BEFORE THE PUBLIC UTILITY COMMISSION OF OREGON

	UG 287
In the Matter of)
CASCADE NATURAL GAS CORPORATION,)
Request for a General Rate Revision.)

OPENING TESTIMONY OF MICHAEL P. GORMAN ON BEHALF OF NORTHWEST INDUSTRIAL GAS USERS

July 31, 2015

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1	0.	PLEASE	STATE YOUR	NAME AND	BUSINESS	ADDRESS.
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- 2 Michael P. Gor man. My business addre ss is 16690 Swingley Ridge Road, Suite Α.
- 3 Chesterfield, MO 63017. I am employed by the firm of Brubaker & Associates, Inc.
- 4 ("BAI"), regulatory and economic consul tants with corporat e headquarters in
- Chesterfield, Missouri. My qualifications are provided in Exhibit NWIGU/101. 5

6 ON WHOSE BEHALF ARE YOU TESTIFYING IN THIS PROCEEDING? 0.

- 7 A. I am testifying on behalf of the Northwest Industrial Gas Users ("NWIGU"). NWIGU is
- 8 a non-profit association comprised of more than 40 end users of na tural gas with major
- 9 facilities in Oregon, Washington, and Idaho. NWIGU members include diverse industrial
- 10 and comme reial interests, including food processing, pulp and paper, wood products,
- 11 electric gen eration, alu minum, steel, chem icals, electron ics, aerosp ace, and health care
- 12 providers. NW IGU member companies purchase sales and transportation services from
- 13 Cascade Natural Gas Corporation ("Cascade" or the "Company").

ARE YOU SPONSORING ANY EXHI BITS IN CO NNECTION WITH YOUR 14 Q. **TESTIMONY?**

- 15
- 16 Yes. I am sponsoring Exhibits NWIGU/101 through NWIGU/103. A.

17 WHAT IS THE P URPOSE O F YO UR OPENING TES TIMONY IN THIS Q. PROCEEDING? 18

- 19 I will respond to the Company's claim ed revenue deficiency, class cost of service study, A.
- 20 and proposed spread of the revenue deficiency across rate classes in this proceeding.
- 21 Q. PLEASE SUMMARI ZE YOUR REVENUE RE OUIREMENT RECOM-
- MENDATIONS AND FINDINGS. 22
- 23 The Company's claim ed revenue deficien cy of \$3.6 m illion, or 12.51%, on non-gas Α.
- 24 revenues is significantly overstated. As shown in Table 1 below, the Company overstates
- 25 its claimed revenue deficiency for at least six issues.

TABLE 1

Revenue Requirement Adjustments (\$000)

Description	Amount	Source
Claimed Revenue Deficiency	\$3,623 (12.51%)	
Less Adjustments:		
Prepaid Pension Assets	\$ 367.6	CNG/304, Parvinen/Page 2 of 2, Col. k
Labor Additions	607.9	CNG/304, Parvinen/Page 2 of 2, Col. m
Rate Case Expense	121.8	CNG/304, Parvinen/Page 2 of 2, Col. q
Depreciation Rates	487.3	CNG/304, Parvinen/Page 2 of 2, Col. s
Plant Additions	524.1	CNG/304, Parvinen/Page 2 of 2, Col. o
Environmental Remediation	482.4	CNG/304, Parvinen/Page 2 of 2, Col. u
Total	\$2,661.0	
Adjusted Revenue Deficiency	\$961.0 (3.32%)	

- As shown in Table 1 above , the Com pany's claim ed revenue deficiency of \$3.6 million should be reduced down to a reven ue deficiency of no m ore than \$961,000.

 I will describe each of these revenue requirement adjustments below.
 - Q. PLEASE SUMMARI ZE YOUR PR OPOSAL ON HOW TO SPREAD THE REVENUE DEFICIE NCY FO UND JU ST AND REASONABLE B Y THE COMMISSION IN THIS PROCEEDING.
- 7 **A.** The Company's proposed spread of its revenue deficiency is unjust and unreasonable because it does not base this proposed spread on an accurate class cost of service study.

 My proposed spread will move each rate class closer to cost of service, while recognizing the limitations on rate a djustments and gradualism in recovering the revenue deficiency.
- Based on prim arily the difference in class co st of service study, I show the Company's

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proposed spread in Table 2 below, along wi th my proposed alloca tion of the revenue 2 deficiency across class es based on the Comp any's requested revenue deficiency for 3 illustrative purposes only.

TABLE 2 **Class Cost of Service Spread**

	Company P	roposed ¹	Adjusted ²	
<u>Description</u> \$	Increase %	Increase	\$ Increase %	Increase
Residential (101)	\$1,358	8.32%	1,810	11.09%
Commercial Service (104)	1,410	18.77%	1,394	18.55%
Industrial Service (105)	133	28.15%	133	28.15%
Large Volume Service (111)	65	28.15%	65	28.15%
General Distribution (163+164)	646	28.15%	130	5.68%
Interruptible (170)	11	3.13%	19	5.68%
Special Contracts (900)	0	0.0%	<u>71</u>	4.0%*
System Total	\$3,623	12.51%	\$3,623	12.51%

Sources and Note:

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- Q. YOU NOTE AN INCRE ASE FOR SPE CIAL IN YOUR TABLE 2 ABOVE, CONTRACTS CUSTOMERS OF 4%. IS T HAT BASED ON A PROPOSAL TO MOVE THEM CLOSER TO COST OF SERVICE IN THIS PROCEEDING?
- 7 Α. No. As I understand it, the Special Contract stariffs have specific contract provisions 8 which allow Cascade to adjust these customers' prices outside of a rate case. Based on 9 the tariff rates for Special Contracts Schedul e No. 201, the contracts generally read as 10 follows:

¹CNG/501, Amen/Page 2 of 2.

²NWIGU/102, Gorman/Page 1 of 2.

^{*}Based on two years of Consumer Price Index ("CPI") price adjustments.

Beginning October 1, 1996 and each October 1 thereafter for the duration of the contract, the Commodity Rate shall be escalated by the percentage change in the Consumer Price Index for the "All Urban Custom ers – U.S. City Average – All Items," for the twelve months ending on the immediately prior July 1.

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Based on this provision, it is my understanding that Cascade can increase rates to the Special Contracts custom ers each July 1 in an amount equal to the Consum er Price Index ("CPI"). As such, the increase in revenues for the Special Contracts customers listed in Table 2 above is based on this contract provision. I have projected that the CPI will increase by 4% from the 2014 test year to 2016, the rate-effective year. This assumes that rates in this proceeding will be in effect around year-end 2015 and therefore the revenues collected by these custom ers will increase, and support Cascade's revenue deficiency claim in this proceeding.

Importantly, it is not my position that the S pecial Contracts cus tomers' rate s should be increased beyond the terms and conditions specified in the custom ers' special contracts.

Q. PLEASE SUMMARI ZE YOUR PR OPOSED ADJUSTM ENTS TO THE COMPANY'S CLASS COST OF SERVICE STUDY.

19 The Company's class cost of service study is based on the Long Run Increm ental Cost Α. 20 ("LRIC") methodology that has been used to support rate settlements for both Avista and Northwest Natural Gas Company ("Northwest Natural") in recent rate proceedings. 1/2 21 22 Hence, the general structure of the Company's cost of service study is reasonable. However, I will propose two correcting adjustments to the Company's cost study. First, I 23 24 make adjustm ents to the LRIC cost of m eters for sev eral large custom ers. The 25 Company's LRIC cost f or meters is substantially higher than that use d in Avis ta and

¹/ UG 284, Avista Utilities and UG 221, Northwest Natural Gas Company.

Northwest Natural cases, and substantially higher than a reason able estimate of the incremental cost of meters for its large cust omers. Second, for the core main costs that are spread on volume, I propose to allocate those main costs across all rate classes. This will result in a more accurate measurement of each class's cost of service. The Company did not include volume for the Special Contracts class in this core main cost allocation. Therefore, Cascade did not accurately measure its cost of service for each rate class.

While I understand there are lim itations on adjusting the Company's rates for the Special Contracts customers, that does not justify distorting the class cost of service study when initially m easuring and com paring each class's cost of service to the app—roved rates. This is a critical first step in decidi ng how to allocate a revenue deficiency, if any, for each rate class, including the Special Contracts class, and the remaining rate classes. I will go into more detail in my revisions to the Company's class cost of service s tudy and development of my adjusted spread of the Company's claimed revenue deficiency later in this testimony.

15 Q. ARE YO U PROPO SING A SPRE AD OF YOUR ADJUS TED RE VENUE DEFICIENCY FOR CASCADE?

A. Yes. Based on my corrections to the Company's claimed revenue deficiency, I propose a revenue spread as outlined in Table 3 below.

TABLE 3						
Class Cost of Serv	vice Spread					
Gorman Proposed¹ Description \$ Increase % Increase						
Residential (101)	541	3.3%				
Commercial Service (104)	249	3.3%				
Industrial Service (105)	35	7.5%				
Large Volume Service (111)	17	7.5%				
General Distribution (163+164)	40	1.7%				
Interruptible (170)	6	1.7%				
Special Contracts (900)	<u>71</u>	4.0%				
System Total	\$961	3.32%				
Source:						
¹ NWIGU/103, Gorman/Page 1 of 2.						

This alternative spread consistent with the adjusted spread as shown in Table 3
above, is based on corrections to the Company's class cost of service study and a more
equitable allocation of the claimed revenue deficiency in this proceeding.

4 <u>I. REVENUE REQUIREMENT ADJUSTMENTS</u>

- 5 Q. WILL YOU PLE ASE EXPL AIN YOUR PROPOSED ADJUSTMENTS TO THE COMPANY'S CLAIMED REVENUE DEFICIENCY?
- Yes. I will explain each of the six adjustm ents I propose to the Company's claim ed revenue deficiency. The total of these revenue r equirement adjustments will reduce the Company's claimed revenue deficiency of \$3.622 million by \$2.661 million. This leaves an adjusted revenue deficiency of \$961,000.

	I.A.	Pre	paid	Pension	Asset
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2 3 4	Q.	WILL YO U PL EASE DES CRIBE YOUR PROPOSED ADJUSTMENT TO THE COMPANY'S CLAI MED REVENUE DE FICIENCY BASED ON A PREPAID PENSION ASSET?
5	A.	The Com pany is proposing to include in its rate base a prepaid pension asset of
6		\$2.873 million. The ex istence of this p repaid pension ass et increases the Com pany's
7		claimed revenue deficiency by \$367.64 thousand (CNG/304, Parvinen/Page 1,
8		Column k).
9		The Company states that it is including this prepaid pension asset net of deferred
10		taxes based on the positions of the Joint Utilities in Docket UM 1633, which Cascade
11		states have not yet been resolved. The Company's inclusion of this prepaid pension asset
12		before the issues in U M 1633 have been re solved is inappropriate, is not just and
13		reasonable, and therefore the cost shoul d be removed. (CNG/300, Pa rvinen/6, lines
14		18-21).
15 16 17	Q.	DO YOU BELIEVE A PREP AID PENS ION ASSET SHOULD BE USED TO INCREASE THE COMPANY'S CL AIMED REVENUE DEFICIENCY IN THIS PROCEEDING?
18	A.	No. The Com pany's prepaid pension asset is necessary to bring its pension trust fund
19		more in line with its pension obligation. The Company has not shown that the reason the
20		prepaid pen sion con tribution was necessary is becau se of inadequate pen sion trust
21		funding from prior periods. Further, the Company has not shown that the pension
22		expense receipts from customers in the past have not been adequate to fully reim burse
23		Cascade for this pension trust contribution.
24		As such, including the prepaid pensi on asset m ay essentially be requiring
25		customers to pay a return on Cascade's pens ion trust contributions which was funded by

customers via past payments of Cascade's recovery of pension expense in its retail rates.

Therefore, the Com pany's proposal to include this prepaid pension asset in its cost of service has not been shown to be just and reasonable, and may be punitive to cu stomers to the extent they have already fully compensated the Company for i ts annual pension costs including its contributions to its pension trust fund.

I.B. Labor Additions

- 6 Q. PLEASE DESCRIB E YOUR PROPOS ED ADJUSTMENT FOR THE LABOR ADDITIONS.
- A. The Com pany is proposing to increase its revenue deficiency by \$607,983 to reflect

 planned additions to its labor force. (CNG/300, Parvinen/7 and CNG/304, Parvinen/Page

 2 of 2, Colum n m). At page 7 of Mr. Parvinen's tes timony, he states the Company

 included an additional labor expense for planned additions to the workforce. He states

 that the Company plans on adding these new employees before the rate-effective date.
- 13 Q. IS THE LABOR ADDITIONS ADJUSTMENT REASONABLE?
- 14 **A.** No. The increased labor expense is not known and measurable because the employees have not been hired and are not part of the test year labor cost. Therefore, I propose it be removed from this rate case as a not known and measurable cost of service item.
- 17 Q. IS IT KNOWN AND MEAS URABLE THAT CAS CADE'S L ABOR E XPENSE WILL INCREASE POST-2014 TEST YEAR?
- No. While it is possible that Cascade may add employees to its payroll after the test year, it is also equally possible that Cascade will lose existing employees either to termination, leaving their positions or retirement. The post-test year additions of labor positions may not increase Cascade's labor cost within the test year. Rather, it may simply replace a reduction to the test year labor expense. The labor additions are simply not a known and measurable increase to Cascade's test year labor expense. Therefore, this labor additions

- adjustment is not a known and m easurable change to Cas cade's test year cost of service and should not be allowed.
- 3 I.C. Rate Case Expense
- 4 Q. PLEASE DESCRIBE YOUR ADJUST MENT CONCERNING THE COMPANY'S RATE CASE EXPENSE.
- 6 A. Mr. Parvinen states at page 11 of his te stimony that the Company is including rate case
- 7 cost associated with this General Rate Case filing. He states that the net income impact is
- 8 \$111,877 and revenue impact of \$191,748 (CNG/304, Parvinen/Page 2 of 2, Column q).
- 9 O. IS THE COMPANY'S PROPOSED RATE CASE EXPENSE REASONABLE?
- No. The Company has included all of its rate case in the test year. This will allow it to recover this rate case ex pense in only one year. The Company has not filed a rate case for many years, and Cascade has not indicate d that it plans on making annual rate case filings. Therefore, it would be more appropriate to amortize its rate case expense over the period the rates determined in this proceeding are expected to be in effect. For example, if these rates are expected to be in effect for three years, then the rate case
- expense should be amortized over a three-year period.
- 17 Q. HAS CASCADE PROVIDED ANY INFORMATION THAT SUGGESTS IT WILL BE MAKING ANNUAL RATE CASE FILINGS?
- 19 **A.** Not to my knowledge.
- 20 Q. HAS CAS CADE OF FERED ANY REGULATORY MECHANISMS T HAT WOULD ALLOW IT TO DEFER MAKING ANNUAL RATE CASE FILINGS?
- 22 A. Yes. Cascade is proposing to implement a pipeline cost recovery mechanism ("CRM")
- 23 that will a llow for rate changes in between rate cases. This type of mechanism, if
- 24 approved, would allow Cascade to defer or lengthen the amount of time in between rate
- cases.

1	Q.	WHAT IS YOUR PROPOSAL?
2	A.	I recommend Cascade's rate case expense be amortized over at least a three-year period.
3		This assum es that Cascade will file rate cases about every three years. This is a
4		conservative estimate recognizing that Cascade has not filed a rate case for approximately
5		20 years, and it is proposing a CRM that, if approved, would allow it to delay rate case
6		filings going forward.
7 8 9	Q.	HOW DOES YOUR PROPOSED AM ORTIZATION OF THE RATE CASE EXPENSE IN THIS PROCEEDING IMPACT CASCADE'S CL AIMED REVENUE DEFICIENCY?
10	Α.	It reduces the revenue deficiency by \$121,832. Am ortizing rate case expense over a
11		three-year period will reduce the Company's \$191,748 rate case revenue requirem ent to
12		\$63,916 and, thus, reduce its claimed revenue deficiency by \$121,832.
13	I.D.	Planned Depreciation Rate Filing
14 15 16	Q.	PLEASE DESCRI BE YOUR PROPOSED ADJUSTM ENTS TO THE COMPANY'S RE VENUE DEFICIE NCY BASE DONI TS PL ANNED DEPRECIATION RATE FILING.
17	A.	The Com pany states that it plans to file for new depreciation rates in April 2015
18		(Parvinen/11). He states the new depr eciation rates will re duce income by \$284,333,
19		which increases the claimed revenue requirement by \$487,323 (CNG/304, Parvinen/Page
20		2 of 2, Column s). This adjustm ent has been removed as a not known and m easurable
21		expense change. This reduces the claimed revenue deficiency by \$487,323.
22 23 24	Q.	DO YOU BELIEVE IT IS APPROPRI ATE TO RECOGNIZE AN INCREASE IN DEPRECIATION EXPENSE IF THE COMPANY PLANS TO FILE FOR NEW DEPRECIATION RATES?
25	A.	No. Depreciation rate filings m ay show that the existing rates exceed reason able
26		recovery of the life of the largely new investments being made by Cascade in this

1	proceeding, less salvage adjustments. Indeed, new mains generally have longer expected
2	life than the mains being replaced, and salvage adjustments generally may be the same or
3	less than they have been in existing rates. Hence, if Cascade files for new depreciation
4	rates it is just as likely that its depreciation rates will be reduced, rather than increase, as
5	implied by Cascade's adjustm ent. Therefore, this proposed adjustm ent in depreciation
6	expense implies approval of higher depreciation rates, which is not a known and
7	measurable change to C ascade's cost of serv ice. Therefore, this p roposed adjustment
8	should be denied.

9 Q. HOW DOES REJECTION OF THE COMPANY'S ADJUSTMENT FOR NEW DEPRECIATION RATES IMPACT ITS CLAIMED REVENUE DEFICIENCY?

A. Rejecting the Com pany's proposed increase in its depreciation expense assum ing its proposed depreciation rate filing is approved, will reduce its claim ed revenue deficiency by \$487,323.

I.E. Plant Additions

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15 Q. PLEASE DESCRIBE CAS CADE'S PROPOS AL TO INCREAS E ITS COS T OF SERVICE FOR 2015 PLANT ADDITIONS.

- 17 **A.** Cascade states that it is including \$1 2.0 million of plant additions in 201 5 relative to the
 18 base period of 2014. Mr. Parvinen states these plant add itions reflect replacement of
 19 existing facilities which do not generate additional revenues.
 - Mr. Parvinen's schedules show an increase in rate bas e of \$11.75 m illion, and accumulated depreciation expense on the 2015 plant additions of \$568,710 and deferred tax of \$13,364.
- Mr. Parvinen developed the rate base ad justment by reflecting plant additions of \$12.0 m illion, reflecting one-half year of the 2015 increm ental depreciation exp ense

1		specific to these plant additions, along with accumulated deferred income taxes related to
2		the tim ing difference of book depreci ation and tax depreciation. (CNG/304,
3		Parvinen/Page 2 of 2, Column o).
4 5	Q.	IS MR. P ARVINEN'S 2015 P LANT ADDITIONS TEST YEAR COST OF SERVICE ADJUSTMENT REASONABLE?
6	A.	No. Mr. Parvinen's proposed 2015 plant additions adjustment is not balanced and does
7		not consider both increases and decreases to Cascade's post-test year net plant in-service.
8		Specifically, rate base will be changed based on increases in plant in-service after the test
9		year, but will also be decreas ed by an increase in accumulated depreciation after the end
10		of the 2014 test year. Hence, the net change in net plant and rate base after the test year
11		must reflect both 2015 plant additions and the post-2014 increase in accum ulated
12		depreciation.
13 14 15 16	Q.	PLEASE EXPLAIN HOW MR. PARVINEN'S 2015 PLANT ADDITIONS CAN BE ADJUSTED TO REF LECT A MORE AC CURATE PROJECT ED CHANGE I N CASCADE'S NET P LANT IN- SERVICE BASE D ON AL LT HE FACT ORS WHICH WILL CHANGE ITS RATE BASE IN 2015?
17	A.	Mr. Parvinen's 2015 plant adjus tment increases rate base by \$11.745 m illion as shown
18		below in my Table 4 o utlining Mr. Parvinen's plant additions to rate base. However, as
19		shown under Column 4, I show the necessary adjustment to the Company's proposed test
20		year rate base additions to reflect the build-up of accumulated depreciation in 2015 based
21		on depreciation expense recovered in 2014.
22		Based on this revision to the Com pany's proposed adjustment to rate base for
23		post-test year 2015 plant additions, I reco mmend that the Com pany's post-test year
24		adjustment be reflected to include both increases and decreases to rate base. This results
25		in a \$4.88 million reduction to the Company's claimed change in rate base based on post-
26		test year actions.

TABLE 4

2015 Post-Test Year

Plant Additions Rate Base Adjustment
(000)

		Per Cascade	2	Additional Post-Test Year Adj.	
<u>Description</u>	2014 <u>Rate Base</u> ¹ (1)	2015 Plant <u>Additions</u> ² (2)	Adj. Rate Base ³ (3)	Adjustment ⁴ (4)	2015 <u>Rate Base</u> ⁵ (5)
Plant in Service	\$180,947	\$12,043	\$192,990		\$192,990
Accumulated Depr.	(85,852)	(284)	(86,136)	(4,880)	(91,016)
CIAC 0					0
Cust. Adv. for Constr.	(538)		(538)		(538)
Def. Acc. Inc. Taxes	(25,740)	(13)	(25,753)		(25,753)
Deferred Debits	0				0
Working Capital Allow.	<u>2,199</u>		2,199		2,199
Total Rate Base	\$71,016	\$11,745	\$82,761	\$(4,880)	\$77,881

Sources:

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Mr. Parvinen's 2015 plant additions adjust ment to rate base and the claim ed revenue deficiency must be corrected to reflect increases and decreases in rate base for the post-test year period. This would require recognizing the \$1 2 million plant investments noted by Mr. Parvinen in this adjustment but also recognized a \$4.88 million increase in accumulated depreciation in 2015, relative to the 2014 test year, caused by the Company's collection of \$4.88 million of depreciation expense in 2014 from customers.

Hence, the net increase in net plant for 2015, relative to the 2014 test year, would be to reflect plant additions of \$12 m illion to account for Mr. Parv inen's incremental depreciation and deferred tax es, but also recognized an in crease to 2014 accumulated depreciation of \$4.88 million funded by depreciation expense recovered in 2014. This

¹CNGC/301, Parvinen/Page 1, Col. 1.

²CNGC/304, Parvinen/Page 2, Col. o.

³Sum Cols 1-2.

⁴CNGC/301, Parvinen/Page 1, Col. 1.

⁵Sum Cols 3-4.

1 results in an incremental rate base adjustment of \$6.865 m illion, rather than Mr. 2 Parvinen's estimated rate base adjustment of \$11.745 million. WITH YOUR ADJUSTMENT TO MR . PARVINEN'S PROPOSED 2015 PLANT 3 O. 4 IN-SERVICE ADJUSTMENT, HOW DOES THAT IMPACT THE COMPANY'S CLAIMED REVENUE DEFICIENCY? 5 6 A. An adjustment to rate base of \$4.88 million will lower Cascade's revenue requirement by \$524,100 based on a reduction of operating income and related income tax expense. 7 8 I.F. Environmental Remediation Expenses 9 Q. PLEASE DESCRIB E YOUR ADJUST MENT B ASED ON E NVIRONMENTAL 10 REMEDIATION EXPENSES. 11 Α. The Com pany proposes to increase its revenue requirem ent by \$482,405 to reflect 12 environmental remediation costs. (CNG/304, Parvinen/Page 2 of 2, Column u). 13 Mr. Parvinen describes these environm ental remediation costs at pages 25-28 of 14 his testimony. His testimony de monstrates that these costs largely do not relate to the provision of gas service for Cascade and ther efore it is no t clear whether or no t these 15 16 costs are appropriate to be recovered from retail customers. The Company's proposal for 17 environmental remediation costs also includes deferred costs from prior periods. 18 Q. IS THE COMPANY'S PROPOS AL FOR RECO VERING THESE ENVIRONMENTAL REMEDIATION COSTS REASONABLE? 19 20 A. No. Mr. Parvinen has not established why it is reasonable and prudent for the Company to include these environmental remediation costs in its retail cost of service. These costs 21 22 simply are not related to provisions of gas service to its Oregon retail custom ers. 23 Therefore, these costs should not be included in its rate structure. 24 Further, the Company's proposal to include deferred cost s in this test year rate-

setting adjustment is imbalanced and should be denied.

1		The Company has not shown if the Comm ission has given it authority to defer
2		these environmental remediation expenses, nor has it shown that it needed to define these
3		costs in prior periods in order to recover its cost of service. Mr. Parvinen states that the
4		Company did not experience an earnings surplus during the deferred tim e period.
5		However, the Com pany has also not establishe d that expens ing these co sts, rather than
6		deferring them, would have resulted in an earnings shortfall.
7		For all these reasons, the Com pany's claim ed recovery of environm ental
8		remediation expense has not been shown to be appropriate from retail customers, and the
9		Company has inflated the environ mental remediation costs to include deferrals of cost
10		incurred prior to the test year when its revenue collection may have already been capable
11		of providing recovery of the costs.
12 13	Q.	DO YOU RE COMMEND THE COMPANY'S ENVI RONMENTAL REMEDIATION EXPENSE BE INCLUDED IN ITS COST OF SERVICE?
	Q.	
13		REMEDIATION EXPENSE BE INCLUDED IN ITS COST OF SERVICE?
13 14	Α.	REMEDIATION EXPENSE BE INCLUDED IN ITS COST OF SERVICE? No. For the reasons stated abov e, the Company's proposal for an environm ental
131415	A. <u>II. C.</u>	REMEDIATION EXPENSE BE INCLUDED IN ITS COST OF SERVICE? No. For the reasons stated abov e, the Company's proposal for an environm ental remediation cost recovery of \$482,405 should be denied.
1314151617	A. <u>II. C.</u>	REMEDIATION EXPENSE BE INCLUDED IN ITS COST OF SERVICE? No. For the reasons stated abov e, the Company's proposal for an environm ental remediation cost recovery of \$482,405 should be denied. ASCADE PROPOSED REVENUE SPREAD HOW IS THE COMPANY PROP OSING TO SPRE AD THE CLAIMED
131415161718	A. II. C. Q.	REMEDIATION EXPENSE BE INCLUDED IN ITS COST OF SERVICE? No. For the reasons stated abov e, the Company's proposal for an environm ental remediation cost recovery of \$482,405 should be denied. ASCADE PROPOSED REVENUE SPREAD HOW IS THE COMPANY PROP OSING TO SPRE AD THE CLAIMED REVENUE DEFICIENCY IN THIS PROCEEDING?
 13 14 15 16 17 18 19 	A. II. C. Q.	REMEDIATION EXPENSE BE INCLUDED IN ITS COST OF SERVICE? No. For the reasons stated abov e, the Company's proposal for an environm ental remediation cost recovery of \$482,405 should be denied. ASCADE PROPOSED REVENUE SPREAD HOW IS THE COMPANY PROP OSING TO SPRE AD THE CLAIMED REVENUE DEFICIENCY IN THIS PROCEEDING? The Company's proposed revenue spread is developed by Cascade witness Ronald Amen
13 14 15 16 17 18 19 20	A. II. C. Q.	REMEDIATION EXPENSE BE INCLUDED IN ITS COST OF SERVICE? No. For the reasons stated abov e, the Company's proposal for an environm ental remediation cost recovery of \$482,405 should be denied. ASCADE PROPOSED REVENUE SPREAD HOW IS THE COMPANY PROP OSING TO SPRE AD THE CLAIMED REVENUE DEFICIENCY IN THIS PROCEEDING? The Company's proposed revenue spread is developed by Cascade witness Ronald Amen on his Exhibit CNG/501. As shown on that exhibit, Mr. Am en produces the Company's

in Table 5.

TABLE 5

<u>Company Proposed Revenue Spread</u>
(\$000)

<u>Description</u>	Rate <u>Schedule</u>	Revenue <u>Increase</u>	% Increase
Residential 101		\$1,358	8.32%
Commercial Service	104	1,410	18.77%
Industrial Service	105	133.1	28.15%
Large Volume Service	111	65.0	28.15%
General Distribution	163/164	646.3	28.15%
Interruptible 170		10.7	3.13%
Special Contracts	900	0	0%
Total System		\$3,623	12.51%
	_		

Source: Amen Exhibit CNG/501.

1 Q. IS MR. AMEN'S PROPOSED SPREAD OF THE REVE NUE DEFICI ENCY REASONABLE?

- 3 A. No. There are several deficiencies or erro rs in Mr. Amen's cost of service study.
- 4 Correcting this cost of service study resu lts in the following proposed spread of the
- 5 revenue deficiency in this proceedin g, using the Company's claimed revenue deficiency
- 6 for illustrative purposes only.

TABLE 6

Corrected Revenue Spread (Company Claimed Deficiency) (\$000)

<u>Description</u>	Rate Schedule	Revenue <u> </u>
Residential 1	01	\$1,810 11.09%
Commercial Service	104	1,394 18.55%
Industrial Service	105	133 28.15%
Large Volume Service	111	65 28.15%
General Distribution	163/164	130 5.68%
Interruptible 170		19 5.68%
Special Contracts	900	<u>71</u> <u>4.0%</u> *
Total System	111, 163/164, 170 and 900	\$3,623 12.51%

Source: Exhibit NWIGU/102, Gorman/Page 1 of 2.

1 Q. PLEASE DESCRIB E YOUR P ROPOSED CORRE CTIONS TO MR. AM EN'S CLASS COST OF SERVICE STUDY.

- 3 A. I propose two corrections to Mr. A men's class cost of service study. T hese include the
- 4 following:

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- 1. His LRIC p rojected meter costs for large customers are overstated. U sing inflated LRIC meter costs inflates his cost of service for Rate Schedules 111, 163/164, 170 and 900, and therefore overstates the revenue requirement for these classes.
- 2. Mr. Amen does not properly allocate the Co mpany's cost of service across all rate classes based on their load ch aracteristics that cause Cascad e to incur cost to se rve those classes. Mr. Amen develops his vol umetric allocation of core main costs by excluding the volum e used for Special Contracts cus tomers. This disto rts the allocation of approxim ately \$11.6 m illion of the Com pany's total revenue requirement. Hence, before any recogn ition is m ade of lim itations in ra te adjustments, Mr. Amen has simply not accurately measured Cascade's cost of service for each of the rate classes.

^{*}Based on two years of CPI changes.

1 Q. WHY DO YOU BE LIEVE CAS CADE HAS UNDERSTATED ITS LRIC M ETER COSTS TO ITS LARGE CUSTOMERS?

A.

Mr. Am en's allocation of LRIC meter costs is on its face highly questionable. For example, for Rate Schedules 163 and 164, Mr. Amen notes that there are 32 custom er accounts for the sy stem of 69,254, or about 0.05% of all cu stomer accounts on the system. However, in allocating increm ental costs of meters, Mr. Amen has allocated \$2.4 million out of \$23.8 million of total meter and regulator investment cost to this same rate class, or 10.1%. There is an obvious imbalance in his determination of meter costs for this rate class.

A m ore de tailed review shows more reasons to question the accuracy of Mr. Amen's LRIC for meters and regulators. The accuracy is highly questionable when you compare his cost relative to other large customer classes served by Cascade, and compared to costs used by other Oregon utilities in conducting LRIC gas cost of service studies. Specifically, I compared Cascade's meter regulator costs to those used by Avista and Northwest Natural in recent gas cost of service studies using an LRIC methodology to gain support by all parties in those rate cases. This comparison is shown in Table 7 below.

TABLE 7

Meter Cost Comparison

Description	Rate Class	Rate <u>Schedule</u>	Meter Cost
Cascade:1			
Industrial		105	\$5,944
Lg	Volume	111	33,417
Gen.	Distribution	163/164	75,516
Interruptible		170	135,029
Special	Contracts	900	167,448
Avista Oregon ²			\$8,902
Northwest Natural ³			\$5,334

Sources:

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As shown in the table above, Cascade's LRIC meter costs for its Classes 111, 163, 164, 170 and 900 are substantially higher then an Cascade's own meter cost estimate for its Class 105 customers. Cascade's meter costs for its Class 105 customers is in turn more consistent with the LRIC meter cost estimates used by Avista and Northwest Natural in their LRIC gas cose to fervice estudies. Further, are view of Mr. Amen's testimony failed to produce any support for his LRIC cost estimates for meters for these rate classes.

Q. HOW DO YOU P ROPOSE TO CORRE CT MR. AMEN'S LRIC COS TS TO REFLECT A MORE REASONABLE LRIC METER COST ESTIMATE?

Mr. Amen's meter cost estimates for these rate classes appear to be overstated by a factor of 10. Therefore, I adjusted his LRIC meter cost estimate by a factor of 1/10, to produce

¹Amen CNG/502, line 17 ÷ line 3 (for specific rate schedule)

²UG 284, Avista Utilities, Exhibit No. 801; Miller/Avista Incremental Investment Costs.

³UG 221, NWN/1101, Feingold/9, Incremental customer-related distribution costs, meters and regulators.

- 1 LRIC meter costs that are more in line with his estimate for Cascade's Schedule 105, and 2 the meter cost estimates made by Avista and Northwest Natural.
- Q. DID YOU CORRE CT MR. AM EN'S CL ASS COST OF SERVICE STUDY TO
 4 REFLECT THESE ADJUSTMENTS?
- 5 A. Yes. This is shown in my Exhibit NW IGU/102, page 2. As shown in this exhibit on
- 6 lines 19 through 27, I have adjusted the LRIC cost for large meters for larger customers,
- 7 and to spread pipeline costs based on all volume and demand billing units for each of the
- 8 rate classes. This produces an undistorted cost of service for each rate class.
- 9 Q. PLEASE DESCRI BE HOW YOU PROPOSE TO SPREAD THE COMPANY' S
 10 CLAIMED REVENUE DEFICIENCY IN THIS PROCEEDING.
- 11 **A.** My proposed spread of the revenue deficiency is very similar to Mr. Amen's. I followed the following steps in producing my proposed revenue spread:
- 13 1. I compared the current revenues to the class cost of service study to determ ine the amount of rate increase necessary to bring each rate class up to cost of service.
 - 2. I recognized certain classes that have limits and adjustments to rates and considered these rate limits in a llocating additional revenues to those classes. Specifically, the Special Contracts rates have tariff provisions which allow for rate adjustments equal to only the CPI rate. Hence, I made CPI rate adjustments for 2015 and 2016 (the rate-effective year) to reflect increased revenues from this rate class.
 - 3. I did not propose to reduce rates that are measured to be above cost of service.
- 4. Using this methodology as a general guide, and the effort to move each rate class to produce the revenue deficiency, I arrived to what I believe to be a reason able spread across rate classes. My final spread, however, was tempered by ensuring that no rate class got more than a 2.25x sy stem average increase. This last step was designed in order to ensure that no rate class got an extraordinary increase in this proceeding, and therefore w as maintained reasonably close within a range of the system average increase.

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1 Q. BASED ON THIS M ETHODOLOGY, WHAT IS YOUR PROP OSED SPREAD FOR EACH RATE CLASS?

A. My proposed rate spread reflecting the Co mpany's claim ed revenue deficiency for
 illustrative purposes on ly, is show n on m y Exhibit NW IGU/103 and summ arized in
 Table 8 below.

Class Cost o	f Service Spread	<u>d</u>	
<u>Description</u> \$	Gor Increase %	man Propos Increase I	
Residential (101)	541	3.32%	1.0
Commercial Service (104)	249	3.32%	1.0
Industrial Service (105)	35	7.47%	2.25
Large Volume Service (111)	17	7.47%	2.25
General Distribution (163+164)	40	1.75%	0.53
Interruptible (170)	6	1.75%	0.53
Special Contracts (900)	71	<u>4.00%</u> 1.2	21
System Total	\$961.0	3.32%	

As shown on Exhibit NW IGU/103 and Table 8, no class received m ore than a 2.25x system average increase, and the Special Contracts customers' rates were increased by two years of CPI rate increases.²/

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Based on *The Blue Chip Financial Forecasts*, July 2, 2015, CPI was assu med to be approximately 2% in 2015 and 2% in 2016. This produced a two-year inflation to the rates under this class of around 4%.

As shown on page 1 of that exhibit, I s how the proposed spread of m y estimated revenue deficiency of \$961,000. The sam e steps were used to produce this rate spread along with limitations on increases to any specific rate class for gradualism, and no rate class would get a rate decrease.

III. PIPELINE COST RECOVERY MECHANISM ("CRM")

6 Q. IS THE COMPANY PROPO SING TO IMPLEM ENT A CRM IN THIS PROCEEDING?

8 Yes. The Company states that the CRM will provide timely recovery of costs incurred to A. 9 promote safety and relia bility of Cascade's distribution system. These costs will ref lect 10 incremental revenue requirem ent for pipelin e costs that are not revenue producing investments.^{3/} The Company claim s that a CRM is necessary to provide Cascade full 11 12 recovery of its co sts of providing sa fe and re liable service, and will d efer the need f or 13 frequent rate filings needed to produce rate support for the Di stribution Integrity 14 Management Plan ("DIMP").

15 Q. PLEASE DESCRIBE HOW THE CO MPANY PROPOSES TO PRODUCE CHARGES UNDER THE CRM.

As described by Mr. Parvinen at pages 28- 32 of his testimony and as developed on his 17 Α. 18 Exhibit CNG/311, Cascade proposes to develo p a revenue requirem ent for increm ental 19 plant additions categorized as rep lacement projects. Those plant additions then will be 20 adjusted for depreciation in the year incurred, deferred taxes related to the recorded 21 depreciation in the year in curred, to develop a rate base com ponent of the plant 22 investment. The revenue requirement then is based on a rate of return, related income tax 23 expense, and depreciation expense related to those plant investm ents. That revenue

 $[\]frac{3}{2}$ CNG/300 at Parvinen/28.

requirement then will be spread across rate classes using the main incremental investment
allocation of the utility's m ost recently approved class cost of service study. The class
allocated share will then be stated into a volumetric charge for all customers within each
rate class.

5 Q. IS THE COMPANY'S CRM AS DESCRIBED REASONABLE?

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No. The Com pany has not established that a CRM is needed in order to provide it an ability to adjust its rates to fully recover its cost of service. Pipe line safety trackers such as the CRM should be reserved for extraord inary investments, and only if the Com pany can show that the traditional regulatory process is inadequate to recover these costs. No showing has been made here. The Company's claim for a CRM to eliminate the need for more frequent rate cases m ay benefit the Company by accelerating and simplifying its ability to increase a rates. But, simple a nd accelerated rate change authorization is detrimental to customers' interest because rates can be increased using trackers without a full review of the Company's costs and revenues. As such, these tracker mechanisms represent extraordinary regulatory procedures which tilt the balance in favor of investors by eliminating the utility's need to prove a rate increase is justified. For these reasons the proposed CRM should be rejected.

18 Q. IF THE COMMISSION APPROVES THE PROPOSED CRM, SHOULD MODIFICATIONS BE MADE TO CASCADE'S PROPOSAL?

- 20 **A.** Yes. The following modifications should be made to Cascade's proposed CRM if the Commission decides one is appropriate and balanced from both investor and custom er perspectives. These modifications include the following:
- 1. If the CRM is implemented, Cascade should be obligated to make a base rate filing at least every three years. The annual rate changes produced through the CRM may produce revenues that allow Cascade to more than recover its cost of service. Hence,

a regular calibration of its base rates is necessary to ensure that the CRM mechanism does not create unnecessary and unjustified rate burdens on customers.

2. The CRM should have a sunset provision. Cascade claims the need for an increase right now because it is replacing non-revenu e producing investments. Cascade should demonstrate that those capital investment obligations are limiting its ability to timely adjust rates to recover its cost of service. Importantly, Cascade has not provided this proof in this case.

Nevertheless, sunset provisions shoul d be imposed on Cascade so it is obligated to come in and prove its current traditional regulatory mechanisms are not adequate to allow it to adjust rates to fully recover its cost of service after the CRM is in effect for a reasonable period. Initially, I propose a sunset provision of three years. If the Commission approves the CRM, it will terminate in three years, unless Cascade proves it is in the public interest to continue the CRM.

- 3. The CRM should be lim ited to only qualifying investments that are non-revenue producing as the Company asserts is the purpose of the CRM. This should require the Company to identify specific Federal Energy Regulatory Commission ("FERC") accounts that will be designated as qualifying investments that are non-revenue producing, and should qualify to be recovered in the CRM.
- 4. The revenue requirem ent of these qualifying CRM inve stments then should be adjusted to reflect a roll-forward of accumulated depreciation that is recovered in base rates for the specified F ERC accounts. This will recognize the incremental capital investment made by Cascade is offset by recovery of embedded plant investment recorded in the designed FERC accounts.
- 5. The Company's proposed intra-class cost r ecovery of CRM investments on a dollars per volumetric basis should be denied. Instead, the CRM should be a percent of non-gas bill. This will ensure that the proper cost allo cation of Cascad e's costs is reasonably allocated to customers within each rate class function.

28 Q. CAN YOU PROVI DE SOME DE TAIL DES CRIBING YOUR PROPOSED REVISIONS TO THE COMPANY'S PROPOSED CRM MECHANISM?

Yes. Referring to Mr. Parvinen's CNG/311, he develops a rate base value of the qualifying CRM investments by considering only depreciation expense applicable to the incremental CRM investment. This is not a ppropriate and will overstate the Company's net plant in vestment over time because it is not recognizing that in cremental plant investments are offset by recurring depreciation expense receipts in measuring change to

total "net" plant. Hence, it does not properly m easure the Com pany's net plant investment for these qualifying pipeline replacement costs.

To correct this, line 13 of Mr. Parvin en's CNG/311, should include both one-half year of the depreciation expense associated with the incremental plant investment, plus a full year of the depreciation expense that a ligns with the qualif ying CRM plant investments recovered by the Company in the prior year, less the amount included in base rates in the Company's most recent rate case filing.

For example, if the Company had accumulated depreciation reserved for CRM qualifying plant accounts of \$1,000 in its last rate case, and at the end of the following year the first year accumulated depreciation on qualifying CRM increased to \$1,100, then the additional \$100 of accumulated depreciation should be recognized in the CRM in order to estimate the incremental "net" plant value of qualifying CRM investments. This will ensure that the Company is a llowed to earn a fair return on its net plant investment for CRM qualifying investments, which includes its invested capital recovered in base rates, and its invested capital recovered in the CRM surcharge.

Without this important adjustment in developing the revenue requirement in the CRM, customers will be exposed to paying higher rates than necessary to provide the Company the full revenue requirement attributable to its net plant in-service for CRM qualifying investments, which will result in the combination of base rates and CRM surcharges not being just and reasonable.

O. DOES THIS CONCLUDE YOUR OPENING TESTIMONY?

A. Yes, it does.

BEFORE THE PUBLIC UTILITY COMMISSION OF OREGON

UG 287

In the Matter of)
CASCADE NATURAL GAS CORPORATION,)
Request for a General Rate Revision.)))

EXHIBIT NWIGU/101 QUALIFICATIONS OF MICHAEL P. GORMAN

July 31, 2015

1 ().	PLEASE	STATE YOUR	NAME AND	BUSINESS	ADDRESS
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- 2 Α Michael P. Gorman. My business address is 16690 Swingley Ridge Road, Suite 140,
- 3 Chesterfield, MO 63017.
- 4 0 PLEASE STATE YOUR OCCUPATION.
- 5 I am a consultant in the field of public utility regulation and a Managing Principal with A
- 6 Brubaker & Associates, Inc. ("BAI"), energy, economic and regulatory consultants.

7 Q PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND AND WORK

8 EXPERIENCE.

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In 1983 I received a Bachelors of Science Degree in Electrical Engineering from Southern Illinois University, and in 1986, I received a Masters Degree in Business Administration with a concentration in Finance from the University of Illinois at Springfield. I have also completed several graduate level economics courses.

In August of 1983, I accepted an analyst position with the Illinois Commerce Commission ("ICC"). In this position, I performed a variety of analyses for both formal and informal investigations before the ICC, including: marginal cost of energy, central dispatch, avoided cost of energy, annual system production costs, and working capital. In October of 1986, I was promoted to the position of Senior Analyst. In this position, I assumed the additional responsibilities of technical leader on projects, and my areas of responsibility were expanded to include utility financial modeling and financial analyses.

In 1987, I was promoted to Director of the Financial Analysis Department. In this position, I was responsible for all financial analyses conducted by the Staff. Among other things, I conducted analyses and sponsored testimony before the ICC on rate of return, financial integrity, financial modeling and related issues. I also supervised the development of all Staff analyses and testimony on these same issues. In addition, I

supervised the Staff's review and recommendations to the Commission concerning utility plans to issue debt and equity securities.

In August of 1989, I accepted a position with Merrill-Lynch as a financial consultant. After receiving all required securities licenses, I worked with individual investors and small businesses in evaluating and selecting investments suitable to their requirements.

In September of 1990, I accepted a position with Drazen-Brubaker & Associates, Inc. ("DBA"). In April 1995, the firm of Brubaker & Associates, Inc. was formed. It includes most of the former DBA principals and Staff. Since 1990, I have performed various analyses and sponsored testimony on cost of capital, cost/benefits of utility mergers and acquisitions, utility reorganizations, level of operating expenses and rate base, cost of service studies, and analyses relating to industrial jobs and economic development. I also participated in a study used to revise the financial policy for the municipal utility in Kansas City, Kansas.

At BAI, I also have extensive experience working with large energy users to distribute and critically evaluate responses to requests for proposals ("RFPs") for electric, steam, and gas energy supply from competitive energy suppliers. These analyses include the evaluation of gas supply and delivery charges, cogeneration and/or combined cycle unit feasibility studies, and the evaluation of third-party asset/supply management agreements. I have participated in rate cases on rate design and class cost of service for electric, natural gas, water and wastewater utilities. I have also analyzed commodity pricing indices and forward pricing methods for third party supply agreements, and have also conducted regional electric market price forecasts.

In addition to our main office in St. Louis, the firm also has branch offices in Phoenix, Arizona and Corpus Christi, Texas.

3 Q HAVE YOU EVER TESTIFIED BEFORE A REGULATORY BODY?

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Yes. I have sponsored testimony on cost of capital, revenue requirements, cost of service and other issues before the Federal Energy Regulatory Commission and numerous state regulatory commissions including: Arkansas, Arizona, California, Colorado, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Louisiana, Michigan, Missouri, Montana, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, South Carolina, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, and before the provincial regulatory boards in Alberta and Nova Scotia, Canada. I have also sponsored testimony before the Board of Public Utilities in Kansas City, Kansas; presented rate setting position reports to the regulatory board of the municipal utility in Austin, Texas, and Salt River Project, Arizona, on behalf of industrial customers; and negotiated rate disputes for industrial customers of the Municipal Electric Authority of Georgia in the LaGrange, Georgia district.

16 Q PLEASE DESCRIBE ANY PROFESSIONAL REGISTRATIONS OR ORGANIZATIONS TO WHICH YOU BELONG.

I earned the designation of Chartered Financial Analyst ("CFA") from the CFA Institute.

The CFA charter was awarded after successfully completing three examinations which covered the subject areas of financial accounting, economics, fixed income and equity valuation and professional and ethical conduct. I am a member of the CFA Institute's Financial Analyst Society.

BEFORE THE PUBLIC UTILITY COMMISSION

OF OREGON

	UG 287
In the Matter of)
CASCADE NATURAL GAS CORPORATION,)
Request for a General Rate Revision.)
Request for a General Rate Revision.)

EXHIBIT NWIGU/102

LONG RUN INCREMENTAL COST (LRIC) STUDY DEVELOPMENT OF ADJUSTED NON-GAS REVENUE CLASS INCREASES

July 31, 2015

Cascade Natural Gas Corp. Oregon Jurisdiction Docket No. UG 287

Long Run Incremental Cost (LRIC) Study

<u>Development of Adjusted Non-Gas Revenue Class Increases</u>

		Long Run Ir	Step 1		Step 2					Step 3						
Line Rate Class			Revenue @ Revenue		Non-Gas Revenue <u>Increase</u> (3)	Percent Increase (4)	Adjustment to Class <u>Increases</u> (5)	Increase to Current Revenue (6)	Shortfall Spread (7)	New Revenue <u>Increase</u> (8)	<u>Increa</u> <u>Amount</u> (9)	ese Percent (10)	Return Index (11)	<u>Increa</u> <u>Revenue</u> (12)	nse Percent (13)	Return Index (14)
1	Residential	101	\$16,312,863	\$16,801,484	\$488,621	3.00%	\$16,801,484	\$488,621	\$953,827	\$17,755,311	\$1,442,448	8.84%	0.71	\$1,809,733	11.09%	0.89
2	Commercial	104	7,513,446	8,257,847	744,401	9.91%	\$8,257,847	\$744,401	\$468,801	\$8,726,648	\$1,213,202	16.15%	1.29	\$1,393,721	18.55%	1.48
3	Industrial	105	472,884	967,044	494,160	104.50%	\$967,044	\$494,160	\$54,899	\$1,021,943	\$549,059	116.11%	9.28	\$133,127	28.15%	2.25
4	Lg Volume	111	230,926	404,828	173,902	75.31%	\$404,828	\$173,902	\$22,982	\$427,810	\$196,884	85.26%	6.81	\$65,011	28.15%	2.25
5	Gen. Distribution	163+164	2,295,862	1,823,890	(471,972)	-20.56%	2,295,862	\$0	\$130,337	\$2,426,199	\$130,337	5.68%	0.45	\$130,337	5.68%	0.45
6	Interruptible	170	340,717	228,266	(112,451)	-33.00%	340,717	\$0	\$19,343	\$360,060	\$19,343	5.68%	0.45	\$19,343	5.68%	0.45
7	Special Contracts	900	1,787,429	4,093,538	2,306,109	129.02%	1,858,926	\$71,497	\$0	\$1,858,926	\$71,497	4.00%	0.32	\$71,497	4.00%	0.32
8	Total		\$28,954,127	\$32,576,897	\$3,622,770	12.51%	\$30,926,708	\$1,972,581	\$1,650,189	\$32,576,897	\$3,622,770	12.51%	1.00	\$3,622,770	12.51%	1.00

Cascade Natural Gas Corp. Oregon Jurisdiction Long Run Incremental Cost (LRIC) Study Summary

Line #	Description		Total	F	101 Residential Service	C	104 Commercial Service		105 Industrial Service	Li	111 arge Volume Service		163+164 General	In	<u>170</u> sterruptible	(900 Special Contracts
					core		core		core		core		non-core		core		non-core
1	Billing Determinants																
2	Peak Day Forecast		83,138		46,988		32,086		2,617		1,447		0		0		0
3	Customer Count		69,254		59,252		9,839		111		13		32		4		4
4	Throughput		33,745,469		3,944,203		2,790,590		253,388		157,985		3,478,380		276,803		22,844,121
5																	
6	O&M Costs																
7	Gas Supply Related																
8	Gas Planning	\$	26,165	\$	11,922	\$	8,191	\$	681	\$	386	\$	640	\$	143	\$	4,201
9	Gas Supply	\$	44,079	\$	17,347	\$	12,273	\$	1,114	\$	695	\$	1,511	\$	1,217	\$	9,922
10	Gas Control	\$	95,077	\$	37,043	\$	26,208	\$	2,380	\$	1,484	\$	12,058	\$	2,600	\$	13,305
11	Customer Related																
12	Meter Reading	\$	253,003	\$	211,393	\$	35,101	\$	396	\$	1,499	\$	3,691	\$	461	\$	461
13	Customer Acct records & collect.	\$	1,229,953	\$	1,048,824	\$	174,154	\$	1,964	\$	230	\$	3,825	\$	478	\$	478
14	Billing Postage & Printing	\$	346,211	\$	296,208	\$	49,184	\$	555	\$	65	\$	160	\$	20	\$	20
15	Uncollectible	\$	278,894	\$	226,650	\$	52,214	\$	30	\$	-	\$	-	\$	-	\$	-
16	Subtotal: O&M Costs	\$	2,273,382	\$	1,849,385	\$	357,326	\$	7,120	\$	4,359	\$	21,884	\$	4,920	\$	28,388
17							•		-		-		-		-		-
18	Customer Investment Carrying Costs																
19	Meter	\$	2,935,074	\$	1,600,768	\$	1,179,345	\$	95,899	\$	6,318	\$	35,146	\$	7,856	\$	9,742
20	Service	\$	12,417,164	\$	10,226,363	\$	1,885,694	\$	51,727	\$	16,710	\$	177,124	\$	46,631	\$	12,914
21	Mains	\$	11,632,431	\$	4,526,025		1,085,696		921,423		241,753		2,758,597		382,489		1,716,447
22	Subtotal: Customer Investment Costs	\$	26,984,669		16,353,156		4,150,736		1,069,050		264,781		2,970,867		436,976		1,739,103
23											-				-		
24	System Core Main Carrying Costs																
25	Capacity	\$	37,706,253	\$	21,302,440	\$	14,546,501	\$	1,186,418	\$	655,982	\$	-	\$	-	\$	14,912
26	, ,		, ,				, ,				,						•
27	Commodity	\$	12,881,733	\$	1,675,488	\$	1,185,436	\$	107,639	\$	67,111	\$	1,477,607	\$	117,585	\$	8,250,866
28	Subtotal: System Core Main Costs	\$	50,587,986		22,977,928		15,731,937		1,294,056		723,094		1,477,607		117,585		8,265,778
29		•	,	•	,- ,	•	-, - ,	•	, - ,	•	-,	•	, ,	•	,	•	.,,
30	LRIC - Distribution	\$	79,846,037	Ś	41,180,470	Ś	20,239,999	Ś	2,370,226	Ś	992,234	Ś	4,470,358	Ś	559.481	Ś	10,033,269
31		•	-,,	•	,,	•	,,	•	,,	•	,	•	, -,	•		•	.,,
32	Fuctional Cost Assignment by LRIC																
33	Scheduling & Planning	\$	165,321	Ś	66,311	\$	46,673	Ś	4,176	\$	2,565	Ś	14,208	Ś	3,960	Ś	27,428
34	Meter Reading, Billing etc.	\$	2,108,061		1,783,074		310,653		2,944		1,795		7,676		960		960
35	Meters, Services & Mains extensions	\$	26,984,669		16,353,156		4,150,736		1,069,050		264,781		2,970,867		436,976		1,739,103
36	Sysctem Core Mains	\$		\$	22,977,928		15,731,937		1,294,056		723,094		1,477,607			\$	8,265,778
37	Total	\$	79,846,037		41,180,470		20,239,999		2,370,226		992,234		4,470,358				10,033,269
38		•	10,010,001	•	,,	•	,,,	•	_,	•	,	•	,,,,,,,,,,	•	,	•	
39	Non-Gas Revenue at Current Rates	\$	28,954,127	Ś	16,312,863	Ś	7,513,446	Ś	472,884	Ś	230,926	\$	2,295,862	Ś	340,717	\$	1,787,429
40	Proposed Increase	\$	3,622,770	*	,,	*	.,,	*	,	*	_30,520	*	_,,	*	- : - / - /	*	-, ,
41	LRIC Based Non-gas Rev Req.	\$	32,576,897	Ś	16,801,484	Ś	8,257,847	Ś	967,044	Ś	404,828	Ś	1,823,890	Ś	228,266	\$	4,093,538
42	Revenue to Cost Ratio	•	3-,0.0,001	Υ	0.97	Υ.	0.91	Ψ.	0.49	Ψ	0.57	Ψ.	1.26	Ψ.	1.49	~	0.44
43					0.57		5.51		0.43		3.37		1.20		2.13		J
44	Incremental Non-gas Revenue Req.	\$	3,622,770	\$	488,621	\$	744,401	\$	494,160	\$	173,902	\$	(471,972)	\$	(112,451)	\$	2,306,109

BEFORE THE PUBLIC UTILITY COMMISSION

OF OREGON

In the Matter of)

CASCADE NATURAL GAS)

CORPORATION,)

Request for a General Rate Revision.)

EXHIBIT NWIGU/103

LONG RUN INCREMENTAL COST (LRIC) STUDY REVISED REVENUE DEFICIENCY SCENARIO DEVELOPMENT OF ADJUSTED NON-GAS REVENUE CLASS INCREASES

July 31, 2015

Cascade Natural Gas Corp. Oregon Jurisdiction Docket No. UG 287

Long Run Incremental Cost (LRIC) Study
Revised Revenue Deficiency Scenario
Development of Adjusted Non-Gas Revenue Class Increases

			Long Run Ir	ncremental Cost	(LRIC) Study F	Results	Step 1		Step 2					Step 3		
<u>Line</u>	Line Rate Class		Non-Gas Revenue @ <u>Current Rates</u> (1)	nue @ Revenue Revenue Percer t Rates Requirement Increase Increas		Percent Increase (4)	Adjustment Increase to Class to Current Increases (5) (6)		Excess Spread (7)	New Revenue <u>Increase</u> (8)	Increa Amount (9)	Percent (10)	Return Index (11)	Increa Revenue (12)	Return Index (14)	
1	Residential	101	\$16,312,863	\$15,428,680	(\$884,183)	-5.42%	\$16,312,863	\$0	\$154,873	\$16,467,736	\$154,873	0.95%	0.29	\$541,431	3.32%	1.00
2	Commercial	104	7,513,446	7,583,121	69,675	0.93%	\$7,583,121	\$69,675	\$71,993	\$7,655,114	\$141,668	1.89%	0.57	\$249,375	3.32%	1.00
3	Industrial	105	472,884	888,029	415,145	87.79%	\$888,029	\$415,145	\$8,431	\$896,460	\$423,576	89.57%	26.99	\$35,314	7.47%	2.25
4	Lg Volume	111	230,926	371,750	140,825	60.98%	\$371,750	\$140,825	\$3,529	\$375,280	\$144,354	62.51%	18.83	\$17,245	7.47%	2.25
5	Gen. Distribution	163+164	2,295,862	1,674,865	(620,997)	-27.05%	\$2,295,862	\$0	\$21,797	\$2,317,659	\$21,797	0.95%	0.29	\$40,175	1.75%	0.53
6	Interruptible	170	340,717	209,615	(131,102)	-38.48%	\$340,717	\$0	\$3,235	\$343,952	\$3,235	0.95%	0.29	\$5,962	1.75%	0.53
7	Special Contracts	900	1,787,429	\$3,759,066	1,971,637	110.31%	1,858,926	\$71,497	\$0	\$1,858,926	\$71,497	4.00%	1.21	\$71,497	4.00%	1.21
8	Total		\$28,954,127	\$29,915,127	\$961,000	3.32%	\$29,651,269	\$697,142	\$263,858	\$29,915,127	\$961,000	3.32%	1.00	\$961,000	3.32%	1.00

Cascade Natural Gas Corp. Oregon Jurisdiction

Long Run Incremental Cost (LRIC) Study Summary

Line #	Description		Total		101 Residential Service	(104 Commercial Service		105 Industrial Service	La	111 arge Volume Service		163+164 General Distribution	In	170 terruptible		900 Special Contracts
					core		core		core		core		non-core		core		non-core
1	Billing Determinants																
2	Peak Day Forecast		83,138		46,988		32,086		2,617		1,447		0		0		0
3	Customer Count		69,254		59,252		9,839		111		13		32		4		4
4	Throughput		33,745,469		3,944,203		2,790,590		253,388		157,985		3,478,380		276,803		22,844,121
5																	
6	O&M Costs																
7	Gas Supply Related																
8	Gas Planning	\$	26,165	\$	11,922	\$	8,191	\$	681	\$	386	\$	640	\$	143	\$	4,201
9	Gas Supply	\$	44,079	\$	17,347	\$	12,273	\$	1,114	\$	695	\$	1,511	\$	1,217	\$	9,922
10	Gas Control	\$	95,077	\$	37,043	\$	26,208	\$	2,380	\$	1,484	\$	12,058	\$	2,600	\$	13,305
11	Customer Related																
12	Meter Reading	\$	253,003	\$	211,393	\$	35,101	\$	396	\$	1,499	\$	3,691	\$	461	\$	461
13	Customer Acct records & collect.	\$	1,229,953	\$	1,048,824	\$	174,154	\$	1,964	\$	230	\$	3,825	\$	478	\$	478
14	Billing Postage & Printing	\$	346,211	\$	296,208	\$	49,184	\$	555	\$	65	\$	160	\$	20	\$	20
15	Uncollectible	\$	278,894	\$	226,650	\$	52,214	\$	30	\$	-	\$	-	\$	-	\$	-
16	Subtotal: O&M Costs	\$	2,273,382	\$	1,849,385	\$	357,326	\$	7,120	\$	4,359	\$	21,884	\$	4,920	\$	28,388
17																	
18	Customer Investment Carrying Costs																
19	Meter	\$	2,935,074	\$	1,600,768	\$	1,179,345	\$	95,899	\$	6,318	\$	35,146	\$	7,856	\$	9,742
20	Service	\$	12,417,164	\$	10,226,363	\$	1,885,694	\$	51,727	\$	16,710	\$	177,124	\$	46,631	\$	12,914
21	Mains	\$	11,632,431	\$	4,526,025	\$	1,085,696	\$	921,423	\$	241,753	\$	2,758,597	\$	382,489	\$	1,716,447
22	Subtotal: Customer Investment Costs	\$	26,984,669	\$	16,353,156	\$	4,150,736	\$	1,069,050	\$	264,781	\$	2,970,867	\$	436,976	\$	1,739,103
23																	
24	System Core Main Carrying Costs																
25	Capacity	\$	37,706,253	\$	21,302,440	\$	14,546,501	\$	1,186,418	\$	655,982	\$	-	\$	-	\$	14,912
26																	
27	Commodity	\$	12,881,733	\$	1,675,488	\$	1,185,436	\$	107,639	\$	67,111	\$	1,477,607	\$	-	\$	8,250,866
28	Subtotal: System Core Main Costs	\$	50,587,986	\$	22,977,928	\$	15,731,937	\$	1,294,056	\$	723,094	\$	1,477,607	\$	117,585	\$	8,265,778
29																	
30	LRIC - Distribution	\$	79,846,037	\$	41,180,470	\$	20,239,999	\$	2,370,226	\$	992,234	\$	4,470,358	\$	559,481	\$	10,033,269
31																	
32	Fuctional Cost Assignment by LRIC																
33	Scheduling & Planning	\$	165,321	\$	66,311	\$	46,673	\$	4,176	\$	2,565	\$	14,208	\$	3,960		27,428
34	Meter Reading, Billing etc.	\$	2,108,061	\$	1,783,074	\$	310,653	\$	2,944	\$	1,795	\$	7,676	\$	960	\$	960
35	Meters, Services & Mains extensions	\$	26,984,669	\$	16,353,156	\$	4,150,736	\$	1,069,050	\$	264,781	\$	2,970,867	\$	436,976	\$	1,739,103
36	Sysctem Core Mains	\$	50,587,986	\$	22,977,928	\$	15,731,937	\$	1,294,056	\$	723,094	\$	1,477,607	\$	117,585	\$	8,265,778
37	Total	\$	79,846,037	\$	41,180,470	\$	20,239,999	\$	2,370,226	\$	992,234	\$	4,470,358	\$	559,481	\$	10,033,269
39	Non-Gas Revenue at Current Rates	\$	28,954,127	Ś	16,312,863	Ś	7,513,446	Ś	472,884	Ś	230,926	Ś	2,295,862	Ś	340,717	Ś	1,787,429
40	Proposed Increase	\$	961,000	7	10,012,003	7	.,513,440	7	472,004	7	230,320	7	2,233,002	7	3-3,717	~	1,,0,,423
41	LRIC Based Non-gas Rev Req.	\$	29,915,127	ς	15,428,680	ς	7,583,121	ς	888,029	Ś	371,750	ς	1,674,865	\$	209,615	\$	3,759,066
42	Revenue to Cost Ratio	Ţ	_3,313,127	Y	1.06	Y	0.99	Y	0.53	Y	0.62	Y	1.37	Y	1.63	Y	0.48
43	nerende to cost natio				1.00		0.55		0.55		0.02		1.37		1.03		0.40
44	Incremental Non-gas Revenue Req.	\$	961,000	\$	(884,183)	\$	69,675	\$	415,145	\$	140,825	\$	(620,997)	\$	(131,102)	\$	1,971,637