105,582,148</td></td<>	123.1 Investment in subsidiary companies.	290,518,132	152,179,432	105,582,148	
126 Depreciation fund. 128 Other special funds. 230 Current and Accrued Assets 131 Cash. 1,056,799 700,753 2,875,276 132 Interest special deposits. 133 Dividend special deposits. 1,910,852 1,930,838 4,850,774 134 Other special deposits. 1,810,850 210,020 204,200 136 Temporary cash investments. 1,856,00 210,020 204,200 136 Temporary cash investments. 2,856,812 2,273,822 2,733,823 143 Other accounts receivable. 60,578,953 58,654,488 58,209,024 143 Other accounts receivable from associated companies. 1,190,276 (955,630) 1975,367) 144 Accumidated provision for uncollectible accounts - Cr. (1,290,276) (955,630) 1975,367) 145 Notes receivable from associated companies. 207,935 223,899 542,109 154 Plant materials and operating supplies (Major only). 10,102,594 10,064,217 1,3,81,651 155 Merchandles. 924,116 863,669 879,463 26,974,832 26,61,6527 155 Merchandles. 924,116 863,290,91,851 3,741,745 3,700,566		54,581,443	52,653,735	49,921,908	
128 Other special funds. 3. Current and Accrued Assets 131 Cash. 1,056,799 700,753 2,875,276 132 Initerest special deposits. 1,910,852 1,930,838 4,850,774 133 Dividend Special deposits. 1,910,852 1,930,838 4,850,774 134 Other special deposits. 1,910,852 1,930,838 4,850,774 135 Working funds. 135,600 210,200 204,200 136 Temporary cash investments. 3,353,921 2,574,312 2,733,82 141 Notes receivable. 0,656,607 6,242,775 6,148,203 143 Other accounts receivable. 2,666,607 6,242,775 6,148,203 144 Accumulated provision for uncollectible accounts - Cr. (1,290,276) (195,5630) (197,367) 144 Accumulated provision for uncollectible accounts - Cr. 1,290,276) (10,06,217 13,381,651 154 Evel stock expenses undistributed. 132 Evel stock expenses undistributed. 132,381,651 133,381,651 155 Merchandise. 924,116 863,669 879,463 132,907,852 25,164,527 154 Ale nam atcreted products. 133,501 10,002,594 40,904,932 2,395,8	-				
3. Carrent and Accrued Assets 131 Cash. 1,056,799 700,753 2,875,276 132 Interest special deposits. 133 Dividend special deposits. 134 Other special deposits. 134 Status and Status an					
131 Cash. 1,056,799 700,753 2,875,276 132 Interest special deposits. 1 1 1 134 Other special deposits. 1,910,852 1,930,383 4,850,774 135 Working funds. 1,85,600 210,200 204,200 136 Temporary cash investments. 3,536,521 2,574,132 2,273,382 141 Notes receivable. 60,578,953 558,685,488 58,209,024 142 Customer accounts receivable. 2,666,067 6,242,775 6,148,203 144 Accoundise depositis accounts - Cr. 1,290,276 195,530 195,537 145 Notes receivable from associated companies. 207,935 223,899 542,109 151 Fuel stock. 201,006,217 13,381,651 154 154 Plant materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 156 Merchandise. 924,116 863,669 879,463 156 Other materials and supplies. 3,741,745 3,700,595 156 Vier advends for quistributed. 21,994,821 2,907,852 2,6164,527 156 Vier advends for gas stored. 3,741,745 3,700,596 2,71,997					
133 Dividend special deposits. 1,910,852 1,930,838 4,850,774 134 Other special deposits. 1,910,852 1,930,838 4,850,774 135 Working funds. 185,600 210,200 204,200 136 Temporary cash investments. 3,536,921 2,574,132 2,273,382 141 Notes receivable. 6,6578,953 58,685,488 58,209,024 142 Customer accounts receivable. 6,6578,953 58,685,488 58,209,024 143 Other accounts receivable from associated companies. 2,666,067 6,242,775 6,148,203 144 Accounts receivable from associated companies. 207,935 223,899 542,109 151 Fuel stock. 210,206,207 10,064,217 13,381,651 152 Fuel stock expenses undistributed. 10,102,594 10,064,217 13,381,651 155 Merchandise. 924,116 863,669 879,453 156 Other materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 156 Merchandise. 924,116 863,669 879,453 166,4527 153 Stores expense undistributed. 3,589,561 3,741,745 3,700,596 164.1 Gas stored -	131 Cash.	1,056,799	700,753	2,875,276	
134 Other special deposits. 1,910,852 1,930,838 4,850,774 135 Working funds. 185,600 210,200 224,200 136 Temporary cash investments. 3,536,921 2,574,132 2,273,382 141 Notes receivable. 60,578,953 58,685,488 58,209,024 142 Customer accounts receivable. 2,666,067 6,242,775 6,148,203 144 Accumulated provision for uncollectible accounts - Cr. (1,290,276) (955,630) (975,367) 145 Notes receivable from associated companies. 207,935 223,899 542,109 154 Picel stock 201,02,594 10,064,217 13,381,651 155 Reciduals and extracted products. 1910,02,594 10,064,217 13,381,651 155 Merchandise. 924,116 863,669 879,463 155 Merchandise. 924,116 863,669 879,453 156 Other materials and supplies. 31,987,46,875 32,907,852 26,164,527 164 Cas tored - current. 38,746,875 32,907,852 26,164,527 164 Advances for gas exploration, development, and production. 20,449,382 23,958,674 27,719,987 166 Advances for gas exploration, dev	132 Interest special deposits.				
135 Working funds. 185,600 210,200 204,200 136 Temporary cash investments. 3,356,921 2,574,132 2,273,382 141 Notes receivable. 60,578,953 58,685,488 58,209,024 143 Other accounts receivable. 60,578,953 58,685,488 58,209,024 143 Other accounts receivable. 60,578,953 58,685,488 58,209,024 144 Accountlated provision for uncollectible accounts - Cr. (1,290,276) (955,630) (975,367) 145 Notes receivable from associated companies. 207,935 223,899 542,109 151 Fuel stock. 10,002,594 10,064,217 13,381,651 155 Merchandise. 924,116 863,669 879,463 156 Other materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 155 Merchandise. 924,116 863,669 879,463 166 156 Other materials and operating supplies. 38,746,875 32,907,852 26,164,527 164 A 12 cugefied natural gas stored. 3,989,561 3,741,745 3,700,596 165 Prepayments. 20,449,382 23,958,674 27,719,997 166 Advances for gas e					
136 Temporary cash investments. 3,536,921 2,574,132 2,273,382 141 Notes receivable. 60,578,953 58,685,488 58,209,024 143 Other accounts receivable. 2,666,067 6,242,775 6,148,203 144 Accumulated provision for uncollectible accounts - Cr. (1,290,276) (955,630) (975,367) 145 Notes receivable from associated companies. 207,935 223,899 542,109 151 Fuel stock 207,935 223,899 542,109 152 Fuel stock expenses undistributed. 1358 136,659 879,463 156 Other materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 156 Other materials and supplies. 324,116 863,669 879,463 156 Other materials and supplies. 32,416 863,669 879,463 156 Other materials and supplies. 32,416 863,669 879,463 165 Other materials and supplies. 32,416 863,669 879,463 165 Other materials and supplies. 32,416 863,669 879,463 164 1 claugefied natural gas stored - current. 38,746,875 32,907,852 26,164,527 164 2 Liquefi					
141 Notes receivable. 142 Customer accounts receivable. 58,685,488 58,209,024 143 Other accounts receivable. 2,666,667 6,242,775 6,148,203 144 Accumulated provision for uncollectible accounts - Cr. (1,290,276) (955,630) (975,367) 145 Notes receivable from associated companies. 207,935 223,899 542,109 154 Plant meterials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 155 Merchandise. 924,116 863,669 879,463 156 Other materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 156 Merchandise. 924,116 863,669 879,463 156 Other materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 156 Merchandise. 924,116 863,669 879,463 156 Other materials and supplies. 103 3,741,745 3,706,595 164.1 Gas stored - current. 38,746,875 32,907,852 26,6164,527 164.3 Liquefied natural gas stored. 20,449,382 23,958,674 27,719,997 166 Advances for gas. 12 21,085,944 4,015,983 <td>5</td> <td></td> <td></td> <td>,</td>	5			,	
143 Other accounts receivable. 2,666,067 6,242,775 6,148,203 144 Accoundlated provision for uncollectible accounts - Cr. (1,290,276) (955,630) (975,367) 145 Notes receivable from associated companies. 207,935 223,899 542,109 146 Accounts receivable from associated companies. 207,935 223,899 542,109 151 Fuel stock. 10,102,594 10,064,217 13,381,651 155 Merchandise. 924,116 863,669 879,463 156 Other materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 156 Merchandise. 924,116 863,669 879,463 156 Other materials and operating supplies. 163 31,741,745 3,700,596 164.1 Gas stored - current. 38,746,875 32,907,852 26,164,527 164.2 Liquefied natural gas sheld for processing. 164 39,89,561 3,741,745 3,700,596 164.3 Liquefied natural gas held for processing. 164 164 Avances for gas. 20,449,382 23,958,674 27,719,997 166 Advances for gas. 171 Interest and dividends receivable. 172 Rents receivable. 172 Ren		0,000,022	2,07 1,202	2,270,002	
144 Accumulated provision for uncollectible accounts - Cr. (1,290,276) (955,630) (975,367) 145 Notes receivable from associated companies. 207,935 223,899 542,109 146 Accounts receivable from associated companies. 207,935 223,899 542,109 151 Fuel stock. 152 Fuel stock expenses undistributed. 153 Residuals and extracted products. 154 Plant materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 155 Merchandise. 924,116 863,669 879,463 156 Other materials and supplies. 924,116 863,669 879,463 156 Archandise. 924,116 863,669 879,463 156 Archandise. 924,116 863,669 879,463 156 Atorse expense undistributed. 164.1 Gas stored - current. 38,746,875 32,907,852 26,164,527 164.1 Gas stored - current. 38,746,875 32,907,852 26,164,527 3,780,596 164.2 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 165 Prepayments. 20,449,382 23,958,674 27,719,997 166 Advances for gas. 171 111 111 111 <	142 Customer accounts receivable.	60,578,953	58,685,488	58,209,024	
145 Notes receivable from associated companies. 207,935 223,899 542,109 146 Accounts receivable from associated companies. 207,935 223,899 542,109 151 Fuel stock. 152 Fuel stock expenses undistributed. 153 155 Mesiduals and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 155 Merchandise. 924,116 83,669 879,463 156 Other materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 156 Merchandise. 924,116 83,669 879,463 156 Other materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 156 Other materials and supplies. 924,116 83,669 879,463 156 Other materials and supplies. 924,116 83,22,907,852 26,164,527 164.1 Gas stored - current. 38,746,875 32,907,852 26,164,527 164.2 Liquefied natural gas held for processing. 71 71,071,059 71,02,097 166 Advances for gas exploration, development, and production. 20,449,382 23,958,674 27,771,983 171 Interest and dividends receivable. 72,108,594 4,015,983 73,773,088 <td>143 Other accounts receivable.</td> <td>2,666,067</td> <td>6,242,775</td> <td>6,148,203</td>	143 Other accounts receivable.	2,666,067	6,242,775	6,148,203	
146 Accounts receivable from associated companies. 207,935 223,899 542,109 151 Fuel stock. 152 Fuel stock expenses undistributed. 153 155 155 155 155 10,102,594 10,064,217 13,381,651 155 Merchandise. 924,116 863,669 879,463 156 157,715 157,156 157,171,175 13,740,595 164.3 13,2907,852 12,719,997 166 Advances for gas. 171 11 1167 140,493,82 23,958,674 27,719,997 166 Advances for gas. 171 11 172 166 Advances for gas.		(1,290,276)	(955,630)	(975,367)	
151 Fuel stock. 152 Fuel stock expenses undistributed. 153 Residuals and extracted products. 154 Plant materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 155 Merchandise. 924,116 863,669 879,463 166 Other materials and supplies. 163 863,669 879,463 163 Stores expense undistributed. 164,11 Gas stored - current. 38,746,875 32,907,852 26,164,527 164.1 Gas stored - current. 38,746,875 32,907,852 26,164,527 164.2 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 164.2 Liquefied natural gas held for processing. 10,102,594 10,064,917 13,917,9197 166 Advances for gas exploration, development, and production. 20,449,382 23,958,674 27,719,997 166 Advances for gas. 171 1nterest and dividends receivable. 172 171 171 172 Rents receivable. 172 2,108,594 4,015,983 175 14,015,983 176 14,015,983 176 14,010,00 9,726,000 174 Miscellaneous current and accrued assets. 1,100,000,1 11,000,000 11,000		207.025	222.800	F 42 100	
152 Fuel stock expenses undistributed. 153 Residuals and extracted products. 154 Plant materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 155 Merchandise. 924,116 863,669 879,463 156 Other materials and supplies. 924,116 863,669 879,463 163 Stores expense undistributed. 38,746,875 32,907,852 26,164,527 164.1 Gas stored - current. 38,746,875 32,907,852 26,164,527 164.2 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 164.3 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 165 Prepayments. 20,449,382 23,958,674 27,719,997 166 Advances for gas exploration, development, and production. 167 Other advances for gas. 171 171 Interest and dividends receivable. - 2,108,594 4,015,983 175 Derivative Instrument Assets - 2,108,594 4,015,983 175 Derivative Instrument Assets - Hedges (130,000) - 2,108,594 4,015,983 175 Derivative Instrument Assets - Hedges (130,000) - 2,108,594 <td< td=""><td>·</td><td>207,935</td><td>223,899</td><td>542,109</td></td<>	·	207,935	223,899	542,109	
153 Residuals and extracted products. 154 Plant materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 155 Merchandise. 924,116 863,669 879,463 156 Other materials and supplies. 863,657 32,907,852 26,164,527 163 Stores expense undistributed. 38,746,875 32,907,852 26,164,527 164.1 Gas stored - current. 38,746,875 32,907,852 26,164,527 164.2 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 164.3 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 165 Prepayments. 20,449,382 23,958,674 27,719,997 166 Advances for gas exploration, development, and production. 167 Other advances for gas. 171 171 Interest and dividends receivable. 172 Rent receivable. 173 Accrued utility revenues. 64,945,750 62,380,896 57,773,088 174 Miscellaneous current and accrued assets. - 2,108,594 4,015,983 175 Derivative Instrument Assets - Hedges (130,000) 176 Derivative Instrument Assets - Hedges 103,000) 172,009 6,859,484 <					
155 Merchandise. 924,116 863,669 879,463 156 Other materials and supplies. 163 Stores expense undistributed. 163 Stores expense undistributed. 164.1 Gas stored - current. 38,746,875 32,907,852 26,164,527 164.2 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 164.3 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 164.3 Liquefied natural gas stored. 20,449,382 23,958,674 27,719,997 166 Advances for gas exploration, development, and production. 20,449,382 23,958,674 27,719,997 166 Advances for gas. 171 Interest and dividends receivable. 172 Rents receivable. 172 172 Rents receivable. 2,108,594 4,015,983 174,015,983 174,015,983 174 Miscellaneous current and accrued assets. - 2,108,594 4,015,983 175 Derivative Instrument Assets 20,426,000 3,041,000 9,726,000 176 Derivative Instrument Assets - Hedges (130,000) 16 16 181 Unamortized debt expense. 7,915,836 7,172,109 6,859,484 182.2 Unrecovered plant and regulatory study costs. 18					
156 Other materials and supplies. 163 Stores expense undistributed. 164.1 Gas stored - current. 38,746,875 32,907,852 26,164,527 164.2 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 164.3 Liquefied natural gas held for processing. 20,449,382 23,958,674 27,719,997 166 Advances for gas exploration, development, and production. 20 20,449,382 23,958,674 27,719,997 166 Advances for gas. 167 Other advances for gas. 167 Other advances for gas. 171 Interest and dividends receivable. 172 Rents receivable. 173 Accrued utility revenues. 64,945,750 62,380,896 57,773,088 174 Miscellaneous current and accrued assets. - 2,108,594 4,015,983 175 Derivative Instrument Assets 20,426,000 3,041,000 9,726,000 176 Derivative Instrument Assets - Hedges (130,000) 4.06 2.0426,000 3,041,000 9,726,000 176 Derivative Instrument Assets - Hedges 181 Unamortized debt expense. 7,915,836 7,172,109 6,859,484 182.1 Extraordinary property losses. 182.2 Unrecovered plant and regulatory study costs. 18,000 18,000 18,000 18,000	154 Plant materials and operating supplies (Major only).	10,102,594	10,064,217	13,381,651	
163 Stores expense undistributed. 164.1 Gas stored - current. 38,746,875 32,907,852 26,164,527 164.2 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 164.3 Liquefied natural gas held for processing. 20,449,382 23,958,674 27,719,997 166 Advances for gas exploration, development, and production. 20 23 20 2		924,116	863,669	879,463	
164.1 Gas stored - current. 38,746,875 32,907,852 26,164,527 164.2 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 164.3 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 164.3 Liquefied natural gas held for processing. 20,449,382 23,958,674 27,719,997 166 Advances for gas exploration, development, and production. 20,449,382 23,958,674 27,719,997 166 Advances for gas. 171 Interest and dividends receivable. 57,773,088 171 Interest and dividends receivable. 20,426,000 3,041,000 9,726,000 173 Accrued utility revenues. 64,945,750 62,380,896 57,773,088 174 Miscellaneous current and accrued assets. - 2,108,594 4,015,983 175 Derivative Instrument Assets 9,020,426,000 3,041,000 9,726,000 176 Derivative Instrument Assets - Hedges 130,000) 4 4 4.016,read Debits 181 Unamortized debt expense. 7,915,836 7,172,109 6,859,484 182.2 Unrecovered plant and regulatory study costs. 182.2 Unrecovered plant and regulatory study costs. 181,000 181,000 182.2 Unrecovered plant and					
164.2 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 164.3 Liquefied natural gas held for processing. 20,449,382 23,958,674 27,719,997 166 Advances for gas exploration, development, and production. 20,449,382 23,958,674 27,719,997 166 Advances for gas exploration, development, and production. 40,000 40,000 40,000 167 Other advances for gas. 171 Interest and dividends receivable. 50,000 57,773,088 171 Interest receivable. 21,045,570 62,380,896 57,773,088 174 Miscellaneous current and accrued assets. - 2,108,594 4,015,983 175 Derivative Instrument Assets 20,426,000 3,041,000 9,726,000 176 Derivative Instrument Assets - Hedges (130,000) 4.065,994 4.015,983 181 Unamortized debt expense. 7,915,836 7,172,109 6,859,484 182.2 Unrecovered plant and regulatory study costs. 182.2 Unrecovered pla		20 740 075	22 007 852	26 164 527	
164.3 Liquefied natural gas held for processing. 165 Prepayments. 20,449,382 23,958,674 27,719,997 166 Advances for gas exploration, development, and production. 167 Other advances for gas. 171 176 Other advances for gas. 171 Interest and dividends receivable. 172 177 Rents receivable. 173 Accrued utility revenues. 64,945,750 62,380,896 57,773,088 174 Miscellaneous current and accrued assets. - 2,108,594 4,015,983 175 Derivative Instrument Assets 20,426,000 3,041,000 9,726,000 176 Derivative Instrument Assets - Hedges (130,000) 161 161 181 Unamortized debt expense. 7,915,836 7,172,109 6,859,484 182.2 Unrecovered plant and regulatory study costs. 182.2 Unrecovered plant and regulatory study costs. 181 181 Unamortized blat and regulatory study costs.					
165 Prepayments. 20,449,382 23,958,674 27,719,997 166 Advances for gas exploration, development, and production. 167 Other advances for gas. 171 Interest and dividends receivable. 172 Rents receivable. 173 Accrued utility revenues. 64,945,750 62,380,896 57,773,088 174 Miscellaneous current and accrued assets. - 2,108,594 4,015,983 175 Derivative Instrument Assets 20,426,000 3,041,000 9,726,000 176 Derivative Instrument Assets - Hedges (130,000) 161 4. Deferred Debits 181 Unamortized debt expense. 7,915,836 7,172,109 6,859,484 182.2 Unrecovered plant and regulatory study costs. 182.2 Unrecovered plant and regulatory study costs. 181 Unamortized blat and regulatory study costs. 181 Unamortized blat and regulatory study costs. 182.2 Unrecovered plant and regulatory study costs. 182.2 Unrecovered plant and regulatory study costs.		5,565,501	5,741,745	3,700,550	
167 Other advances for gas. 171 Interest and dividends receivable. 172 Rents receivable. 173 Accrued utility revenues. 174 Miscellaneous current and accrued assets. 175 Derivative Instrument Assets 20,426,000 3,041,000 4 Deferred Debits 181 Unamortized debt expense. 182.2 Unrecovered plant and regulatory study costs.		20,449,382	23,958,674	27,719,997	
171 Interest and dividends receivable. 172 Rents receivable. 173 Accrued utility revenues. 173 Accrued utility revenues. 174 Miscellaneous current and accrued assets. 175 Derivative Instrument Assets 176 Derivative Instrument Assets - Hedges 177 Abstructurent Assets - Hedges 181 Unamortized debt expense. 182.2 Unrecovered plant and regulatory study costs.		. ,		. ,	
172 Rents receivable. 173 Accrued utility revenues. 64,945,750 62,380,896 57,773,088 174 Miscellaneous current and accrued assets. - 2,108,594 4,015,983 175 Derivative Instrument Assets 20,426,000 3,041,000 9,726,000 176 Derivative Instrument Assets - Hedges (130,000) - - 4. Deferred Debits - - - 181 Unamortized debt expense. 7,915,836 7,172,109 6,859,484 182.2 I Extraordinary property losses. - - - 182.2 Unrecovered plant and regulatory study costs. - - -	167 Other advances for gas.				
173 Accrued utility revenues. 64,945,750 62,380,896 57,773,088 174 Miscellaneous current and accrued assets. - 2,108,594 4,015,983 175 Derivative Instrument Assets 20,426,000 3,041,000 9,726,000 176 Derivative Instrument Assets - Hedges (130,000) - - 4. Deferred Debits 7,915,836 7,172,109 6,859,484 182.1 Extraordinary property losses. - - - 182.2 Unrecovered plant and regulatory study costs. - - -					
174 Miscellaneous current and accrued assets. - 2,108,594 4,015,983 175 Derivative Instrument Assets 20,426,000 3,041,000 9,726,000 176 Derivative Instrument Assets - Hedges (130,000) 176 176 4. Deferred Debits 7,915,836 7,172,109 6,859,484 182.1 Extraordinary property losses. 182.2 Unrecovered plant and regulatory study costs. 177 172,109			63 200 000	E7 772 000	
175 Derivative Instrument Assets 20,426,000 3,041,000 9,726,000 176 Derivative Instrument Assets - Hedges (130,000) 100 100 4. Deferred Debits 7,915,836 7,172,109 6,859,484 182.1 Extraordinary property losses. 182.2 Unrecovered plant and regulatory study costs. 100 100	•	64,945,750			
176 Derivative Instrument Assets - Hedges(130,000)4. Deferred Debits7,915,8367,172,1096,859,484181 Unamortized debt expense.7,915,8367,172,1096,859,484182.1 Extraordinary property losses.82.2 Unrecovered plant and regulatory study costs.6,859,484		20,426.000			
4. Deferred Debits7,915,8367,172,1096,859,484181 Unamortized debt expense.7,915,8367,172,1096,859,484182.1 Extraordinary property losses.82.2 Unrecovered plant and regulatory study costs.6,859,484			_,,,		
182.1 Extraordinary property losses. 182.2 Unrecovered plant and regulatory study costs.	-				
182.2 Unrecovered plant and regulatory study costs.		7,915,836	7,172,109	6,859,484	
102.0 Girlor rogulatory abouts. 45,047,304 22,200,324 21,402,172		13 017 094	22 200 524	21 102 172	
	102.0 Other regulatory assets.	43,047,384	22,200,324	21,402,172	

400 4 Destining a stand and survey and investigation shares				
 183.1 Preliminary natural gas survey and investigation charges. 183.2 Other preliminary survey and investigation charges. 	15,080	351,235	309,011	
184 Clearing accounts.	10,000	237,192	398,385	
185 Temporary facilities.				
186 Miscellaneous deferred debits.	348,569,715	379,132,163	389,388,768	
187 Deferred losses from disposition of utility plant.				
188 Research, development, and demonstration expenditures. 189 Unamortized loss on reacquired debt.	2,473,832	2,117,564	1,808,092	
190 Accumulated deferred income taxes.	_,,	_,,	_,,	
191 Unrecovered purchased gas costs.	(2,156,449)	(19,277,807)	(4,864,721)	
200-299 Liabilities and Other Credits.				
5. Proprietary Capital	(447 (22 404)	(454 202 000)	(220.000.400)	
201 Common stock issued. 202 Common stock subscribed.	(447,633,104)	(451,282,098)	(228,868,408)	
203 Common stock liability for conversion.				
204 Preferred stock issued.			(1)	
205 Preferred stock subscribed.				
206 Preferred stock liability for conversion.				
207 Premium on capital stock. 208 Donations received from stockholders.				
209 Reduction in par or stated value of capital stock.				
210 Gain on resale or cancellation of reacquired capital stock.	(1,649,864)	(1,649,864)	(1,649,864)	
211 Miscellaneous paid-in capital.				
212 Installments received on capital stock.	(24,333)	(51,283)	(51,579)	
213 Discount on capital stock.	4 4 2 2 2 2 2			
214 Capital stock expense. 215 Appropriated retained earnings.	4,120,800	4,118,163	4,118,163	
216 Unappropriated retained earnings.	(442,145,578)	(453,862,896)	(472,303,081)	
216.1 Unappropriated undistributed subsidiary earnings.	35,758,812	39,698,388	(1,723,137)	
217 Reacquired capital stock.				
219 Accumulated Other Comprehensive Income	6,950,693	8,437,839	7,187,559	
6. Long-Term Debt	(726 700 000)	(786 700 000)	(720,700,000)	
221 Bonds. 222 Reacquired bonds.	(726,700,000)	(786,700,000)	(739,700,000)	
223 Advances from associated companies.				
224 Other long-term debt.				
225 Unamortized premium on long-term debt.				
226 Unamortized discount on long-term debt - Debit.				
 Other Noncurrent Liabilities. 227 Obligations under capital leases - noncurrent. 	(1,302)			
228.1 Accumulated provision for property insurance.	(214,000)	(154,000)	(49,000)	
228.2 Accumulated provision for injuries and damages.	(105,581,286)	(110,501,943)	(97,813,193)	
228.3 Accumulated provision for pensions and benefits.	(246,639,501)	(244,476,672)	(243,230,414)	
228.4 Accumulated miscellaneous operating provisions.				
229 Accumulated provision for rate refunds.				
8. Current and Accrued Liabilities 231 Notes payable.	(53,300,000)	(54,199,996)	(217,500,000)	
232 Accounts payable.	(83,472,534)	(108,414,210)	(113,505,529)	
233 Notes payable to associated companies.				
234 Accounts payable to associated companies.	(9,635,034)	(22,115,481)	(20,521,744)	
235 Customer deposits.	(5,538,638)	(5,087,361)	(4,994,176)	
236 Taxes accrued. 237 Interest accrued.	(12,114,133) (5,965,876)	(18,843,587)	(10,989,713)	
237 Interest accrued.	(5,905,870)	(6,773,318)	(7,272,799)	
239 Matured long-term debt.				
240 Matured interest.				
241 Tax collections payable.	(4,885,736)	(5,779,961)	(5,681,850)	
242 Miscellaneous current and accrued liabilities.	(21,861,114)	(26,390,275)	(39,688,332)	
243 Obligations under capital leases - current. 244 Derivative Instrument Liabilities	1,302 (2,098,000)	(23,371,000)	(15,406,000)	
245 Derivative Instrument Liabilities - Hedges	(130,000)	(23,371,000)	(13,400,000)	
9. Deferred Credits				
252 Customer advances for construction.	(3,740,828)	(3,965,149)	(4,410,555)	
253 Other deferred credits.	(7,142,848)	(7,323,027)	(32,686,031)	
254 Other regulatory liabilities.	(32,969,672)	(230,410,020)	(253,954,660)	
255 Accumulated deferred investment tax credits. 256 Deferred gains from disposition of utility plant.	(3,983)	(2)	(2)	
250 Delened gains non disposition of duity plant. 257 Unamortized gain on reacquired debt.				
281 Accumulated deferred income taxes - Accelerated amortization property.				
282 Accumulated deferred income taxes - Other property.				
283 Accumulated deferred income taxes - Other.	(511,259,117)	(288,303,953)	(298,906,395)	
300-399 Plant Accounts.				
1 Intangible Plant				
1. Intangible Plant 301 Organization.	1.174	1.174	1.174	
 Intangible Plant Organization. Franchises and consents. 	1,174 83,621	1,174 83,621	1,174 83,621	

202 Missellansova integrible plant	00 500 420		117.007.700
303 Miscellaneous intangible plant. 2. Production Plant	99,590,430	105,175,574	117,067,790
a. manufactured gas production plant			
304 Land and land rights.	24,998	24,998	24,998
305 Structures and improvements.	68,063	68,063	68,063
306 Boiler plant equipment. 307 Other power equipment.			
308 Coke ovens.			
309 Producer gas equipment.			
310 Water gas generating equipment.			
311 Liquefied petroleum gas equipment.	8,242	8,242	8,242
312 Oil gas generating equipment. 313 Generating equipment - Other processes.			
314 Coal, coke, and ash handling equipment.			
315 Catalytic cracking equipment.			
316 Other reforming equipment.			
317 Purification equipment.	200.447	200 447	200 447
318 Residual refining equipment. 319 Gas mixing equipment.	388,447 185,448	388,447 185,448	388,447 185,448
320 Other equipment.	105,448	185,448	105,440
b. natural gas production plant			
B.1. Natural Gas Production and Gathering Plant			
325.1 Producing lands.			
325.2 Producing leaseholds. 325.3 Gas rights.			
325.4 Rights-of-way.			
325.5 Other land and land rights.			
326 Gas well structures.			
327 Field compressor station structures.			
328 Field measuring and regulating station structures. 329 Other structures.			
330 Producing gas wells - Well construction.			
331 Producing gas wells - Well equipment.			
332 Field lines.			
333 Field compressor station equipment.			
334 Field measuring and regulating station equipment. 335 Drilling and cleaning equipment.			
336 Purification equipment.			
337 Other equipment.			
338 Unsuccessful exploration and development costs.			
B.2. Products Extraction Plant			
340 Land and land rights. 341 Structures and improvements.			
342 Extraction and refining equipment.			
343 Pipe lines.			
344 Extracted product storage equipment.			
345 Compressor equipment. 346 Gas measuring and regulating equipment.			
347 Other equipment.			
3. Natural Gas Storage and Processing Plant			
a. underground storage plant			
350.1 Land.	106,549	106,549	106,549
350.2 Rights-of-way. 350.3 North Mist Expansion Project Rights-of-way.	109,625	109,625	109,625
350.4 North Mist Expansion Project Land			
351 Structures and improvements.	7,208,245	7,382,069	8,631,863
351.1 North Mist Expansion Project Structures and Improvements			
352 Wells.	20,047,076	20,047,076	23,261,814
352.1 Storage leaseholds and rights. 352.2 Reservoirs.	3,938,491 7,272,553	3,938,491 7,272,553	3,938,491 7,272,553
352.3 Nonrecoverable natural gas.	6,440,890	6,440,890	6,440,890
352.4 North Mist Expansion Project Wells			
352.5 North Mist Expansion Project Storage Leaseholds & Rights			
352.6 North Mist Expansion Project Reservoirs			
352.7 North Mist Expansion Project Nonrecoverable natural gas 353 Lines.	6,552,220	6,552,220	7,274,713
353.1 North Mist Expansion Project Lines	-,,-20	-,	, ,, ==
354 Compressor station equipment.	31,351,812	31,352,716	31,352,716
354.7 North Mist Expansion Project Compressor Station Equipment	7 004 400	7 400 407	7 400 407
355 Measuring and regulating equipment. 355.1 North Mist Expansion Project Measuring/Regulating Equipment	7,284,199	7,408,127	7,408,127
356 Purification equipment.	297,363	297,363	363,606
357 Other equipment.	1,332,029	1,332,029	2,357,694
b. other storage plant			
360 Land and land rights.	726,830	726,830	726,830

361 Structures and improvements.	12,669,192	15,109,357	22,554,796
362 Gas holders.	10,108,669	10,484,768	10,484,768
363 Purification equipment.		,,	,,.
363.1 Liquefaction equipment.	10,475,375	14,034,083	18,902,862
363.2 Vaporizing equipment.	6,361,008	8,198,431	8,198,431
363.3 Compressor equipment.	3,693,337	4,547,618	4,804,214
363.4 Measuring and regulating equipment.	1,362,034	12,741,667	13,323,478
363.5 Other equipment.	3,051,295	3,051,295	3,051,295
c. base load liquefied natural gas terminaling and processing plant	739,473	739,473	739,473
364.1 Land and land rights .			
364.2 Structures and improvements.			
364.3 LNG processing terminal equipment.			
364.4 LNG transportation equipment.			
364.5 Measuring and regulating equipment.			
364.6 Compressor station equipment.			
364.7 Communication equipment.			
364.8 Other equipment.			
4. Transmission Plant			
365.1 Land and land rights.	89,772	89,772	1,015,597
365.2 Rights-of-way.	6,455,177	6,455,177	6,455,177
365.3 North Mist Expansion Project Land Rights			
366 Structures and improvements.	1,546,073	1,546,073	1,546,073
367 Mains.	307,474,014	310,664,269	325,504,075
368 Compressor station equipment.	307,474,014	510,004,205	525,504,075
	2 000 5 40	2 0 0 0 5 40	2 0 0 0 5 4 0
369 Measuring and regulating station equipment.	3,969,549	3,969,549	3,969,549
370 Communication equipment.			
371 Other equipment.			
5. Distribution Plant			
374 Land and land rights.	1,969,535	1,969,535	1,971,921
375 Structures and improvements.	1,398,111	1,417,773	1,519,558
376 Mains.	1,095,877,132	1,137,607,703	1,194,895,799
377 Compressor station equipment.	818,380	818,380	818,380
378 Measuring and regulating station equipment - General.	33,450,398	34,412,772	37,114,821
379 Measuring and regulating station equipment - City gate check stations.	7,514,713	10,845,581	13,707,266
380 Services.	737,144,683	768,541,097	800,894,952
381 Meters.	128,767,508	132,261,941	138,471,208
382 Meter installations.	69,239,916	70,585,402	71,741,762
383 House regulators.	1,678,311	1,871,924	2,203,738
384 House regulatory installations.			
385 Industrial measuring and regulating station equipment.			
386 Other property on customers' premises.	-	1,100,432	1,303,646
387 Other equipment.	342,954	342,954	342,954
	542,554	542,954	342,934
6. General Plant			
389 Land and land rights.	10,767,907	10,767,907	10,767,907
390 Structures and improvements.	78,653,964	79,673,499	90,779,799
391 Office furniture and equipment.	32,483,479	37,855,484	35,263,826
392 Transportation equipment.	38,658,205	42,561,613	46,746,329
393 Stores equipment.	119,406	119,406	119,406
394 Tools, shop and garage equipment.	9,887,393	11,859,950	13,169,801
395 Laboratory equipment.	68,293	68,293	277
396 Power operated equipment.	9,040,188	10,044,972	11,256,429
397 Communication equipment.	9,104,657	10,310,659	4,997,761
398 Miscellaneous equipment.	187,793	187,793	108,906
399 Other tangible property.			
400-432, 434-435 Income Accounts.			
1. Utility Operating Income			
operating expenses			
400 Operating revenues.			
401 Operation expense.			
402 Maintenance expense.	76 200 600	70 700 705	00 700 000
403 Depreciation expense.	76,288,699	79,733,795	83,732,032
404.1 Amortization and depletion of producing natural gas land and land rights.			
404.2 Amortization of underground storage land and land rights.			
404.3 Amortization of other limited-term gas plant.			
405 Amortization of other gas plant.			
406 Amortization of gas plant acquisition adjustments.			
407.1 Amortization of property losses, unrecovered plant and regulatory study costs.			
407.2 Amortization of conversion expense.			
407.3 Regulatory debits.	13,298,002	15,291,409	11,127,377
	13,230,002	13,291,409	11,127,377
407.4 Regulatory credits.			
408 [Reserved]			
408.1 Taxes other than income taxes, utility operating income.	45,675,819	49,004,406	48,709,075
409 [Reserved]			
409.1 Income taxes, utility operating income.	15,772,899	21,453,371	9,440,271
410 [Reserved]			

RG 37 - NWN's 2019 Annual Report FERC Chart of Accts Pre-Closing Trial Balance Page 5 of 16

(21,848,308)

410.1 Provision for deferred income taxes, utility operating income.	45,245,865	58,229,567	37,215,916	
411 [Reserved]	(24, 252, 252)	(00 ==0 =00)	(0.0.000-000)	
411.1 Provision for deferred income taxes - Credit, utility operating income. 411.3 [Reserved]	(21,966,966)	(38,750,782)	(26,037,795)	
411.4 Investment tax credit adjustments, utility operations.	(43,583)	(3,981)		
411.6 Gains from disposition of utility plant.				
411.7 Losses from disposition of utility plant. Total utility operating expenses.				
other operating income				
412 Revenues from gas plant leased to others.				
413 Expenses of gas plant leased to others. 414 Other utility operating income. Net utility operating income.				
2. Other Income and Deductions				
a. other income				
415 Revenues from merchandising, jobbing and contract work.	(5,164,002)	(5,641,506)	(5,631,537)	
416 Costs and expenses of merchandising, jobbing and contract work.	5,073,484	5,492,608	5,483,291	
417 Revenues from nonutility operations. 417.1 Expenses of nonutility operations.	(30,226,415) 14,979,583	(29,937,459) 15,525,969	(37,537,508) 20,496,890	
418 Nonoperating rental income.	(467,099)	(430,848)	(1,122,624)	
418.1 Equity in earnings of subsidiary companies.	3,939,576	127,342,694	1,723,137	
419 Interest and dividend income.	(776,187)	(3,932,693)	(3,962,217)	
419.1 Allowance for other funds used during construction.	-	(2,601,368)	(3,964,151)	
421 Miscellaneous nonoperating income.	(48,406)	(42,438)	(159,048)	
421.1 Gain on disposition of property. Total other income. b. other income deductions				
421.2 Loss on disposition of property.				
425 Miscellaneous amortization.				
426 [Reserved]				
426.1 Donations.	1,166,216	1,020,825	1,107,144	
426.2 Life insurance.	(1,696,962)	(2,492,693)	(1,682,347)	
426.3 Penalties. 426.4 Expenditures for certain civic, political and related activities.	5 1,272,927	400 1,135,662	1,232,171	
426.5 Other deductions. Total other income deductions. Total other income and deductions.	236,764	58,035	51,252	
c. taxes applicable to other income and deductions		,	,	
408.2 Taxes other than income taxes, other income and deductions.	655,905	681,501	712,140	
409.2 Income taxes, other income and deductions.	2,988,677	3,806,056	3,532,653	
410.2 Provision for deferred income taxes, other income and deductions.	2,453,227	(2,415,299)	927,469	
411.2 Provision for deferred income taxes - Credit, other income and deductions. 411.5 Investment tax credit adjustments, nonutility operations.	(843,924)	(182,373)	(63,824)	
420 Investment tax credits. Total taxes on other income and deductions. Net other income and	d deductions.			
3. Interest Charges				
427 Interest on long-term debt.	34,508,090	36,808,658	36,998,114	
428 Amortization of debt discount and expense.	1,314,276	1,660,650	1,693,322	
428.1 Amortization of loss on reacquired debt. 429 Amortization of premium on debt - Credit.	356,268	356,268	309,472	
429 Amortization of plemium on debt - Credit. 429.1 Amortization of gain on reacquired debt - Credit.				
430 Interest on debt to associated companies.				
431 Other interest expense.	2,421,401	1,299,074	2,904,881	
432 Allowance for borrowed funds used during construction - Credit. Net interest charges.	(463,904)	(2,494,702)	(4,796,752)	
4. Extraordinary Items				
434 Extraordinary income. 435 Extraordinary deductions.				
409.3 Income taxes, extraordinary items. Net income				
433, 436-439 Retained Earnings Accounts.				
Retained Earnings Chart of Accounts				
433 Balance transferred from income.				
436 Appropriations of retained earnings. 437 Dividends declared - preferred stock.				
437 Dividends declared - preferred stock. 438 Dividends declared - common stock.	51,624,740	54,288,736	41,034,756	
439 Adjustments to retained earnings.	51,62 1,7 10	3 1,200,700	12,00 1,7 00	
480-499 Revenue Accounts.				
1. Sales of Gas				
480 Residential sales.	(400,892,165)	(458,762,939)	(407,940,700)	
481 Commercial and industrial sales.	(238,071,859)	(274,611,130)	(241,293,260)	
482 Other sales to public authorities. 483 Sales for resale.				
484 Interdepartmental sales.				
485 Intracompany transfers.				
2. Other Operating Revenues				
487 Forfeited discounts.	(2,000,024)	(2,205,197)	(2,015,349)	
488 Miscellaneous service revenues. 489.1 Revenues from transportation of gas of others through gathering facilities.	(1,098,870)	(1,153,004)	(1,380,755)	

489.1 Revenues from transportation of gas of others through gathering facilities. 489.2 Revenues from transportation of gas of others through transmission facilities. (19,876,956) (20,351,015)

489.3 Revenues from transportation of gas of others through distribution facilities.

489.4 Revenues from storing gas of others.

490 Sales of products extracted from natural gas.

491 Revenues from natural gas processed by others.			
492 Incidental gasoline and oil sales.			
493 Rent from gas property.	(385,832)	(241,126)	(190,377)
494 Interdepartmental rents.	(5.261.270)	5 242 442	7 224 000
495 Other gas revenues. 496 Provision for rate refunds	(5,261,370)	5,313,442	7,234,096
700-899 Production, Transmission and Distribution Expenses.			
1. Production Expenses			
a. manufactured gas production			
d. other gas supply expenses			
Operation			
800 Natural gas well head purchases.			
800.1 Natural gas well head purchases, intracompany transfers.			
801 Natural gas field line purchases.	13,643,305	12,678,362	13,744,039
802 Natural gas gasoline plant outlet purchases.			
803 Natural gas transmission line purchases.	242 470 001		252 800 428
804 Natural gas city gate purchases. 804.1 Liquefied natural gas purchases.	243,476,981	295,674,576	253,809,428
805 Other gas purchases.			
805.1 Purchased gas cost adjustments.	(12,185,671)	15,160,198	(16,914,611)
806 Exchange gas.	(,,,		())
807 Purchased gas expenses.			
808.1 Gas withdrawn from storage - Debt.	23,171,389	19,821,527	15,070,769
808.2 Gas delivered to storage - Credit.	(7,296,582)	(18,093,918)	(9,783,155)
809.1 Withdrawals of liquefied natural gas held for processing - Debt.			
809.2 Deliveries of natural gas for processing - Credit.			
810 Gas used for compressor station fuel - Credit.			
811 Gas used for products extraction - Credit.	(224,000)	(224.045)	(100, 107)
812 Gas used for other utility operations - Credit.	(221,009)	(221,845)	(183,467)
813 Other gas supply expenses. 2. Natural Gas Storage, Terminaling and Processing Expenses			
a. underground storage expenses			
814 Operation supervision and engineering.			
815 Maps and records.			
816 Wells expenses.	312,486	286,568	294,860
817 Lines expenses.			
818 Compressor station expenses.	52,084	81,899	90,747
040 Company station field and newsr			
819 Compressor station fuel and power.			
820 Measuring and regulating station expenses.	1,808,684	1,948,927	2,285,568
820 Measuring and regulating station expenses. 821 Purification expenses.	1,808,684 79,791	1,948,927 32,269	2,285,568 11,648
820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development.			
820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses.			
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 			
820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses.			
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 			
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. 			
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 			
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 			
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of lines. 	79,791	32,269 284,043	11,648 201,913
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of lines. 834 Maintenance of compressor station equipment. 	79,791	32,269	11,648
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of lines. 833 Maintenance of compressor station equipment. 835 Maintenance of measuring and regulating station equipment. 	79,791	32,269 284,043	11,648 201,913
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 833 Maintenance of lines. 834 Maintenance of compressor station equipment. 835 Maintenance of measuring and regulating station equipment. 836 Maintenance of purification equipment. 	79,791	32,269 284,043	11,648 201,913
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of lines. 834 Maintenance of compressor station equipment. 835 Maintenance of purification equipment. 836 Maintenance of other equipment. 837 Maintenance of other equipment. 	79,791	32,269 284,043	11,648 201,913
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of compressor station equipment. 835 Maintenance of measuring and regulating station equipment. 836 Maintenance of other equipment. 837 Maintenance of other equipment. b. other storage expenses 	79,791	32,269 284,043	11,648 201,913
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of lines. 834 Maintenance of compressor station equipment. 835 Maintenance of purification equipment. 836 Maintenance of other equipment. 837 Maintenance of other equipment. 	79,791	32,269 284,043	11,648 201,913
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of ines. 834 Maintenance of measuring and regulating station equipment. 835 Maintenance of other equipment. 836 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of ines. 834 Maintenance of measuring and regulating station equipment. 835 Maintenance of other equipment. 836 Maintenance of purification equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of an equipment. 837 Maintenance of other equipment. 840 Operation supervision and engineering. 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of measuring and regulating station equipment. 835 Maintenance of purification equipment. 836 Maintenance of other equipment. 837 Maintenance of other equipment. 840 Operation 840 Operation supervision and engineering. 841 Operation labor and expenses. 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance of structures and improvements. 833 Maintenance of structures and wells. 833 Maintenance of reservoirs and wells. 833 Maintenance of compressor station equipment. 835 Maintenance of measuring and regulating station equipment. 836 Maintenance of other equipment. 837 Maintenance of and engineering. 840 Operation supervision and engineering. 841 Operation labor and expenses. 842 Rents. 842. Power. 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of compressor station equipment. 835 Maintenance of measuring and regulating station equipment. 836 Maintenance of other equipment. 837 Maintenance of and engineering. 841 Operation supervision and engineering. 842 Pents. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of reservoirs and wells. 833 Maintenance of measuring and regulating station equipment. 836 Maintenance of other equipment. 837 Maintenance of and engineering. 840 Operation supervision and engineering. 841 Operation labor and expenses. 842 Rents. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. Maintenance 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of compressor station equipment. 836 Maintenance of purification equipment. 837 Maintenance of other equipment. 836 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of and engineering. 840 Operation supervision and engineering. 841 Operation labor and expenses. 842 Rents. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. Maintenance 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of reservoirs and wells. 834 Maintenance of measuring and regulating station equipment. 835 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 840 Operation supervision and engineering. 841 Operation labor and expenses. 842 Rents. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. Maintenance 843.1 Maintenance supervision and engineering. 843.1 Maintenance of structures and improvements. 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of reservoirs and wells. 834 Maintenance of reservoirs and vells. 835 Maintenance of measuring and regulating station equipment. 836 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of and engineering. 840 Operation supervision and engineering. 841 Operation labor and expenses. 842 Rents. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. Maintenance 843.1 Maintenance supervision and engineering. 843.3 Maintenance of structures and improvements. 843.3 Maintenance of structures and improvements. 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of reservoirs and vells. 834 Maintenance of measuring and regulating station equipment. 835 Maintenance of other equipment. 836 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 840 Operation supervision and engineering. 841 Operation labor and expenses. 842 Rents. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. Maintenance 843.1 Maintenance of structures and improvements. 843.3 Maintenance of structures and engineering. 843.4 Maintenance of structures and engineering. 843.4 Maintenance of purification equipment. 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of reservoirs and wells. 834 Maintenance of reservoirs and vells. 835 Maintenance of measuring and regulating station equipment. 836 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of and engineering. 840 Operation supervision and engineering. 841 Operation labor and expenses. 842 Rents. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. Maintenance 843.1 Maintenance supervision and engineering. 843.3 Maintenance of structures and improvements. 843.3 Maintenance of structures and improvements. 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of compressor station equipment. 835 Maintenance of other equipment. 836 Maintenance of other equipment. 837 Maintenance of other equipment. 840 Operation supervision and engineering. 841 Operation labor and expenses. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. Maintenance of structures and improvements. 843.1 Maintenance supervision and engineering. 843.1 Maintenance of structures and improvements. 843.4 Maintenance of purification equipment. 843.4 Maintenance of purification engineering. 843.4 Maintenance of purification engineering. 843.4 Maintenance of purification engineering. 843.4 Maintenance of structures and improvements. 843.4 Maintenance of structures and improvements. 843.4 Maintenance of gas holders. 843.4 Maintenance of gas holders. 843.5 Maintenance of purification equipment. 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of compressor station equipment. 835 Maintenance of other equipment. 836 Maintenance of other equipment. 837 Maintenance of other equipment. 840 Operation supervision and engineering. 841 Operation labor and expenses. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. Maintenance 843.1 Maintenance of structures and improvements. 843.1 Maintenance of structures and improvements. 843.1 Maintenance of structures and engineering. 843.1 Maintenance of structures and improvements. 843.2 Adaintenance of structures and improvements. 843.3 Maintenance of gas holders. 843.4 Maintenance of gas holders. 843.5 Maintenance of purification equipment. 843.6 Maintenance of purification equipment. 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of lines. 833 Maintenance of compressor station equipment. 835 Maintenance of purification equipment. 836 Maintenance of other equipment. 837 Maintenance of structures and improvements. 838 Maintenance of the equipment. 837 Maintenance of the equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 840 Operation 840 Operation and engineering. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. Maintenance of structures and improvements. 843.4 Maintenance of structures and improvements. 843.3 Maintenance of gas holders. 843.4 Maintenance of gas holders. 843.4 Maintenance of liquefaction equipment. 843.5 Maintenance of liquefaction equipment. 843.6 Maintenance of proversion equipment. 843.7 Maintenance of proversion equipment. 843.6 Maintenance of operation equipment. 843.7 Maintenance of partification equipment. 843.8 Maintenance of operation equipment. 843.4 Maintenance of proversion equipment. 843.6 Maintenance of roporting equipment. 843.7 Maintenance of roporting equipment. 843.7 Maintenance of oppressor equipment. 843.6 Maintenance of oppressor equipment. 843.7 Maintenance of oppressor equipment. 843.6 Maintenance of oppressor equipment. 843.8 Maintenance of oppressor equipment.<td>79,791 152,055</td><td>32,269 284,043 39,360</td><td>11,648 201,913 260,829</td>	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of compressor station equipment. 835 Maintenance of compressor station equipment. 836 Maintenance of purification equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 840 Operation supervision and engineering. 841 Operation labor and expenses. 842 Rents. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. Maintenance of structures and improvements. 843.1 Maintenance of structures and improvements. 843.2 Maintenance of purification equipment. 843.3 Maintenance of structures and improvements. 843.4 Maintenance of purification equipment. 843.5 Maintenance of purification equipment. 843.6 Maintenance of structures and improvements. 843.8 Maintenance of purification equipment. 843.9 Maintenance of purification equipment. 843.1 Maintenance of purification equipment. 843.2 Maintenance of purification equipment. 843.4 Maintenance of purification equipment. 843.5 Maintenance of purification equipment. 843.6 Maintenance of purification equipment. 843.6 Maintenance of compressor equipment. 843.8 Maintenance of compressor equipment. 843.8 Maintenance of compressor equipment. 843.9 Maintenance of other equipment.<td>79,791 152,055</td><td>32,269 284,043 39,360</td><td>11,648 201,913 260,829</td>	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of foreservoirs and wells. 833 Maintenance of purification equipment. 835 Maintenance of purification equipment. 836 Maintenance of measuring and regulating station equipment. 837 Maintenance of other equipment. 837 Maintenance of the equipment. 838 Maintenance of the equipment. 837 Maintenance of the equipment. 838 Maintenance of the equipment. 839 Maintenance of the equipment. 840 Operation 840 Operation supervision and engineering. 841 Operation labor and expenses. 842 Rents. 842.1 Fuel. 842.2 Power. 843.1 Maintenance of gas holders. 843.2 Maintenance of gas holders. 843.3 Maintenance of purification equipment. 843.3 Maintenance of purification equipment. 843.4 Maintenance of purification equipment. 843.5 Maintenance of purification equipment. 843.6 Maintenance of gas holders. 843.4 Maintenance of purification equipment. 843.5 Maintenance of vaporizing equipment. 843.6 Maintenance of vaporizing equipment. 843.7 Maintenance of ormpressor equipment. 843.7 Maintenance of ormpressor equipment. 843.8 Maintenance of other equipment. 843.9 Maintenance	79,791	32,269 284,043 39,360 71,508	11,648 201,913 260,829 74,095
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of compressor station equipment. 835 Maintenance of compressor station equipment. 836 Maintenance of purification equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 840 Operation supervision and engineering. 841 Operation labor and expenses. 842 Rents. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. Maintenance of structures and improvements. 843.1 Maintenance of structures and improvements. 843.2 Maintenance of purification equipment. 843.3 Maintenance of structures and improvements. 843.4 Maintenance of purification equipment. 843.5 Maintenance of purification equipment. 843.6 Maintenance of structures and improvements. 843.8 Maintenance of purification equipment. 843.9 Maintenance of purification equipment. 843.1 Maintenance of purification equipment. 843.2 Maintenance of purification equipment. 843.4 Maintenance of purification equipment. 843.5 Maintenance of purification equipment. 843.6 Maintenance of purification equipment. 843.6 Maintenance of compressor equipment. 843.8 Maintenance of compressor equipment. 843.8 Maintenance of compressor equipment. 843.9 Maintenance of other equipment.<td>79,791 152,055</td><td>32,269 284,043 39,360</td><td>11,648 201,913 260,829</td>	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829

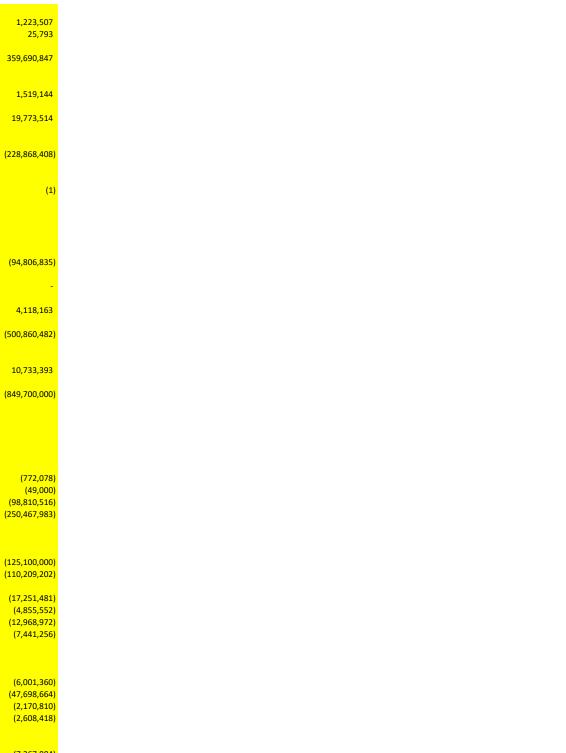
844.2 LNG processing terminal labor and expenses.			
844.3 Liquefaction processing labor and expenses.			
844.4 LNG transportation labor and expenses.			
844.5 Measuring and regulating labor and expenses.			
844.6 Compressor station labor and expenses. 844.7 Communication system expenses.			
844.8 System control and load dispatching.			
845.1 Fuel.			
845.2 Power.			
845.3 Rents.			
845.4 Demurrage charges.			
845.5 Wharfage receipts - credit.	-	(90,056)	(85,007)
845.6 Processing liquefied or vaporized gas by others.			
846.1 Gas losses.			
846.2 Other expenses.			
Maintenance			
847.1 Maintenance supervision and engineering.			
847.2 Maintenance of structures and improvements.	1,009,378	771,788	983,047
847.3 Maintenance of LNG processing terminal equipment.			
847.4 Maintenance of LNG transportation equipment.			
847.5 Maintenance of measuring and regulating equipment.			
847.6 Maintenance of compressor station equipment.			
847.7 Maintenance of communication equipment.			
847.8 Maintenance of other equipment.			
3. Transmission Expenses			
Operation			
850 Operation supervision and engineering.			
851 System control and load dispatching.			
852 Communication system expenses.			
853 Compressor station labor and expenses.			
854 Gas for compressor station fuel.			
855 Other fuel and power for compressor stations.	1 502 426	1,422,310	1 516 707
856 Mains expenses.	1,593,436	1,422,310	1,516,707
857 Measuring and regulating station expenses.			
858 Transmission and compression of gas by others. 859 Other expenses.			
860 Rents.			
Maintenance			
861 Maintenance supervision and engineering.			
862 Maintenance of structures and improvements.			
863 Maintenance of mains.	8,838	324,822	170,115
864 Maintenance of compressor station equipment.	0,000	02 1,022	1,0,110
865 Maintenance of measuring and regulating station equipment.			
866 Maintenance of communication equipment.			
867 Maintenance of other equipment.			
870 Operation supervision and engineering.	2,202,514	2,606,304	2,861,336
4. Distribution Expenses			, ,
Operation			
871 Distribution load dispatching.			
872 Compressor station labor and expenses.			
873 Compressor station fuel and power (Major only).			
874 Mains and services expenses.	7,031,554	7,833,278	9,028,992
875 Measuring and regulating station expenses - General.	(3,088)	50,561	(42,604)
876 Measuring and regulating station expenses - Industrial.			
877 Measuring and regulating station expenses - City gate check stations.	575,316	553,865	488,036
878 Meter and house regulator expenses.	5,083,679	5,382,954	5,425,942
879 Customer installations expenses.	5,921,555	6,399,826	7,556,905
880 Other expenses.	1,143,316	1,481,034	1,268,874
881 Rents.	212,407	228,854	215,389
Maintenance			
885 Maintenance supervision and engineering.	4,282,248	3,380,701	4,043,521
886 Maintenance of structures and improvements.			
887 Maintenance of mains.	2,814,316	2,702,659	2,862,835
888 Maintenance of compressor station equipment.			
889 Maintenance of measuring and regulating station equipment - General.	1,156,141	1,563,970	1,470,629
890 Maintenance of measuring and regulating station equipment - Industrial.			
891 Maintenance of measuring and regulating station equipment - City gate check stations.	169,641	188,375	222,873
892 Maintenance of services.	753,961	642,341	675,263
893 Maintenance of meters and house regulators.	2,223,427	2,522,985	2,534,777
894 Maintenance of other equipment.	21,545	23,971	68,315
900-949 Customer Accounts, Customer Service and Informational, Sales and General and	Administrative Expe	enses.	
5. Customer Accounts Expenses			
Operation			
901 Supervision.	1,230,942	1,313,468	1,449,870
902 Meter reading expenses.	757,932	832,116	876,768

903 Customer records and collection expenses.	15,319,519	16,157,912	16,074,368
904 Uncollectible accounts.	1,246,447	864,691	678,554
905 Miscellaneous customer accounts expenses.			
6. Customer Service and Informational Expenses			
Operation			
907 Supervision.	2,347	1,886	3,912
908 Customer assistance expenses.	288,080	467,102	1,251,734
909 Informational and instructional advertising expenses.	1,595,193	1,743,866	1,810,357
910 Miscellaneous customer service and informational expenses.	180,741	179,063	163,343
7. Sales Expenses			
Operation			
911 Supervision.	131,652	143,410	9,375
912 Demonstrating and selling expenses.	2,888,558	3,485,124	1,653,256
913 Advertising expenses.	359,822	401,650	443,839
914 [Reserved]			
915 [Reserved]			
916 Miscellaneous sales expenses.			
8. Administrative and General Expenses			
Operation			
920 Administrative and general salaries.	24,627,399	27,835,981	28,595,464
921 Office supplies and expenses.	17,931,470	19,806,564	20,819,120
922 Administrative expenses transferred - Credit.	(17,463,672)	(18,841,642)	(19,404,008)
923 Outside services employed.	8,152,582	10,066,928	12,034,227
924 Property insurance.	3,057,126	3,195,612	3,066,612
925 Injuries and damages.	369,181	409,798	333,852
926 Employee pensions and benefits.	29,324,780	30,314,906	34,073,322
927 Franchise requirements.			
928 Regulatory commission expenses.			
929 Duplicate charges - Credit.			
930.1 General advertising expenses.			
930.2 Miscellaneous general expenses.	2,889,711	2,631,840	2,853,582
931 Rents.	4,678,405	4,788,210	4,763,890
Maintenance			
932 Maintenance of general plant.	4,105,070	3,557,910	3,757,087

RG 37 - NWN's 2019 Annual Report FERC Chart of Accts Pre-Closing Trial Balance Page 9 of 16



RG 37 - NWN's 2019 Annual Report FERC Chart of Accts Pre-Closing Trial Balance Page 10 of 16



(7,367,884) (6,116,933) (236,912,097)

(316,577,835)

1,174 83,621

RG 37 - NWN's 2019 Annual Report FERC Chart of Accts Pre-Closing Trial Balance Page 11 of 16



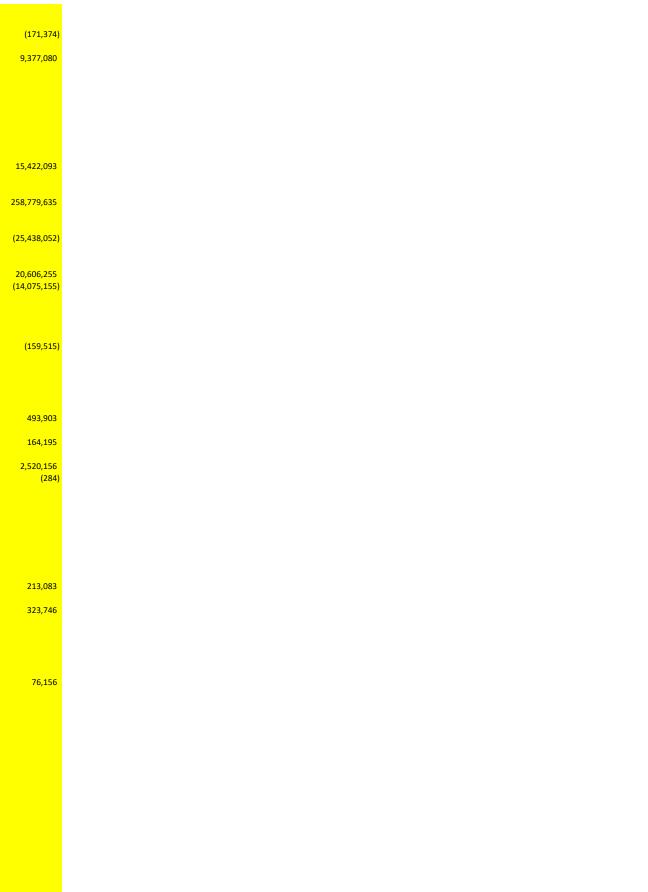
RG 37 - NWN's 2019 Annual Report FERC Chart of Accts Pre-Closing Trial Balance Page 12 of 16

22,795,423
10,484,768
10 100 015
19,123,945 8,198,431
8,198,431 4,804,214
13,440,544
3,051,295
739,473
1 015 507
1,015,597
6,455,177
538,142
1,546,073
401,971,974
3,969,549
5,909,549
1,971,954
1,519,558
1,253,447,423
818,380
38,325,632
16,201,552
837,805,413
146,180,983
73,703,163
2,419,652
1,162,110
342,954
11,652,361
95,162,798
47,359,861
51,660,779
119,406
14,397,767
12 5 40 0 40
12,540,849
12,403,965 108,903
108,903
89,414,896
89,414,890
12,336,840
,,
49,362,241

6,918,426

RG 37 - NWN's 2019 Annual Report FERC Chart of Accts Pre-Closing Trial Balance Page 13 of 16

CO 949 902	
60,848,892	
(56,029,969)	
(2)	
(5,500,680) 5,542,888	
(32,697,836)	
20,640,048 (531,803)	
-	
(2,052,440) (656,996)	
(33,037)	
1,281,112 (1,596,257)	
(1,590,257)	
1,012,855 13,156	
744,587 1,938,398	
(1,055,888)	
2,935	
39,441,347	
1,521,518 288,948	
200,040	
3,858,212	
(3,626,359)	
52,006,202	
(430,902,294)	
(248,547,943)	
(2,076,088) (1,318,010)	
(1,010,010)	
(22,513,550)	
(11,820,609)	



1,652,104

RG 37 - NWN's 2019 Annual Report FERC Chart of Accts Pre-Closing Trial Balance Page 15 of 16

(175,451
1,033,744
1,989,004
166,207
2,847,189
9,176,771
(106,858
609,033
5,665,100 7,498,710
1,033,460
212,302
3,197,131
2,561,718
1,610,369
187,161
627,763
2,826,459
35,113
1,646,260
955,140

RG 37 - NWN's 2019 Annual Report FERC Chart of Accts Pre-Closing Trial Balance Page 16 of 16

15,508,882 449,187	
4,464 1,027,301 2,118,069 193,529	
11,581 1,886,105	
295,487	
32,969,528	
17,312,345	
(19,619,015) 11,089,842	
3,239,827	
216,918	
68,707,526	
3,354,367	
4,706,138	

3,969,495

109 [Reserved] (78,041,739) (81,047,030) (83,059,998) 111 Accumulated provision for amortization and depletion of gas utility plant. (78,041,739) (81,047,030) (83,059,998) 112 [Reserved] 113.1-113.2 [Reserved] 23,066,105 28,885,855 34,857,379 114 Gas plant acquisition adjustments. 23,066,105 28,885,855 34,857,379 116 Other gas plant acquisition adjustments. 117.1 Gas stored-Base gas. 14,133,895 18,488,587 18,494,189 117.1 Gas stored in reservoirs and pipelines-noncurrent. 117.4 Gas stored in reservoirs for depreciatin and amortization of nonutility property. <th></th> <th></th> <th></th> <th></th>				
LUBi Park				
101 Cisplant in service. - - - 103 Repair uncleased or sold. - - - 103 Gas plant teles poll in functions of sold. - - - 103 Gas plant teles to othera. - - - - 104 Gas plant teles to othera. - - - - - 105 Computations with progress. 62,246,074 119,323,3767 (1,305,243,878) 02,049,7593 04,941,93 01,015,111,1112,1112,1114,1114,1114,1114,111				
10.1 Property under capital lesses. 102 Exage plant purposed or sold. 103 Experimental gas plant inclassified. 104 Experimental gas plant inclassified. 105 Experimental gas plant inclassified. 106 Experimental gas plant inclassified. 107 Experimental gas plant inclassified. 108 Experimental gas plant inclassified. 109 Experimental gas plant inclassified. 100 Experimental gas plant inclassified. 101 Experimental gas plant inclassified. 102 Experimental gas plant inclassified. 103 Experimental gas plant inclassified. 103 Experimental gas plant inclassified. 104 Experimental gas plant inclassified. 103 Experimental gas plant inclassified. 103 Experimental gas plant inclassified. 104 Experimental gas plant inclassified. 105 Experimental gas plant inclassified. 10	•			
102 Case pairs functional of rules use. 970,088 970,088 103 Experimental point induced for future use. 923,135 970,088 970,088 103 Experimental point induced for future use. 923,135 970,088 970,088 103 Experimental point induced for future use. 92,254,071 (15,350,213,177) (15,350,213,172) (15,173,173,173,173,173,173) (11,35,851,172,173,173,173,173,173,173,173,173) (11,35,851,172,173,173,173,173,173,173,173,173,173,173		-	-	-
101 Experimental gas plant under Sample 990.088 970.088 970.088 105 Gas plant based to othera: 923.155 970.068 970.088 105 Construction on classified - Cas. - - - - 106 Comprised construction on classified - Cas. -				
105 Gas plant held for luture use. 923,155 970.068 970.068 105 Comparison hold for luture use.				
105.1 Production properties Held for future use. 52,264,074 159,923,807 204,978,959 107 Construction work in progress - Gas. 62,264,074 159,923,807 12,05,723,878 108 [Reserved] 11,12,12 [Reserved] 113,113,2 [Reserved] 113,113,2 [Reserved] 113,113,2 [Reserved] 113,113,2 [Reserved] 113,113,2 [Reserved] 114,113,189 18,485,587 34,857,379 113,6,113,2 [Reserved] 114,113,189 18,485,587 18,494,189 113,113,2 [Reserved] 114,113,895 18,485,587 18,494,189 117,1 Gas store-Gene gas. 14,113,895 18,485,587 18,494,189 112 Norwality protons 67,258,603 60,113,165 12,138,413 52,653,735 49,921,908 123 Investment in suboidary companies. 290,518,132 152,179,422 105,523,463 13,02,657,975 123 Investment in suboidary companies. 1,930,567,973 1,930,533 54,524,143 52,523,7	•			
10E Completed construction not classified - Cas.		923,155	970,068	970,068
107 Construction work in programs - cas. 62,26,074 19,92,922 20,49,79,892 108 Reserved] (1,18,014,717) (1,250,333,767) (1,352,43,878) 117 In Scoundlated provision for amontization and depletion of gas utility plant. (7,80,41,793) (81,047,030) (83,057,978) 113.1-113.2 [Reserved] 1 <td></td> <td></td> <td></td> <td></td>				
108 Accumulated provision for depreciation of gas utility plant. (1.188,014,717) (1.250,333,767) (1.305,243,878) 111 Accumulated provision for amortization and depletion of gas utility plant. (7.80,41,739) (81,047,030) (83,059,998) 113 Intr32 [Reserved] 21,066,105 28,885,855 34,857,379 114 Gas plant adjustments. 21,066,105 28,885,855 34,857,379 117 Gas stored Save gas. 14,133,695 18,488,587 18,494,189 117 Gas stored Save gas. 14,133,695 18,488,587 18,494,189 117 Gas stored Save gas. 14,133,695 12,849,189 12,338,418 12,853,603 69,119,165 71,338,418 117 Gas stored Save gas. 10,171,355,6611 (12,171,432) 105,521,449 20,017,721 121 Normality property. 67,558,603 69,119,165 71,338,413 22,627,352 49,921,908 123 Interestrontin substitution comparises. 290,518,132 152,179,432 105,521,449 124 Other investrontin substitution comparises. 2,667,579 70,733 2,875,776 123 Interest special deposits. 1,910,852 1,930,318 4,850,774 13,5500 20,000 2,273,382		62.264.074	159.923.802	204.978.958
111 Accumulated provision for amonization and depletion of gas utility plant. (78,041,739) (81,047,030) (83,059,998) 112 (Reserved) 12 12 (Reserved) 12 12 (Reserved) 12 12 (Reserved) 12 1				(1,305,243,878)
11.1.1.1.1.2 [Reserved] 11.3.1.1.3.2 [Reserved] 11.3.1.1.3.2 [Reserved] 11.3.1.1.3.2 [Reserved] 11.4.1.3.2 [Reserved] 11.5.0.1.1.3.1.1.3.2 [Reserved] 11.5.0.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1				
113 113 26.865.00 28.85.850 34.857.379 114 Gas plant adjustments. 23.066.105 28.85.855 34.857.379 115 Accumulated provision for amorization of gas plant acquisition adjustments. 14.133.895 18.488.887 18.488.887 18.488.887 18.494.189 117.1 Gas stored-Bane gas. 14.133.895 18.488.887 18.494.189 17.436.300 18.498.857 18.494.189 17.436.300 18.498.857 18.494.189 17.436.300 18.498.857 18.498.183 18.498.587 18.498.193 12.499.193 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 105.52.148 12.001.3721 12.179.432 10.55.735 12.179.432 10.55.735		(78,041,739)	(81,047,030)	(83,059,998)
14 Gas plant acquisition adjustments. 23,066,05 28,885,855 34,857,379 116 Oher gas plant adjustments. 117 117 Gas stored provision for amountization of gas plant acquisition adjustments. 118 118,488,887 18,494,189 117. Gas stored in reservoirs and pipelines-noncurent. 117.3 Gas stored in reservoirs and pipelines-noncurent. 117.4 Gas stored in reservoirs and pipelines-noncurent. 117.4 Gas stored in reservoirs and pipelines-noncurent. 117.1 Gas stored in reservoirs and pipelines-noncurent. 20.00000000000000000000000000000000000				
115 Accumulated provision for amortization of gas plant acquisition adjustments. 117.1 Gas stored-Base gas. 14,133,895 18,488,587 18,494,189 117.2 System balancing gas. 14,133,895 18,488,587 18,494,189 117.3 Gas stored-Base gas. 14,133,895 18,488,587 18,494,189 117.4 Gas oved to system gas. 118 Other utility plant. 118 Other utility plant. 119 Accumulated provision for depreciation and amortization of other utility property. 67,258,603 69,119,165 7,138,418 129 Accumulated provision for depreciation and amortization of nonutility property. 127,395,661 (18,719,432) 105,582,148 120 Other investments. 290,518,132 152,179,432 105,582,148 123 Investment in subscience companies. 290,518,132 152,179,432 105,582,148 123 Other special funds. 2,102,00 2,047,00 128 121,179,432 105,582,148 124 Other special funds. 1,956,799 700,753 2,875,276 129,108 128 14,950,774 2,275,276 2,865,602 2,102,00 2,074,002 2,074,002 2,074,002 2,074,002 2,074,002 2,074,002 2,074,002 2,074,002 2,074,002 2,074,002		22.000 105	20.005.055	24.057.270
116 Other gas plant adjustments. 14,133,895 18,488,587 18,494,189 17.7 Gas strowed ne reservoirs and pipelines-noncurrent. 17.7 Gas strowed ne reservoirs and pipelines-noncurrent. 17.7 Gas strowed ne reservoirs and pipelines-noncurrent. 17.7 Gas strowed ne reservoirs and pipelines-noncurrent. 17.7 Gas strowed ne reservoirs and pipelines-noncurrent. 17.1 Gas strowed ne reservoirs and pipelines-noncurrent. 17.7 Gas strowed ne reservoirs and pipelines. 67,258,603 65,119,165 7,133,418 22. Accurrulated provision for depreciation and amortization of nonutility property. 67,258,603 (16,519,439) (20,013,772) 121. Investment in subsidiation companies. 290,518,132 122,179,432 19,558,21,48 122. Accurrulated provision for depreciation and amortization of nonutility property. (17,356,61) (15,519,439) (20,013,772) 123. Intrestment in subsidiation companies. 290,518,132 122,179,432 19,558,21,48 123. Other special deposits. 1,910,652 1,930,638 4,850,774 124. Other special deposits. 1,910,652 1,930,638 4,850,774 125. Unterest special deposits. 1,910,652 1,930,638 4,850,774 124. Other accounts receivable. 6,578,953 55,858,548 82,80		23,066,105	28,885,855	34,857,379
117.1 Gas stored-Base gas. 14,133,895 18,488,587 18,494,189 117.3 Cas stored in reservoirs and pipelines-noncurrent. 117.3 Gas stored in reservoirs and pipelines-noncurrent. 117.1 TA Gas could to system gas. 118.0 Oner utility pipert. 67,258,603 69,119,165 71,338,418 120 Accurrentiated provision for depreciation and amortization of other utility pipert. 67,258,603 69,119,165 71,338,418 121 Accurrentiated provision for depreciation and amortization of nonutility property. (17,355,661) (18,719,432) (105,582,148) 122 Accurrentiated provision for depreciation and amortization of nonutility property. (17,355,661) (12,719,432) 105,582,148 123 Investment in subciding roompanies. 290,518,132 122,179,432 105,582,148 124 Other investments. 54,581,443 52,653,755 49,921,908 125 Other investments. 1,910,552 2,975,276 13,930,838 4,850,77 121 Other apscial deposits. 1,910,852 1,930,838 4,850,77 121 Other apscial deposits. 1,910,852 1,930,838 4,850,77 121 Other apscial deposits. 1,910,852 2,574,352 6,148,203 124 Other apscial deposits. 1,930,856 2,000,2775				
117.2 System balancing gas. 117.3 Gas stored to reservices and pipelines-noncurrent. 117.4 Gas stored to reservices and pipelines-incurrent. 118 Oher sulfy part. 119 Accumulated provision for depreciation and amortization of nonutility property. 67,258,603 69,119,165 71,338,418 121 Nonutility property. 67,258,603 69,119,165 71,338,418 122 Accumulated provision for depreciation and amortization of nonutility property. (17,39,561) (12,71),432 (12,01,772) 123 Investment in subscitated companies. 54,518,143 52,55,735 (15,552,148 125 Sining funds. 14,001 spocial funds. 32,000 spocial funds. 32,000 spocial funds. 32,000 spocial funds. 3,000 spocial funds. <td></td> <td>14,133,895</td> <td>18,488,587</td> <td>18,494,189</td>		14,133,895	18,488,587	18,494,189
117.4 Gas owed to system gas. 118 Oher utility plant. 119 Accumulated provision for depreciation and amortization of other utility plant. 2. Other Property and Investments 121 Noturality property. 67,258,603 69,119,155 71,338,418 122 Accumulated provision for depreciation and amortization of nonutility property. (17,495,561) (12,4719,439) (12,013,772) 123.1 Investment in subsidiaty companies. 290,518,132 152,179,432 105,582,148 123.1 Unvestment in subsidiaty companies. 290,518,132 152,57,735 49,921,908 125.1 Sinking funds. 32,656,799 700,753 2,875,276 128.0 Depreciation fund. 1,956,799 700,753 2,875,276 129.1 Drivers special deposits. 1,910,852 1,330,838 4,850,774 131.0 Under special deposits. 1,910,852 1,330,838 4,850,774 132.1 Interest special deposits. 1,910,852 1,330,838 4,850,774 132.1 Unterest special deposits. 1,910,852 1,330,838 4,850,774 132.1 Unterest special deposits. 1,910,852 1,330,838 4,850,774 133.1 Unterest special deposits. 1,910,852 2,356,921	-	,,	-,,	-, - ,
118 Other utility plant. 129 Accumulated provision for depreciation and amortization of other utility plant. 121 Numulity property. (7,258,603 (6),119,165 71,338,418 122 Accumulated provision for depreciation and amortization of nonutility property. (17,355,661) (18,719,439) (20,013,772) 123 Investment in associated companies. 54,581,443 52,653,735 49,921,908 124 Other rivestments. 54,581,443 52,653,735 49,921,908 125 Dinking funds. 54,581,443 52,653,735 49,921,908 126 Other procestion fund. 1056,799 700,753 2,875,276 131 Cash. 1,910,852 1,930,838 4,850,774 132 Other special deposits. 1,910,852 1,930,838 4,850,774 133 Other special deposits. 1,910,852 1,273,822 2,875,275 134 Other special deposits. 1,910,852 1,273,822 2,875,275 135 Other accounts receivable. 3,856,921 2,574,132 2,273,822 141 Notes accounts receivable. 6,0578,933 58,458,488 58,209,024 142 Outpert special deposits. 1,210,276 (955,580) (975,367) <	117.3 Gas stored in reservoirs and pipelines-noncurrent.			
119 Accumulated provision for depreciation and amoritzation of other utility plant. 2. Other Property and Investments 67,258,603 69,119,165 71,338,418 121 Nonutility property. (17,395,661) (18,719,439) (20,013,772) 123. Investment in subsidiary companies. 290,518,132 152,179,432 105,582,148 124. Other investments. 52,653,735 49,921,908 125. Sinking funds. 52,653,735 49,921,908 126 Depreciation fund. 126 127,07,932 2,875,276 128 Depreciation fund. 1,910,852 1,930,838 4,850,774 131 Outher special deposits. 1,910,852 1,930,838 4,850,774 132 Divident special deposits. 1,910,852 1,930,838 4,850,774 133 Divident special deposits. 1,910,852 1,930,838 4,850,774 134 Other special deposits. 1,910,852 1,930,838 58,029,024 135 Working funds. 1,920,025 2,54,132 2,273,838 144 Other special deposits. 2,060,067 6,424,775 6,148,203 145 Other accounts receivable. 60,578,953 58,685,488 58,0290,024 144 Accumulat				
2. Other Property and Investments 7,258,603 69,115,165 7,138,418 121 Nonutility property. (17,395,661) (18,719,439) (20,013,772) 123 Investment in associated companies. 290,518,132 1152,179,432 105,582,148 124 Other investments. 54,581,443 52,653,735 49,921,908 125 Sinking funds. 2 152,179,432 105,582,148 126 Other investments. 54,581,443 52,653,735 49,921,908 126 Other investments. 54,581,443 52,653,735 49,922,908 126 Other investments. 54,056,799 700,753 2,875,276 121 Cachin. 1,956,679 700,753 2,875,276 123 Onvidend special deposits. 1,910,852 1,930,888 4,850,774 133 Ovidend special deposits. 1,910,852 1,930,888 4,850,774 134 Other accounts receivable. 1,910,852 1,930,888 4,850,774 135 Other accounts receivable. 1,910,852 1,930,888 58,209,024 134 Other accounts receivable. 6,0578,953 5,8655,488 58,209,024 <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
121 Nonuliity property. 67 258,083 69.119.165 71.338.418 122 Accurnal and provision for depreciation and amortization of nonulility property. (17,395,661) (18,719,439) (20,013,772) 123 Investment in subsidiary companies. 290.518,132 152,179,432 105,582,148 124 Other investments. 290.518,132 152,179,432 105,582,148 125 Sinking funds. 126 Depreciation fund. 128 Other special funds. 3 128 Other special deposits. 1,910,852 1,930,838 4,850,774 130 Dividend special deposits. 1,910,852 1,930,838 4,850,774 135 Working funds. 1,856,692 2,02,200 2,02,200 136 Temporary cash investments. 1,856,692 2,574,132 2,277,382 137 Other special deposits 3,536,921 2,574,132 2,277,382 138 Other accounts receivable. 60,578,953 58,685,488 58,209,074 139 Other accounts receivable. 60,578,953 58,685,488 58,209,074 134 Other accounts receivable. 60,578,953 58,685,488 58,209,074 134 Other accounts receivable. 60,578,953 58,685,488 58,209,078				
122 Accumulated provision for deprediation and amortization of nonutility property. (17,395,661) (18,719,439) (20,013,772) 123 Investment in subsidiary companies. 290,518,132 152,179,432 105,582,148 124 Other investments. 54,581,443 52,653,735 49,921,908 126 Depreciation fund. 128 Other special funds. 52,653,735 49,921,908 128 Other special funds. 1,056,799 700,753 2,875,276 131 Cash. 1,910,852 1,930,838 4,850,773 2,875,276 133 Uvidend special deposits. 1,910,852 1,930,838 4,850,774 132 134 Other special deposits. 1,910,852 1,930,838 4,850,774 132 2,273,382 143 Other accounts receivable. 2,574,132 2,773,382 143 4,850,774 12,277,382 144 Accumulated provision for uncollectible accounts - Cr. (1,202,78) (955,63) (973,537) 144 Accumulated provision for uncollectible accounts - Cr. (1,202,73) 2,389 542,109 154 Fuel stock expenses undistributed. 10,102,594 10,064,217 13,381,651 154 Part antacted products. 12,4164,8375 3,266,8748		67 258 603	69 119 165	71 338 418
123 Investment in associated companies. 280 518,132 152,179,432 152,179,432 152,179,432 149,21,078 124 Other investments. 54,581,443 52,653,735 49,921,008 125 Sinking funds. 126 Depreciation fund. 128 Other special funds. 128 Other special funds. 128 Other special funds. 1,056,799 700,753 2,875,276 131 Cash. 1,056,799 700,753 2,875,276 132 Interest special deposits. 1,910,852 1,930,838 4,850,774 133 Ovidend special deposits. 1,910,852 1,930,838 4,850,774 134 Other special deposits. 1,950,873 58,685,488 58,200,724 134 Other special deposits. 1,930,838 4,850,774 1,273,382 141 Notes receivable. 2,574,132 2,277,382 1,273,382 142 Customer accounts receivable. 2,665,067 6,242,775 6,148,030 143 Other accounts receivable. 207,935 223,898 58,109,143 144 Accounds teceivable from associated companies. 10,102,594 10,064,217 13,381,615 145 Notes receivable from associated companies. 224,116 863,669 879,463				
124 Other investments. 54,581,443 52,653,735 49,921,908 125 Sinking funds. 126 Depreciation fund. 128 Other special funds. 1,056,799 700,753 2,875,276 32 Interest special deposits. 1,910,852 1,930,838 4,850,774 33 Dividend special deposits. 1,910,852 1,930,838 4,850,774 134 Other special deposits. 1,910,852 1,930,838 4,850,774 135 Working funds. 1,910,852 1,930,838 4,850,774 136 Temporary cash investments. 3,536,921 2,574,132 2,273,382 141 Notes receivable. 60,578,953 58,685,488 58,209,024 143 Other accounts receivable. 60,578,953 58,685,488 58,209,024 143 Other accounts receivable. 60,578,953 58,685,488 58,209,024 143 Other accounts receivable. 2,056,607 6,242,775 6,248,003 144 Accuruidate provision for uncollectible accounts - Cr. (1,290,276) (1,042,017 11,38,1651 154 Plant materials and operating supplies (Major only). 10,102,594 10,064,217 11,38,1651 155 Morchandise. 3,290,582 26,616,527				
125 Sinking funds. 126 Depreciation fund. 128 Other special funds. 3. Current and Accrued Assets 31 Cash. 1,056,799 700,753 2,875,276 132 Interest special deposits. 1 1910,852 1,930,838 4,850,774 133 Dividend special deposits. 1 1910,852 1,930,838 4,850,774 134 Other special deposits. 1,910,852 1,930,838 4,850,774 135 Working funds. 1,85,600 210,200 204,200 136 Temporary cash investments. 3,536,921 2,574,132 2,273,382 141 Notes receivable. 60,578,953 58,685,488 58,209,024 143 Other accounts receivable. 60,578,953 58,685,488 58,209,024 143 Other accounts receivable. 60,578,953 58,685,488 58,209,024 144 Accurudlated provision for uncollectible accounts - Cr. (1,290,276) (955,630) (975,367) 145 Notes receivable from associated companies. 207,935 223,899 542,109 155 Fuel stock. 10,102,594 10,064,217 13,38,651 156 Other materials and operating supplies (Major only). 10,102,594 10,64,217 <td< td=""><td>123.1 Investment in subsidiary companies.</td><td>290,518,132</td><td>152,179,432</td><td>105,582,148</td></td<>	123.1 Investment in subsidiary companies.	290,518,132	152,179,432	105,582,148
126 Depreciation fund. 128 Other special funds. 230 Current and Accrued Assets 131 Cash. 1,056,799 700,753 2,875,276 132 Interest special deposits. 133 Dividend special deposits. 1,910,852 1,930,838 4,850,774 134 Other special deposits. 1,810,850 210,020 204,200 136 Temporary cash investments. 1,856,00 210,020 204,200 136 Temporary cash investments. 2,856,812 2,273,822 2,733,823 143 Other accounts receivable. 60,578,953 58,654,488 58,209,024 143 Other accounts receivable from associated companies. 1,190,276 (955,630) 1975,367) 144 Accumidated provision for uncollectible accounts - Cr. (1,290,276) (955,630) 1975,367) 145 Notes receivable from associated companies. 207,935 223,899 542,109 154 Plant materials and operating supplies (Major only). 10,102,594 10,064,217 1,3,81,651 155 Merchandles. 924,116 863,669 879,463 26,974,832 26,61,6527 155 Merchandles. 924,116 863,290,91,851 3,741,745 3,700,566		54,581,443	52,653,735	49,921,908
128 Other special funds. 3. Current and Accrued Assets 131 Cash. 1,056,799 700,753 2,875,276 132 Initerest special deposits. 1,910,852 1,930,838 4,850,774 133 Dividend Special deposits. 1,910,852 1,930,838 4,850,774 134 Other special deposits. 1,910,852 1,930,838 4,850,774 135 Working funds. 135,600 210,200 204,200 136 Temporary cash investments. 3,353,921 2,574,312 2,733,82 141 Notes receivable. 0,656,607 6,242,775 6,148,203 143 Other accounts receivable. 2,666,607 6,242,775 6,148,203 144 Accumulated provision for uncollectible accounts - Cr. (1,290,276) (195,5630) (197,367) 144 Accumulated provision for uncollectible accounts - Cr. 1,290,276) (10,06,217 13,381,651 154 Evel stock expenses undistributed. 132 Evel stock expenses undistributed. 132,381,651 133,381,651 155 Merchandise. 924,116 863,669 879,463 132,907,852 25,164,527 154 Ale nam atcreted products. 133,501 10,002,594 40,904,932 2,395,8	-			
3. Carrent and Accrued Assets 131 Cash. 1,056,799 700,753 2,875,276 132 Interest special deposits. 133 Dividend special deposits. 134 Other special deposits. 134 Status and Status an				
131 Cash. 1,056,799 700,753 2,875,276 132 Interest special deposits. 1 1 1 134 Other special deposits. 1,910,852 1,930,383 4,850,774 135 Working funds. 1,85,600 210,200 204,200 136 Temporary cash investments. 3,536,521 2,574,132 2,273,382 141 Notes receivable. 60,578,953 558,685,488 58,209,024 142 Customer accounts receivable. 2,666,067 6,242,775 6,148,203 144 Accoundise depositis accounts - Cr. 1,290,276 195,530 195,537 145 Notes receivable from associated companies. 207,935 223,899 542,109 151 Fuel stock. 201,006,217 13,381,651 154 154 Plant materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 156 Merchandise. 924,116 863,669 879,463 156 Other materials and supplies. 3,741,745 3,700,595 156 Vier advends for quistributed. 21,994,821 2,907,852 2,6164,527 156 Vier advends for gas stored. 3,741,745 3,700,596 2,71,997				
133 Dividend special deposits. 1,910,852 1,930,838 4,850,774 134 Other special deposits. 1,910,852 1,930,838 4,850,774 135 Working funds. 185,600 210,200 204,200 136 Temporary cash investments. 3,536,921 2,574,132 2,273,382 141 Notes receivable. 6,6578,953 58,685,488 58,209,024 142 Customer accounts receivable. 6,6578,953 58,685,488 58,209,024 143 Other accounts receivable from associated companies. 2,666,067 6,242,775 6,148,203 144 Accounts receivable from associated companies. 207,935 223,899 542,109 151 Fuel stock. 210,206,207 10,064,217 13,381,651 152 Fuel stock expenses undistributed. 10,102,594 10,064,217 13,381,651 155 Merchandise. 924,116 863,669 879,453 156 Other materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 156 Merchandise. 924,116 863,669 879,453 166,4527 153 Stores expense undistributed. 3,589,561 3,741,745 3,700,596 164.1 Gas stored -	131 Cash.	1,056,799	700,753	2,875,276
134 Other special deposits. 1,910,852 1,930,838 4,850,774 135 Working funds. 185,600 210,200 224,200 136 Temporary cash investments. 3,536,921 2,574,132 2,273,382 141 Notes receivable. 60,578,953 58,685,488 58,209,024 142 Customer accounts receivable. 2,666,067 6,242,775 6,148,203 144 Accumulated provision for uncollectible accounts - Cr. (1,290,276) (955,630) (975,367) 145 Notes receivable from associated companies. 207,935 223,899 542,109 154 Picel stock 201,02,594 10,064,217 13,381,651 155 Reciduals and extracted products. 1910,02,594 10,064,217 13,381,651 155 Merchandise. 924,116 863,669 879,463 155 Merchandise. 924,116 863,669 879,453 156 Other materials and supplies. 31,987,46,875 32,907,852 26,164,527 164 Cas tored - current. 38,746,875 32,907,852 26,164,527 164 Advances for gas exploration, development, and production. 20,449,382 23,958,674 27,719,987 166 Advances for gas exploration, dev	132 Interest special deposits.			
135 Working funds. 185,600 210,200 204,200 136 Temporary cash investments. 3,356,921 2,574,132 2,273,382 141 Notes receivable. 60,578,953 58,685,488 58,209,024 143 Other accounts receivable. 60,578,953 58,685,488 58,209,024 143 Other accounts receivable. 60,578,953 58,685,488 58,209,024 144 Accountlated provision for uncollectible accounts - Cr. (1,290,276) (955,630) (975,367) 145 Notes receivable from associated companies. 207,935 223,899 542,109 151 Fuel stock. 10,002,594 10,064,217 13,381,651 155 Merchandise. 924,116 863,669 879,463 156 Other materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 155 Merchandise. 924,116 863,669 879,463 166 156 Other materials and operating supplies. 38,746,875 32,907,852 26,164,527 164 A 12 cugefied natural gas stored. 3,989,561 3,741,745 3,700,596 165 Prepayments. 20,449,382 23,958,674 27,719,997 166 Advances for gas e				
136 Temporary cash investments. 3,536,921 2,574,132 2,273,382 141 Notes receivable. 60,578,953 58,685,488 58,209,024 143 Other accounts receivable. 2,666,067 6,242,775 6,148,203 144 Accumulated provision for uncollectible accounts - Cr. (1,290,276) (955,630) (975,367) 145 Notes receivable from associated companies. 207,935 223,899 542,109 151 Fuel stock 207,935 223,899 542,109 152 Fuel stock expenses undistributed. 1358 136,659 879,463 156 Other materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 156 Other materials and supplies. 324,116 863,669 879,463 156 Other materials and supplies. 32,416 863,669 879,463 156 Other materials and supplies. 32,416 863,669 879,463 165 Other materials and supplies. 32,416 863,669 879,463 165 Other materials and supplies. 32,416 863,669 879,463 164 1 claugefied natural gas stored - current. 38,746,875 32,907,852 26,164,527 164 2 Liquefi				
141 Notes receivable. 142 Customer accounts receivable. 58,685,488 58,209,024 143 Other accounts receivable. 2,666,667 6,242,775 6,148,203 144 Accumulated provision for uncollectible accounts - Cr. (1,290,276) (955,630) (975,367) 145 Notes receivable from associated companies. 207,935 223,899 542,109 154 Plant meterials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 155 Merchandise. 924,116 863,669 879,463 156 Other materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 156 Merchandise. 924,116 863,669 879,463 156 Other materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 156 Merchandise. 924,116 863,669 879,463 156 Other materials and supplies. 103 3,741,745 3,706,595 164.1 Gas stored - current. 38,746,875 32,907,852 26,6164,527 164.3 Liquefied natural gas stored. 20,449,382 23,958,674 27,719,997 166 Advances for gas. 12 21,085,944 4,015,983 <td>5</td> <td></td> <td></td> <td>,</td>	5			,
143 Other accounts receivable. 2,666,067 6,242,775 6,148,203 144 Accoundlated provision for uncollectible accounts - Cr. (1,290,276) (955,630) (975,367) 145 Notes receivable from associated companies. 207,935 223,899 542,109 146 Accounts receivable from associated companies. 207,935 223,899 542,109 151 Fuel stock. 10,102,594 10,064,217 13,381,651 155 Merchandise. 924,116 863,669 879,463 156 Other materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 156 Merchandise. 924,116 863,669 879,463 156 Other materials and operating supplies. 163 31,741,745 3,700,596 164.1 Gas stored - current. 38,746,875 32,907,852 26,164,527 164.2 Liquefied natural gas sheld for processing. 164 39,89,561 3,741,745 3,700,596 164.3 Liquefied natural gas held for processing. 164 164 Avances for gas. 20,449,382 23,958,674 27,719,997 166 Advances for gas. 171 Interest and dividends receivable. 172 Rents receivable. 172 Ren		0,000,022	2,07 1,202	2,270,002
144 Accumulated provision for uncollectible accounts - Cr. (1,290,276) (955,630) (975,367) 145 Notes receivable from associated companies. 207,935 223,899 542,109 146 Accounts receivable from associated companies. 207,935 223,899 542,109 151 Fuel stock. 152 Fuel stock expenses undistributed. 153 Residuals and extracted products. 154 Plant materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 155 Merchandise. 924,116 863,669 879,463 156 Other materials and supplies. 924,116 863,669 879,463 156 Archandise. 924,116 863,669 879,463 156 Archandise. 924,116 863,669 879,463 156 Atorse expense undistributed. 164.1 Gas stored - current. 38,746,875 32,907,852 26,164,527 164.1 Gas stored - current. 38,746,875 32,907,852 26,164,527 3,780,596 164.2 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 165 Prepayments. 20,449,382 23,958,674 27,719,997 166 Advances for gas. 171 111 111 111 <	142 Customer accounts receivable.	60,578,953	58,685,488	58,209,024
145 Notes receivable from associated companies. 207,935 223,899 542,109 146 Accounts receivable from associated companies. 207,935 223,899 542,109 151 Fuel stock. 152 Fuel stock expenses undistributed. 153 155 Mesiduals and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 155 Merchandise. 924,116 83,669 879,463 156 Other materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 156 Merchandise. 924,116 83,669 879,463 156 Other materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 156 Other materials and supplies. 924,116 83,669 879,463 156 Other materials and supplies. 924,116 83,22,907,852 26,164,527 164.1 Gas stored - current. 38,746,875 32,907,852 26,164,527 164.2 Liquefied natural gas held for processing. 71 71,071,059 71,02,097 166 Advances for gas exploration, development, and production. 20,449,382 23,958,674 27,771,983 171 Interest and dividends receivable. 72,108,594 4,015,983 73,773,088 <td>143 Other accounts receivable.</td> <td>2,666,067</td> <td>6,242,775</td> <td>6,148,203</td>	143 Other accounts receivable.	2,666,067	6,242,775	6,148,203
146 Accounts receivable from associated companies. 207,935 223,899 542,109 151 Fuel stock. 152 Fuel stock expenses undistributed. 153 155 155 155 155 10,102,594 10,064,217 13,381,651 155 Merchandise. 924,116 863,669 879,463 156 157,715 157,156 157,171,175 13,740,595 164.3 13,2907,852 12,719,997 166 Advances for gas. 171 11 1167 140,493,82 23,958,674 27,719,997 166 Advances for gas. 171 11 172 166 Advances for gas.		(1,290,276)	(955,630)	(975,367)
151 Fuel stock. 152 Fuel stock expenses undistributed. 153 Residuals and extracted products. 154 Plant materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 155 Merchandise. 924,116 863,669 879,463 166 Other materials and supplies. 163 863,669 879,463 163 Stores expense undistributed. 164,11 Gas stored - current. 38,746,875 32,907,852 26,164,527 164.1 Gas stored - current. 38,746,875 32,907,852 26,164,527 164.2 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 164.2 Liquefied natural gas held for processing. 10,102,594 10,064,917 13,917,9197 166 Advances for gas exploration, development, and production. 20,449,382 23,958,674 27,719,997 166 Advances for gas. 171 1nterest and dividends receivable. 172 171 171 172 Rents receivable. 172 2,108,594 4,015,983 175 14,015,983 176 14,015,983 176 14,010,00 9,726,000 174 Miscellaneous current and accrued assets. 1,100,000,1 11,000,000 11,000		207.025	222.800	F 42 100
152 Fuel stock expenses undistributed. 153 Residuals and extracted products. 154 Plant materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 155 Merchandise. 924,116 863,669 879,463 156 Other materials and supplies. 924,116 863,669 879,463 163 Stores expense undistributed. 38,746,875 32,907,852 26,164,527 164.1 Gas stored - current. 38,746,875 32,907,852 26,164,527 164.2 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 164.3 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 165 Prepayments. 20,449,382 23,958,674 27,719,997 166 Advances for gas exploration, development, and production. 167 Other advances for gas. 171 171 Interest and dividends receivable. - 2,108,594 4,015,983 175 Derivative Instrument Assets - 2,108,594 4,015,983 175 Derivative Instrument Assets - Hedges (130,000) - 2,108,594 4,015,983 175 Derivative Instrument Assets - Hedges (130,000) - 2,108,594 <td< td=""><td>·</td><td>207,935</td><td>223,899</td><td>542,109</td></td<>	·	207,935	223,899	542,109
153 Residuals and extracted products. 154 Plant materials and operating supplies (Major only). 10,102,594 10,064,217 13,381,651 155 Merchandise. 924,116 863,669 879,463 156 Other materials and supplies. 863,657 32,907,852 26,164,527 163 Stores expense undistributed. 38,746,875 32,907,852 26,164,527 164.1 Gas stored - current. 38,746,875 32,907,852 26,164,527 164.2 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 164.3 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 165 Prepayments. 20,449,382 23,958,674 27,719,997 166 Advances for gas exploration, development, and production. 167 Other advances for gas. 171 171 Interest and dividends receivable. 172 Rent receivable. 173 Accrued utility revenues. 64,945,750 62,380,896 57,773,088 174 Miscellaneous current and accrued assets. - 2,108,594 4,015,983 175 Derivative Instrument Assets - Hedges (130,000) 176 Derivative Instrument Assets - Hedges 103,000) 172,009 6,859,484 <				
155 Merchandise. 924,116 863,669 879,463 156 Other materials and supplies. 163 Stores expense undistributed. 163 Stores expense undistributed. 164.1 Gas stored - current. 38,746,875 32,907,852 26,164,527 164.2 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 164.3 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 164.3 Liquefied natural gas stored. 20,449,382 23,958,674 27,719,997 166 Advances for gas exploration, development, and production. 20,449,382 23,958,674 27,719,997 166 Advances for gas. 171 Interest and dividends receivable. 172 Rents receivable. 172 172 Rents receivable. 2,108,594 4,015,983 174,015,983 174,015,983 174 Miscellaneous current and accrued assets. - 2,108,594 4,015,983 175 Derivative Instrument Assets 20,426,000 3,041,000 9,726,000 176 Derivative Instrument Assets - Hedges (130,000) 16 16 181 Unamortized debt expense. 7,915,836 7,172,109 6,859,484 182.2 Unrecovered plant and regulatory study costs. 18				
156 Other materials and supplies. 163 Stores expense undistributed. 164.1 Gas stored - current. 38,746,875 32,907,852 26,164,527 164.2 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 164.3 Liquefied natural gas held for processing. 20,449,382 23,958,674 27,719,997 166 Advances for gas exploration, development, and production. 20 20,449,382 23,958,674 27,719,997 166 Advances for gas. 167 Other advances for gas. 167 Other advances for gas. 171 Interest and dividends receivable. 172 Rents receivable. 173 Accrued utility revenues. 64,945,750 62,380,896 57,773,088 174 Miscellaneous current and accrued assets. - 2,108,594 4,015,983 175 Derivative Instrument Assets 20,426,000 3,041,000 9,726,000 176 Derivative Instrument Assets - Hedges (130,000) 4.06 2.0426,000 3,041,000 9,726,000 176 Derivative Instrument Assets - Hedges 181 Unamortized debt expense. 7,915,836 7,172,109 6,859,484 182.1 Extraordinary property losses. 182.2 Unrecovered plant and regulatory study costs. 18,000 18,000 18,000 18,000	154 Plant materials and operating supplies (Major only).	10,102,594	10,064,217	13,381,651
163 Stores expense undistributed. 164.1 Gas stored - current. 38,746,875 32,907,852 26,164,527 164.2 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 164.3 Liquefied natural gas held for processing. 20,449,382 23,958,674 27,719,997 166 Advances for gas exploration, development, and production. 20 23 20 2		924,116	863,669	879,463
164.1 Gas stored - current. 38,746,875 32,907,852 26,164,527 164.2 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 164.3 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 164.3 Liquefied natural gas held for processing. 20,449,382 23,958,674 27,719,997 166 Advances for gas exploration, development, and production. 20,449,382 23,958,674 27,719,997 166 Advances for gas. 171 Interest and dividends receivable. 57,773,088 171 Interest and dividends receivable. 20,426,000 3,041,000 9,726,000 173 Accrued utility revenues. 64,945,750 62,380,896 57,773,088 174 Miscellaneous current and accrued assets. - 2,108,594 4,015,983 175 Derivative Instrument Assets 9,020,426,000 3,041,000 9,726,000 176 Derivative Instrument Assets - Hedges 130,000) 4 4 4.016,read Debits 181 Unamortized debt expense. 7,915,836 7,172,109 6,859,484 182.2 Unrecovered plant and regulatory study costs. 182.2 Unrecovered plant and regulatory study costs. 181,000 181,000 182.2 Unrecovered plant and				
164.2 Liquefied natural gas stored. 3,989,561 3,741,745 3,700,596 164.3 Liquefied natural gas held for processing. 20,449,382 23,958,674 27,719,997 166 Advances for gas exploration, development, and production. 20,449,382 23,958,674 27,719,997 166 Advances for gas exploration, development, and production. 40,000 40,000 40,000 167 Other advances for gas. 171 Interest and dividends receivable. 50,000 57,773,088 171 Interest receivable. 21,045,570 62,380,896 57,773,088 174 Miscellaneous current and accrued assets. - 2,108,594 4,015,983 175 Derivative Instrument Assets 20,426,000 3,041,000 9,726,000 176 Derivative Instrument Assets - Hedges (130,000) 4.065,994 4.015,983 181 Unamortized debt expense. 7,915,836 7,172,109 6,859,484 182.2 Unrecovered plant and regulatory study costs. 182.2 Unrecovered pla		20 740 075	22 007 852	26 164 527
164.3 Liquefied natural gas held for processing. 165 Prepayments. 20,449,382 23,958,674 27,719,997 166 Advances for gas exploration, development, and production. 167 Other advances for gas. 171 176 Other advances for gas. 171 Interest and dividends receivable. 172 177 Rents receivable. 173 Accrued utility revenues. 64,945,750 62,380,896 57,773,088 174 Miscellaneous current and accrued assets. - 2,108,594 4,015,983 175 Derivative Instrument Assets 20,426,000 3,041,000 9,726,000 176 Derivative Instrument Assets - Hedges (130,000) 161 161 181 Unamortized debt expense. 7,915,836 7,172,109 6,859,484 182.2 Unrecovered plant and regulatory study costs. 182.2 Unrecovered plant and regulatory study costs. 181 181 Unamortized blat and regulatory study costs.				
165 Prepayments. 20,449,382 23,958,674 27,719,997 166 Advances for gas exploration, development, and production. 167 Other advances for gas. 171 Interest and dividends receivable. 172 Rents receivable. 173 Accrued utility revenues. 64,945,750 62,380,896 57,773,088 174 Miscellaneous current and accrued assets. - 2,108,594 4,015,983 175 Derivative Instrument Assets 20,426,000 3,041,000 9,726,000 176 Derivative Instrument Assets - Hedges (130,000) 161 4. Deferred Debits 181 Unamortized debt expense. 7,915,836 7,172,109 6,859,484 182.2 Unrecovered plant and regulatory study costs. 182.2 Unrecovered plant and regulatory study costs. 181 Unamortized covered plant and regulatory study costs. 182.2 Unrecovered plant and regulatory study costs. 182.2		5,565,501	5,741,745	3,700,550
167 Other advances for gas. 171 Interest and dividends receivable. 172 Rents receivable. 173 Accrued utility revenues. 174 Miscellaneous current and accrued assets. 175 Derivative Instrument Assets 20,426,000 3,041,000 4 Deferred Debits 181 Unamortized debt expense. 182.2 Unrecovered plant and regulatory study costs.		20,449,382	23,958,674	27,719,997
171 Interest and dividends receivable. 172 Rents receivable. 173 Accrued utility revenues. 173 Accrued utility revenues. 174 Miscellaneous current and accrued assets. 175 Derivative Instrument Assets 176 Derivative Instrument Assets - Hedges 177 Abstructurent Assets - Hedges 181 Unamortized debt expense. 182.2 Unrecovered plant and regulatory study costs.		. ,		. ,
172 Rents receivable. 173 Accrued utility revenues. 64,945,750 62,380,896 57,773,088 174 Miscellaneous current and accrued assets. - 2,108,594 4,015,983 175 Derivative Instrument Assets 20,426,000 3,041,000 9,726,000 176 Derivative Instrument Assets - Hedges (130,000) - - 4. Deferred Debits - - - 181 Unamortized debt expense. 7,915,836 7,172,109 6,859,484 182.2 I Extraordinary property losses. - - - 182.2 Unrecovered plant and regulatory study costs. - - -	167 Other advances for gas.			
173 Accrued utility revenues. 64,945,750 62,380,896 57,773,088 174 Miscellaneous current and accrued assets. - 2,108,594 4,015,983 175 Derivative Instrument Assets 20,426,000 3,041,000 9,726,000 176 Derivative Instrument Assets - Hedges (130,000) - - 4. Deferred Debits 7,915,836 7,172,109 6,859,484 182.1 Extraordinary property losses. - - - 182.2 Unrecovered plant and regulatory study costs. - - -				
174 Miscellaneous current and accrued assets. - 2,108,594 4,015,983 175 Derivative Instrument Assets 20,426,000 3,041,000 9,726,000 176 Derivative Instrument Assets - Hedges (130,000) 176 176 4. Deferred Debits 7,915,836 7,172,109 6,859,484 182.1 Extraordinary property losses. 182.2 Unrecovered plant and regulatory study costs. 177 172,109			63 200 000	E7 772 000
175 Derivative Instrument Assets 20,426,000 3,041,000 9,726,000 176 Derivative Instrument Assets - Hedges (130,000) 100 100 4. Deferred Debits 7,915,836 7,172,109 6,859,484 182.1 Extraordinary property losses. 182.2 Unrecovered plant and regulatory study costs. 100 100	•	64,945,750		
176 Derivative Instrument Assets - Hedges(130,000)4. Deferred Debits7,915,8367,172,1096,859,484181 Unamortized debt expense.7,915,8367,172,1096,859,484182.1 Extraordinary property losses.82.2 Unrecovered plant and regulatory study costs.6,859,484		20,426.000		
4. Deferred Debits7,915,8367,172,1096,859,484181 Unamortized debt expense.7,915,8367,172,1096,859,484182.1 Extraordinary property losses.82.2 Unrecovered plant and regulatory study costs.6,859,484			_,,,	
182.1 Extraordinary property losses. 182.2 Unrecovered plant and regulatory study costs.	-			
182.2 Unrecovered plant and regulatory study costs.		7,915,836	7,172,109	6,859,484
102.0 Girlor rogulatory abouts. 45,047,304 22,200,324 21,402,172		13 017 094	22 200 524	21 102 172
	102.0 Other regulatory assets.	43,047,384	22,200,324	21,402,172

400 4 Destining a stand and survey and investigation shares				
 183.1 Preliminary natural gas survey and investigation charges. 183.2 Other preliminary survey and investigation charges. 	15,080	351,235	309,011	
184 Clearing accounts.	10,000	237,192	398,385	
185 Temporary facilities.				
186 Miscellaneous deferred debits.	348,569,715	379,132,163	389,388,768	
187 Deferred losses from disposition of utility plant.				
188 Research, development, and demonstration expenditures. 189 Unamortized loss on reacquired debt.	2,473,832	2,117,564	1,808,092	
190 Accumulated deferred income taxes.	_,,	_,,	_,,	
191 Unrecovered purchased gas costs.	(2,156,449)	(19,277,807)	(4,864,721)	
200-299 Liabilities and Other Credits.				
5. Proprietary Capital	(447 (22 404)	(454 202 000)	(220.000.400)	
201 Common stock issued. 202 Common stock subscribed.	(447,633,104)	(451,282,098)	(228,868,408)	
203 Common stock liability for conversion.				
204 Preferred stock issued.			(1)	
205 Preferred stock subscribed.				
206 Preferred stock liability for conversion.				
207 Premium on capital stock. 208 Donations received from stockholders.				
209 Reduction in par or stated value of capital stock.				
210 Gain on resale or cancellation of reacquired capital stock.	(1,649,864)	(1,649,864)	(1,649,864)	
211 Miscellaneous paid-in capital.				
212 Installments received on capital stock.	(24,333)	(51,283)	(51,579)	
213 Discount on capital stock.	4 4 2 2 2 2 2			
214 Capital stock expense. 215 Appropriated retained earnings.	4,120,800	4,118,163	4,118,163	
216 Unappropriated retained earnings.	(442,145,578)	(453,862,896)	(472,303,081)	
216.1 Unappropriated undistributed subsidiary earnings.	35,758,812	39,698,388	(1,723,137)	
217 Reacquired capital stock.				
219 Accumulated Other Comprehensive Income	6,950,693	8,437,839	7,187,559	
6. Long-Term Debt	(726 700 000)	(786 700 000)	(720,700,000)	
221 Bonds. 222 Reacquired bonds.	(726,700,000)	(786,700,000)	(739,700,000)	
223 Advances from associated companies.				
224 Other long-term debt.				
225 Unamortized premium on long-term debt.				
226 Unamortized discount on long-term debt - Debit.				
 Other Noncurrent Liabilities. 227 Obligations under capital leases - noncurrent. 	(1,302)			
228.1 Accumulated provision for property insurance.	(214,000)	(154,000)	(49,000)	
228.2 Accumulated provision for injuries and damages.	(105,581,286)	(110,501,943)	(97,813,193)	
228.3 Accumulated provision for pensions and benefits.	(246,639,501)	(244,476,672)	(243,230,414)	
228.4 Accumulated miscellaneous operating provisions.				
229 Accumulated provision for rate refunds.				
8. Current and Accrued Liabilities 231 Notes payable.	(53,300,000)	(54,199,996)	(217,500,000)	
232 Accounts payable.	(83,472,534)	(108,414,210)	(113,505,529)	
233 Notes payable to associated companies.				
234 Accounts payable to associated companies.	(9,635,034)	(22,115,481)	(20,521,744)	
235 Customer deposits.	(5,538,638)	(5,087,361)	(4,994,176)	
236 Taxes accrued. 237 Interest accrued.	(12,114,133) (5,965,876)	(18,843,587)	(10,989,713)	
238 Dividends declared.	(5,905,870)	(6,773,318)	(7,272,799)	
239 Matured long-term debt.				
240 Matured interest.				
241 Tax collections payable.	(4,885,736)	(5,779,961)	(5,681,850)	
242 Miscellaneous current and accrued liabilities.	(21,861,114)	(26,390,275)	(39,688,332)	
243 Obligations under capital leases - current. 244 Derivative Instrument Liabilities	1,302 (2,098,000)	(23,371,000)	(15,406,000)	
245 Derivative Instrument Liabilities - Hedges	(130,000)	(23,371,000)	(13,400,000)	
9. Deferred Credits				
252 Customer advances for construction.	(3,740,828)	(3,965,149)	(4,410,555)	
253 Other deferred credits.	(7,142,848)	(7,323,027)	(32,686,031)	
254 Other regulatory liabilities.	(32,969,672)	(230,410,020)	(253,954,660)	
255 Accumulated deferred investment tax credits. 256 Deferred gains from disposition of utility plant.	(3,983)	(2)	(2)	
250 Delened gains non disposition of duity plant. 257 Unamortized gain on reacquired debt.				
281 Accumulated deferred income taxes - Accelerated amortization property.				
282 Accumulated deferred income taxes - Other property.				
283 Accumulated deferred income taxes - Other.	(511,259,117)	(288,303,953)	(298,906,395)	
300-399 Plant Accounts.				
1 Intangible Plant				
1. Intangible Plant 301 Organization.	1.174	1.174	1.174	
 Intangible Plant Organization. Franchises and consents. 	1,174 83,621	1,174 83,621	1,174 83,621	

202 Missellansova integrible plant	00 500 420		117.007.700
303 Miscellaneous intangible plant. 2. Production Plant	99,590,430	105,175,574	117,067,790
a. manufactured gas production plant			
304 Land and land rights.	24,998	24,998	24,998
305 Structures and improvements.	68,063	68,063	68,063
306 Boiler plant equipment. 307 Other power equipment.			
308 Coke ovens.			
309 Producer gas equipment.			
310 Water gas generating equipment.			
311 Liquefied petroleum gas equipment.	8,242	8,242	8,242
312 Oil gas generating equipment. 313 Generating equipment - Other processes.			
314 Coal, coke, and ash handling equipment.			
315 Catalytic cracking equipment.			
316 Other reforming equipment.			
317 Purification equipment.	200.447	200 447	200 447
318 Residual refining equipment. 319 Gas mixing equipment.	388,447 185,448	388,447 185,448	388,447 185,448
320 Other equipment.	105,448	185,448	105,440
b. natural gas production plant			
B.1. Natural Gas Production and Gathering Plant			
325.1 Producing lands.			
325.2 Producing leaseholds. 325.3 Gas rights.			
325.4 Rights-of-way.			
325.5 Other land and land rights.			
326 Gas well structures.			
327 Field compressor station structures.			
328 Field measuring and regulating station structures. 329 Other structures.			
330 Producing gas wells - Well construction.			
331 Producing gas wells - Well equipment.			
332 Field lines.			
333 Field compressor station equipment.			
334 Field measuring and regulating station equipment. 335 Drilling and cleaning equipment.			
336 Purification equipment.			
337 Other equipment.			
338 Unsuccessful exploration and development costs.			
B.2. Products Extraction Plant			
340 Land and land rights. 341 Structures and improvements.			
342 Extraction and refining equipment.			
343 Pipe lines.			
344 Extracted product storage equipment.			
345 Compressor equipment. 346 Gas measuring and regulating equipment.			
347 Other equipment.			
3. Natural Gas Storage and Processing Plant			
a. underground storage plant			
350.1 Land.	106,549	106,549	106,549
350.2 Rights-of-way. 350.3 North Mist Expansion Project Rights-of-way.	109,625	109,625	109,625
350.4 North Mist Expansion Project Land			
351 Structures and improvements.	7,208,245	7,382,069	8,631,863
351.1 North Mist Expansion Project Structures and Improvements			
352 Wells.	20,047,076	20,047,076	23,261,814
352.1 Storage leaseholds and rights. 352.2 Reservoirs.	3,938,491 7,272,553	3,938,491 7,272,553	3,938,491 7,272,553
352.3 Nonrecoverable natural gas.	6,440,890	6,440,890	6,440,890
352.4 North Mist Expansion Project Wells			
352.5 North Mist Expansion Project Storage Leaseholds & Rights			
352.6 North Mist Expansion Project Reservoirs			
352.7 North Mist Expansion Project Nonrecoverable natural gas 353 Lines.	6,552,220	6,552,220	7,274,713
353.1 North Mist Expansion Project Lines	-,,-20	-,	, ,, ==
354 Compressor station equipment.	31,351,812	31,352,716	31,352,716
354.7 North Mist Expansion Project Compressor Station Equipment	7 004 400	7 400 407	7 400 407
355 Measuring and regulating equipment. 355.1 North Mist Expansion Project Measuring/Regulating Equipment	7,284,199	7,408,127	7,408,127
356 Purification equipment.	297,363	297,363	363,606
357 Other equipment.	1,332,029	1,332,029	2,357,694
b. other storage plant			
360 Land and land rights.	726,830	726,830	726,830

361 Structures and improvements.	12,669,192	15,109,357	22,554,796
362 Gas holders.	10,108,669	10,484,768	10,484,768
363 Purification equipment.		,,	,,.
363.1 Liquefaction equipment.	10,475,375	14,034,083	18,902,862
363.2 Vaporizing equipment.	6,361,008	8,198,431	8,198,431
363.3 Compressor equipment.	3,693,337	4,547,618	4,804,214
363.4 Measuring and regulating equipment.	1,362,034	12,741,667	13,323,478
363.5 Other equipment.	3,051,295	3,051,295	3,051,295
c. base load liquefied natural gas terminaling and processing plant	739,473	739,473	739,473
364.1 Land and land rights .			
364.2 Structures and improvements.			
364.3 LNG processing terminal equipment.			
364.4 LNG transportation equipment.			
364.5 Measuring and regulating equipment.			
364.6 Compressor station equipment.			
364.7 Communication equipment.			
364.8 Other equipment.			
4. Transmission Plant			
365.1 Land and land rights.	89,772	89,772	1,015,597
365.2 Rights-of-way.	6,455,177	6,455,177	6,455,177
365.3 North Mist Expansion Project Land Rights			
366 Structures and improvements.	1,546,073	1,546,073	1,546,073
367 Mains.	307,474,014	310,664,269	325,504,075
368 Compressor station equipment.	307,474,014	510,004,205	525,504,075
	2 000 5 40	2 0 0 0 5 40	2 0 0 0 5 4 0
369 Measuring and regulating station equipment.	3,969,549	3,969,549	3,969,549
370 Communication equipment.			
371 Other equipment.			
5. Distribution Plant			
374 Land and land rights.	1,969,535	1,969,535	1,971,921
375 Structures and improvements.	1,398,111	1,417,773	1,519,558
376 Mains.	1,095,877,132	1,137,607,703	1,194,895,799
377 Compressor station equipment.	818,380	818,380	818,380
378 Measuring and regulating station equipment - General.	33,450,398	34,412,772	37,114,821
379 Measuring and regulating station equipment - City gate check stations.	7,514,713	10,845,581	13,707,266
380 Services.	737,144,683	768,541,097	800,894,952
381 Meters.	128,767,508	132,261,941	138,471,208
382 Meter installations.	69,239,916	70,585,402	71,741,762
383 House regulators.	1,678,311	1,871,924	2,203,738
384 House regulatory installations.			
385 Industrial measuring and regulating station equipment.			
386 Other property on customers' premises.	-	1,100,432	1,303,646
387 Other equipment.	342,954	342,954	342,954
	542,554	542,954	342,934
6. General Plant			
389 Land and land rights.	10,767,907	10,767,907	10,767,907
390 Structures and improvements.	78,653,964	79,673,499	90,779,799
391 Office furniture and equipment.	32,483,479	37,855,484	35,263,826
392 Transportation equipment.	38,658,205	42,561,613	46,746,329
393 Stores equipment.	119,406	119,406	119,406
394 Tools, shop and garage equipment.	9,887,393	11,859,950	13,169,801
395 Laboratory equipment.	68,293	68,293	277
396 Power operated equipment.	9,040,188	10,044,972	11,256,429
397 Communication equipment.	9,104,657	10,310,659	4,997,761
398 Miscellaneous equipment.	187,793	187,793	108,906
399 Other tangible property.			
400-432, 434-435 Income Accounts.			
1. Utility Operating Income			
operating expenses			
400 Operating revenues.			
401 Operation expense.			
402 Maintenance expense.	76 200 600	70 700 705	00 700 000
403 Depreciation expense.	76,288,699	79,733,795	83,732,032
404.1 Amortization and depletion of producing natural gas land and land rights.			
404.2 Amortization of underground storage land and land rights.			
404.3 Amortization of other limited-term gas plant.			
405 Amortization of other gas plant.			
406 Amortization of gas plant acquisition adjustments.			
407.1 Amortization of property losses, unrecovered plant and regulatory study costs.			
407.2 Amortization of conversion expense.			
407.3 Regulatory debits.	13,298,002	15,291,409	11,127,377
	13,230,002	13,291,409	11,127,377
407.4 Regulatory credits.			
408 [Reserved]			
408.1 Taxes other than income taxes, utility operating income.	45,675,819	49,004,406	48,709,075
409 [Reserved]			
409.1 Income taxes, utility operating income.	15,772,899	21,453,371	9,440,271
410 [Reserved]			

RG 37 - NWN's 2019 Annual Report FERC Chart of Accts Pre-Closing Trial Balance Page 5 of 16

(21,848,308)

410.1 Provision for deferred income taxes, utility operating income.	45,245,865	58,229,567	37,215,916	
411 [Reserved]	(24, 252, 252)	(00 ==0 =00)	(0.0.000-000)	
411.1 Provision for deferred income taxes - Credit, utility operating income. 411.3 [Reserved]	(21,966,966)	(38,750,782)	(26,037,795)	
411.4 Investment tax credit adjustments, utility operations.	(43,583)	(3,981)		
411.6 Gains from disposition of utility plant.				
411.7 Losses from disposition of utility plant. Total utility operating expenses.				
other operating income				
412 Revenues from gas plant leased to others.				
413 Expenses of gas plant leased to others. 414 Other utility operating income. Net utility operating income.				
2. Other Income and Deductions				
a. other income				
415 Revenues from merchandising, jobbing and contract work.	(5,164,002)	(5,641,506)	(5,631,537)	
416 Costs and expenses of merchandising, jobbing and contract work.	5,073,484	5,492,608	5,483,291	
417 Revenues from nonutility operations. 417.1 Expenses of nonutility operations.	(30,226,415) 14,979,583	(29,937,459) 15,525,969	(37,537,508) 20,496,890	
418 Nonoperating rental income.	(467,099)	(430,848)	(1,122,624)	
418.1 Equity in earnings of subsidiary companies.	3,939,576	127,342,694	1,723,137	
419 Interest and dividend income.	(776,187)	(3,932,693)	(3,962,217)	
419.1 Allowance for other funds used during construction.	-	(2,601,368)	(3,964,151)	
421 Miscellaneous nonoperating income.	(48,406)	(42,438)	(159,048)	
421.1 Gain on disposition of property. Total other income. b. other income deductions				
421.2 Loss on disposition of property.				
425 Miscellaneous amortization.				
426 [Reserved]				
426.1 Donations.	1,166,216	1,020,825	1,107,144	
426.2 Life insurance.	(1,696,962)	(2,492,693)	(1,682,347)	
426.3 Penalties. 426.4 Expenditures for certain civic, political and related activities.	5 1,272,927	400 1,135,662	1,232,171	
426.5 Other deductions. Total other income deductions. Total other income and deductions.	236,764	58,035	51,252	
c. taxes applicable to other income and deductions		,	,	
408.2 Taxes other than income taxes, other income and deductions.	655,905	681,501	712,140	
409.2 Income taxes, other income and deductions.	2,988,677	3,806,056	3,532,653	
410.2 Provision for deferred income taxes, other income and deductions.	2,453,227	(2,415,299)	927,469	
411.2 Provision for deferred income taxes - Credit, other income and deductions. 411.5 Investment tax credit adjustments, nonutility operations.	(843,924)	(182,373)	(63,824)	
420 Investment tax credits. Total taxes on other income and deductions. Net other income and	d deductions.			
3. Interest Charges				
427 Interest on long-term debt.	34,508,090	36,808,658	36,998,114	
428 Amortization of debt discount and expense.	1,314,276	1,660,650	1,693,322	
428.1 Amortization of loss on reacquired debt. 429 Amortization of premium on debt - Credit.	356,268	356,268	309,472	
429 Amortization of plemium on debt - Credit. 429.1 Amortization of gain on reacquired debt - Credit.				
430 Interest on debt to associated companies.				
431 Other interest expense.	2,421,401	1,299,074	2,904,881	
432 Allowance for borrowed funds used during construction - Credit. Net interest charges.	(463,904)	(2,494,702)	(4,796,752)	
4. Extraordinary Items				
434 Extraordinary income. 435 Extraordinary deductions.				
409.3 Income taxes, extraordinary items. Net income				
433, 436-439 Retained Earnings Accounts.				
Retained Earnings Chart of Accounts				
433 Balance transferred from income.				
436 Appropriations of retained earnings. 437 Dividends declared - preferred stock.				
437 Dividends declared - preferred stock. 438 Dividends declared - common stock.	51,624,740	54,288,736	41,034,756	
439 Adjustments to retained earnings.	51,62 1,7 10	3 1,200,700	12,00 1,7 00	
480-499 Revenue Accounts.				
1. Sales of Gas				
480 Residential sales.	(400,892,165)	(458,762,939)	(407,940,700)	
481 Commercial and industrial sales.	(238,071,859)	(274,611,130)	(241,293,260)	
482 Other sales to public authorities. 483 Sales for resale.				
484 Interdepartmental sales.				
485 Intracompany transfers.				
2. Other Operating Revenues				
487 Forfeited discounts.	(2,000,024)	(2,205,197)	(2,015,349)	
488 Miscellaneous service revenues. 489.1 Revenues from transportation of gas of others through gathering facilities.	(1,098,870)	(1,153,004)	(1,380,755)	

489.1 Revenues from transportation of gas of others through gathering facilities. 489.2 Revenues from transportation of gas of others through transmission facilities. (19,876,956) (20,351,015)

489.3 Revenues from transportation of gas of others through distribution facilities.

489.4 Revenues from storing gas of others.

490 Sales of products extracted from natural gas.

491 Revenues from natural gas processed by others.			
492 Incidental gasoline and oil sales.			
493 Rent from gas property.	(385,832)	(241,126)	(190,377)
494 Interdepartmental rents.	(5.261.270)	5 242 442	7 224 000
495 Other gas revenues. 496 Provision for rate refunds	(5,261,370)	5,313,442	7,234,096
700-899 Production, Transmission and Distribution Expenses.			
1. Production Expenses			
a. manufactured gas production			
d. other gas supply expenses			
Operation			
800 Natural gas well head purchases.			
800.1 Natural gas well head purchases, intracompany transfers.			
801 Natural gas field line purchases.	13,643,305	12,678,362	13,744,039
802 Natural gas gasoline plant outlet purchases.			
803 Natural gas transmission line purchases.	242 470 001	205 674 576	252 800 428
804 Natural gas city gate purchases. 804.1 Liquefied natural gas purchases.	243,476,981	295,674,576	253,809,428
805 Other gas purchases.			
805.1 Purchased gas cost adjustments.	(12,185,671)	15,160,198	(16,914,611)
806 Exchange gas.	(///		())
807 Purchased gas expenses.			
808.1 Gas withdrawn from storage - Debt.	23,171,389	19,821,527	15,070,769
808.2 Gas delivered to storage - Credit.	(7,296,582)	(18,093,918)	(9,783,155)
809.1 Withdrawals of liquefied natural gas held for processing - Debt.			
809.2 Deliveries of natural gas for processing - Credit.			
810 Gas used for compressor station fuel - Credit.			
811 Gas used for products extraction - Credit.	(224,000)	(224.045)	(100, 107)
812 Gas used for other utility operations - Credit.	(221,009)	(221,845)	(183,467)
813 Other gas supply expenses. 2. Natural Gas Storage, Terminaling and Processing Expenses			
a. underground storage expenses			
814 Operation supervision and engineering.			
815 Maps and records.			
816 Wells expenses.	312,486	286,568	294,860
817 Lines expenses.			
818 Compressor station expenses.	52,084	81,899	90,747
810 Compressor station fuel and newer			
819 Compressor station fuel and power.			
820 Measuring and regulating station expenses.	1,808,684	1,948,927	2,285,568
820 Measuring and regulating station expenses. 821 Purification expenses.	1,808,684 79,791	1,948,927 32,269	2,285,568 11,648
820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development.			
820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses.			
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 			
820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses.			
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 			
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. 			
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 			
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 			
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of lines. 	79,791	32,269 284,043	11,648 201,913
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of lines. 834 Maintenance of compressor station equipment. 	79,791	32,269	11,648
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of lines. 833 Maintenance of compressor station equipment. 835 Maintenance of measuring and regulating station equipment. 	79,791	32,269 284,043	11,648 201,913
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 833 Maintenance of lines. 834 Maintenance of compressor station equipment. 835 Maintenance of measuring and regulating station equipment. 836 Maintenance of purification equipment. 	79,791	32,269 284,043	11,648 201,913
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of lines. 834 Maintenance of compressor station equipment. 835 Maintenance of purification equipment. 836 Maintenance of other equipment. 837 Maintenance of other equipment. 	79,791	32,269 284,043	11,648 201,913
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of compressor station equipment. 835 Maintenance of measuring and regulating station equipment. 836 Maintenance of other equipment. 837 Maintenance of other equipment. b. other storage expenses 	79,791	32,269 284,043	11,648 201,913
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of lines. 834 Maintenance of compressor station equipment. 835 Maintenance of purification equipment. 836 Maintenance of other equipment. 837 Maintenance of other equipment. 	79,791	32,269 284,043	11,648 201,913
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of ines. 834 Maintenance of measuring and regulating station equipment. 835 Maintenance of other equipment. 836 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of ines. 834 Maintenance of measuring and regulating station equipment. 835 Maintenance of other equipment. 836 Maintenance of purification equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of an equipment. 837 Maintenance of other equipment. 840 Operation supervision and engineering. 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of measuring and regulating station equipment. 835 Maintenance of purification equipment. 836 Maintenance of other equipment. 837 Maintenance of other equipment. 840 Operation 840 Operation supervision and engineering. 841 Operation labor and expenses. 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance of structures and improvements. 833 Maintenance of structures and wells. 833 Maintenance of reservoirs and wells. 833 Maintenance of compressor station equipment. 835 Maintenance of measuring and regulating station equipment. 836 Maintenance of other equipment. 837 Maintenance of and engineering. 840 Operation supervision and engineering. 841 Operation labor and expenses. 842 Rents. 842. Power. 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of compressor station equipment. 835 Maintenance of measuring and regulating station equipment. 836 Maintenance of other equipment. 837 Maintenance of and engineering. 841 Operation supervision and engineering. 841 Operation labor and expenses. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of reservoirs and wells. 833 Maintenance of measuring and regulating station equipment. 836 Maintenance of other equipment. 837 Maintenance of and engineering. 840 Operation supervision and engineering. 841 Operation labor and expenses. 842 Rents. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. Maintenance 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of compressor station equipment. 836 Maintenance of purification equipment. 837 Maintenance of other equipment. 836 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of and engineering. 840 Operation supervision and engineering. 841 Operation labor and expenses. 842 Rents. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. Maintenance 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of reservoirs and wells. 834 Maintenance of measuring and regulating station equipment. 835 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 840 Operation supervision and engineering. 841 Operation labor and expenses. 842 Rents. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. Maintenance 843.1 Maintenance supervision and engineering. 843.1 Maintenance of structures and improvements. 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of reservoirs and wells. 834 Maintenance of reservoirs and vells. 835 Maintenance of measuring and regulating station equipment. 836 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of and engineering. 840 Operation supervision and engineering. 841 Operation labor and expenses. 842 Rents. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. Maintenance 843.1 Maintenance supervision and engineering. 843.3 Maintenance of structures and improvements. 843.3 Maintenance of structures and improvements. 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of reservoirs and vells. 834 Maintenance of measuring and regulating station equipment. 835 Maintenance of other equipment. 836 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 840 Operation supervision and engineering. 841 Operation labor and expenses. 842 Rents. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. Maintenance 843.1 Maintenance of structures and improvements. 843.3 Maintenance of structures and engineering. 843.4 Maintenance of structures and engineering. 843.4 Maintenance of purification equipment. 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of reservoirs and wells. 834 Maintenance of reservoirs and vells. 835 Maintenance of measuring and regulating station equipment. 836 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of and engineering. 840 Operation supervision and engineering. 841 Operation labor and expenses. 842 Rents. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. Maintenance 843.1 Maintenance supervision and engineering. 843.3 Maintenance of structures and improvements. 843.3 Maintenance of structures and improvements. 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of compressor station equipment. 835 Maintenance of other equipment. 836 Maintenance of other equipment. 837 Maintenance of other equipment. 840 Operation supervision and engineering. 841 Operation labor and expenses. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. Maintenance of structures and improvements. 843.1 Maintenance supervision and engineering. 843.1 Maintenance of structures and improvements. 843.4 Maintenance of purification equipment. 843.4 Maintenance of purification engineering. 843.4 Maintenance of purification engineering. 843.4 Maintenance of purification engineering. 843.4 Maintenance of structures and improvements. 843.4 Maintenance of structures and improvements. 843.4 Maintenance of gas holders. 843.4 Maintenance of gas holders. 843.5 Maintenance of purification equipment. 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of compressor station equipment. 835 Maintenance of other equipment. 836 Maintenance of other equipment. 837 Maintenance of other equipment. 840 Operation supervision and engineering. 841 Operation labor and expenses. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. Maintenance 843.1 Maintenance of structures and improvements. 843.1 Maintenance of structures and improvements. 843.1 Maintenance of structures and engineering. 843.1 Maintenance of structures and improvements. 843.2 Adaintenance of structures and improvements. 843.3 Maintenance of gas holders. 843.4 Maintenance of gas holders. 843.5 Maintenance of purification equipment. 843.6 Maintenance of purification equipment. 	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of lines. 833 Maintenance of compressor station equipment. 835 Maintenance of purification equipment. 836 Maintenance of other equipment. 837 Maintenance of structures and improvements. 838 Maintenance of the equipment. 837 Maintenance of the equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 840 Operation 840 Operation and engineering. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. Maintenance of structures and improvements. 843.4 Maintenance of structures and improvements. 843.3 Maintenance of gas holders. 843.4 Maintenance of gas holders. 843.4 Maintenance of liquefaction equipment. 843.5 Maintenance of liquefaction equipment. 843.6 Maintenance of proversion equipment. 843.7 Maintenance of proversion equipment. 843.6 Maintenance of operation equipment. 843.7 Maintenance of partification equipment. 843.8 Maintenance of operation equipment. 843.4 Maintenance of proversion equipment. 843.6 Maintenance of roporting equipment. 843.7 Maintenance of roporting equipment. 843.6 Maintenance of oppressor equipment. 843.7 Maintenance of oppressor equipment. 843.6 Maintenance of oppressor equipment. 843.6 Maintenance of oppressor equipment. 843.8 Maintenance of oppressor equipment.<td>79,791 152,055</td><td>32,269 284,043 39,360</td><td>11,648 201,913 260,829</td>	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of compressor station equipment. 835 Maintenance of compressor station equipment. 836 Maintenance of purification equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 840 Operation supervision and engineering. 841 Operation labor and expenses. 842 Rents. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. Maintenance of structures and improvements. 843.1 Maintenance of structures and improvements. 843.2 Maintenance of purification equipment. 843.3 Maintenance of structures and improvements. 843.4 Maintenance of purification equipment. 843.5 Maintenance of purification equipment. 843.6 Maintenance of structures and improvements. 843.8 Maintenance of purification equipment. 843.9 Maintenance of purification equipment. 843.1 Maintenance of purification equipment. 843.2 Maintenance of purification equipment. 843.4 Maintenance of purification equipment. 843.5 Maintenance of purification equipment. 843.6 Maintenance of purification equipment. 843.6 Maintenance of compressor equipment. 843.8 Maintenance of compressor equipment. 843.8 Maintenance of compressor equipment. 843.9 Maintenance of other equipment.<td>79,791 152,055</td><td>32,269 284,043 39,360</td><td>11,648 201,913 260,829</td>	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of compressor station equipment. 833 Maintenance of measuring and regulating station equipment. 836 Maintenance of other equipment. 837 Maintenance of the equipment. 837 Maintenance of the equipment. 838 Maintenance of the equipment. 837 Maintenance of purification equipment. 838 Maintenance of the equipment. 837 Maintenance of the equipment. 838 Maintenance of the equipment. 840 Operation 840 Operation labor and expenses. 842 Rents. 842.1 Fuel. 842.2 Power. 843.3 Maintenance of gas holders. 843.1 Maintenance of gas holders. 843.3 Maintenance of purification equipment. 843.3 Maintenance of purification equipment. 843.4 Maintenance of purification equipment. 843.5 Maintenance of purification equipment. 843.4 Maintenance of gas holders. 843.4 Maintenance of purification equipment. 843.5 Maintenance of purification equipment. 843.6 Maintenance of vaporizing equipment. 843.7 Maintenance of orderpressor equipment. 843.8 Maintenance of orderpressor equipment. 843.9 Maintenance of other equipment. 843.9 Maintenance	79,791	32,269 284,043 39,360 71,508	11,648 201,913 260,829 74,095
 820 Measuring and regulating station expenses. 821 Purification expenses. 822 Exploration and development. 823 Gas losses. 824 Other expenses. 825 Storage well royalties. 826 Rents. Maintenance 830 Maintenance supervision and engineering. 831 Maintenance of structures and improvements. 832 Maintenance of reservoirs and wells. 833 Maintenance of compressor station equipment. 835 Maintenance of compressor station equipment. 836 Maintenance of purification equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 837 Maintenance of other equipment. 840 Operation supervision and engineering. 841 Operation labor and expenses. 842 Rents. 842.1 Fuel. 842.2 Power. 842.3 Gas losses. Maintenance of structures and improvements. 843.1 Maintenance of structures and improvements. 843.2 Maintenance of purification equipment. 843.3 Maintenance of equipment. 843.4 Maintenance of purification equipment. 843.3 Gas losses. Maintenance 843.4 Maintenance of structures and improvements. 843.3 Maintenance of gas holders. 843.4 Maintenance of purification equipment. 843.5 Maintenance of purification equipment. 843.6 Maintenance of purification equipment. 843.6 Maintenance of purification equipment. 843.6 Maintenance of compressor equipment. 843.6 Maintenance of optication equipment. 843.8 Maintenance of optication equipment. 843.8 Maintenance of compressor equipment. 843.8 Maintenance of compressor equipment. 843.9 Maintenance of compressor equipment. 843.9 Maintenance of compressor equipment. 843.9 Maintenance of optication equipment. 843.9 Maintenance of compressor equipment. 843.9 Maintenance of optica	79,791 152,055	32,269 284,043 39,360	11,648 201,913 260,829

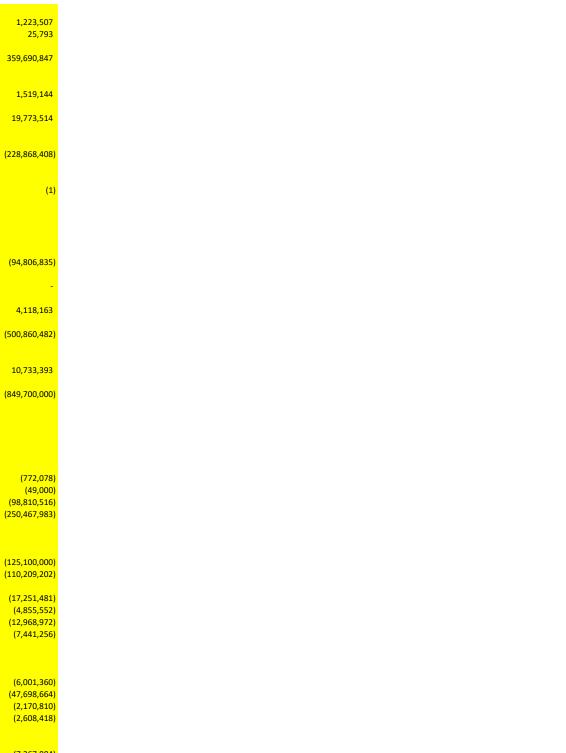
844.2 LNG processing terminal labor and expenses.			
844.3 Liquefaction processing labor and expenses.			
844.4 LNG transportation labor and expenses.			
844.5 Measuring and regulating labor and expenses.			
844.6 Compressor station labor and expenses.			
844.7 Communication system expenses. 844.8 System control and load dispatching.			
845.1 Fuel.			
845.2 Power.			
845.3 Rents.			
845.4 Demurrage charges. 845.5 Wharfage receipts - credit.		(90,056)	(85.007)
	-	(90,056)	(85,007)
845.6 Processing liquefied or vaporized gas by others. 846.1 Gas losses.			
846.2 Other expenses.			
Maintenance			
847.1 Maintenance supervision and engineering.	1 000 279	771 700	082 047
847.2 Maintenance of structures and improvements.	1,009,378	771,788	983,047
847.3 Maintenance of LNG processing terminal equipment.			
847.4 Maintenance of LNG transportation equipment.			
847.5 Maintenance of measuring and regulating equipment.			
847.6 Maintenance of compressor station equipment.			
847.7 Maintenance of communication equipment.			
847.8 Maintenance of other equipment.			
3. Transmission Expenses			
Operation			
850 Operation supervision and engineering.			
851 System control and load dispatching.			
852 Communication system expenses.			
853 Compressor station labor and expenses.			
854 Gas for compressor station fuel.			
855 Other fuel and power for compressor stations.			
856 Mains expenses.	1,593,436	1,422,310	1,516,707
857 Measuring and regulating station expenses.			
858 Transmission and compression of gas by others.			
859 Other expenses.			
860 Rents.			
Maintenance			
861 Maintenance supervision and engineering.			
862 Maintenance of structures and improvements.			
863 Maintenance of mains.	8,838	324,822	170,115
864 Maintenance of compressor station equipment.			
865 Maintenance of measuring and regulating station equipment.			
866 Maintenance of communication equipment.			
867 Maintenance of other equipment.			
870 Operation supervision and engineering.	2,202,514	2,606,304	2,861,336
4. Distribution Expenses			
Operation			
871 Distribution load dispatching.			
872 Compressor station labor and expenses.			
873 Compressor station fuel and power (Major only).			
874 Mains and services expenses.	7,031,554	7,833,278	9,028,992
875 Measuring and regulating station expenses - General.	(3,088)	50,561	(42,604)
876 Measuring and regulating station expenses - Industrial.	(-//	/	())
877 Measuring and regulating station expenses - City gate check stations.	575,316	553,865	488,036
878 Meter and house regulator expenses.	5,083,679	5,382,954	5,425,942
879 Customer installations expenses.	5,921,555	6,399,826	7,556,905
880 Other expenses.	1,143,316	1,481,034	1,268,874
881 Rents.	212,407	228,854	215,389
Maintenance	212,407	220,034	215,569
	4,282,248	3,380,701	4 042 521
885 Maintenance supervision and engineering.	4,282,248	3,380,701	4,043,521
886 Maintenance of structures and improvements.	2 04 4 24 6	2 702 650	2 0 0 2 0 2 5
887 Maintenance of mains.	2,814,316	2,702,659	2,862,835
888 Maintenance of compressor station equipment.			=
889 Maintenance of measuring and regulating station equipment - General.	1,156,141	1,563,970	1,470,629
890 Maintenance of measuring and regulating station equipment - Industrial.			
891 Maintenance of measuring and regulating station equipment - City gate check stations.	169,641	188,375	222,873
892 Maintenance of services.	753,961	642,341	675,263
893 Maintenance of meters and house regulators.	2,223,427	2,522,985	2,534,777
894 Maintenance of other equipment.	21,545	23,971	68,315
900-949 Customer Accounts, Customer Service and Informational, Sales and General and	Administrative Expe	enses.	
5. Customer Accounts Expenses			
Operation			
901 Supervision.	1,230,942	1,313,468	1,449,870
902 Meter reading expenses.	757,932	832,116	876,768

903 Customer records and collection expenses.	15,319,519	16,157,912	16,074,368
904 Uncollectible accounts.	1,246,447	864,691	678,554
905 Miscellaneous customer accounts expenses.			
6. Customer Service and Informational Expenses			
Operation			
907 Supervision.	2,347	1,886	3,912
908 Customer assistance expenses.	288,080	467,102	1,251,734
909 Informational and instructional advertising expenses.	1,595,193	1,743,866	1,810,357
910 Miscellaneous customer service and informational expenses.	180,741	179,063	163,343
7. Sales Expenses			
Operation			
911 Supervision.	131,652	143,410	9,375
912 Demonstrating and selling expenses.	2,888,558	3,485,124	1,653,256
913 Advertising expenses.	359,822	401,650	443,839
914 [Reserved]			
915 [Reserved]			
916 Miscellaneous sales expenses.			
8. Administrative and General Expenses			
Operation			
920 Administrative and general salaries.	24,627,399	27,835,981	28,595,464
921 Office supplies and expenses.	17,931,470	19,806,564	20,819,120
922 Administrative expenses transferred - Credit.	(17,463,672)	(18,841,642)	(19,404,008)
923 Outside services employed.	8,152,582	10,066,928	12,034,227
924 Property insurance.	3,057,126	3,195,612	3,066,612
925 Injuries and damages.	369,181	409,798	333,852
926 Employee pensions and benefits.	29,324,780	30,314,906	34,073,322
927 Franchise requirements.			
928 Regulatory commission expenses.			
929 Duplicate charges - Credit.			
930.1 General advertising expenses.			
930.2 Miscellaneous general expenses.	2,889,711	2,631,840	2,853,582
931 Rents.	4,678,405	4,788,210	4,763,890
Maintenance			
932 Maintenance of general plant.	4,105,070	3,557,910	3,757,087

RG 37 - NWN's 2019 Annual Report FERC Chart of Accts Pre-Closing Trial Balance Page 9 of 16



RG 37 - NWN's 2019 Annual Report FERC Chart of Accts Pre-Closing Trial Balance Page 10 of 16



(7,367,884) (6,116,933) (236,912,097)

(316,577,835)

1,174 83,621

RG 37 - NWN's 2019 Annual Report FERC Chart of Accts Pre-Closing Trial Balance Page 11 of 16



RG 37 - NWN's 2019 Annual Report FERC Chart of Accts Pre-Closing Trial Balance Page 12 of 16

22,795,423
10,484,768
19,123,945
8,198,431
4,804,214
13,440,544
3,051,295
739,473
1 015 507
1,015,597
6,455,177
538,142
1,546,073
401,971,974
3,969,549
1,971,954
1,519,558
1,253,447,423
818,380
38,325,632
16,201,552
837,805,413
146,180,983
73,703,163
2,419,652
1,162,110
342,954
11,652,361
95,162,798
47,359,861
51,660,779
119,406
14,397,767
-
12,540,849
12,403,965
108,903
80 414 800
89,414,896
12,336,840
12,336,840
12,336,840 49,362,241

6,918,426

RG 37 - NWN's 2019 Annual Report FERC Chart of Accts Pre-Closing Trial Balance Page 13 of 16

CO 949 902	
60,848,892	
(56,029,969)	
(2)	
(5,500,680) 5,542,888	
(32,697,836)	
20,640,048 (531,803)	
-	
(2,052,440) (656,996)	
(33,037)	
1,281,112 (1,596,257)	
(1,590,257)	
1,012,855 13,156	
744,587 1,938,398	
(1,055,888)	
2,935	
39,441,347	
1,521,518 288,948	
200,040	
3,858,212	
(3,626,359)	
52,006,202	
(430,902,294)	
(248,547,943)	
(2,076,088) (1,318,010)	
(1,010,010)	
(22,513,550)	
(11,820,609)	



1,652,104

RG 37 - NWN's 2019 Annual Report FERC Chart of Accts Pre-Closing Trial Balance Page 15 of 16

(175,4
1,033,7
1,989,0
166,2
100,2
2,847,1
9,176,7
(106,8
609,0
5,665,1 7,498,7
1,033,4
212,3
3,197,1
2,561,7
1,610,3
187,1
627,7 2,826,4
2,820,4
1,646,2 955,1
9551

RG 37 - NWN's 2019 Annual Report FERC Chart of Accts Pre-Closing Trial Balance Page 16 of 16

15,508,882 449,187	
4,464 1,027,301 2,118,069 193,529	
11,581 1,886,105	
295,487	
32,969,528	
17,312,345 (19,619,015)	
11,089,842	
3,239,827	
216,918	
68,707,526	
3,354,367	
4,706,138	

3,969,495