BEFORE THE

PUBLIC UTILITY COMMISSION OF OREGON

UG 435

| In the Matter of | , |
|---|---|
| NORTHWEST NATURAL GAS CORPORATION, dba NW NATURAL, | , |
| Request for a General Rate Revision. | ; |

OPENING TESTIMONY OF

BRADLEY G. MULLINS

ON BEHALF OF

ALLIANCE OF WESTERN ENERGY CONSUMERS

[Redacted]

APRIL 22, 2022

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EXHIBIT LIST

AWEC/101 – Qualification Statement of Bradley G. Mullins

AWEC/102 – Revenue Requirement Summary

AWEC/103 – Responses to Data Requests

AWEC/104 – Capital Forecast Analysis

AWEC/105 – Non-Labor O&M Analysis

AWEC/106 – Schedule 197 – Pension Balancing Account Revenue Analysis

AWEC/107 – Schedule 183 – Environmental Cost Recovery Revenue Analysis

| 1 | | I. INTRODUCTION AND SUMMARY |
|----|----|---|
| 2 | Q. | PLEASE STATE YOUR NAME AND OCCUPATION. |
| 3 | A. | My name is Bradley G. Mullins. I am a Consultant for MW Analytics, an independent |
| 4 | | consulting firm representing utility customers before state public utility commissions in the |
| 5 | | Northwest and Intermountain West. My witness qualification statement can be found in |
| 6 | | Exhibit AWEC/101. |
| 7 | Q. | PLEASE IDENTIFY THE PARTY ON WHOSE BEHALF YOU ARE TESTIFYING. |
| 8 | A. | I am testifying on behalf of the Alliance of Western Energy Consumers ("AWEC"). AWEC is |
| 9 | | a non-profit trade association whose members are large energy users in the Western United |
| 10 | | States, including customers receiving gas sales and transportation services from NW Natural |
| 11 | | Corporation ("NW Natural"). |
| 12 | Q. | WHAT IS THE PURPOSE OF YOUR TESTIMONY? |
| 13 | A. | I discuss my initial review of NW Natural's proposed \$78,030,413 revenue requirement |
| 14 | | increase, which if approved, would result in a 17.5% margin rate increase. In my testimony, I |
| 15 | | discuss my proposed adjustments to NW Natural's filed case. I also discuss and respond to |
| 16 | | NW Natural's proposed rate spread, the Renewable Tracking Mechanism ("RTM") and costs |
| 17 | | associated with the Lexington Renewable Natural Gas ("RNG") production facility. |
| 18 | Q. | WHAT WAS THE SCOPE OF YOUR REVIEW? |
| 19 | A. | I reviewed NW Natural's filed testimony, workpapers and revenue requirement and rate design |
| 20 | | models. I submitted multiple rounds of data requests and reviewed NW Natural's responses to |
| 21 | | those requests. I also reviewed NW Natural's 's response to data requests submitted by |

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Commission Staff and the Oregon Citizens' Utility Board.

1 Q. PLEASE SUMMARIZE YOUR PRINCIPAL RECOMMENDATIONS AND CONCLUSIONS.

- 3 A. Based on my review, I recommend the Public Utility Commission of Oregon ("Commission"):
- Approve a margin revenue requirement increase of \$10,968,870, or 2.5%, based on the revenue requirement adjustments discussed below;
 - Approve revenues of \$1,144,617 for the Lexington RNG facility through a base rate surcharge allocated to sales customers on an equal percent of margin basis;
 - Reject the proposed Schedule 198 RNG Automatic Adjustment Clause;

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- Decline to approve amortization of the Williams Pipeline Outage Deferral, the Horizon 1 O&M Deferral and TSA Security Directive 2 Deferral; and,
 - Adopt a rate spread that, after considering all supplemental rate schedules, allocates a zero percent increase to industrial rate schedules with a parity ratio exceeding 150% of their respective long-run incremental cost.

II. REVENUE REQUIREMENT

15 Q. PLEASE SUMMARIZE NW NATURAL'S REVENUE REQUIREMENT.

16 NW Natural calculated its revenues based upon its results of operations over the period January Α. 17 1, 2021 through December 31, 2022 (the "Base Year"). Since NW Natural filed in late 2021, only nine months of data was available for the Base Year, so NW Natural forecasted the last 18 19 three months, October through December, of the Base Year. NW Natural subsequently applied 20 forecasting adjustments to the Base Year results to develop pro forma results representative of 21 the period November 1, 2022 through October 31, 2023 (the "Forecast Year"). Based on this 22 calculation, NW Natural proposed a \$73,464,854 or 16.5% margin revenue requirement 23 increase in its initial filing. On February 28, 2022, NW Natural identified an error in its initial 24 filing and revised its calculation to a \$78,030,413 or 17.5% revenue requirement increase. The

effects of this errata, however, are not certain as NW Natural stated that it is not necessarily seeking revenues beyond those identified in its initial filing.¹

3 Q. WHAT LEVEL OF REVENUE REQUIREMENT DO YOU RECOMMEND?

A. Based on my analysis, which is summarized in Exhibit AWEC/102, I recommend a margin revenue requirement increase of \$10,968,870, or 2.5%. The specific adjustments underlying my analysis are summarized in **Table 1**, below

Table 1

AWEC Proposed Margin Revenue Requirement Increase, Oregon-Allocated (\$000)

| NW N | atural Initial Proposal | 78,030 |
|-------|-------------------------------|----------|
| % M | argin | 17.5% |
| Impac | t of Adjustments | |
| A1 | Cost of Capital | (3,764) |
| A2 | Errata Adjustment | (4,782) |
| A3 | Rate Base Period | (18,946) |
| A4 | Depreciation Period | (14,521) |
| A5 | Remove Gas Costs and Revenues | (1,745) |
| A6 | Non-Labor O&M | (6,332) |
| A7 | D&O Insurance | (371) |
| A8 | Allison Spa | (15) |
| A9 | Stock Compensation | (2,261) |
| A10 | Executive Incentives | (2,844) |
| A11 | Directors Fees & Expense | (2,096) |
| A12 | Stock & Bond Costs | (54) |
| A13 | Refreshments | (152) |
| A14 | COVID-19 Contra Revenues | (594) |
| A15 | Rate Case Expense | (19) |
| A16 | R&D Expense | (746) |
| A17 | Horizon 1 Start-up O&M | (6,433) |
| A18 | Sch. 197 Over Collection | (546) |
| A19 | Sch. 183 Over Collection | (2,428) |
| A20 | Interest Coordination | 1,588 |
| Total | Adjustments | (67,062) |
| Adjus | ted Revenue Requirement | 10,969 |
| Adju | sted % Margin | 2.5% |

See AWEC/103 at 19 (NW Natural's response to Staff Data Request ("DR") 474).

| 1 | | a. Cost of Capital |
|----------|----|--|
| 2 3 | Q. | WHAT IS THE REVENUE REQUIREMENT IMPACT OF THE COST OF CAPITAL RECOMMENDATION OF AWEC-CUB WITNESS GORMAN? |
| 4 | A. | In the Opening Testimony of Witness Gorman, AWEC and CUB recommend a 6.74% cost of |
| 5 | | capital, consisting of a 9.2% cost of equity, a 4.27% cost of debt, and a 50% equity / 50% debt |
| 6 | | capital structure. The impact of this recommendation, based on NW Natural's February 28, |
| 7 | | 2022 errata filing is a \$3,764,492 reduction to margin revenue requirement. Based on NW |
| 8 | | Natural's initial filing, however, the impact of this recommendation is a \$3,655,287 reduction |
| 9 | | to margin revenue requirement. |
| 10 | | b. Errata Adjustment |
| 11 12 | Q. | PLEASE PROVIDE AN OVERVIEW OF THE ADJUSTMENT TITLED ERRATA ADJUSTMENT. |
| 13 | A. | My analysis uses NW Natural's February 28, 2022 errata filing as the starting point. The |
| 14 | | adjustment titled Errata Adjustment adjusts revenue requirement down to the level that NW |
| 15 | | Natural requested in its initial filing. The impact of the adjustment was calculated, however, |
| 16 | | based on the cost of capital AWEC and CUB recommended, which resulted in a \$4,781,797 |
| 17 | | reduction to revenue requirement. Depending on the final revenue requirement results, |
| 18 | | AWEC will consider the effects on the Errata Adjustment. |
| 19 | | c. Rate Base Period |
| 20 | Q. | WHAT RATE BASE HAS NW NATURAL PROPOSED? |
| 21 | A. | NW Natural's revenue requirement is based on Forecast Year rate base of \$1,780,963,000, |
| 22 | | which is approximately \$281,736,000 higher than its base year results. The growth in rate base |
| 23 | | NW Natural has proposed is therefore a major contributor to the revenue requirement requested |

in this docket. NW Natural's rate base calculation and valuation proposal was provided in

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Exhibit NW Natural/1312 and the attached workpaper. Based upon that exhibit, NW Natural developed a forecast rate base, calculated on an average-of-monthly-averages ("AMA") basis, over the Forecast Year, the 12-months ending October 2023. To perform this calculation, NW Natural started with known plant balances in service as of September 30, 2021. NW Natural then incorporated a monthly forecast of plant additions and plant retirements to develop its forward-looking rate base forecast, incorporating the impacts of incremental depreciation reserves and other similar rate base items accruing in each monthly period. Note that, while NW Natural uses a Base Year of January 1, 2021 through December 31, 2021, three months of the Base Year rate base was based on forecast capital additions.

10 Q. IS NW NATURAL'S RATE BASE PROPOSAL CONSISTENT WITH PAST COMMISSION PRACTICE?

A. No. The Commission has, in the past, relied on the "used and useful" standard for evaluating rate base in a rate case. Under ORS 757.355 only plant found to be used and useful may be considered in Oregon rates. Through its forecast, however, NW Natural has included forecast plant additions expected to be placed into service beyond the rate effective date in this proceeding. NW Natural's rate base proposal would therefore result in NW Natural recovering costs, beginning on the November 1, 2022 rate effective date, for plant additions in the Forecast Period. Accordingly, NW Natural's rate base proposal is not consistent with the requirement of ORS 757.355 because it would result in NW Natural recovering costs of investments in plant that are not used and useful.

Q. ARE THE FORECAST PLANT ADDITIONS KNOWN AND MEASURABLE?

A. Since NW Natural's rate base proposal incorporates plant additions well beyond the hearing date and into the rate effective period, there is no evidentiary ability to consider those

additions. There is no ability to consider, for example, whether the actual cost associated with a project included in the forecast represent a prudent expenditure.

A fundamental tenant of utility regulation is the establishment of cost-based rates measured against a "known and measurable" standard. The commonsense evaluation of a utility's costs relies on the presumption that the underlying cost items are objective, established based on evidence in the case. To evaluate plant additions, while adopting a forward-looking perspective, however, presents a challenge because the future is unknown and uncertain. Even taking a utility's best intentions for granted, it is impossible to know whether adopting rates in the abstract, based on a forecast, will or will not, correspond to the utilities actual costs. To resolve this challenge, rates are established on the concept of a "test year," or in this case the Base Year, to form an evidentiary baseline for a utility's rate base. Since the test year is an inherently backward-looking concept, adjustments may be necessary to establish a rate base reflective of the utility's forward-looking costs. In an adjudicative setting, these adjustments must be considered against an objective evidentiary standard and cannot be arbitrary. The known and measurable standard, therefore, is an objective standard that applies to all test-year adjustments. To satisfy the known and measurable standard, a change in costs or revenues must be known, with a high degree of probability. Further, there also needs to be a way to measure or estimate the cost with reasonable precision. Simply stating that capital costs will accrue in a future period is not sufficient if the amount cannot be quantified with reasonable accuracy.

O. HAS NW NATURAL'S CAPITAL FORECAST BEEN ACCURATE?

A. No. As noted above, NW Natural's rate base was based on a forecast starting in October 2021.

Thus, the reliability of NW Natural's forecast can be established by comparing the forecast to

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actual results, informing whether it is reasonable to rely on NW Natural's forecast as a known and measurable adjustment to the Base Year. In response to AWEC Data Request 65, Attachment 1, NW Natural provided the specific capital projects included in its capital forecast. Further, in response to AWEC Data Request 107, Confidential Attachment 1, NW Natural provided actual capital additions by project through February 2022. A comparison of those response indicates that NW Natural's capital forecast has not been accurate, and therefore, it is not reasonable to rely on it for rate setting purposes. A summary of the capital additions included in the two responses is provided in **Confidential Table 2**, below.

Confidential Table 2

NW Natural Capital Forecast Error Per AWEC Data Request
October 2021 to February 2022



Q. WHAT IS DRIVING THESE VARIANCES?

A.

In Confidential Exhibit AWEC/104, I present an analysis of the drivers of these variances. In AWEC Data Request 107, NW Natural was requested to provide all transfers to plant as of the most recent month available. Based on text response to that request, however, it was unclear if certain blanket projects were excluded from the response. The extent of the omitted blanket projects, however, is unknown, since the response did include some blanket projects.

Notwithstanding, it is apparent that, even with the blanket capital projects excluded, NW Natural has still overstated its forecast by a large margin. On Page 2 of **Confidential Exhibit AWEC/104**, I detail the variance for the discrete projects only, excluding the blanket

| 1 | | projects from both the forecast and actual data. As can be observed, NW Natural's forecast |
|----|----|--|
| 2 | | included \$73,078,468 of capital related to discrete projects over the 5-month period. |
| 3 | | Notwithstanding, NW Natural's actual capital spending on discrete projects was only |
| 4 | | \$ over the period. Thus, excluding the blanket projects, NW Natural over-forecast |
| 5 | | the capital expenditures on discrete projects by \$, or%. |
| 6 | | Further, NW Natural's response to AWEC Data Request 107 included many new |
| 7 | | project numbers for discrete projects that were not identified in NW Natural's initial filing. |
| 8 | | These projects are identified as "UNKNOWN" in Exhibit Confidential AWEC/104. If these |
| 9 | | new projects are excluded, NW Natural only spent \$ on the specific projects that it |
| 10 | | identified in its initial filing. Thus, NW Natural over-forecast capital expenditures on the |
| 11 | | specific projects identified in its initial filing by \$, or%. |
| 12 | Q. | CAN YOU PROVIDE SOME SPECIFIC EXAMPLES? |
| 13 | A. | Yes. Over the five-month period analyzed, NW Natural forecast \$4,373,799 in capital |
| 14 | | expenditures for Project 202110, the White Salmon Reinforcement. The majority of this |
| 15 | | project was expected to be placed into service in October 2021. Notwithstanding, AWEC Data |
| 16 | | Request 107 identified capital expenditures for this project. |
| 17 | | For Project 201937, E07 Coburg Rd ILI 10", NW Natural forecast transfers to plant of |
| 18 | | \$4,678,777, with the majority placed into service in October 2021. There were transfers |
| 19 | | to plant for this project identified in response to AWEC Data Request 107. |
| 20 | | For Project 202233, Mist 300-400 Upgrade, NW Natural forecast transfers to plant of |
| 21 | | \$2,904,600 with the majority placed into coming in October 2021. There were |
| 21 | | \$3,894,690, with the majority placed into service in October 2021. There were transfers |

For Project 202183, E15 - S. Eugene Trans, NW Natural forecast transfers to plant of \$2,086,270, with the majority placed into service in October 2021. There were transfers to plant for this project identified in response to AWEC Data Request 107.

The list goes on. While there were some projects that did go into service with capital levels comparable to the amount included in the forecast—such as the Central Resource Center and the Astoria/Warrenton Resource Center—those seemed to be the exceptions. The cause of the forecast error is not clear since, most of this information was available at the time NW Natural made its filing.

9 Q. HOW DO YOU RECOMMEND CONSIDERING RATE BASE IN THIS PROCEEDING?

A. Given the variances above, I recommend establishing rate base based on known and measurable plant additions as of the hearing date in this docket. Specifically, I recommend a July 31, 2022 rate base valuation date. This timing will provide parties with sufficient ability to evaluate plant additions that will be in service by the hearing date, and issue cross examination on the specific projects, and potentially address any discrepancies in briefing. This change resulted in a \$65,954,038 reduction to rate base.

17 Q. HOW DO YOU RECOMMEND ADDRESSING NW NATURAL'S CAPITAL FORECAST?

A. I have substituted the forecast capital additions through February 2021 with the actual capital additions provided in response to AWEC Data Request 107. Further, on a going forward basis, over the period March 2022 through July 2022, I made a corresponding 47.7% reduction to capital additions to consider the over-forecasting observed to date in NW Natural's forecast. I will revise this assumption with updated data as NW Natural updates its response to AWEC Data Request 107. This assumption resulted in an additional \$133,644,123 rate base reduction.

1 Q. HAVE YOU UPDATED DEFERRED TAXES FOR THIS PROPOSAL?

A. I estimated the impact of changing the valuation date to July 31, 2022, based on the above method, without considering deferred tax impacts. The impacts rely on detailed tax accounting data underlying the individual tax accounts, so AWEC was not able to calculate the impacts on deferred taxes with precision. AWEC will revise this calculation as necessary based on actual plant in service in later testimony.

7 O. WHAT IS THE IMPACT OF THIS RECOMMENDATION?

A. Excluding the impact on depreciation expenses, which are discussed below, the collective impact of my recommendation is a \$199,598,161 reduction to rate base and a corresponding \$18,946,063 reduction to revenue requirement. Approximately \$6,260,425 of the revenue requirement impact is attributed to adjusting to a July 31, 2022 rate base valuation date, and \$12,685,637 of the revenue requirement impact is attributable to the forecast error identified in response to AWEC Data Request 107, an amount which AWEC will revise when NW natural provides an updated response to that request.

d. Depreciation Expense

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16 Q. HOW DID NW NATURAL CALCULATE DEPRECIATION EXPENSE INCLUDED IN REVENUE REQUIREMENT?

A. Like its rate base forecast, NW Natural calculates depreciation expenses over the 12-months ending October 2023, including the incremental impacts of forecast plant additions and retirements.

Q. HAS NW NATURAL USED THE DEPRECIATION STUDY RATES PROPOSED IN DOCKET NO. UM 2114?

A. No. NW Natural had the option to consider those impacts in this filing, and given that they were excluded, I recommend that those impacts not be considered in this docket.

| 1 | Q. | HOW DO YOU RECOMMEND ADJUSTING DEPRECIATION EXPENSES |
|---|----|--|
| 2 | | CONSIDERING THE JULY 31, 2022 RATE BASE DATE? |

- 3 A. I recommend that, consistent with AWEC's recommended rate base valuation date, that
- 4 depreciation expenses be calculated over the 12-month period ending on the rate base valuation
- 5 date.

6 Q. WHY DO YOU PROPOSE USING THE 12-MONTHS ENDING ON THE RATE BASE VALUATION DATE?

- 8 A. In the context of a test period, and the associated adjustments, it is imperative that all items be
- 9 viewed in a consistent manner. Revenue requirement items, such as plant, accumulated
- depreciation, deferred taxes and depreciation expense change in complex, interrelated fashion.
- In using a rate base valuation based on a specified date, including the associated accumulated
- depreciation, it is necessary to include any additional depreciation expenses other than what
- was been accrued as of the valuation date. Otherwise it would be necessary to include
- additional reserves associated with the incremental deprecation expenses extending beyond the
- 15 rate base valuation date.

16 Q. WHAT IS THE IMPACT OF THIS RECOMMENDATION?

- 17 A. Adjusting to a 12-month depreciation expense corresponding to July 31, 2022, including the
- impact of the rate base adjustments above, results in a \$13,044,172 reduction to depreciation
- expenses and a corresponding \$14,521,250 reduction to revenue requirement.
- e. <u>Gas Costs and Revenues</u>

21 Q. IS THE REVENUE REQUIREMENT NW NATURAL CALCULATED BASED ON MARGIN REVENUES?

- A. No. In response to AWEC Data Request 9, NW Natural acknowledged that its revenue
- requirement calculation includes gas costs and gas revenues in the test period.

| 1 2 | Q. | IS IT APPROPRIATE FOR NW NATURAL TO INCLUDE SUCH COSTS IN REVENUE REQUIREMENT? |
|----------|----|--|
| 3 | A. | No. NW Natural recovers the costs associated with gas supply in its annual purchased gas |
| 4 | | adjustment filing. Therefore, considering gas costs and revenues in a general rate case, where |
| 5 | | only the margin revenues are at issue, is not appropriate. |
| 6 7 | Q. | WHAT WAS THE IMPACT OF EXCLUDING GAS COSTS AND REVENUES FROM REVENUE REQUIREMENT? |
| 8 | A. | Based on NW Natural's response to AWEC Data Request 9, removing the gas costs and |
| 9 | | revenues resulted in a \$1,238,400 reduction to net operating income, resulting in a \$1,745,104 |
| 10 | | reduction to revenue requirement. |
| 11 | | f. Non-Labor O&M Expense |
| 12 13 | Q. | WHAT NON-LABOR O&M EXPENSES DOES NW NATURAL INCLUDE IN ITS REVENUE REQUIREMENT? |
| 14 | A. | NW Natural provided its O&M forecast model in response to Staff Data Request 143. In that |
| 15 | | model, NW Natural forecast unadjusted total-company non-labor O&M expense in the |
| 16 | | Forecast Period of \$107,580,541, with \$95,755,244 allocated to Oregon. This compares to |
| 17 | | Base Year non-labor O&M expense of \$86,287,923 with \$76,874,790 allocated to Oregon, |
| 18 | | although the Base Year amounts also include three-months of forecast data for October 2021 |
| 19 | | through December 2021. Thus, of the rate increase at issue in this proceeding, at least |
| 20 | | \$18,880,454 is related to NW Natural's non-labor O&M forecast assumptions. |
| 21 | Q. | HOW DID NW NATURAL DEVELOP ITS NON-LABOR O&M FORECAST? |
| 22 | A. | Like its rate base forecast, NW Natural started with actual O&M expenses incurred by |
| 23 | | department over the 9-month period ending September 2021. Since the results for October |
| 24 | | 2021 through December 2021 were not yet available when NW Natural prepared its rate case |

filing, the last three months of the test period were based on a forecast. The forecast was

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developed based a blend of specific department level expense forecasts, where possible, and an additional, generic 4% annual escalation over the monthly amounts incurred in October 2020 through December 2020.

From the Base Year, NW Natural subsequently made several discrete adjustments to reflect known and measurable cost increases for items such as, the Horizon ERP project, lease expenses, and insurance costs. In addition to those known and measurable adjustments, however, NW Natural applied generic escalation to the Base Year amounts using annual factors of 3.9% for 2022 and 2.4% for 2023.

9 Q. IS ACTUAL DATA NOW AVAILABLE FOR THE PERIOD OCTOBER 2021 THROUGH DECEMBER 2021?

A.

Yes. In AWEC Data Request 40, AWEC requested NW Natural provide an updated version of its O&M model using actual cost data for the entirety of 2021. NW Natural, however, objected to this request, and was not willing to update the information stating that the model was "highly granular with many interdependencies within the detail," and that it would require NW Natural to "to develop and submit an alternative to a significant component of its rate case." Thus, while NW Natural acknowledged that its non-labor O&M is a significant component of its rate case, it was not willing to commit the resources to demonstrate that its forecast of such costs in the Base Year was accurate. Given that NW Natural has the burden of proof, its decision not to respond to AWEC's request indicates that it is not willing to support the accuracy of its own forecast assumptions.

Q. WAS NW NATURAL'S NON-LABOR O&M FORECAST ACCURATE?

A. In response to AWEC Data Request 80, NW Natural provided transaction data supporting its non-labor operating expenses for 2021. **Confidential Exhibit AWEC/105** contains a

1 comparison between the actual 2021 non-labor O&M expenses from AWEC Data Request 80 2 and the Base Year amounts included in NW Natural's O&M model, including the forecast 3 values for October 2021 through December 2021. As can be noted from the exhibit, 4 NW Natural's actual Base Year non-labor O&M expenses were just \$83,328,384 on a total-5 company basis, in contrast to \$86,287,923 assumed in its O&M model. Thus, NW Natural's 6 O&M forecast for the Base Year was overstated by \$2,959,539, with \$2,653,658 allocated to 7 Oregon. 8 WHAT DISCRETE ADJUSTMENTS DID NW NATURAL APPLY TO THE TEST Q PERIOD RESULTS? 10 Starting with the Base Year results, NW Natural applied nine discrete adjustments to its non-A. 11 labor O&M expenses for the rate period. The total impact of these adjustments was 12 \$19,798,223 on a total-company basis. These expense items were detailed in response to 13 AWEC Data Request 42. In addition, NW Natural provided further detail surrounding each of 14 the adjustments in Staff Data Request 202. 15 WHAT AMOUNT OF GENERIC ESCALATION DID NW NATURAL ASSUME? 0. 16 In addition to the discrete cost items, NW Natural's non-labor O&M forecast includes A. 17 \$3,409,295 of generic escalation on a total-company basis, with \$3,034,667 allocated to 18 Oregon. The escalation rate NW Natural applied was based on its forecast of the consumer 19 price index ("CPI"), an economic indicator used to estimate the impact of inflation on 20 consumer households. 21 Q. IS IT REASONABLE TO APPLY GENERIC ESCALATION FOR THE CPI? 22 A. No. The CPI is an economic indicator that tracks the prices for a basket of household goods, 23 which is not representative of the change in operating expenses expected at the utility.

Gasoline and food prices, for example, play a major role in establishing the CPI levels.

Gasoline and food prices, however, represent only a small fraction of NW Natural's O&M costs. CPI is also influenced by utility rates. Thus, if CPI is also used to forecast an increase in utility rates, the result can be a vicious cycle where increasing utility rates drive a higher CPI, which itself drives higher utility rates. While inflation may impact the cost of raw materials in a manner similar to CPI, those raw material cost impacts do not substantially impact O&M costs. Raw materials costs, such as the cost of a new coated pipe for example, are typically capital related, and therefore not included in non-labor O&M. On the contrary, most of NW Natural's O&M costs consist of purchased services, which do not necessarily follow the inflationary trends analyzed in the CPI indicator.

11 Q. IS IT REASONABLE FOR NW NATURAL TO APPLY BOTH DISCRETE O&M ADJUSTMENTS AND GENERIC ESCALATION?

A. No. It is also duplicative to forecast discrete adjustments to capture increases to O&M, while also applying generic escalation for the same purpose. NW Natural is in control of its non-labor O&M expenditures, and as those expenditures do not necessarily change with inflation, including the magnitude of escalation that NW Natural proposes is not appropriate.

17 Q. WHAT DO YOU RECOMMEND?

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18 A. I recommend that the non-labor O&M expenses included in revenue requirement be based on
19 the known and measurable, Base Year levels, adjusted for the discrete items NW Natural
20 identified in response to AWEC Data Request 42. Accordingly, I recommend that the non21 labor O&M expense amount be adjusted down to the level identified in Exhibit AWEC/105,
22 and that the incremental inflationary escalation be removed from the O&M forecast. The

- 1 collective impact of these two adjustments is a \$5,688,325 reduction to operating expenses and 2 a corresponding \$6,332,451 reduction to revenue requirement after revenue sensitive costs.
- 3 g. <u>Directors' Insurance</u>
- 4 Q. WHAT AMOUNT OF DIRECTORS' AND OFFICERS' INSURANCE HAS NW NATURAL INCLUDED IN REVENUE REQUIREMENT?
- A. In response to Staff Data Request 74, NW Natural Identified \$ of directors' and officers' insurance premiums included in the Base Year on a total-company basis, or approximately \$ on an Oregon-allocated basis.
- 9 Q. WHAT DO YOU RECOMMEND FOR THE DIRECTORS' AND OFFICERS' 10 INSURANCE?
- 11 I recommend that the directors' and officers' insurance premiums be split 50/50 between A. 12 shareholders and ratepayers. This treatment is consistent with past Commission practice and 13 recognizes that the insurance premiums are a benefit to shareholders. As a general principle, it 14 is equitable to assign cost responsibility between shareholders and ratepayers in proportion to 15 the benefit that received by the respective interested parties. In this case, the officers' 16 insurance premiums provide a significant benefit to shareholders, because among other things, 17 they shield the shareholders from the financial impact of shareholder and other similar 18 lawsuits. The cost of these lawsuits would otherwise be paid out of shareholder earnings. 19 Thus, it is appropriate for shareholders to bear a portion of the costs.
- 20 Q. WHAT IS THE IMPACT OF THIS RECOMMENDATION?
- A. Assigning 50% of the directors' and officers' insurance to shareholders results in a \$333,146 reduction to Oregon operating expense and a corresponding \$370,871 reduction to revenue requirement.

1 h. Misc. Board Expenses

- 2 Q. HAVE YOU IDENTIFIED ANY OTHER BOARD OF DIRECTORS' EXPENDITURES WHICH ARE NOT APPROPRIATELY ALLOCATED TO SHAREHOLDERS?
- 4 A. Yes. In response to Staff Data Request 150, NW Natural identified \$13,316 in Board of 5 Directors' expenses related to the Allison Inn and Spa. NW Natural provided further information in response to Staff Data Request 151, noting that the fee was related to a board 6 7 retreat that was ultimately cancelled. I recommend these costs be removed from revenue 8 requirement. While luxurious retreats might make the job of being a board member more 9 enjoyable, it is not a necessity of the job. These types of fringe benefits, such as a massage or a 10 golf game, do not benefit ratepayers because board of directors can fulfill their responsibilities, 11 without such perks. Removing these costs results in a \$14,824 reduction to revenue requirement. 12
- i. Stock Compensation Expense
- Q. WHAT AMOUNT OF STOCK COMPENSATION EXPENSE HAS NW NATURAL
 INCLUDED IN REVENUE REQUIREMENT?
- 16 A. In NW Natural's O&M forecast provided in response to Staff Data Request 143, NW Natural
 17 included an adjustment for \$2,030,585 of stock compensation expenses. In response to AWEC
 18 Data Request 45, NW Natural described these amounts as "the cost of the Employee Stock
 19 Purchase Program (ESPP) and Restricted Stock Units (RSUs) offered to NW Natural
 20 employees." Based on NW Natural's workpapers, however, only 32% of this amount was
 21 actually provided to employees, while 68% was related to officer incentives.
- 22 O. ARE THESE EXPENSES AN ACTUAL COST TO NW NATURAL?
- A. No. When NW Natural issues stock to an employee through a restricted stock, or discount purchase plan, the issuance of stock to employees does not result in a cash outlay to NW

Natural. Therefore, these stock expenses do not represent a cost that is includible in rates.

The effect of a stock issuance, whether it be to an employee or some other investor, is the dilution of the value of the stock held by NW Natural's existing shareholders. Thus, including NW Natural's proposed stock issuance costs in revenue requirement would result in ratepayers reimbursing shareholders for this dilutive effect, a fundamentally unbalanced proposal. The loss in shareholder value resulting from a stock issuance, whether it be to incentivize an employee or for other purposes, is not a type of cost that is appropriate to recover from ratepayers. NW Natural's equity holders are compensated through NW Natural's return on equity, through which shareholders take on the risk that NW Natural may be required to issue new stock in a manner that dilutes the value of the existing shares. NW Natural does not, for example, record revenues when it takes actions that are accretive to existing shareholders, such as buying back stock.

O. ARE STOCK INCENTIVES DESIGNED TO BENEFIT RATEPAYERS?

A. No. Such issuances are designed to align the interest of employees with that of shareholders.

Accordingly, it is not appropriate for ratepayers to bear the cost of the shareholders' dilution resulting from such issuances. Accordingly, NW Natural's shareholders are likely not concerned with the minor dilution that results from issuing stock to employees. NW Natural could otherwise provide cash incentives to these employees tied to specific goals meant to benefit ratepayers, but shareholders would prefer the issuance of stock, since it does not require cash and makes the employees act in their interest.

O. WHAT DO YOU RECOMMEND?

A. I recommend removing the stock incentive expenses from revenue requirement, which results in a \$2,260,521 reduction to revenue requirement.

| 1 | | j. Executive Long-term Incentive Plan |
|----------|----|--|
| 2 3 | Q. | WHAT AMOUNT HAS NW NATURAL INCLUDED IN REVENUE REQUIREMENT FOR ITS LONG-TERM INCENTIVE PLAN? |
| 4 | A. | NW Natural's O&M budget provided in response to Staff Data Request 143 includes a discrete |
| 5 | | adjustment referred to as a Long-term Incentive Plan ("LTIP") in the amount of \$2,554,429. |
| 6 | Q. | WHAT IS INCLUDED IN THE PROPOSED LTIP AMOUNT? |
| 7 | A. | While NW Natural has referred to the plan as an LTIP, most of the amounts (94%) are officers' |
| 8 | | incentives. Further, in response to AWEC Data Request 44 NW Natural explained that the |
| 9 | | LTIP is also a stock-based program, stating that the material increase assumed in the rate year |
| 10 | | was "due to the number of shares planned to be awarded and the share price assumed." |
| 11 | Q. | DOES THE LTIP BENEFIT RATEPAYERS? |
| 12 | A. | No. The LTIP is designed for the benefit of officers and not necessarily based on objectives |
| 13 | | meant to benefit ratepayers. Further, since the awards are tied to a share price, the program is |
| 14 | | designed to encourage actions that increase share price, not designed to benefit ratepayers |
| 15 | | through revenue reductions or improved services. |
| 16 | Q. | WHAT DO YOU RECOMMEND? |
| 17 | A. | I recommend that the LTIP be excluded from revenue requirement in this case because it does |
| 18 | | not benefit rate payers. The impact of this recommendation is a \$2,843,684 reduction to |
| 19 | | revenue requirement. |
| 20 | | k. <u>Director's Fees and Expense</u> |
| 21 22 | Q. | WHAT AMOUNT OF DIRECTOR'S FEES DOES NW NATURAL INCLUDE IN REVENUE REQUIREMENT? |
| 23 | A. | In its actual 2021 non-labor O&M expense provided in response to AWEC Data Request 80, |

NW Natural incurred \$2,356,594 total-company expense and \$2,092,226 in Oregon-allocated

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expense associated with directors' fees and expense. In the accounting data these transactions
were identified under Order 930-04320, "MISC GENERAL EXPENSE-DIRECTORS FEES &

EX." These expenses include both the fees paid to the board members along with directors'
expenses. The expenses include items such as "Prizes purchased for BOD game night," and
parking costs reimbursed by NW Natural.

Q. DO DIRECTORS BENEFIT CUSTOMERS?

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A. While directors are a necessary part of the governance structure for NW Natural Holding

Company, directors have a fiduciary responsibility towards shareholders, not ratepayers.

When the interests of shareholders and ratepayers are aligned it can be said that directors are working for the benefit of ratepayers; otherwise, where there is a conflict, board of directors act in the interest of shareholders. Further, given that NW Natural is now structured as a holding company, with an objective of acquiring new businesses in new markets, the focus of the directors is now less on its gas business and more on NW Natural as a holding company.

14 Q. WHAT TREATMENT DO YOU RECOMMEND FOR DIRECTORS' FEES AND EXPENSE?

A. In recognition of the fact that directors' primarily benefit shareholders and that NW Natural is now structured as a holding company, I recommend that directors' fees and expenses be split 90/10, with 90% of the cost being paid by shareholders and 10% of the cost being paid by ratepayers. This approach also recognizes that directors receive a significant amount of renumeration because they provide a significant benefit to shareholders. If ratepayers were the sole interest of the directors, the cost of finding qualified individuals would likely be less.

| 1 | 0. | WHAT IS | THE IMPACT | OF YOUR | RECOMME | ENDATION? |
|---|----|---------|------------|----------------|---------|-----------|
|---|----|---------|------------|----------------|---------|-----------|

- 2 A. Removing 90% of directors' fees and expenses results in a \$1,883,003 reduction to operating
- 3 expense and a \$2,096,228 reduction to revenue requirement.
- 4 l. Stock and Bond Issuance Costs
- 5 Q. WHAT AMOUNT OF STOCK AND BOND ISSUANCE COSTS WERE INCLUDED IN O&M EXPENSE?
- 7 A. Based on NW Natural's 2021 operating results, approximately \$48,786 of stock and bond
- 8 holder expenses were included in O&M expense. These transactions may be identified under
- 9 930-02065, and 930-05000 in the accounting data provided in response to AWEC Data
- Request 80.
- 11 Q. IS IT APPROPRIATE TO INCLUDE SUCH COSTS IN REVENUE REQUIREMENT?
- 12 A. No. Stock issuance costs are not appropriately considered an expense. Both GAAP and tax
- accounting require stock issuance costs to be treated as a reduction in the proceeds of the stock
- sale. Stock issuance costs are considered the equivalent of selling the stock at a discount, and
- thus, those costs do not create an expense that is eligible for recovery through rates. Similarly,
- bond issuance costs are recovered as a cost of debt, and therefore, not appropriately considered
- in revenues.
- 18 Q. WHAT IS THE IMPACT OF REMOVING THESE COSTS?
- 19 A. Removing the stock and bond issuance costs results in a \$54,310 reduction to revenue
- 20 requirement.

| 1 | | m. Refreshments |
|---|----|--|
| 2 | Q. | WHAT AMOUNT OF COSTS ARE INCLUDED IN REVENUE REQUIREMENT FOR |

WHAT AMOUNT OF COSTS ARE INCLUDED IN REVENUE REQUIREMENT FOR REFRESHMENTS?

NW Natural's 2021 results includes \$136,929 in Oregon-allocated O&M expense for

- 5 refreshments. These costs can be identified under cost element number 503300 in NW
- 6 Natural's response to AWEC Data Request 80.

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7 Q. WHAT DO YOU RECOMMEND FOR THESE AMOUNTS?

- 8 A. Recognizing that providing refreshments in the context of business meetings and conferences 9 is not necessarily a requirement of providing utility service—that is NW Natural would be 10 capable of providing services to its ratepayers without such refreshments—I recommend that 11 the refreshment costs be removed from revenue requirement. Further, of the amount that NW 12 natural incurred in 2021, only \$38,332 was actually paid. The remaining \$98,597 was 13 attributable to the COVID savings deferral, in which NW Natural is booking an offsetting 14 contra-revenue amount in O&M expense to account for the deferral of savings. The impact of 15 removing the refreshment costs is a \$152,434 reduction to operating expense.
- n. <u>COVID-19 Savings Contra Revenue</u>
- 17 Q. HOW HAS NW NATURAL HANDLED THE SAVINGS ASSOCIATED WITH COVID IN ITS CALCULATION OF REVENUE REQUIREMENT?
- 19 A. In connection with booking the savings associated with COVID, such as reduced travel
 20 expenses, NW Natural has booked contra revenue to operating expense. In other words, since
 21 NW Natural was returning the saving to customers, the cost of refunding that savings was
 22 booked as an increase to operating expenses in operating results. These entries can be
 23 identified in response to AWEC Data Request 80 by filtering on Order 930-01000

| 1 | Q. | WHAT AMOUNT OF COVID-19 CONTRA REVENUES WERE INCLUDED IN 2021 |
|---|----|---|
| 2 | | RESULTS? |

- 3 A. Including the refreshment amounts identified above, NW Natural booked \$632,310 in contra
- 4 revenues as an operating expense in 2021 results. Excluding the imputed refreshment costs
- 5 above, \$533,713 of net contra revenues were included in 2021 results.

6 Q. WHAT DO YOU RECOMMEND FOR THESE CONTRA REVENUE AMOUNTS?

- 7 A. I recommend they be excluded from results. These items are non-recurring and not
- 8 representative of normalized business operations. Removing them results in a \$594,149
- 9 reduction to revenue requirement.
- o. Rate Case Expense

11 Q. WHAT ADJUSTMENT HAS NW NATURAL PROPOSED FOR RATE CASE EXPENSES?

- 13 A. NW Natural's test period included \$201,850 in rate case expenses. Since those adjustments
- were related to a Washington rate case, NW Natural removed those amounts, after considering
- the generic escalation, using the CPI rate, and assumed an ongoing Oregon rate case expense of
- \$350,000, which it spread over a three year period. The \$350,000 appears to be a budgeted
- 17 estimate, and not necessarily reflective of the historical actual cost of litigating an Oregon rate
- cases.

19 Q. WHAT DO YOU RECOMMEND?

- A. I recommend a smaller rate case budget of \$300,000, spread over three years. The impact of
- 21 this recommendation is a \$18,554 reduction to revenue requirement.

| 1 | | p. Research and Development | |
|----------|----|---|--|
| 2 3 | Q. | WHAT RESEARCH AND DEVELOPMENT EXPENSES DID YOU IDENTIFY IN 2021 TEST PERIOD RESULTS? | |
| 4 | A. | In the actual 2021 Base Year results provided in response to AWEC Data Request 80, research | |
| 5 | | and development expenses of \$1,521,880 were included in general ledger account 507100. | |
| 6 | Q. | WHAT WERE THESE AMOUNTS FOR? | |
| 7 | A. | The majority of the amounts appear to be dues and subscriptions to research organizations. | |
| 8 | | Some of the fields, however, did not contain any descriptive fields. For example, there are two | |
| 9 | | entries, with document numbers 1012304730 and 1013164999, both in the amount of \$335,000 | |
| 10 | | that were included in the transaction data with no descriptive information. | |
| 11 | Q. | WHAT DO YOU RECOMMEND FOR THE ENTRIES WITH NO DESCRIPTION? | |
| 12 | A. | I recommend that the amounts with no descriptions be removed from revenue requirement, | |
| 13 | | since it is NW Natural's obligation and burden to demonstrate that the costs benefit Oregon | |
| 14 | | ratepayers. The impact of this recommendation is a \$745,868 reduction to revenue | |
| 15 | | requirement. | |
| 16 | | q. Horizon 1 Start-up O&M | |
| 17 18 | Q. | HOW MUCH START-UP O&M DID NW NATURAL INCUR FOR THE HORIZON 1 PROJECT IN THE BASE YEAR? | |
| 19 | A. | Based on NW Natural's response to AWEC Data Request 89, NW Natural identified | |
| 20 | | \$6,531,293 of Horizon 1 Start-up O&M, with \$5,778,234 allocated to Oregon. | |
| 21 22 | Q. | IS IT APPROPRIATE TO CONSIDER THE HORIZON 1 START-UP COSTS IN O&M? | |
| 23 | A. | No. The start-up costs are non-recurring in nature, and therefore, not necessary to include in | |
| 24 | | revenue requirement on a going forward basis. Further the start-up costs are subject to the | |
| 25 | | deferral approved in Docket UM 2132. | |

| 1 | Q. | WHAT IS THE IMPACT OF REMOVING THE HORIZON 1 START-UP O&M? | |
|----------|----|--|--|
| 2 | A. | Removing the Horizon 1 start-up O&M results in a \$6,432,541 reduction to revenue | |
| 3 | | requirement. | |
| 4 | | r. Schedule 197 Amortization of Pension Balancing Account | |
| 5 | Q. | PLEASE PROVIDE AN OVERVIEW OF SCHEDULE 197? | |
| 6 | A. | Schedule 197 – Amortization of Pension Balancing account was implemented in Docket No. | |
| 7 | | UG 344. Following the failure of the Pension Balancing Account ("PBA") mechanism, Parties | |
| 8 | | agreed to amortization the remaining balance, subject to adjustments, in an annual amount of | |
| 9 | | \$7,100,000 over a ten-year period commencing on April 1, 2019. | |
| 10 11 | Q. | IS NW NATURAL PROPOSING TO UPDATE THE PENSION BALANCING ACCOUNT RATES IN THIS DOCKET? | |
| 12 | A. | No. While NW Natural's revenue requirement includes the \$7,100,00 in amortization | |
| 13 | | expenses, it does not propose any changes to the PBA amortization rates. Even though its | |
| 14 | | billing determinants have changed, NW Natural has not updated Schedule 197 rates since the | |
| 15 | | schedule was first implemented. | |
| 16 17 | Q. | HOW MUCH WILL NW NATURAL RECOVER THROUGH SCHEDULE 197 BASED ON IT'S BILLING DETERMINANTS? | |
| 18 | A. | In Exhibit AWEC/106, I detail the amount of revenues NW Natural will collect in in rates | |
| 19 | | under Schedule 197 based on the billing determinants assumed in its filing. As can be seen | |
| 20 | | NW Natural will collect \$7,598,076 in rates through Schedule 197, exceeding authorized | |
| 21 | | collections by \$498,076. | |
| 22 23 | Q. | HOW MUCH HAS NW NATURAL COLLECTED THROUGH SCHEDULE 197 SINCE ITS INCEPTION? | |
| 24 | A. | NW Natural was requested to provide the amount it had recovered through Schedule 197 in | |
| 25 | | multiple data requests. AWEC requested this information in AWEC Data Request 53 and | |

again in AWEC Data Request 104. NW Natural, however, was not willing to provide the information. In AWEC Data Request 105, however, AWEC requested the monthly volumes for each rate schedule, and from that information, I was able to perform the calculation.

As can be seen in **Exhibit AWEC/106**, in the first year of Schedule 197 (April 2019 through March 2020) NW Natural recovered \$7,348,267 for the PBA Amortization, or \$248,267 more than the amount authorized. In the second year of Schedule 197 (April 2020 through March 2021) NW natural recovered \$7,342,588, or \$342,588 more than authorized. In the third year, it appears that NW Natural is on track for a similar level of over recovery, although the data through March 2022 was not available at the time of filing this testimony.

Q. WHAT DO YOU RECOMMEND?

A. I recommend that the overcollection of Schedule 197 PBA Amortization over the period April 2019 through March 2021, in the amount of \$490,856 be refunded to customers. I have applied this as a one-year amortization in my revenue requirement model, which reduces revenue requirement by \$546,439. Further, I recommend that the Schedule 197 rates be reduced on a going forward basis by 7.02% to reflect the impact of the billing determinants proposed in NW Natural's initial filing.

s. Schedule 183 - Rate Adjustment for Environmental Cost Recovery

Q. PLEASE PROVIDE AN OVERVIEW OF SCHEDULE 183?

A. Schedule 183 - Rate Adjustment for Environmental Cost Recovery account was implemented in Docket Nos UM 1635 and UM 1706 in 2015. Based upon the recovery mechanism approved by the Commission in Order 15-049, NW Natural was allowed to recover \$5,000,000 in environmental costs per year through Schedule 183

| 1 | Q. | IS NW NATURAL PROPOSING TO UPDATE SCHEDULE 183 RATES IN THIS |
|---|----|--|
| 2 | | DOCKET? |

- 3 A. No. Similar to Schedule 197, NW Natural did not propose updating schedule 183 rates in this docket, even though the underlying billing determinants have changed.
- 5 Q. HOW MUCH WILL NW NATURAL RECOVER THROUGH SCHEDULE 183 BASED ON IT'S BILLING DETERMINANTS?
- A. In **Exhibit AWEC/107**, I detail the amount of revenues NW Natural will collect in in rates under schedule 197 based on the billing determinants assumed in its filing. As can be seen NW Natural will collect 5,730,841 in rates through Schedule 183, which exceeds its authorized collection by \$730,841.
- 11 Q. HOW MUCH HAS NW NATURAL COLLECTED THROUGH SCHEDULE 183 12 SINCE 2018?
- A. Similar to the pension balancing account, NW natural was requested to provide the amount it had recovered through Schedule 183 in multiple data requests, but was not willing to provide the information.
- As can be seen in **Exhibit AWEC/107**, however, NW Natural recovered \$5,403,877, \$5,860,538, \$5,447,895, and \$5,468,541 in calendar years 2018, 2019, 2020 and 2021, respectively. This amounted to over collection \$403,877, \$860,538, \$447,895, and \$468,541 in 2018, 2019, 2020 and 2021, respectively. Collectively, NW Natural over-collected Schedule 183 revenues by \$2,180,851 since 2018.

21 O. WHAT DO YOU RECOMMEND?

A. Like the PBA Amortization, I recommend refunding the amounts of the Schedule 183 overcollections to customers in the amount of \$2,180,851. I have applied this as a one-year
amortization in my revenue requirement model, which reduces revenue requirement by
\$2,427,803. Further, I recommend that the Schedule 197 rates be reduced on a going forward

basis by 12.75% to reflect the impact of the billing determinants proposed in NW Natural's
 initial filing.

III.LEXINGTON RNG SURCHARGE

4 Q. PLEASE SUMMARIZE NW NATURAL'S PROPOSAL WITH RESPECT TO THE LEXINGTON RNG PROJECT.

The Lexington RNG facility was described in Opening Testimony of NW Natural witness Chittum at Exhibit NW Natural/1100. The Lexington RNG facility cost approximately \$8.4 million and was acquired for the purpose of fulfilling the renewable gas portfolio targets in Senate Bill ("SB") 98, which was enacted in 2019.² The facility is located at the Tyson Fresh Meats, Inc. facility in Lexington Nebraska. The facility was developed and marketed to NW Natural by two developers, BioCarbN and Cross River Partners (collectively BioCross), as a result of an RFP procurement process. The biogas facility uses an anerobic digester to convert animal waste products from the Tyson facility into unrefined biogas. The biogas, which is a low-quality gas consisting of high proportions of carbon dioxide, hydrogen sulfide and other impurities, is processed into pipeline grade gas through a filtering system owned by a joint venture between NW Natural and the BioCross. Separately, NW Natural has a gas offtake agreement with the joint venture, through which it purchases the processed gas from the Lexington Partnership, including the underlying Renewable Thermal Certificates ("RTCs"). Under the offtake agreement, NW Natural acquires RNG based on an escalating schedule starting at \$ /dth. NW Natural retains the RTCs and subsequently sells the brown gas into the local pipeline.

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² NW Natural/1100, Chittum/7:4-7

1 Q. HOW LARGE IS THE LEXINGTON FACILITY?

- 2 A. The facility is expected to produce 190,000 dth of RNG per year, representing 0.27% of NW
- Natural's Oregon sales, excluding transportation customer throughput.³ Relative to NW
- 4 Natural's total throughput, inclusive of transportation customers, the Lexington RNG facility
- 5 will produce RNG equal to just 0.17% of Oregon sales.

6 a. Lexington Cost Allocation

7 Q. WHAT IS THE RATE IMPACT OF THE LEXINGTON RNG FACILITY?

- 8 A. The annual revenue requirement that NW Natural calculated for the Lexington RNG Facility
- 9 was \$1,911,069 or 0.43% of margin rates.⁴ Notwithstanding, NW Natural has proposed to
- recover a revenue requirement of \$3,291,859 for the Lexington RNG facility, a 0.63% increase
- to margin rates. Further, NW Natural's cost allocation proposal results in differing impacts for
- between customer classes. The divergent impacts between the rate schedules may be seen in
- **Table 3**, below:

³ *Id.* at 7:2-3.

Exhibit NW Natural/1314, Walker/2.

Table 3 Impact of Lexington RNG Facility Surcharge by Rate Schedule

| 02R | 0.37% |
|-------|-------|
| 03C | 0.50% |
| 03I | 0.71% |
| 27R | 0.46% |
| 31CSF | 0.75% |
| 31CTF | 0.79% |
| 31ISF | 1.13% |
| 31ITF | 1.06% |
| 32CSF | 1.09% |
| 32ISF | 1.69% |
| 32CTF | 1.91% |
| 32ITF | 3.75% |
| 32CSI | 3.20% |
| 32ISI | 3.28% |
| 32CTI | 3.92% |
| 32ITI | 9.33% |
| 33T | 0.00% |
| | |

As described above, even though the Lexington RNG facility revenue requirement constitutes 0.43% of margin rates, Schedule 32ITI customers would, under NW Natural's allocation proposal, be subject to a 9.33% rate increase for the project. These impacts were surprising since the Lexington RNG facility was acquired under the authority of SB 98, which was never intended to impact transportation customers and was not to result in rate increases in excess of 5% of revenue requirement.

7 IS NW NATURAL AUTHORIZED TO ACQUIRE RNG UNDER SENATE BILL 98 Q. 8 FOR TRANSPORTATION CUSTOMERS?

- 9 No. NW Natural is only allowed to acquire RNG for the purpose of meeting the targets Α. 10 established in ORS 757.396(a). Those targets apply to "gas purchased by the large natural gas 11 utility for distribution to retail natural gas customers in Oregon that is renewable natural gas".
- 12 The statute is explicit, NW Natural may only acquire RNG based upon the specific targets in

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ORS 757.396(a) and those targets only apply to sales customers. While compliance with the program is optional, to the extent NW Natural does participate in the program, it must follow to parameters established in the statute. Otherwise, there would be no point for those parameters to begin with. Senate Bill 98 did not provide NW Natural with authority to purchase RNG for transportation customers, and NW Natural is not otherwise authorized to purchase gas requirements, renewable or otherwise, for transportation customers. Therefore, allocating costs to transportation customers associated with the Lexington RNG facility, which was acquired solely for SB 98, is not appropriate, especially considering the fact that transportation customers are already paying rates that are significantly above the cost of service.

Q. HOW HAS NW NATURAL PROPOSED TO ALLOCATE THE COST OF THE LEXINGTON RNG FACILITY?

NW Natural has proposed to allocate the costs of the Lexington RNG facility on and equal cents per therm basis to all customers, including transportation customers. The result of this proposal is that large volume customers, such as Schedule 32ITI customers, are assigned a significantly higher allocation of the costs associated with the Lexington RNG facility. This is particularly concerning to AWEC as these customers are already paying rates that are 190% higher than their long run incremental cost. Thus, NW Natural's proposal is contradictory in that it assigns larger portion of the costs of RNG to transportation customers, while otherwise ignoring cost causation in the context of the base rates increase.

A.

1 Q. WHY HAS NW NATURAL PROPOSED ALLOCATING THE COST OF LEXINGTON ON AN EQUAL CENTS PER THERM BASIS?

A. While SB 98 required RNG to be supplied only to sales customers, NW Natural has proposed deviating from that requirement because NW Natural "believes all customers will benefit from RNG which will be utilized for compliance with the CPP."⁵

6 Q. DO YOU AGREE?

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No. As all parties acknowledged in Docket UI 451, "the sole purpose" of the Lexington RNG facility was "to assist the Company in investing in RNG infrastructure under SB 98." The purpose of the project was not intended to address the Climate Protection Plan ("CPP"). The Lexington RNG facility was originally selected in the spring of 2021. The CPP rules were not enacted until later, in December 2021. Therefore, the purpose of acquiring the Lexington RNG facility could not have been for CPP compliance, since the CPP did not exist when the Lexington RNG facility was acquired.

Further, the CPP rules are a sweeping regulatory regime that was only recently enacted. Accordingly, it is too early to tell the most cost effective way for individual customer classes to comply with the CPP, including consideration of RNG, energy efficiency, and community climate investments. While RNG may be a cost effective CPP compliance pathway for sales customers, for example, this may not be the most cost effective way for transportation customers, especially considering that NW Natural is not supplying gas to those customers. Other measures, such as energy efficiency, or emerging technologies may be more cost effective for transportation customers.

⁵ NW Natural/1300, Walker/28:19-20

⁶ UI 451 Stipulation Testimony

1 Q. HAS THE COMMISSION FINALIZED ITS FACT FINDING WITH RESPECT TO THE CPP?

3 On April 15, 2022, the Commission Staff issued its Natural Gas Fact Finding Draft Report in A. 4 Docket No. UM 2178 discussing the methods for, and evaluating the costs of, complying with 5 the CPP. Parties have yet to comment on that draft report. From AWEC's perspective, there 6 are significant concerns with whether RNG is the most cost-effective compliance alternative 7 for large customers, particularly given the proposal to allocate the costs on an equal cents per 8 therm basis. Other alternatives, such as self-directed energy efficiency may offer a more cost-9 effective method for large customers to satisfy the compliance obligations under the CPP, 10 although AWEC's review of the fact finding report is still underway.

11 Q. HOW DO YOU RECOMMEND THE LEXINGTON RNG FACILITY COSTS BE ALLOCATED IN THIS PROCEEDING?

I recommend that the Lexington RNG revenue requirement be included as a base rate surcharge and considered in the overall rate spread approved in this proceeding. Including it as a base rate surcharge will ensure that there is not a mis-match between individual class cost of service, and the cost allocation used for the surcharge. I also recommend that no costs, or benefits, be allocated to transportation customers, consistent with the requirements of SB 98. Finally, I recommend that the cost be spread on an equal percent of margin basis, rather than an equal cents per therm basis. Considering the allocation of Lexington in the context of the CPP is premature because the method for allocating the overall costs and benefits of the CPP has not yet been established.

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b. <u>Lexington Revenue Requirement</u>

2 Q. WHY IS THE LEXINGTON RNG REVENUE REQUIREMENT DIFFERENT FROM THE AMOUNT THAT NW NATURAL PROPOSES TO RECOVER?

A. As noted above, NW Natural calculated a \$1,911,069 revenue requirement,⁷ but has designed rates to recover \$3,291,859. The reasoning behind this difference is not apparent. In Exhibit NW Natural/1314, NW Natural details the revenue requirement for the nine-month period ending on the rate effective date (February 2022 through October 2022), and while the values do not match precisely, it is possible that NW Natural has including the retroactive amounts over that period, potentially with additional interest, in its revenue requirement calculation.

10 Q. DOES AWEC SUPPORT A DEFERRAL FOR THE COSTS INCURRED OVER THE PERIOD FEBRUARY 2022 THROUGH OCTOBER 2022?

12 A. No. AWEC is not aware of a deferral request outstanding for those costs, and even if there
13 were, it would be premature to assume that NW Natural should be allowed recover those costs.
14 The results from 2022 will not be available for over a year, so it will be impossible to evaluate
15 NW Natural's earnings in the context of such a deferral until then. Further, the actual costs and
16 revenues associated with such a deferral won't be known until they are incurred. The revenues
17 associated with brown gas sales, for example, may be higher or lower than NW Natural
18 assumed in its revenue requirement calculation.

19 O. WHAT DO YOU RECOMMEND?

A. I recommend that the revenue requirement for Lexington be based on a single years' revenues of \$1,911,069, subject to the further adjustments discussed below.

⁷ Exhibit NW Natural/1314, Walker/2.

1 c. <u>Lexington Gas Price Assumptions</u>

2 Q. HAVE GAS PRICES INCREASED SINCE NW NATURAL MADE ITS FILING?

- 3 A. Yes. Gas prices have increased significantly since NW Natural initiated this case. As gas
- 4 prices increase, the value of the brown gas sales also increases, reducing the cost of Lexington
- 5 to rate payers. As of April 18, 2022, NYMEX gas futures for a May 2022 settlement were
- 6 trading at \$7.30/ dth. In contrast, NW Natural's model had assumed a price of \$ // dth for
- 7 May 2022.

8 Q. HOW DO YOU RECOMMEND HANDLING THESE CHANGES IN GAS PRICES?

- 9 A. I recommend updating the gas price assumptions in NW Natural's model based on current
- price curves. I updated NW Natural's model to be based on a \$7.30/dth May 2022 price, while
- retaining the existing slope of NW Natural's assumed price curve. The impact of this change
- was a \$713,669 reduction to Lexington revenue requirement.

d. <u>Lexington Return on Rate Base</u>

14 Q. DOES NW NATURAL OWN ALL OF THE ASSETS OF THE LEXINGTON RNG?

- 15 A. No. Under the joint venture with BioCross, NW Natural does not retain 100% ownership of
- Lexington renewables. NW Natural only owns % of Lexington renewables, with the
- 17 remaining % owned by BioCross. While NW natural contributed 100% capital into the
- project, BioCross contributed the project, itself. Thus, the portion of the capital that is not
- owned by NW Natural effectively represents a development fee to BioCross.

20 Q. HOW DOES NW NATURAL ACCOUNT FOR THE NON-OWNED PORTION OF LEXINGTON RNG IN ITS REVENUE REQUIREMENT CALCULATION?

- 22 A. The partnership accounting for the Lexington RNG facility in NW Natural's revenue
- requirement calculation is complicated, although in simple terms, NW Natural treats the
- facility as if it owned 100% of the assets, calculating its return, and depreciation expenses as if

it was responsible for 100% of those expenses. To account for the non-owned portion of the partnership, NW Natural treats the profit distributions to BioCross as a separate operating expense.

4 Q. IS IT APPROPRIATE FOR NW NATURAL TO EARN A RETURN ON ASSETS IT DOES NOT OWN?

A. No. NW Natural selected this ownership approach. NW Natural could have, for instance, paid the developers their share of the \$8.4 million capital investment as an upfront development fee.

Accordingly, it is appropriate for ratepayers to be held harmless relative 100% utility ownership.

10 O. WHAT DO YOU RECOMMEND?

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I recommend that NW Natural calculate the rate recovery in a manner that is indifferent to whether the Lexington RNG facility was 100% utility owned, and treating the capital provided to BioCross as a development fee amortized over the life of the facility. If the Lexington RNG facility were 100% utility owned, ratepayers would still be required to finance the cost of the development fee provided to BioCross. Notwithstanding, the rate of return paid on the upfront fee would be limited to NW Natural's authorized rate of return. Under the current structure, the rate of return paid to BioCross for its share of the assets is potentially unlimited. It would be unreasonable, for example, if ratepayers have already repaid 100% of the capital of the facility while continuing to pay BioCross a return on the investment that NW Natural made on BioCross' behalf. It is not reasonable to require ratepayers to finance exorbitant profits to the developer in connection with the developer's shares, when that capital could have been paid to the developer as an upfront fee and financed by the utility at a lower rate. To account for this, I recommend that the profits recovered to pay for profit distributions to BioCross be limited to

- the return that NW Natural would otherwise earn on the portion of the facility that it does not own. This treatment results in a \$52,783 reduction to Lexington RNG revenue requirement.
- e. <u>Lexington Tax Benefits</u>

4 Q. WHAT CONDITION WAS PLACED ON THE TAX BENEFITS OF THE LEXINGTON RNG AFFILIATED INTEREST TRANSACTION?

As a part of the stipulation in UI 451, Parties agreed to the following tax condition regarding the allocation of tax benefits from the Lexington Renewable LLC:

If partnership allocations of income tax losses from Lexington Renewable LLC to NW Natural RNG Holding Company LLC are limited/reduced on an annual basis compared to traditional utility ownership, NWN will notify interested parties in the annual affiliated interest report in Docket RG 8 and present a plan to address the matter. In future ratemaking proceedings parties will be free to propose adjustments holding ratepayers harmless as if the assets were under traditional utility ownership. 8

15 O. ARE THE TAX BENEFITS RECEIVED BY RATEPAYERS BEING RESTRICTED?

- A. Not in this filing. Based on NW Natural's workpapers, however, the amount of ADIT that will accrue to ratepayers will be limited in future years, as tax benefits are allocated to BioCross.

 This was also discussed in response to AWEC Data Request 30.
- This was also also assert in response to 11.122 Zam Reques

19 Q. WHAT DO YOU RECOMMEND?

A. Pursuant to Paragraph 3 of the UI 451 stipulation parties agreed not to oppose or seek any changes to the Lexington's ratemaking treatment for a period of five years. Since the limitation in tax depreciation may occur in the five-year period, AWEC recommends that the ratemaking approved in this case be designed to hold customers harmless with respect to the complex ownership structure that NW Natural has proposed. Specifically, I recommend that

In re NW Natural, Requesting Approval of an Affiliated Interest Agreement with Lexington Renewables, LLC Docket No. UI 451, Comprehensive Stipulation, p 5.

⁹ *Id*. at p 5.

the Commission require NW Natural to impute any amount of ADIT which has been limited as a result of the portion of the Lexington facility owned by BioCross.

f. Lexington Summary

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4 Q. WHAT IS THE NET REVENUE REQUIREMENT THAT YOU RECOMMEND FOR LEXINGTON?

A. Considering the above adjustments, I recommend the Commission authorize NW Natural to recover \$1,144,617 through a base rate charge, allocated to sales customers on an equal percent of margin basis.

IV. RENEWABLE NATURAL GAS RECOVERY MECHANISM

10 Q. WHAT HAS NW NATURAL PROPOSED FOR THE RENEWABLE TRACKING MECHANISM?

NW Natural's proposal for the renewable tracking mechanism was described in NW Natural/1500. Specifically, NW Natural proposes Schedule 198 as an automatic adjustment clause ("AAC") mechanism that will recover the revenue requirement associated with investments in qualified RNG facilities. NW Natural has proposed this mechanism based on the requirement in SB 98, which required the Commission to establish rules to "process for natural gas utilities to fully recover prudently incurred costs associated with the large renewable natural gas program." As proposed, the AAC mechanism will be filed by February 28 each year and will establish rates for new and existing RNG investments on a going-forward basis on October 1 of each year, corresponding to the timing of the Purchased Gas Adjustment ("PGA"). The mechanism would also contain a deferral to recover cost incurred prior to the rate effective date of the AAC.

ORS 757.394(3)(b).

1 Q. HOW HAS NW NATURAL PROPOSED TO ALLOCATE THE AAC REVENUE REQUIREMENT?

A. While the AAC is being proposed pursuant to SB 98, NW natural is proposing to allocate the revenue requirement in the AAC to all customers, including transportation customers, similar to the Lexington RNG project. While NW Natural stated that it will include a proposal for how to allocate the costs in its AAC filings, it "anticipates that such costs would be allocated to all customers on an equal cents per-therm basis."

8 Q. DOES AWEC SUPPORT SCHEDULE 198?

9 No. SB 98 did not a require the Commission to establish an AAC for RNG investments. The A. 10 Commission is required to "adopt ratemaking mechanisms that ensure the recovery of all 11 prudently incurred costs that contribute to the large natural gas utility's meeting" the SB 98 12 renewable targets. Under ORS 757.396(2)(a), the Commission may use an AAC to accomplish this objective, but an AAC is not mandatory. In this case, the existing regulatory mechanisms, 13 14 including the general rate case process and the utility's general ability to request deferrals, 15 already provides NW Natural with the ability to recover all prudently incurred investments 16 made with respect to the RNG program. Therefore, adopting an AAC is not necessary.

Q. WHY IS IT IMPORTANT FOR RATE CHANGES TO BE CONSIDERED IN THE CONTEXT OF A GENERAL RATE CASE?

19 A. Use of single-issue ratemaking for investments in RNG outside of a general rate case may
20 result in NW Natural over recovering the costs of those investments. Single-issue ratemaking
21 occurs when utility rates are adjusted in response to a change in cost or revenue items
22 considered in isolation. By considering an operating expense or rate base item in isolation,

¹¹ NW Natural/1500, Kravitz/13:22-23.

single-issue ratemaking ignores other factors that otherwise influence the utility's operating results, some of which could, if properly considered, move revenue requirements in the opposite direction from the single-issue change. Single issue ratemaking in general is beneficial to shareholders and harmful to customers.

5 Q. IS THE AAC PROCEDURE SUBSTANTIALLY DIFFERENT THAN A GENERAL RATE CASE PROCEDURE?

A. No. From a procedural perspective the AAC that NW Natural has proposed does not provide any procedural advantage over the existing general rate case process for recovery of RNG projects. In this case, for example, NW Natural has included the Lexington RNG project in its filing. The AAC would still require a filing well in advance of the rate effective date, along with an evidentiary review process. The use of the existing general rate case process provides NW Natural with an identical ability to recover costs associated with RNG investments. The only difference in NW Natural's proposal is that the AAC gives NW Natural the option, in its sole discretion, to file a holistic rate case, where all costs and revenues are considered, or to seek recovery of just the RNG investments though the single-issue AAC filing. NW Natural controls the timing of its investments and has the opportunity to file a rate case at any time. Therefore, the approach is unbalanced because NW Natural can avoid filing a rate case when its revenues requirement would have otherwise decreased, while still recovering additional revenues through the ACC.

20 Q. IS IT REASONABLE TO CONSIDER COST ALLOCATION OUTSIDE OF A GENERAL RATE CASE?

A. No. In addition to the concerns about single-issue ratemaking, it is equally inappropriate to consider cost allocation outside of a general rate case where a cost of service study is performed. As demonstrated in this rate case, large customer classes are paying rates that are

almost double their incremental cost. Thus, considering the cost of RNG investments outside
of a general rate case, results in a disproportionate increase to these customers rates, while they
are already paying significantly more than their cost of service. AWEC is supportive of
following principles of cost causation, but those principles need to be applied consistently, both
in base rates and with respect to RNG costs.

6 Q. IF THE COMMISSION IS INCLINED TO APPROVE THE AAC IN THIS DOCKET, HOW DO YOU RECOMMEND THE COSTS BE ALLOCATED?

8 A. If the AAC is approved, however, AWEC recommends that the cost be allocated constant with SB 98, as discussed with the Lexington RNG project above, and allocated to sales customers on an equal percent of margin basis.

Q. IS A DEFERRAL NECESSARY FOR SCHEDULE 198?

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No. Senate Bill 98 did not specifically authorize NW Natural to defer investment costs associated with the RNG program. Deferrals have separate requirements under ORS 757.259, which are most appropriately considered independent from an AAC mechanism. Approving a blanket deferral for all RNG projects, for example, is not necessarily possible because the individual projects will present different facts and circumstances that must be evaluated independently. Consider, for example, the many issues and complications that were raised with the Lexington RNG facility; unforeseen complications will likely arise with future RNG projects as well, which may not be amenable to a blanket deferral mechanism. Further, consideration of the specific requirements for a deferral, such as an earnings test, would be impossible to consider in the context of NW Natural's AAC proposal. NW Natural's earnings for a particular year won't be available until May of the year subsequent to the deferral year.

| 1 | Q. | IF A DEFERRAL IS APPROVED, WHAT TYPE OF EARNINGS TEST DO YOU |
|---|----|--|
| 2 | | RECOMMEND. |

- A. If a deferral is approved for projects in service prior to the rate effective date of the AAC, I recommend that an earnings test be applied that is equal to 100 basis points less than NW Natural's authorized ROE. That is, NW Natural would not be allowed to recover any deferred investment costs if its ROE was equal to or exceeded its authorized ROE minus 100 basis points. I recommend that deferred costs be reviewed in the year subsequent to the year in which they were incurred. For example, NW Natural's filing on February 28, 2023 would consider deferred costs over the period November 1, 2021 through October 31, 2022.
- 10 Q. DO YOU RECOMMEND NW NATURAL BE ALLOWED TO TRUE UP THE COSTS OF PROJECTS BETWEEN AAC FILINGS?
- 12 No. If deferrals are included in the AAC, I recommend that they be limited to the costs A. 13 associated with projects placed into service prior to the rate effective date of the AAC filing. 14 Truing up the investment costs through a deferral is not necessary to provide NW Natural with 15 recovery of investments in RNG facilities. Doing so also exceeds the scope of a deferral, 16 which is meant to match appropriately the costs borne by and benefits received by ratepayers. 17 Since the costs will have already been include in rates, truing up those costs to the actual 18 investment costs incurred is unnecessary to achieve the objective of matching costs and 19 benefits.
- 20 Q. IS THE PROPOSED AAC A REASONABLE MECHANISM FOR ADDRESSING CPP COMPLIANCE COSTS?
- A. No. The obligations for CPP compliance are different than the requirements for the RNG portfolio standard under SB 98. A mechanism designed for the purpose of SB 98 will not necessarily be the best alternative to address the many issues associated with CPP compliance.

Therefore, AWEC recommends that the Commission reject the RNG AAC that NW Natural proposed.

Instead, AWEC recommends that, following the fact finding investigation in Docket No 2178, the Commission open a docket to evaluate a comprehensive ratemaking mechanism to address CPP compliance costs. While AWEC is still forming its opinions on the fact finding, a principal concern is ensuring that large customers have a compliance pathway, including appropriate incentives to perform energy efficiency and to invest in carbon capture technologies. Such a mechanism would provide large customers, for example, an opportunity to effectively self-supply their compliance obligations by performing energy efficiency or investing in carbon capture, and thereby, avoid paying for CPP compliance costs directly in rates. Such an approach could encourage significant investment in energy efficiency and carbon capture, yet if a recovery mechanism is modeled based on SB 98 compliance, such alternatives may not be available. Therefore, developing a comprehensive CPP compliance mechanism has more merit than developing a mechanism designed for strictly for SB 98 compliance.

16 Q. PLEASE SUMMARIZE YOUR RECOMMENDATION RELATED TO THE AAC.

A. AWEC recommends that the Commission decline to approve the RNG AAC in this docket and that NW Natural continue to recover the costs associated with SB 98 through general rate cases. Notwithstanding, AWEC recommends that, following the conclusion of the Commission's fact finding in Docket No. 2178, that a new docket be initiated to consider a more comprehensive mechanism to address CPP compliance obligations.

| 1 | | v. MISCELLANEOUS DEFERRALS |
|----------|----|--|
| 2 3 | Q. | PLEASE SUMMARIZE THE MISCELLANEOUS DEFERRALS THAT NW NATURAL HAS PROPOSED TO RECOVER IN THIS DOCKET? |
| 4 | A. | NW Natural has proposed amortizing three deferrals in this docket: (1) the UM 2139 Williams |
| 5 | | Pipeline Outage in the amount of \$652,100; (2) the UM 2132 Horizon 1 O&M Deferral in the |
| 6 | | amount of \$1,038,472; and (3) the UM 2192 TSA Security Directive 2 Deferral in the amount |
| 7 | | of \$3,331,625. |
| 8 | | a. <u>UM 2139 Williams Pipeline Outage</u> |
| 9 10 | Q. | HOW MUCH COSTS HAS NW NATURAL INCURRED WITH RESPECT TO THE WILLIAMS PIPELINE OUTAGE |
| 11 | A. | NW Natural identified the costs that it had incurred with respect to the Williams pipeline |
| 12 | | outage in response to AWEC Data Request 88. In that response NW Natural provided |
| 13 | | transaction detail supporting \$569,347 in costs incurred over the period December 2020 |
| 14 | | through March 2021. The difference between the amount NW Natural reported and the amount |
| 15 | | it is seeking to recover is not apparent. The cost items include transactions ranging from |
| 16 | | mutual assistance claims accruals, labor expenses, and lodging for employees. It also includes |
| 17 | | items such as non-employee gifts, described as Community Action Partner Appreciation, and |
| 18 | | donations of supplies to residents of Hood River. |
| 19 | Q. | HAS THE COMMISSION APPROVED THE WILLIAMS PIPELINE DEFERRAL? |
| 20 | A. | No. |
| 21 22 | Q. | IS IT APPROPRIATE TO CONSIDER AMORTIZATION OF THE DEFERRAL IN THIS DOCKET? |
| 23 | A. | No. AWEC recommends the deferral be rejected, while the costs may have been unexpected, |

they are not material enough to warrant consideration in a deferral. NW Natural is provided

- with adequate recovery for events such as this in base rates, and therefore a deferral is not necessary.
- b. <u>UM 2132 Horizon 1 O&M Deferral</u>
- 4 Q. HOW MUCH COST HAS NW NATURAL INCURRED WITH RESPECT TO HORIZON START-UP COSTS?
- A. In response to AWEC Data Request 89, NW Natural identified start-up costs of \$6,099,249 incurred through April 2022 along with \$244,119 in carrying charges, yielding a total deferral of \$6,343,370.
- 9 Q. HOW DID PARTIES AGREE TO HANDLE THE START UP COSTS IN UM 2132?
- 10 In UM 2132, parties agreed to permit NW Natural to defer the start-up costs, subject to sharing A. 11 bands of 20% for costs exceeding \$8,550,000 on an Oregon allocated basis and 50% for costs 12 exceeding \$12,000,000. Parties also agreed that the amortization period would not be less 13 than 5-years. Based on NW Natural's costs to date and its rate of capital spending, it is likely 14 that NW Natural will be subject to sharing for the project. This contradicts NW Natural's testimony that states it expects the project to be below the first sharing band. ¹² Parties also 15 16 agreed that the costs would be subject to a prudence review and earnings test as required under 17 ORS 757.259(5) prior to amortization.
- 18 Q. WHAT HAS NW NATURAL PROPOSED WITH RESPECT TO THE DEFERRAL AMOUNT?
- A. NW Natural has proposed amortization of \$1,038,472 over a 10-year period. This amount of amortization, however, equates to recovery of \$9,710,243 at a 1.24% modified blended treasury rate. Thus, while NW Natural states that the Horizon O&M Deferral will not be subject to sharing, the amount it is seeking to recover appears to exceed the sharing threshold.

¹² NW Natural/1300, Walker/32:6-8

1 Q. IS REASONABLE TO CONSIDER THE DEFERRAL IN THIS DOCKET?

2 A. No. The amount that NW Natural is seeking to recover exceeds the amount that it has actually 3 deferred by a significant margin. Further, since the final amount of the deferral is not yet 4 known, it is not appropriate to commence amortization of the deferral in this case. And, it is 5 likely that NW Natural will exceeded the sharing threshold, which will not be known until the 6 amount is finalized. Finally, NW Natural has yet to file its earnings for 2021, so it is not yet 7 possible in this docket to perform an earnings test for the 2021 accruals, as required by the UM 8 2132, Stipulation. Accordingly, AWEC recommends that the Horizon O&M deferral 9 amortization not be included in this case.

c. <u>UM 2192 TSA Security Directive 2</u>

- 11 Q. HOW MUCH HAS NW NATURAL INCURRED WITH RESPECT TO TSA 12 SECURITY DIRECTIVE 2?
- 13 A. In response to AWEC Data Request 87, NW Natural provided the costs that it has incurred to
 14 date with respect to the TSA Security Directive 2. Through February 2022, NW Natural has
 15 identified operating expenses of just \$211,146 associated with TSA Security Directive 2.
 16 While the operating expenses are small, NW Natural has identified capital of \$16,260,294
 17 associated with TSA Security Directive 2. The capital amounts, however, have not yet been
 18 transferred to plant and are currently being held in a construction work in progress ("CWIP")
 19 account.
- 20 Q. HAS THE TSA SECURITY DIRECTIVE 2 DEFERRAL BEEN APPROVED?
- 21 A. No.

1 Q. IS IT NECESSARY FOR NW NATURAL TO DEFER CAPITAL COSTS ASSOCIATED WITH CWIP?

- 3 A. No. NW Natural accrues Allowance for Funds Used During Construction ("AFUDC") on
- 4 CWIP balances. AFUDC compensates NW Natural for the cost of capital associated with the
- 5 TSA Security Directive 2 expenditures prior to them being placed into service. Therefore,
- 6 there are no capital costs to defer prior to a project being placed into service.

7 Q. WHAT DO YOU RECOMMEND FOR THE TSA SECURITY DIRECTIVE 2 DEFERRAL?

- 9 A. I recommend that the Commission decline to approve the TSA Security Directive 2 Deferral.
- While NW Natural will be spending material funds to comply with the program, those funds
- are primarily capital. Based on NW Natural's response to AWEC Data Request 87, the
- underlying capital has not yet been placed into service, and otherwise there are only immaterial
- O&M costs that NW Natural has accrued with respect to the program. Finally, like the other
- deferrals, NW Natural does not have the operating results necessary to perform an earnings test
- with respect to the amounts deferred.

16 VI.RATE SPREAD

17 O. PLEASE SUMMARIZE NW NATURAL'S PROPOSED RATE SPREAD.

- 18 A. In its testimony, NW Natural explains that its Long-Run Incremental Cost ("LRIC") study
- 19 "indicates that the Large Commercial, Industrial, and Transportation rate schedule classes are
- 20 paying more than their determined cost of service under present rates." NW Natural also
- explains that its "RS 2 Residential, RS 3 Basic Non-Residential (Commercial), and RS 27 Dry-
- Out rate schedules are paying less than their determined cost of service."¹⁴ To address this

NW Natural/1400, Wyman/3:7-9.

¹⁴ NW Natural/1400, Wynam/3:10-13.

disparity, NW Natural has adopted a method that applies "a rate increment cap that slightly moves each rate schedule that is indicated by the LRIC study to underpay its cost to serve closer to overall rate parity"¹⁵

4 Q. WHAT WERE THE RESULTS OF NW NATURAL'S COST OF SERVICE STUDY?

Table 4 below details the cost of service for each rate schedule in NW Natural's LRIC study. It also details the impact of NW Natural's proposed revenues based on their initial filing, not considering the February 28, 2022 errata filing.

Table 4

<u>Class Cost of Service Rate Parity</u>

Before and After NW Natural Proposed Rate Change

| | Current Revenues | % of Parity | % Change Required | NWN Prop. Rev. | % Increase | % of Parity |
|-------|---------------------|----------------|----------------------|-------------------|---------------|----------------|
| | Revenues | 1 amy | Required | 1 Top. Rev. | Hierease | 1 amy |
| 02R | 302,743,546 | 95% | 4.9% | 355,237,699 | 17.34% | 96% |
| 03C | 92,803,627 | 95% | 5.1% | 108,895,293 | 17.34% | 96% |
| 03I | 2,141,772 | 119% | -15.8% | 2,296,302 | 7.22% | 109% |
| 27R | 471,508 | 85% | 17.8% | 553,265 | 17.34% | 86% |
| 31CSF | 8,261,800 | 146% | -31.4% | 9,327,765 | 12.90% | 141% |
| 31CTF | 981,292 | 163% | -38.6% | 1,052,093 | 7.22% | 150% |
| 31ISF | 3,237,130 | 153% | -34.5% | 3,470,691 | 7.22% | 140% |
| 31ITF | 143,836 | 220% | -54.5% | 154,213 | 7.22% | 202% |
| 32CSF | 11,882,484 | 157% | -36.4% | 13,415,600 | 12.90% | 152% |
| 32ISF | 2,462,192 | 220% | -54.6% | 2,639,840 | 7.22% | 203% |
| 32CTF | 1,024,698 | 246% | -59.4% | 1,098,631 | 7.22% | 227% |
| 32ITF | 6,584,741 | 211% | -52.7% | 7,059,833 | 7.22% | 195% |
| 32CSI | 2,232,839 | 116% | -13.7% | 2,520,927 | 12.90% | 112% |
| 32ISI | 3,307,718 | 216% | -53.8% | 3,546,372 | 7.22% | 199% |
| 32CTI | 525,889 | 249% | -59.9% | 563,832 | 7.22% | 229% |
| 32ITI | 6,064,679 | 189% | -47.0% | 6,502,249 | 7.22% | 174% |
| 33T | | 100% | 0.0% | | 0.00% | 100% |
| | 444,869,752 | | | 518,334,605 | 16.51% | |

NW Natural, Wyman/4:1-3.

As demonstrated in **Table 4**, industrial and transportation rate schedules are paying rates significantly higher than their long run incremental cost of service. Prior to the application of NW Natural's proposed rate increase, most large industrial transportation customers are paying nearly double their cost of service. Rates for Schedules 32ITF and 32ITI, for example, would need to be reduced by 52.7% and 47.0% respectively, to bring those schedules to parity. In contrast, the residential and small commercial customer classes, while paying less than their cost of service, the magnitude is not as significant. Rate Schedules 02R and 03C only need to be increased by 4.9% and 5.1%, respectively, to bring those schedules to parity, prior to application of the rate increase. Those two rate schedules make up approximately 88.9% of NW Natural's revenues. Accordingly, small variations in the parity ratios of these rate schedule have a large impact on other customer classes. Similarly, only small changes to the rates for those schedules are necessary to address the large variations in parity for the other customer classes.

Q. HOW HAS NW NATURAL PROPOSED ADDRESSING THE DISPARITY IN ITS RATES?

The mechanics of NW Natural's rate spread proposal can be found at NW Natural/1400, Wyman/49:13-50:17. NW Natural applies a cap equal to 105% of the average rate increase to the below parity rate schedules. NW Natural subsequently applies a floor of 50% of the average rate increase for industrial and transportation rate classes, with the remainder applied to commercial rate classes. Importantly, this rate spread is applied before the application of supplemental rate schedules, so the end result of NW Natural's rate spread produces a different result than its proposal. The result of NW Natural's proposal including supplemental schedules may be seen in **Table 5**, below.

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Table 5
NW Natural Proposed Rate Spread Including Supplemental Schedules

| | Current | % of | NW Natural | % |
|-------|-------------|--------|-------------|----------|
| | Revenues | Parity | Rate Spread | Increase |
| 02R | 302,743,546 | 95% | 57,281,490 | 18.8% |
| 03C | 92,803,627 | 95.2% | 17,702,462 | 18.9% |
| 03I | 2,141,772 | 118.8% | 193,909 | 8.9% |
| 27R | 471,508 | 84.9% | 89,717 | 18.9% |
| 31CSF | 8,261,800 | 145.7% | 1,223,195 | 14.7% |
| 31CTF | 981,292 | 162.9% | 89,748 | 9.0% |
| 31ISF | 3,237,130 | 152.6% | 307,385 | 9.4% |
| 31ITF | 143,836 | 219.8% | 13,558 | 9.3% |
| 32CSF | 11,882,484 | 157.3% | 1,805,198 | 15.0% |
| 32ISF | 2,462,192 | 220.3% | 248,611 | 10.0% |
| 32CTF | 1,024,698 | 246.0% | 105,950 | 10.2% |
| 32ITF | 6,584,741 | 211.4% | 810,707 | 12.2% |
| 32CSI | 2,232,839 | 115.8% | 391,863 | 17.4% |
| 32ISI | 3,307,718 | 216.4% | 389,943 | 11.7% |
| 32CTI | 525,889 | 249.2% | 65,697 | 12.4% |
| 32ITI | 6,064,679 | 188.5% | 1,109,826 | 18.2% |
| 33T | - | 100.0% | - | 0.0% |
| | 444,869,752 | | 81,829,258 | 18.4% |

As can be observed, most large volume rate schedules are approximately 200% of their target parity ratio, prior to the rate increase. Yet, these customers are still being allocated rate increases upwards of 18.2%.

Q. DO YOU AGREE WITH NORTHWEST NATURAL'S PROPOSAL?

A. No. AWEC appreciates that NW Natural has acknowledged the disparity in its rates relative to the LRIC study. Given the severity of the disparity in rates, as well as the proposal to apply the mitigation measures before application supplemental schedules, AWEC recommends a more proactive approach to address the imbalance in NW Natural's class cost of service. While a

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rate cap has been used for rate mitigation in the past, the Commission has typically applied the cap level at 150%, not 105%, of the proposed rate increase.

3 Q. WHAT DO YOU PROPOSE?

A. AWEC recommends a rate spread based on a cap equal to 110% of the average margin rate increase. Further, AWEC recommends establishing a floor at 0% for industrial sales and transportation rate schedules, with any residual applied to commercial rate schedules. Finally, AWEC recommends that the base rates used in this calculation include all supplemental schedules, including the Lexington RNG surcharge, as well as any other deferrals the Commission approves. Based on these adjustments, AWEC's proposed rate spread is detailed in **Table 6**, below.

Table 6
AWEC Proposed Rate Spread at AWEC Rev. Req. Including Lexington RNG Surcharge

| | Current | % of | AWEC | % |
|-------|-------------|--------|-------------|----------|
| | Revenues | Parity | Rate Spread | Increase |
| 02R | 302,743,546 | 95% | 9,067,840 | 3.0% |
| 03C | 92,803,627 | 95.2% | 2,779,674 | 3.0% |
| 03I | 2,141,772 | 118.8% | 21,798 | 1.0% |
| 27R | 471,508 | 84.9% | 14,123 | 3.0% |
| 31CSF | 8,261,800 | 145.7% | 84,085 | 1.0% |
| 31CTF | 981,292 | 162.9% | - | 0.0% |
| 31ISF | 3,237,130 | 152.6% | - | 0.0% |
| 31ITF | 143,836 | 219.8% | - | 0.0% |
| 32CSF | 11,882,484 | 157.3% | 120,934 | 1.0% |
| 32ISF | 2,462,192 | 220.3% | - | 0.0% |
| 32CTF | 1,024,698 | 246.0% | - | 0.0% |
| 32ITF | 6,584,741 | 211.4% | - | 0.0% |
| 32CSI | 2,232,839 | 115.8% | 22,725 | 1.0% |
| 32ISI | 3,307,718 | 216.4% | - | 0.0% |
| 32CTI | 525,889 | 249.2% | - | 0.0% |
| 32ITI | 6,064,679 | 188.5% | - | 0.0% |
| 33T | - | 100.0% | - | 0.0% |
| | 444,869,752 | | 12,111,180 | 2.7% |

The rate spread detailed above include both the base rate revenue requirement and the Lexington RNG surcharge discussed above. As can be seen above, applying a cap at 1.10% of the average rate increase results in residential customers receiving a rate increase that is only 0.3% higher than the average rate increase. This minor difference to NW Natural's rate spread is sufficient to keep all rate schedules with parity ratios exceeding 150% at a zero percent rate increase in this case.

Q. WHY DO YOU RECOMMEND CONSIDERING THE SUPPLEMENTAL SCHEDULES IN RATE SPREAD?

A. In the context of NW Natural's cost of service, the individual elements that make up the cost of service—such as storage costs, mains, or customer service expenses—are not viewed

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independently from the overall rate spread. Some of the elements have greater impacts on some customer classes than others. Meter expenses, for example, are allocated more to small customer classes than large customer classes. Singling out a single element of the cost of service, and adopting a separate rate spread for that amount, produce results that are contrary to the principles of cost causation. AWEC does not necessarily oppose considering the supplemental schedules in separate schedules with an allocation that is consistent with cost causation. Notwithstanding, it is inconsistent with the LRIC study results to allocate significant rate increases to a customer class through a supplemental schedule, when the overall LRIC study is showing that the customers rates need to be reduced.

Notwithstanding, to the extent parties are opposed to such a recommendation, AWEC would like to consider other mitigating rate design alternatives. Specifically, AWEC would like to consider including storage revenue requirement in a separate schedule. While Transportation customers can purchase storage services through Schedule 80, Transportation customers do not utilize and do not benefit from NW Natural's storage facilities through base rates. Under AWEC's proposal, storage costs would be removed from base rates and recovered from sales customers through a separate schedule that is that is trued up annually in the PGA. AWEC will address this proposal as necessary in Rebuttal Testimony.

Q. DOES THIS CONCLUDE YOUR OPENING TESTIMONY?

19 A. Yes.

BEFORE THE

PUBLIC UTILITY COMMISSION OF OREGON

UG 435

| In the Matter of |) |
|---|---|
| NORTHWEST NATURAL GAS CORPORATION, dba NW NATURAL, |) |
| Request for a General Rate Revision. |) |

AWEC/101

Qualification Statement of Bradley G. Mullins

OPENING TESTIMONY OF BRADLEY G. MULLINS ON BEHALF OF ALLIANCE OF WESTERN ENERGY CONSUMERS

April 22, 2022



Brad Mullins

Principal Consultant Vihiluoto 15 FIN-90440 Kempele, Finland USA +1 503 841-1465 <u>brmullins@mwanalytics.com</u> www.mwanalytics.com

ABOUT

MW Analytics is the professional consulting practice of Brad Mullins, a consultant and expert witness that represents utility customers in regulatory proceedings before state utility commissions throughout the Western United States. Brad has sponsored expert witness testimony in over 80 regulatory proceeding encompassing a variety of subject matters, including revenue requirement, regulatory accounting, rate development, and new resource additions. Brad has also assisted his clients through informal regulatory, legislative and energy policy matters. In addition to providing regulatory services, MW Analytics also provides advisory, energy marketing and other energy consulting services.

PRACTICE AREAS

MW Analytics has experience representing customer interests in litigated and informal regulatory proceedings, including the following subject areas:

- Revenue Requirement
- Power Cost Modeling
- Tax Provisions and Tax Reform
- Capital Additions and Forecasting
- Regulatory Accounting

- Depreciation Studies
- Pole Attachments
- Integrated Resource Planning
- Avoided Cost Calculations
- Utility Plant Retirements

EDUCATION AND WORK EXPERIENCE

Brad has a Master of Accounting degree from the University of Utah. After obtaining his master's degree, Brad worked at Deloitte Tax in San Jose, California, where he was responsible for preparing corporate tax returns for multinational corporate clients and partnership returns for hedge fund clients. Brad was later promoted to a Tax Senior position in a national tax practice specializing research and development tax credit studies. Following Deloitte, Brad worked at PacifiCorp Energy, as an analyst involved in power cost modeling and forecasting. At PacifiCorp Brad was responsible for preparing power cost forecasts and supporting testimony for regulatory filings, preparing annual power cost deferral filings, and developing qualifying facility avoided cost calculations.

REGULATORY APPEARANCES

Brad has sponsored expert witness testimony in the following regulatory proceedings:

| Docket | Party | Topics |
|--|---|--|
| In re Formal Complaint of Tree Top Inc. Against Cascade Natural Gas Corporation, Wa.UTC Docket No. UG-210745 | Tree Top, Inc. | Overrun Entitlement Charges |
| In re Northwest Natural Gas Company, dba NW Natural, Request for Approval of an Affiliated Interest Agreement with Lexington Renewables, LLC, Or.PUC. Docket No. UI 451. | Alliance of Western Energy Consumers | Affiliated Interest |
| In re Avista Corporation, Request for a General Rate Revision, Or.PUC Docket No. UG 433 | Alliance of Western Energy Consumers | Revenue Requirement / Cost of Service |
| In re PacifiCorp Power Cost Only Rate Case, Wa.UTC Docket No. UE-210402. | Alliance of Western Energy Consumers | Power Cost Modeling |

| Docket | Party | Topics |
|---|--|---|
| In re PacifiCorp Limited Issue Rate Filing, Wa.UTC Docket No. UE-210532. | Alliance of Western Energy Consumers | Revenue Requirement / Settlement |
| In re the Application of Rocky Mountain Power for Authority to Increase Its Rates and Charges in Idaho and Approval of Proposed Electric Service Schedules and Regulations, Id.PUC Case No. PAC-E-21-07. | PacifiCorp Idaho Industrial Customers | Revenue Requirement / Settlement |
| In re Portland General Electric, Request for a General Rate Revision, Or.PUC Docket No. UE 394. | Alliance of Western Energy Consumers | Power Cost Modeling |
| In re Joint Application of Nevada Power Company d/b/a NV Energy and Sierra Pacific Power Company d/b/a NV Energy for approval of their Economic Recovery Transportation Electrification Plan for the period 2022-2024, PUC Nv. Docket No. 21-09004 | Nevada Resort Association | Transportation Electrification |
| In re PacifiCorp, dba Pacific Power, 2020 Power Cost Adjustment Mechanism, Or.PUC Docket No. UE 392. | Alliance of Western Energy Consumers | Power Cost Deferral |
| In re the Application of Rocky Mountain Power for Authority to Decrease Current Rates by \$14.9 Million to Refund Deferred Net Power Costs Under Tariff Schedule 95 Energy Cost Adjustment Mechanism and to Decrease Current Rates by \$166 Thousand Under Tariff Schedule 93, REC and SO2 Revenue Adjustment Mechanism, Wy.PSC Docket No. 20000-599-EM-21. | Wyoming Industrial Energy Consumers | Power Cost Deferral |
| In re Portland General Electric 2021 Annual Update Tariff Schedule 125, Or. PUC Docket No. UE 391. | Alliance of Western Energy Consumers | Power Cost Modeling |
| In re Joint Application of Nevada Power Company d/b/a NV Energy and Sierra Pacific Power Company d/b/a NV Energy for approval of a regulatory asset account to recover costs relating to the development and implementation of their Joint Natural Disaster Protection Plan, PUC NV. Docket No. 21-03004. | Wynn Las Vegas, LLC; Smart Energy Alliance | Single-Issue Rate Filing |
| In re PacifiCorp d.b.a. Pacific Power, 2022 Transition Adjustment Mechanism, Or.PUC Docket No. UE 390. | Alliance of Western Energy Consumers | Power Cost Modeling |
| In re Avista 2020 General Rate Case, Wa.U.T.C. Docket No. UE-200900 (Cons.). | Alliance of Western Energy Consumers | Revenue Requirement |
| In re NV Energy's Fourth Amendment to Its 2018 Joint Integrated Resource Plan, PUC Nv. Docket No 20-07023. | Wynn Las Vegas, LLC; Smart Energy Alliance | Transmission Planning |
| In Re Cascade Natural Gas Corporation, 2020 General Rate Case, Wa.U.T.C. Docket No. UG-200568 | Alliance of Western Energy Consumers | Revenue Requirement |
| In re Cascade Natural Gas Corporation, Petition to File Depreciation Study, Or.PUC Docket No. UM 2073 | Alliance of Western Energy Consumers | Depreciation Rates |
| In re the Application of Rocky Mountain Power for Authority to Increase Current Rates By \$7.4 Million to Recover Deferred Net Power Costs Under Tariff Schedule 95 Energy Cost Adjustment Mechanism and to Decrease Current Rates by \$604 Thousand Under Tariff Schedule 93, Rec and So2 Revenue Adjustment Mechanism, Wy.PSC Docket No. 20000-582-EM-20 | Wyoming Industrial Energy Consumers | Power Cost Deferral |
| In re the Complaint of Willamette Falls Paper Company and West Linn Paper Company against Portland General Electric Company, Or.PUC Docket No. UM 2107 | Willamette Falls Paper Company | Consumer Direct Access, Tariff Dispute |
| In re The Application of Rocky Mountain Power for Authority to Increase its Retail Electric Service Rates by Approximately \$7.1 Million Per Year or 1.1 Percent, to Revise the Energy Cost Adjustment Mechanism, and to Discontinue Operations at Cholla Unit 4, Wy.PSC Docket No. 2000-578-ER- 20 | Wyoming Industrial Energy Consumers | Power Cost Modeling |
| Avista Corporation 2021 General Rate Case, Or.PUC Docket No. UG 389 | Alliance of Western Energy Consumers | Revenue Requirement Rate Design |



| Docket | Party | Topics |
|--|---|---|
| In re NW Natural Request for a General Rate Revision, Or.PUC Docket No. UG 388. | Alliance of Western Energy Consumers | Revenue Requirement, Rate Design |
| In re PacifiCorp, Request to Initiate an Investigation of Multi-Jurisdictional Issues and Approve an Inter-Jurisdictional Cost Allocation Protocol, Or.PUC, UM 1050. | Alliance of Western Energy Consumers | Jurisdictional Allocation |
| In re Puget Sound Energy 2019 General Rate Case, Wa.UTC Docket No. UE 190529. | Alliance of Western Energy Consumers | Revenue Requirement, Coal Retirement Costs |
| Avista Corporation 2020 General Rate Case, Wa.UTC Docket No. UE-190334 (Cons.) | Alliance of Western Energy Consumers | Revenue Requirement, Rate Design |
| In re Cascade Natural Gas Corporation Application for Approval of a Safety Cost Recovery Mechanism, Or. PUC Docket No. UM 2026. | Alliance of Western Energy Consumers | Ratemaking Policy |
| In re Avista Corporation, Request for a General Rate Revision, Or.PUC Docket No. UG 366. | Alliance of Western Energy Consumers | Revenue Requirement, Rate Design |
| In re Portland General Electric, 2020 Annual Update Tariff (Schedule 125), Or.PUC Docket No UE 359. | Alliance of Western Energy Consumers | Power Cost Modeling |
| In re PacifiCorp 2020 Transition Adjustment Mechanism, Or.PUC Docket No. UE 356. | Alliance of Western Energy Consumers | Power Cost Modeling |
| <u>In re PacifiCorp 2020 Renewable Adjustment Clause,</u> Or.PUC Docket No. UE 352. | Alliance of Western Energy Consumers | Single-Issue Rate Filing |
| 2020 Joint Power and Transmission Rate Proceeding, Bonneville Power Administration, Case No. BP-20. | Alliance of Western Energy Consumers | Revenue Requirement, Policy |
| In the Matter of the Application of MSG Las Vegas, LLC for a Proposed Transaction with a Provider of New Electric Resources, PUC Nv. Docket No. 18-10034 | Madison Square Garden | Customer Direct Access |
| Puget Sound Energy 2018 Expedited Rate Filing, Wa.UTC Dockets UE-180899/UG-180900 (Cons.). | Alliance of Western Energy Consumers | Revenue Requirement, Settlement |
| Georgia Pacific Gypsum LLC's Application to Purchase Energy, Capacity, and/or Ancillary Services from a Provider of New Electric Resources, PUC Nv. Docket No. 18-09015. | Georgia Pacific | Customer Direct Access |
| Joint Application of Nevada Power Company d/b/a NV Energy for approval of their 2018-2038 Triennial Integrated Resource Plan and 2019-2021 Energy Supply Plan, PUCN Docket No. 18-06003. | Smart Energy Alliance | Resource Planning |
| In re Cascade Natural Gas Corporation Request for a General Rate Revision, Or.PUC, Docket No. UE 347. | Alliance of Western Energy Consumers | Revenue Requirement, Rate Design |
| In re Portland General Electric Company Request for a General Rate Revision, Or.PUC Docket No UE 335. | Alliance of Western Energy Consumers | Revenue Requirement, Rate Design |
| In re Northwest Natural Gas Company, dba NW Natural, Request for a General Rate Revision, Or.PUC Docket No. UG 344. | Alliance of Western Energy Consumers | Revenue Requirement, Rate Design |
| In re Cascade Natural Gas Corporation Request for a General Rate Revision, Wa.UTC, Docket No. UE-170929. | Northwest Industrial Gas Users | Revenue Requirement, Rate Design |
| In the Matter of Hydro One Limited, Application for Authorization to Exercise Substantial Influence over the Policies and Actions of Avista Corporation, Or.PUC, Docket No. UM 1897. | Alliance of Western Energy Consumers | Merger |
| Application of Rocky Mountain Power for Approval of a Significant Energy Resource Decision and Voluntary Request for Approval of Resource Decision, Ut.PSC Docket No. 17-035-40 | Utah Industrial Energy Consumers, & Utah Associated Energy Users | New Resource Addition |
| In re PacifiCorp, dba Rocky Mountain Power, for a CPCN and Binding Ratemaking Treatment for New Wind and Transmission Facilities, Id.PUC Case No. PAC-E-17-07 | PacifiCorp Idaho Industrial Customers | New Resource Addition |



| Docket | Party | Topics |
|--|--|-------------------------------------|
| In re PacifiCorp, dba Pacific Power, 2016 Power Cost Adjustment Mechanism, Or.PUC, Docket No. UE 327. | Alliance of Western Energy Consumers | Power Cost Deferral |
| In re PacifiCorp 2016 Power Cost Adjustment Mechanism, Wa.UTC Docket No. UE-170717 | Boise Whitepaper, LLC | Power Cost Deferral |
| In re Avista Corporation 2018 General Rate Case, Wa.UTC Dockets UE-170485 and UG-170486 (Consolidated). | Industrial Customers of Northwest Utilities, & Northwest Industrial Gas Users | Revenue Requirement, Rate Design |
| Application of Nevada Power Company d/b/a NV Energy for authority to adjust its annual revenue requirement for general rates charged to all classes of electric customers and for relief properly related thereto, PUCN. Docket No. 17-06003. | Smart Energy Alliance | Revenue Requirement |
| In re the Application of Rocky Mountain Power for Authority to Decrease Current Rates by \$15.7 Million to Refund Deferred Net Power Costs Under Tariff Schedule 95 Energy Cost Adjustment Mechanism and to Decrease Current Rates By \$528 Thousand Under Tariff Schedule 93, REC and SO2 Revenue Adjustment Mechanism, Wy. PSC, Docket No. 20000-514-EA-17 (Record No. 14696). | Wyoming Industrial Energy Consumers | Power Cost Deferral |
| In re the 2018 General Rate Case of Puget Sound Energy, Wa.UTC, Docket No. UE-170033 (Cons.). | Industrial Customers of Northwest Utilities, & Northwest Industrial Gas Users | Revenue Requirement, Rate Design |
| In re PacifiCorp, dba Pacific Power, 2018 Transition Adjustment Mechanism, Or.PUC, Docket No. UE 323. | Industrial Customers of Northwest Utilities | Power Cost Modeling |
| In re Portland General Electric Company, Request for a General Rate Revision, Or.PUC, Docket No. UE 319. | Industrial Customers of Northwest Utilities | Revenue Requirement, Rate Design |
| In re Portland General Electric Company, Application for Transportation Electrification Programs, Or.PUC, UM 1811. | Industrial Customers of Northwest Utilities | Electric Vehicle Charging |
| In re Pacific Power & Light Company, Application for Transportation Electrification Programs, Or.PUC, Docket No. UM 1810. | Industrial Customers of Northwest Utilities | Single-issue Ratemaking |
| In re the Public Utility Commission of Oregon, Investigation to Examine PacifiCorp, dba Pacific Power's Non-Standard Avoided Cost Pricing, Or.PUC, Docket No. UM 1802. | Industrial Customers of Northwest Utilities | Qualifying Facilities |
| In re Pacific Power & Light Co., Revisions to Tariff WN U-75, Advice No. 16-05, to modify the Company's existing tariffs governing permanent disconnection and removal procedures, Wa.UTC, Docket No. UE-161204. | Boise Whitepaper, LLC | Customer Direct Access |
| In re Puget Sound Energy's Revisions to Tariff WN U-60, Adding Schedule 451, Implementing a New Retail Wheeling Service, Wa.UTC, Docket No. UE-161123. | Industrial Customers of Northwest Utilities | Customer Direct Access |
| <u>2018 Joint Power and Transmission Rate Proceeding,</u> Bonneville Power Administration, Case No. BP-18. | Industrial Customers of Northwest Utilities | Revenue Requirement, Policy |
| In re Portland General Electric Company Application for Approval of Sale of Harborton Restoration Project Property, Or.PUC, Docket No. UP 334 (Cons.). | Industrial Customers of Northwest Utilities | Environmental Deferral |
| In re An Investigation of Policies Related to Renewable Distributed Electric Generation, Ar.PSC, Matter No. 16-028-U. | Arkansas Electric Energy Consumers | Net Metering |
| In re Net Metering and the Implementation of Act 827 of 2015, Ar.PSC, Matter No. 16-027-R. | Arkansas Electric Energy Consumers | Net Metering |
| In re the Application of Rocky Mountain Power for Approval of the 2016 Energy Balancing Account, Ut.PSC, Docket No. 16-035-01 | Utah Associated Energy Users | Power Cost Deferral |



| Docket | Party | Topics |
|--|--|--|
| In re Avista Corporation Request for a General Rate Revision, Wa.UTC, Docket No. UE-160228 (Cons.). | Industrial Customers of Northwest Utilities, & Northwest Industrial Gas Users | Revenue Requirement, Rate Design |
| In re the Application of Rocky Mountain Power to Decrease Current Rates by \$2.7 Million to Recover Deferred Net Power Costs Pursuant to Tariff Schedule 95 and to Increase Rates by \$50 Thousand Pursuant to Tariff Schedule 93, Wy.PSC, Docket No. 20000-292-EA-16. | Wyoming Industrial Energy Consumers | Power Cost Deferral |
| In re PacifiCorp, dba Pacific Power, 2017 Transition Adjustment Mechanism, Or.PUC, Docket No. UE 307. | Industrial Customers of Northwest Utilities | Power Cost Modeling |
| In re Portland General Electric Company, 2017 Annual Power Cost Update Tariff (Schedule 125), Or.PUC, Docket No. UE 308. | Industrial Customers of Northwest Utilities | Power Cost Modeling |
| In re Pacific Power & Light Company, General rate increase for electric services, Wa.UTC, Docket No. UE-152253. | Boise Whitepaper, LLC | Revenue Requirement, Rate Design |
| In The Matter of the Application of Rocky Mountain Power for Authority of a General Rate Increase in Its Retail Electric Utility Service Rates in Wyoming of \$32.4 Million Per Year or 4.5 Percent, Wy.PSC, Docket No. 20000-469-ER-15. | Wyoming Industrial Energy Consumers | Power Cost Modeling |
| In re Avista Corporation, General Rate Increase for Electric Services, Wa.UTC, Docket No. UE-150204. | Industrial Customers of Northwest Utilities | Revenue Requirement, Rate Design |
| In re the Application of Rocky Mountain Power to Decrease Rates by \$17.6 Million to Recover Deferred Net Power Costs Pursuant to Tariff Schedule 95 to Decrease Rates by \$4.7 Million Pursuant to Tariff Schedule 93, Wy.PSC, Docket No. 20000-472-EA-15. | Wyoming Industrial Energy Consumers | Power Cost Deferral |
| Formal complaint of The Walla Walla Country Club against Pacific Power & Light Company for refusal to provide disconnection under Commission-approved terms and fees, as mandated under Company tariff rules, Wa.UTC, Docket No. UE-143932. | Columbia Rural Electric Association | Customer Direct Access / Customer Choice |
| In re PacifiCorp, dba Pacific Power, 2016 Transition Adjustment Mechanism, Or.PUC, Docket No. UE 296. | Industrial Customers of Northwest Utilities | Power Cost Modeling |
| In re Portland General Electric Company, Request for a General Rate Revision, Or.PUC, Docket No. UE 294. | Industrial Customers of Northwest Utilities | Revenue Requirement, Rate Design |
| In re Portland General Electric Company and PacifiCorp dba Pacific Power, Request for Generic Power Cost Adjustment Mechanism Investigation, Or.PUC, Docket No. UM 1662. | Industrial Customers of Northwest Utilities | Power Cost Deferral |
| In re PacifiCorp, dba Pacific Power, Application for Approval of Deer Creek Mine Transaction, Or.PUC, Docket No. UM 1712. | Industrial Customers of Northwest Utilities | Single-issue Ratemaking |
| In re Public Utility Commission of Oregon, Investigation to Explore Issues Related to a Renewable Generator's Contribution to Capacity, Or.PUC, Docket No. UM 1719. | Industrial Customers of Northwest Utilities | Resource Planning |
| In re Portland General Electric Company, Application for Deferral Accounting of Excess Pension Costs and Carrying Costs on Cash Contributions, Or.PUC, Docket No. UM 1623. | Industrial Customers of Northwest Utilities | Single-issue Ratemaking |
| 2016 Joint Power and Transmission Rate Proceeding, Bonneville Power Administration, Case No. BP-16. | Industrial Customers of Northwest Utilities | Revenue Requirement, Policy |
| In re Puget Sound Energy, Petition to Update Methodologies Used to Allocate Electric Cost of Service and for Electric Rate Design Purposes, Wa.UTC, Docket No. UE-141368. | Industrial Customers of Northwest Utilities | Cost of Service |
| In re Pacific Power & Light Company, Request for a General Rate Revision Resulting in an Overall Price Change of 8.5 Percent, or \$27.2 Million, Wa.UTC, Docket No. UE-140762. | Boise Whitepaper, LLC | Revenue Requirement, Rate Design |



| Docket | Party | Topics |
|---|--|---|
| In re Puget Sound Energy, Revises the Power Cost Rate in WN U-60, Tariff G, Schedule 95, to reflect a decrease of \$9,554,847 in the Company's overall normalized power supply costs, Wa.UTC, Docket No. UE-141141. | Industrial Customers of Northwest Utilities | Power Cost Modeling |
| In re the Application of Rocky Mountain Power for Authority to Increase Its Retail Electric Utility Service Rates in Wyoming Approximately \$36.1 Million Per Year or 5.3 Percent, Wy.PSC, Docket No. 20000-446-ER-14. | Wyoming Industrial Energy Consumers | Power Cost Modeling |
| In re Avista Corporation, General Rate Increase for Electric Services, RE, Tariff WN U-28, Which Proposes an Overall Net Electric Billed Increase of 5.5 Percent Effective January 1, 2015, Wa.UTC, Docket No. UE-140188. | Industrial Customers of Northwest Utilities | Revenue Requirement, Rate Design, Power Costs |
| In re PacifiCorp, dba Pacific Power, Application for Deferred Accounting and Prudence Determination Associated with the Energy Imbalance Market, Or.PUC, Docket No. UM 1689. | Industrial Customers of Northwest Utilities | Single-issue Ratemaking |
| In re PacifiCorp, dba Pacific Power, 2015 Transition Adjustment Mechanism, Or.PUC, Docket No. UE 287. | Industrial Customers of Northwest Utilities | Power Cost Modeling |
| In re Portland General Electric Company, Request for a General Rate Revision, Or.PUC, Docket No. UE 283. | Industrial Customers of Northwest Utilities | Revenue Requirement, Rate Design |
| In re Portland General Electric Company's Net Variable Power Costs (NVPC) and Annual Power Cost Update (APCU), Or.PUC, Docket No. UE 286. | Industrial Customers of Northwest Utilities | Power Cost Modeling |
| In re Portland General Electric Company 2014 Schedule 145 Boardman Power Plant Operating Adjustment, Or.PUC, Docket No. UE 281. | Industrial Customers of Northwest Utilities | Coal Retirement |
| In re PacifiCorp, dba Pacific Power, Transition Adjustment, Five-Year Cost of Service Opt-Out (adopting testimony of Donald W. Schoenbeck), Or.PUC, Docket No. UE 267. | Industrial Customers of Northwest Utilities | Customer Direct Access |



BEFORE THE

PUBLIC UTILITY COMMISSION OF OREGON

UG 435

| In the Matter of |) |
|---|---|
| NORTHWEST NATURAL GAS CORPORATION, dba NW NATURAL, |) |
| Request for a General Rate Revision. |) |

AWEC/102

Revenue Requirement Summary

OPENING TESTIMONY OF BRADLEY G. MULLINS ON BEHALF OF ALLIANCE OF WESTERN ENERGY CONSUMERS

April 22, 2022

Natural Gas Revenue Requirement Summary (\$000)

| | Revenue Requirement | | | Impact of AWEC Adjustments | | | | | |
|-------------|---------------------|-------------------------------|-----------|----------------------------|-----------|-----------|-----------|------------|-----------|
| | | | | | Rev. Req. | Pre-Tax | * | | Rev. Req. |
| | Adj. | | Net Oper. | | Def. / | Net Oper. | Net Oper. | | Def. / |
| Line | No. | Description | Income | Rate Base | (Suf.) | Income | Income | Rate Base | (Suf.) |
| 1 | | Feb 28, 2022 Eratta | \$67,508 | \$1,780,963 | 78,030 | | | | |
| <u>Adju</u> | stments: | | | | | | | | |
| 2 | A1 | Cost of Capital | \$67,508 | \$1,780,963 | 74,266 | - | <u>-</u> | - | (3,764) |
| 3 | A2 | Errata Adjustment | \$67,177 | \$1,729,298 | 69,484 | (\$420) | (\$332) | (\$51,664) | (4,782) |
| 4 | A3 | Rate Base Period | \$67,177 | \$1,529,700 | 50,538 | - | - | (199,598) | (18,946) |
| 5 | A4 | Depreciation Period | \$77,482 | \$1,529,700 | 36,017 | 13,044 | 10,305 | = | (14,521) |
| 6 | A5 | Remove Gas Costs and Revenues | \$78,720 | \$1,529,700 | 34,272 | 1,568 | \$1,238 | - | (1,745) |
| 7 | A6 | Non-Labor O&M | \$83,214 | \$1,529,700 | 27,939 | 5,688 | 4,494 | - | (6,332) |
| 8 | A7 | D&O Insurance | \$83,477 | \$1,529,700 | 27,568 | 333 | 263 | - | (371) |
| 9 | A8 | Allison Spa | \$83,487 | \$1,529,700 | 27,554 | 13 | 11 | - | (15) |
| 10 | A9 | Stock Compensation | \$85,092 | \$1,529,700 | 25,293 | 2,031 | 1,604 | = | (2,261) |
| 11 | A10 | Executive Incentives | \$87,110 | \$1,529,700 | 22,449 | 2,554 | 2,018 | - | (2,844) |
| 12 | A11 | Directors Fees & Expense | \$88,597 | \$1,529,700 | 20,353 | 1,883 | 1,488 | - | (2,096) |
| 13 | A12 | Stock & Bond Costs | \$88,636 | \$1,529,700 | 20,299 | 49 | 39 | - | (54) |
| 14 | A13 | Refreshments | \$88,744 | \$1,529,700 | 20,146 | 137 | 108 | - | (152) |
| 15 | A14 | COVID-19 Contra Revenues | \$89,165 | \$1,529,700 | 19,552 | 534 | 422 | - | (594) |
| 16 | A15 | Rate Case Expense | \$89,179 | \$1,529,700 | 19,534 | 17 | 13 | - | (19) |
| 17 | A16 | R&D Expense | \$89,708 | \$1,529,700 | 18,788 | 670 | 529 | - | (746) |
| 18 | A17 | Horizon 1 Start-up O&M | \$94,273 | \$1,529,700 | 12,355 | 5,778 | 4,565 | - | (6,433) |
| 19 | A18 | Sch. 197 Over Collection | \$94,661 | \$1,529,700 | 11,809 | 491 | 388 | - | (546) |
| 20 | A19 | Sch. 183 Over Collection | \$96,383 | \$1,529,700 | 9,381 | 2,181 | 1,723 | - | (2,428) |
| 21 | A20 | Interest Coordination | \$95,257 | \$1,529,700 | 10,969 | | (1,127) | | 1,588 |
| 22 | | Adjusted Results | \$95,257 | \$1,529,700 | 10,969 | 36,551 | 27,748 | (251,263) | (67,062) |

BEFORE THE

PUBLIC UTILITY COMMISSION OF OREGON

UG 435

| In the Matter of |) |
|---|---|
| NORTHWEST NATURAL GAS CORPORATION, dba NW NATURAL, |) |
| Request for a General Rate Revision. |) |

AWEC/103

REDACTED

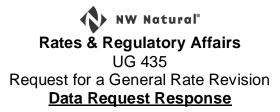
Responses to Data Requests

OPENING TESTIMONY OF BRADLEY G. MULLINS

ON BEHALF OF

ALLIANCE OF WESTERN ENERGY CONSUMERS

April 22, 2022



9. Reference "UG 435 - Exh. 1300 - WP1 - Revenue Requirements Model": Please provide an update version of the referenced workpaper including an adjustment that removes all non-margin revenue requirement items, such as gas costs and supplemental rate schedules.

Response:

Please see attachment "UG 435 AWEC DR 9 Attachment 1 a modified version of the "UG 435 - Exh. 1300 - WP1 - Revenue Requirements Model" with removal of non-margin revenue requirement items (i.e., gas costs). The other supplemental rate schedules 182, 196, and 197 that are built into base rates will be included within margin, but the offsetting amortizations are either in O&M or federal income tax expense.

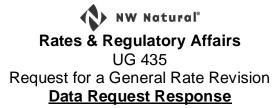
With the removal of gas costs, the updated incremental revenue requirement is lower by \$1.7 million from the Company's initial filing. This variance is due to certain expenses that are tied to Company revenues, such as the Department of Energy (DOE) fees and Corporate Activity Tax (CAT) expenses. The UG 435 – Exh. 1300 – WP1 – Revenue Requirements Model is designed to include gas costs to accurately gross up revenue, needed for a full revenue requirement.

Reference "UG 435 - Exh. 1314 - WP1 - Lexington RNG COS – CONFIDENTIAL,": Please provide copies of all partnership/LLC agreements and contractual agreements associated with the Tyson Lexington Project.

Response:

The following highly confidential agreements have been provided as Highly Confidential UG 435 AWEC DR 28 Attachments 1-11.

- 1. Membership Purchase Interest Agreement
- 2. Biogas Processing Site License Agreement
- 3. BioCarbN Guaranty of Sole Member to Membership Purchase Interest Agreement
- 4. Development and Investment Framework Agreement
- 5. Management Services Agreement
- 6. LLC Operating Agreement
- 7. Interconnection Agreement
- 8. License, Consent, Ground Lease Subordination and Access Agreement
- 9. NW Natural RNG Offtake Contract
- 10. (Engineering, Procurement, Construction (EPC) Agreement
- 11. Project Management Agreement



Reference "UG 435 - Exh. 1314 - WP1 - Lexington RNG COS - CONFIDENTIAL," Tab "Deferred Tax," Excel Column "N": Please provide an explanation for the values in the referenced column.

| Confidential Response: | | |
|------------------------|--|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |



40. Reference NW Natural's response to Staff Data Request 143, Attachment 1: Please provide an updated version of the referenced workpaper with actual cost data for the entirety of 2021 (the referenced workpaper used a forecast for Q4 2021).

Response:

Actual Base Year O&M results are being updated in UG 435 OPUC DR 276. That data request references Standard Data Requests 58a and 58b which provide Total O&M (part a) and Non-Payroll O&M (part b) by FERC account. These were originally answered in UG 435 SDR 58 with Q4 forecast data but are being revised in UG 435 OPUC DR 276 to reflect the full year actuals.

The Company objects to this request for reasons set forth in OAR 860-001-0500. The Company has not updated Staff Data Request 143, Attachment 1 with actual cost data for the entirety of 2021. The model provided in response to Staff Data Request 143, Attachment 1 is highly granular with many interdependencies within the detail. Updating Staff Data Request 143, Attachment 1, with actuals for Q4 2021, would require an extraordinarily time consuming and manual effort (the Company estimates more than 50 hours of work by full-time employees) to review and potentially revise every number in the model for Q4 2021. Doing so also would call into question the need to review and potentially revise all assumptions and inputs that the Company used to forecast Q4 2021 (e.g., inflation rate, employee count, payroll overhead rates, pay increase assumptions, affiliate allocations, rolling historical averages). In essence, the Company would be required to develop and submit an alternative to a significant component of its rate case.



Request for a General Rate Revision

Data Request Response

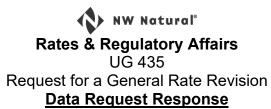
Request No.: UG 435 AWEC DR 42

42. Reference NW Natural's response to Staff Data Request 143, Attachment 1, Tab "Dept Non-Payroll Forecast" Excel Column M: Please provide workpapers supporting the values in each row identified as a "Test Period Adjustment" in the referenced column.

Response:

Please refer to the following table for excel rows with test period adjustments as requested. In addition, the Company's response to UG 435 OPUC DR 202 and the attachments reference therein provide workpapers for the non-CPI adjustments.

| Excel Row | Topic | Amount | Support |
|-----------|------------|--------------|---|
| 1509 | Account | \$64,937 | Tab "Paymentus" cells N63 thru N74 less the sum of excel rows |
| | Services | | 1507+1508, columns AV thru BG, on tab "Dept Non-Payroll Forecast" |
| 2686 | Contract | \$797,534 | Tab "LocateSurvey", the sum of rows 4+5 columns P thru AA less the |
| | Services | | sum of excel rows 2682+2683, columns AV thru BG on tab "Dept Non- |
| | | | Payroll Forecast" |
| 2687 | Contract | \$94,786 | Tab "LocateSurvey", row 6 columns P thru AA less excel row 2684, |
| | Services | | columns AV thru BG on tab "Dept Non-Payroll Forecast" |
| 2688 | Contract | \$1,822,841 | Tab "LocateSurvey", row 7 columns P thru AA plus tab "HOS survey |
| | Services | | work" row 49 columns S thru AD less excel row 2685, columns AV thru |
| | | | BG on tab "Dept Non-Payroll Forecast" |
| 2872 | 250 Taylor | \$692,696 | Refer to UG 435 OPUC DR 202 Attachment 1 tab "HQ O&M Exhibit" |
| | | | cell G18 divided by 12 (monthly amount) less the sum of excel rows |
| | | | 2870+2871 columns AV thru BG on tab "Dept Non-Payroll Forecast" |
| 2945 | Facilities | \$5,621 | Refer to UG 435 OPUC DR 202 Attachment 1 tab "HQ O&M Exhibit" |
| | | | cell G20 divided by 12 (monthly amount) less excel row 2944 columns |
| | | | AV thru BD of tab "Dept Non-Payroll Forecast" |
| 3562 | IT | \$15,838,913 | Refer to UG 435 OPUC DR 202 Attachment 2 for support. |
| 3984 | Insurance | \$580,856 | Tab "Insurance", row 29 column P (monthly amount) less excel row |
| | | | 3983 columns AV thru BG on tab "Dept Non-Payroll Forecast" |
| 4243 | Rate Case | -\$99,961 | Tab "Rate Case Expense", row 46 column F |
| | Expense | | |

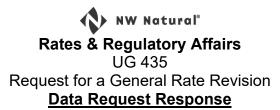


44. Reference NW Natural's response to Staff Data Request 143, Attachment 1, "O&M TY FERC Allocation Summary", Cell "S124": Please explain why the LTIP increased from \$91,060 in Tab "O&M BY FERC Allocation Summ" Cell "AH124" to \$2,554,429 in the referenced cell.

Response:

The tab "O&M BY FERC Allocation Summ" is organized such that excel columns D-Q reflect the nine months actual results and excel columns R-AH reflect the three month forecasted results with excel column AJ reflecting the annual total by FERC account. As such, the LTIP amount included in the base year is \$1,002,438 from excel column Q plus \$91,060 from excel column AH for a total amount of \$1,093,498.

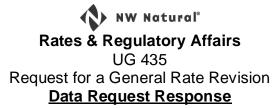
The increase in LTIP from the base year amount to the test year amount is due to the number of shares planned to be awarded and the share price assumed.



45. Reference NW Natural's response to Staff Data Request 143, Attachment 1, "O&M TY FERC Allocation Summary", Cell "R129": Please provide an explanation and supporting workpapers for the \$2,030,585 in Stock Expense in the referenced cell.

Response:

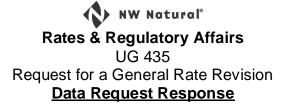
Stock expense represents the cost of the Employee Stock Purchase Program (ESPP) and Restricted Stock Units (RSUs) offered to NW Natural employees. Please refer to UG 435 AWEC DR 45 Attachment 1 for supporting workpapers.



65. Reference Northwest Natural's response to AWEC Data Request 20, Attachment 1 in Docket UG 388: Please provide the equivalent workpapers providing project level detail for the additions in Exhibit NW Natural/1312 in this docket.

Response:

Project level detail for additions can be found in UG 435 AWEC DR 65 Attachment 1.



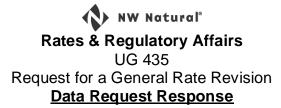
80. Reference NW Natural's response to Staff Data Request 163: Please provide a consolidated file with all the actual non-labor transaction data for 2021.

Response:

The Company's response to UG 435 OPUC DR 163 included Q4 2021 only and it did include all of O&M instead of just the non-labor O&M. In response to this particular data request, please refer to **UG 435 AWEC DR 80 Attachment 1** for a consolidated file with all 2021 non-labor transaction data.

TSA Directive O&M Deferral Summary of Deferral Costs and Carry Cost

| | | | | | | | Total 2021 | 2 | 022 | Total 2021 | Grand Total |
|---------------------------------------|----------|------------|--------------|--------------|--------------|--------------|-------------------|------------|--------------|-------------------|---------------|
| | 7 | 8 | 9 | 10 | 11 | 12 | | 1 | 2 | | |
| Capital - in CWIP | 8,093.57 | 132,519.87 | 1,087,614.66 | 3,823,265.33 | 2,969,908.11 | 4,925,498.71 | 12,946,900.25 | 138,526.57 | 3,174,867.40 | 3,313,393.97 | 16,260,294.22 |
| Operating Expense | | 12,200.58 | 57,228.45 | 54,803.72 | 56,789.73 | 6,029.12 | 187,051.60 | 12,749.43 | 11,345.16 | 24,094.59 | 211,146.19 |
| OR Deferral | | | 27,056.50 | 177,692.94 | 100,897.42 | 628,924.52 | 934,571.38 | 346,849.25 | 149,164.93 | 496,014.18 | 1,430,585.56 |
| OR Carry Cost | | | 72.52 | 667.14 | 1,485.51 | 3,612.13 | 5,837.29 | 6,464.87 | 7,941.87 | 14,406.75 | 20,244.04 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | 8,093.57 | 144,720.45 | 1,171,972.13 | 4,056,429.13 | 3,129,080.77 | 5,564,064.48 | 14,074,360.52 | 504,590.12 | 3,343,319.36 | 3,847,909.49 | 17,922,270.01 |
| Total OR Deferral with Carrying Costs | - | - | 27,129.02 | 178,360.08 | 102,382.93 | 632,536.65 | 940,408.67 | 353,314.12 | 157,106.80 | 510,420.93 | 1,450,829.60 |



87. Reference NW Natural/700: Please provide monthly detail of all deferred amounts associated with TSA Security Directive 2, including separate detail for any operating expenses, capital costs, and carrying charges. Please provide transaction-level detail supporting the operating expense amounts and FERC account detail for any capital costs.

Response:

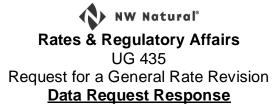
Please refer to UG 435 AWEC DR 87 Attachment 1 for a summary of all deferral amounts and costs associated with TSA Security Directive 2, and UG 435 AWEC DR 87 Attachment 2 for detail of carrying costs. Currently there are no capital costs in FERC accounts as all costs are in CWIP. When these capital costs are placed in service, they will go to a separate capital deferral account. We have included the CWIP balance as a reference of what will eventually be capitalized and deferred.

December 2020 Hood River & White River area incident **SAP Work Order #3636293**

| | Total | Donation | Leave | | 5,710 4,241 | 1,46 |
|--|--------------------------|------------|----------------------|-------------------|-------------------|------------------|
| | Charged to of March 2021 | charged to | Expense | Amount to Defer | 74% OR | 26% WA |
| Mutual Assistance | | | | | | |
| Mutual Aid Assistance | 332,977.15 | 4,500 | | 328,477 | 243,971 | 84,50 |
| <u>Overtime</u> | | | | | | |
| Total Overtime Pay | 72,614.39 | | - | 72,614 | 53,933 | 18,68 |
| Total Doubletime Pay | 224,506.64 | - | | 224,507 | 166,748 | 57,75 |
| Travel Related Costs | | | | | | |
| Meals related to travel to response | 9,837.48 | - | | 9,837 | 7,307 | 2,53 |
| Meals related to travel to response | 15,168.00 | - | | 15,168 | 11,266 | 3,90 |
| Total incremental mileage to travel to response | 1,447.91 | - | | 1,448 | 1,075 | 37 |
| Hotels to travel to response and customer hotels | 113,026.79 | 48,810 | | 64,216 | 47,696 | 16,52 |
| <u>Other</u> | | | | | | |
| Wages | 74,769.31 | | 74,769 | - | - | - |
| Wages | 25,762.61 | | 25,763 | - | - | - |
| Total incremental other contract work | 19,237.08 | - | | 19,237 | 14,288 | 4,94 |
| Heaters/Blankets | 88,973.56 | 88,974 | | - | - | - |
| Repair equipment | 4,878.45 | - | | 4,878 | 3,623 | 1,25 |
| Customer supplies | 16,833.43 | 16,833 | | - | - | - |
| Fuel to travel to response | 26.84 | - | | 27 | 20 | |
| Repair materials | 3,370.34 | - | | 3,370 | 2,503 | 80 |
| Refreshments | 51.59 | | 52 | - | - | - |
| Meals related to travel to response | 2,769.50 | - | | 2,770 | 2,057 | 71 |
| Uncoded Pcard charges - Various | (0.00) | (0) | | - | - | - |
| Materials - agrregats | 1,052.16 | | | 1,052 | 781 | 27 |
| Transportation | 145.00 | | | 145 | 108 | 3 |
| Flagging | 16,720.91 | | | 16,721 | 12,419 | 4,30 |
| Rents and Leases | 360.00 | | | 360 | 267 | <u>(</u> |
| Tools and Equipment | 2,259.55 | | | 2,260 | 1,678 | 58 |
| Office Supplies | 11.98 | | 12 | - | - | - |
| Parking | 5.00 | | 5 | - | - | - |
| Employee Awards | 86.67 | | 87 | - | - | _ |
| Non-Employee gifts | 30.00 | | 30 | - | - | - |
| Business Travel | 1,419.83 | 1,420 | | - | - | _ |
| Professional Service | 529.02 | , - | | 529 | 393 | 13 |
| Backhoe | 3,655.77 | | | 3,656 | 2,715 | 94 |
| Total costs | 1,032,527 | 160,537 | 100,717 | 771,273 | 572,849 | 198,42 |
| 3300 3300 | -,, | | , | | GL 186446 | GL 18644 |
| Total Deferral | 771,273 | | | | 02 100 110 | 000 |
| O&M Costs | 100,717 | | Costs deferre | System | OR | |
| O&M shareholder donations | 160,537 | | Mutual Assista | • | 243,971 | |
| agreed to SAP order | 1,032,527 | | Overtime | 297,121 | 220,681 | |
| agreed to SAF order = | 1,032,327 | | | | | |
| | | | Travel related | 90,670 | 67,343 | |
| | | | Other Total Deferral | 55,005 771,273 | 40,854 572,849 | |

Costs incurred but not deferred

Employee 100,717 Hotel, 160,537 Blankets, and Not deferred 261,254 1,032,527 Total



88. Reference NW Natural/1000: Please provide monthly detail of all deferred amounts associated with the Williams pipeline outage, including separate detail for any operating expenses, capital costs, and carrying charges. Please provide transaction-level detail supporting the operating expense amounts, and FERC account detail for any capital costs.

Response:

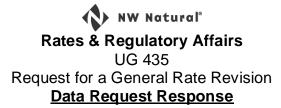
Please see **UG 435 AWEC DR 88 Attachment 1** for the monthly deferred amounts associated with the Williams pipeline outage including the transaction detail for all associated operating expenses. Only associated operating expenses have been deferred.

Horizon O&M Deferral Summary of Deferral Cost and Carry Cost

| | 2021 | | | | | | | | |
|---------------|-----------|-----------|------------|------------|------------|------------|------------|------------|--------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| OR Deferral | 77,057.37 | 25,025.95 | 170,160.10 | 433,067.78 | 492,925.13 | 853,240.25 | 588,790.52 | 714,885.50 | 1,537,131.95 |
| OR Carry Cost | 223.63 | 521.18 | 1,090.65 | 2,847.60 | 5,551.43 | 9,490.34 | 13,730.32 | 17,593.39 | 24,231.04 |
| | 77,281.00 | 25,547.13 | 171,250.75 | 435,915.38 | 498,476.56 | 862,730.59 | 602,520.83 | 732,478.89 | 1,561,362.99 |

Horizon O&M Deferral Summary of Deferral Cost and Carry Cost

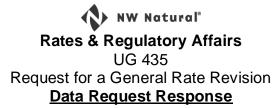
| | | | | | Total 2021 2022 | | | Grand Total |
|---------------|------------|-------------|------------|--------------|-----------------|------------|------------|--------------------|
| | 10 | 11 | 12 | | 1 | 2 | | |
| OR Deferral | 789,708.79 | (65,192.27) | 161,433.87 | 5,778,234.94 | 34,922.34 | 286,092.45 | 321,014.79 | 6,099,249.74 |
| OR Carry Cost | 31,124.37 | 33,407.63 | 33,880.83 | 173,692.41 | 34,647.33 | 35,780.04 | 70,427.36 | 244,119.77 |
| - | | | | | | | | |
| | | | | | | | | |
| | 820,833.16 | (31,784.64) | 195,314.71 | 5,951,927.36 | 69,569.66 | 321,872.49 | 391,442.16 | 6,343,369.51 |



89. Reference NW Natural/1300 at 31:16-32:19: Please provide monthly detail of all deferred amounts associated with the Horizon O&M Deferral, including separate detail for any operating expenses, capital costs, and carrying charges. Please provide transaction-level detail supporting the operating expense amounts, and FERC account detail for any capital costs.

Response:

Please refer to UG 435 AWEC DR 89 Attachment 1 for the detail of all deferral amounts associated with Horizon O&M, and UG 435 AWEC DR 89 Attachment 2 for detail of carrying costs. The deferral balance includes only O&M and associated carrying costs as we are not deferring any capital costs.



107. Reference NW Natural's response to AWEC Data Request 65, Attachment 1: Please provide actual transfers to plant for each project identified in the referenced response through the latest month available. This is an ongoing request. Please provide updated transfers to plant each month as new accounting data becomes available.

Response:

Refer to Confidential UG 435 AWEC DR 107 Attachment 1 for the summary of capital expenditures by FERC account and project related to AWEC Data Request 65, Attachment 1. Within our current accounting system, SAP, there is a limitation on how information can be extracted. We do not have the ability to query capital additions by project number. NW Natural is currently implementing an upgrade to our SAP system and new implementation of PowerPlan and we anticipate being able to have greater flexibility in reporting in the future. The new system is set to go live in Q3 2022.

In Confidential UG 435 AWEC DR 107 Attachment 1, we have queried by FERC account for all additions by asset number for the period 10/1/2021-02/28/2022. We have manually added the project number or work order (WO) to all assets greater than \$20,000. For those assets that have a WO associated, these coincide with the 'Blanket Project by Applicant' line items within the UG 435 AWEC DR 65 Attachment 1 document.



Request for a General Rate Revision

Data Request Response

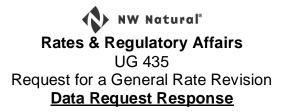
Request No.: UG 435 OPUC DR 202

Please provide all work papers and data underlying the specific non CPI cost adjustments listed on Davilla, 1200/10-14, specifically,

- a. 250 Taylor Lease Expense
- b. Tenant Improvement Amortization
- c. Covid-19 Normalization
- d. Advertising Adjustment
- e. Contracted Customer Payment Processing Fees
- f. Contracted Locating Services
- g. Contracted Survey Services
- h. Information Technology and Services
- i. Insurance

Response:

- a. See UG 435 OPUC DR 202 Attachment 1
- b. See UG 435 OPUC DR 202 Attachment 1
- c. See UG 435 OPUC DR 143 Attachment 1, excel tab 'COVID'
- d. See UG 435 OPUC DR 143 Attachment 1, excel tab 'Advertising'
- e. See UG 435 OPUC DR 143 Attachment 1, excel tab 'Paymentus'
- f. See UG 435 OPUC DR 143 Attachment 1, excel tab 'LocateSurvey'
- g. See UG 435 OPUC DR 143 Attachment 1, excel tabs 'LocateSurvey' & 'HOS survey work'
- h. See UG 435 OPUC DR 202 Attachment 2
- i. See UG 435 OPUC DR 143 Attachment 1, excel tab 'Insurance'



474. Regarding NW Natural's February 28, 2022, Errata filing, please provide corrected Excel workpapers for each workpaper pertaining to exhibits NW Natural/1400 – 1404 having one or more changed values associated with changes in the errata filing. Please use file names for files included in the response that indicate the file's association with the errata filing.

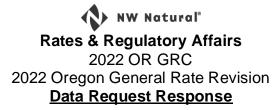
Response:

Refer to the following files for corrected workpapers pertaining the exhibits cited in this request.

Exhibit NW Natural/1401: UG 435 OPUC DR 474 Attachment 1. This workpaper derives a new Parity Ratio at Present Rates ("Parity Ratio") for every rate schedule based on the post-Errata revenue requirement of \$78.0 million.

Exhibit NW Natural/1402: UG 435 OPUC DR 474 Attachment 2. Please note that the rate spread methodology presented in this workpaper is based on the originally proposed revenue requirement of \$73.5 million; NW Natural notes that while its revenue requirement in this case has been corrected, the Company understands that the base rates finally adopted by the Commission in this proceeding will not exceed the revenue requirement amount reflected in its initial filing. The new Parity Ratios derived in Attachment 1 do not result in an adjustment to the overall rate design or the caps and floors that apply to Steps 1 through 3 of the methodology presented in Attachment 2. The Parity Ratios do, however, result in a small change in the filed adjusted floor of 0.4387 to 0.4384 which minimally impacts how rates are spread in Steps 4 and 5 of the methodology.

Exhibits NW Natural/1403 and Exhibit NW Natural/1404: UG 435 OPUC DR 474 Attachment 3. Please note that the rates derived in this workpaper are similarly based on the originally proposed revenue requirement of \$73.5 million. NW Natural again notes that while its revenue requirement in this case has been corrected, the Company understands that the base rates finally adopted by the Commission in this proceeding will not exceed the revenue requirement amount reflected in its initial filing.



Request No.: 2022 OR GRC OPUC SDR 74

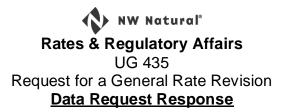
Regarding Director's and Officer Liability Insurance, please fill in the table below:

| Insurance | Base Yr -2 Yrs | Base Yr -1 Yr | Base Year | Test Year |
|--|----------------|---------------|-----------|-----------|
| D & O Liability Premium | | | | |
| D & O Liability Deductible | | | | |
| First Excess D & O Liability | | | | |
| First Excess D & O Deductible | | | | |
| Second Excess | | | | |
| D & O Liability | | | | |
| Second Excess | | | | |
| D & O Deductible | | | | |
| Total Premium (primary, first excess & secondary excess) | | | | |

Response:

Please See CONFIDENTIAL UG 435 SDR 74 Attachment 1.

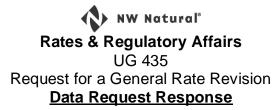




143. Please provide the underlying data for the Utility Employee Base Pay (Wages and Salaries) (Oregon Allocated FTEs) Table 1 cited in NW Natural/800/Rogers page 5. Please provide all data in electronic workbook format with all cell formulae and references intact.

Response:

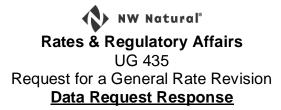
See UG 435 OPUC DR 143 Attachment 1, excel tab SDR 92 Summary, excel cells U14:U17 for the data that matches Table 1. UG 435 OPUC DR 143 Attachment 1 can be used to trace back to the underlying data.



150. Please provide copies of all vendor invoices and documentation explaining the types of services provided to each board member by the Allison Inn & Spa LLC.

Response:

Please see UG 435 OPUC DR 150 Attachments 1 and 2 for the related accounts payable voucher documents. Please see the Company's response to UG 435 OPUC DR 151 for additional information that is responsive to this request.



151. Please provide a narrative explanation on why NW Natural held a board member retreat at the Allison Inn & Spa LLC., during the COVID-19 pandemic.

Response:

Board of Directors annual off-site planning retreat - Each year the Board of Directors holds an annual off-site strategic planning retreat in September, consisting of meetings of the Board of Directors and its committees, as well as strategic planning sessions. The foregoing charges are associated with the annual retreat planned for September 2021 and is a fee paid to reserve the spaces necessary for the retreat to occur. Reservations were originally made in 2020 and rolled forward to 2021 in light of the pandemic. As the Delta variant surge was occurring at that time and it was determined to be unsafe to gather the Board and senior leadership in one location, the 2021 Board retreat was converted to a virtual format and the deposit with the Allison Inn was rolled forward to 2022 so that the deposit would not be lost.

It is common practice for Board and management teams to go off-site for a board retreat to discuss company strategy in detail. Holding the annual strategic retreat offsite provides several benefits to the functioning of the Board, and a well-functioning Board of Directors is necessary and beneficial to the health of the overall company, and therefore the customers. Offsite meetings eliminate the distractions of the office setting and promote engagement. Holding the meeting offsite over the course of several days can build relationships among the members of the Board, as well as among the Board and the officer team, enhancing understanding and business functioning. A change in setting can also give Board members and officers a change in perspective, both with respect to each other's strengths and weaknesses and about the issues faced by the Company. Offsite venues, including dinners, enable Board members and employees to build team relationships and relate to one another in different ways, which can generate and develop meaningful, creative strategies and approaches for the business. This is especially important when trying to develop new strategies or make strategic decisions for an organization such as a public company.

AWEC/103 Mullins/25 UG 435 OPUC DR 151 NWN Response Page 2 of 2

The Allison Inn is located relatively close to the Company's headquarters in the Willamette Valley and therefore provides a good venue to be removed enough from the Company's headquarters, and yet proximate enough to both be efficient and cost-effective for travel by management and Board members as well as reminding Board members and management of the local communities the Company serves.

PUBLIC UTILITY COMMISSION OF OREGON

UG 435

| In the Matter of |) |
|---|---|
| NORTHWEST NATURAL GAS CORPORATION, dba NW NATURAL, |) |
| Request for a General Rate Revision. |) |

AWEC/104

CONFIDENTIAL Capital Forecast Analysis

OPENING TESTIMONY OF BRADLEY G. MULLINS ON BEHALF OF

ALLIANCE OF WESTERN ENERGY CONSUMERS

PUBLIC UTILITY COMMISSION OF OREGON

UG 435

| In the Matter of |) |
|---|---|
| NORTHWEST NATURAL GAS CORPORATION, dba NW NATURAL, |) |
| Request for a General Rate Revision. |) |

AWEC/105

Non-Labor O&M Analysis

OPENING TESTIMONY OF BRADLEY G. MULLINS ON BEHALF OF ALLIANCE OF WESTERN ENERGY CONSUMERS

| | | 2021 Actual | Error | Factor | Error |
|--|---------------------------|--------------------|--------------------|----------------|--------------------|
| Natural Gas Storage | | | | | |
| Underground Storage Expense | | | | | |
| Operation | | | | | |
| 816 Wells Expense | 485,740 | 552,571 | 66,831 | 89.0% | 59,446 |
| 818 Compressor Station Expense | 176,256 | 185,608 | 9,352 | 89.0% | 8,319 |
| 819 Compressor Station Fuel | 0 | 0 | (0) | 89.0% | (0) |
| Measuring and Regulator Station ExpensePurification Expense | 694,435 (4,256) | 886,567 | 192,132 4,256 | 89.0% 89.0% | 171,012 3,785 |
| Maintenance | | | | | |
| 832 Wells Expense | 5,561 | 5,424 | (137) | 89.0% | (122) |
| 834 Compressor Expense | 1,546,567 | 1,545,721 | (846) | 89.0% | (752) |
| Total Underground Storage Expense | 2,904,303 | 3,175,891 | 271,588 | · | 241,688 |
| Other Storage Expense | | | | | |
| Operation | | | | | |
| 840 Supervision and Engineering | 379 | 1,724 | 1,345 | 88.9% | 1,196 |
| Total Other Storage Expense | 379 | 1,724 | 1,345 | | 1,196 |
| Liquified Natural Gas Expense | | | | | |
| Operation 844 Supervision and Engineering | 602,287 | 645,738 | 43,450 | 89.0% | 38,649 |
| 845 LNG Fuel | (101,689) | (82,030) | 19,659 | 89.0% | 17,487 |
| Maintenance | | | | | |
| Maintenance | 202 120 | 407 100 | 114.070 | 90.00/ | 102.266 |
| 847 Supervision and Engineering Total Liquified Natural Gas Expense | <u>292,130</u> 792,728 | 407,100 970,807 | 114,970 178,080 | 89.0% | 102,266 158,402 |
| Total Natural Gas Storage | 3,697,410 | 4,148,422 | 451,012 | | 401,286 |
| Ü | 2,057,110 | 1,1 10,122 | 101,012 | | 101,200 |
| Transmission Expense Operation | | | | | |
| 856 Mains Expense | 2,467,183 | 1,970,509 | (496,674) | 93.9% | (466,412) |
| Maintenance | | | | | |
| 863 Maintenance of Mains | 4,544 | 4,129 | (415) | 88.9% | (369) |
| Total Transmission Expense | 2,471,727 | 1,974,637 | (497,089) | | (466,781) |
| Distribution Expense | | | | | |
| Operation | | | | | |
| 870 Supervision and Engineering | 379,860 | 417,694 | 37,834 | 91.5% | 34,627 |
| 874 Mains and Services Expense | 9,694,359 | 9,161,541 | (532,819) | 90.4% | (481,662) |
| 875 Measuring and Regulator Station Expense - G | | 135,530 | (11,061) | 90.0% | (9,953) |
| 877 Measuring and Regulator Station Expense - C | | 278,071 | (54,310) | 91.1% | (49,465) |
| 878 Meter and House Regulator Expense | 618,682 | 791,771 | 173,090 | 88.3% | 152,816 |
| 879 Customer Installation Expense | 1,978,250 | 1,817,091 | (161,159) | 88.4% | (142,505) |
| 880 Other Expense | 57,042 | 75,033 | 17,991 | 90.0% | 16,185 |
| 881 Rents | 235,589 | 212,959 | (22,630) | 86.9% | (19,673) |
| Maintenance | | | | | |
| 885 Supervision and Engineering | 400,531 | 260,096 | (140,435) | 93.7% | (131,626) |
| 887 Mains | 788,956 | 829,450 | 40,494 | 97.1% | 39,325 |
| 889 Measuring and Regulator Station Expense - G | | 467,893 | 6,803 | 90.8% | 6,178 |
| 891 Measuring and Regulator Station Expense - C | | 71,336 | 26,580 | 92.8% | 24,659 |
| 892 Services | 247,179 | 323,611 | 76,432 | 89.3% | 68,220 |
| | 857,937 | 757,351 | (100,586) | 89.3% | (89,785) |
| 893 Meters and House Regulators | | | \ J = O O J | | (,,) |
| 893 Meters and House Regulators894 Other Equipment | 31,835 | 34,793 | 2,958 | 95.3% | 2,820 |

| | - | NW Natural 2021 Forecast | 2021 Actual | Forecast Error | Alloc. Factor | Oregon-Allc. Error |
|----------------|---|-----------------------------|-------------|-------------------|------------------|-----------------------|
| Customer Acco | unts Expense | | | | | |
| Operation | _ | | | | | |
| 901 Super | rvision | 13,814 | 18,761 | 4,947 | 88.2% | 4,365 |
| 902 Meter | r Reading Expenses | 78,888 | 79,576 | 688 | 88.3% | 608 |
| 903 Custo | omer Records and Collection Expense | 8,051,378 | 7,836,739 | (214,640) | 88.4% | (189,665) |
| 904 Unco | llectible Accounts | - | - | - | 88.3% | - |
| Total | Customer Accounts Expense | 8,130,266 | 7,916,315 | (213,951) | | (189,058) |
| Customer Servi | ice and Informational | | | | | |
| Operation | | | | | | |
| 907 Super | rvision | - | - | - | 0.0% | - |
| 908 Custo | omer Assistance Expense | 647,765 | 495,213 | (152,552) | 87.8% | (134,012) |
| 909 Custo | omer Information Expense | 2,697,937 | 2,190,145 | (507,792) | 88.3% | (448,127) |
| 910 Misco | ellaneous Customer Service Expense | 41,817 | 8,682 | (33,135) | 88.1% | (29,203) |
| Total | Customer Service and Informational | 3,387,519 | 2,694,039 | (693,480) | | (611,342) |
| Sales Expense | | | | | | |
| Operation | | | | | | |
| 911 Super | rvision | 247 | 308 | 61 | 88.3% | 54 |
| 912 Demo | onstration and Selling Expense | 1,002,154 | 892,028 | (110,126) | 88.4% | (97,314) |
| 913 Adve | rtising | 439,722 | 558,424 | 118,702 | 88.2% | 104,754 |
| 916 Misce | ellaneous Sales Expense | - | (0) | (0) | 0.0% | - |
| Total | Sales Expense | 1,442,122 | 1,450,759 | 8,637 | | 7,494 |
| Administrative | and General Expense | | | | | |
| Operation | | | | | | |
| 921 Offic | e Supplies and Expense | 29,004,287 | 27,757,175 | (1,247,112) | 88.3% | (1,101,084) |
| | inistrative Expenses Transferred - Credit | - | - | - | 88.7% | - |
| • | erty Insurance Premium | 4,176,078 | 4,184,813 | 8,735 | 88.9% | 7,766 |
| • | es and Damages | 37,312 | 37,041 | (271) | 88.9% | (241) |
| _ | oyee Pensions and Benefits | 649,149 | 635,543 | (13,606) | 93.0% | (12,648) |
| • | latory Commission Expense | - | - | - | 0.0% | - |
| | ellaneous General Expense | 4,369,100 | 4,688,539 | 319,439 | 88.8% | 283,604 |
| 931 Rents | 3 | 9,597,213 | 9,236,783 | (360,430) | 89.0% | (320,639) |
| Maintenan | | | | | | |
| 935 Main | tenance of General Plant | 3,036,884 | 2,951,334 | (85,550) | 89.5% | (76,542) |
| Total | Administrative and General Expense | 50,870,024 | 49,491,229 | (1,378,795) | | (1,219,785) |
| Total Non-La | bor Operations and Maintenance Expe | 86,287,923 | 83,328,384 | (2,959,539) | | (2,653,658) |
| | | - | - | (0) | | |

PUBLIC UTILITY COMMISSION OF OREGON

UG 435

| In the Matter of |) |
|---|---|
| NORTHWEST NATURAL GAS CORPORATION, dba NW NATURAL, |) |
| Request for a General Rate Revision. |) |

AWEC/106

Schedule 197 – Pension Balancing Account Revenue Analysis

OPENING TESTIMONY OF BRADLEY G. MULLINS ON BEHALF OF ALLIANCE OF WESTERN ENERGY CONSUMERS

| Rate Schedule | Block | Rate Case Volumes | Sch. 197 Rate | Sch. 197 Rate Case. Rev. |
|-------------------|--------------------|--------------------------|------------------------|-----------------------------|
| 2 R | | 405,331,797 | 0.0128700 | 5,216,620 |
| 3 CFS | | 169,645,064 | 0.0090300 | 1,531,895 |
| 3 IFS | | 5,085,467 | 0.0077000 | 39,158 |
| 27 | D11. 1 | 791,922 | 0.0098600 | 7,808 |
| 31C Firm Sales | Block 1 | 11,937,946 | 0.0071900 | 85,834 |
| 31C Firm Transpt | Block 2 Block 1 | 9,663,405 1,197,319 | 0.0065700 | 63,489 |
| 31C Firm Transpt | Block 1 | 1,398,405 | 0.0072200 0.0066000 | 8,645 9,229 |
| 311 Firm Sales | Block 1 | 3,902,829 | 0.0050500 | 19,709 |
| 311 Tilli Sales | Block 2 | 8,292,255 | 0.0045700 | 37,896 |
| 31I Firm Transpt | Block 1 | 135,565 | 0.0057400 | 778 |
| 3111 mm Transpt | Block 2 | 370,003 | 0.0051900 | 1,920 |
| 32C Firm Sales | Block 1 | 34,405,848 | 0.0042400 | 145,881 |
| | Block 2 | 8,996,941 | 0.0036000 | 32,389 |
| | Block 3 | 1,505,090 | 0.0025400 | 3,823 |
| | Block 4 | 421,439 | 0.0014800 | 624 |
| | Block 5 | - | 0.0007300 | - |
| | Block 6 | _ | | _ |
| 32I Firm Sales | Block 1 | 6,124,832 | 0.0030700 | 18,803 |
| | Block 2 | 5,730,496 | 0.0026100 | 14,957 |
| | Block 3 | 1,686,931 | 0.0018400 | 3,104 |
| | Block 4 | 347,849 | 0.0010800 | 376 |
| | Block 5 | - - | 0.0005500 | - |
| | Block 6 | - | | - |
| 32C Firm Transpt | Block 1 | 2,540,213 | 0.0030200 | 7,671 |
| _ | Block 2 | 2,049,162 | 0.0025600 | 5,246 |
| | Block 3 | 949,358 | 0.0018100 | 1,718 |
| | Block 4 | 949,827 | 0.0010600 | 1,007 |
| | Block 5 | 17,547 | 0.0006000 | 11 |
| | Block 6 | <u>-</u> | | - |
| 32I Firm Transpt | Block 1 | 9,361,047 | 0.0030200 | 28,270 |
| | Block 2 | 13,921,392 | 0.0025600 | 35,639 |
| | Block 3 | 9,497,411 | 0.0018100 | 17,190 |
| | Block 4 | 21,833,039 | 0.0010600 | 23,143 |
| | Block 5 | 19,320,860 | 0.0006000 | 11,593 |
| | Block 6 | 8,213,069 | 0.0003000 | 2,464 |
| 32C Interr Sales | Block 1 | 4,230,356 | 0.0028500 | 12,057 |
| | Block 2 | 5,471,563 | 0.0024300 | 13,296 |
| | Block 3 | 3,207,435 | 0.0017100 | 5,485 |
| | Block 4 | 7,046,824 | 0.0010000 | 7,047 |
| | Block 5 | 5,054,642 | 0.0005700 | 2,881 |
| | Block 6 | | | - |
| 32I Interr Sales | Block 1 | 5,956,730 | 0.0028500 | 16,977 |
| | Block 2 | 8,077,570 | 0.0024200 | 19,548 |
| | Block 3 | 4,456,220 | 0.0017100 | 7,620 |
| | Block 4 | 10,249,052 | 0.0010000 | 10,249 |
| | Block 5 | 7,342,584 | 0.0005700 | 4,185 |
| 22CI / T | Block 6 | - 007 (01 | 0.0025000 | 2 400 |
| 32C Inter Transpt | Block 1 | 995,681 | 0.0025000 | 2,489 |
| | Block 2 | 1,519,237 | 0.0021200 | 3,221 |
| | Block 3 | 877,075 | 0.0015000 | 1,316 |
| | Block 4 | 3,005,603 | 0.0008700 | 2,615 |
| | Block 5 | 462,553 | 0.0005000 | 231 |
| 301 Inter Transmi | Block 1 | 5 656 510 | 0.0025000 | 1 / 1 / 1 |
| 32I Inter Transpt | Block 1 Block 2 | 5,656,512 | 0.0025000 | 14,141 |
| | Block 2 Block 3 | 9,633,242 7,305,771 | 0.0021200 | 20,422 10,959 |
| | Block 4 | 7,305,771 | 0.0015000 0.0008700 | |
| | Block 4 Block 5 | 22,439,448 44,236,972 | 0.0008700 | 19,522 22,118 |
| | Block 6 | 99,230,818 | 0.0003000 | 24,808 |
| | DIOCK 0 | | 0.0002300 | |
| Total | | 1,022,080,218 | | 7,598,076 |
| | | | | 7 100 000 |
| | | | Authorized | 7,100,000 |

| | | Actual Volumes | | Actual Volumes | | Actual Volumes | S . | Actual Volum | es | Actual Vol | umes | Actual Vo | olumes |
|--------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Rate Schedule | Block | Apr 2019 | May 2019 | Jun 2019 | Jul 2019 | Aug 2019 | Sep 2019 | Oct 2019 | Nov 2019 | Dec 2019 | Jan 2020 | Feb 2020 | Mar 2020 |
| 2 R | | 34,814,757 | 20,609,593 | 13,208,269 | 9,824,026 | 7,983,233 | 8,612,264 | 20,727,992 | 37,927,193 | 59,698,423 | 64,647,432 | 53,728,829 | 51,348,162 |
| 3 CFS | | 15,091,522 | 9,604,120 | 6,982,885 | 5,936,033 | 5,120,922 | 5,313,216 | 8,852,424 | 15,503,352 | 24,135,384 | 26,911,238 | 22,486,544 | 21,149,338 |
| 3 IFS | | 437,870 | 333,119 | 248,960 | 251,744 | 240,232 | 332,729 | 603,370 | 732,159 | 566,667 | 550,407 | 554,744 | 518,340 |
| 27 | | 107,074 | 55,872 | 25,800 | 8,714 | 5,710 | 8,254 | 43,728 | 116,148 | 199,733 | 225,667 | 188,093 | 172,472 |
| 31C Firm Sales | Block 1 | 1,315,372 | 1,151,002 | 907,139 | 736,808 | 636,048 | 674,863 | 1,068,854 | 1,271,605 | 1,309,602 | 1,320,521 | 1,316,052 | 1,304,066 |
| 41 G E' E | Block 2 | 977,207 | 412,807 | 165,025 | 113,915 | 80,862 | 71,889 | 294,079 | 943,536 | 1,898,173 | 2,144,650 | 1,679,304 | 1,584,539 |
| 31C Firm Transpt | Block 1 | 129,966 | 103,782 | 82,126 | 69,869 | 69,757 | 93,277 | 115,837 | 118,059 | 117,614 | 118,005 | 116,720 | 115,739 |
| 311 Firm Sales | Block 2 Block 1 | 164,565 | 50,435 359,378 | 29,052 | 24,153 327,553 | 23,105 328,901 | 42,318 | 163,999 | 231,093 372,870 | 300,240 | 279,391 | 271,234 363,508 | 242,412 360,614 |
| 311 Firm Sales | Block 2 | 364,013 692,331 | 582,093 | 338,650 585,714 | 517,655 | 494,036 | 346,474 621,448 | 367,801 855,721 | 933,047 | 375,008 899,733 | 361,055 891,967 | 838,859 | 764,348 |
| 31I Firm Transpt | Block 1 | 10,000 | 10,000 | 9,310 | 7,884 | 7,613 | 9,891 | 10,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 |
| Jiii iiii iianspi | Block 2 | 26,696 | 16,624 | 12,600 | 9,603 | 10,008 | 12,160 | 33,329 | 45,495 | 70,511 | 54,478 | 54,884 | 51,130 |
| 32C Firm Sales | Block 1 | 3,397,466 | 2,630,718 | 2,022,703 | 1,695,438 | 1,476,042 | 1,531,179 | 2,498,887 | 3,375,154 | 3,916,421 | 4,224,408 | 3,981,857 | 3,868,770 |
| | Block 2 | 889,957 | 434,003 | 265,275 | 236,715 | 228,326 | 221,869 | 393,186 | 753,565 | 1,399,204 | 1,623,850 | 1,238,531 | 1,182,923 |
| | Block 3 | 86,019 | 33,549 | 30,566 | 34,204 | 46,800 | 46,386 | 78,466 | 72,821 | 217,866 | 262,082 | 164,013 | 153,533 |
| | Block 4 | 6,381 | - | - | - | - | - | 50,437 | 39,808 | 129,996 | 163,326 | 172,875 | 101,062 |
| | Block 5 | - | - | - | - | - | - | - | 52,653 | - | 10,211 | - | 3,796 |
| | Block 6 | | - | - | - | - | - | - | - | - | - | - | |
| 32I Firm Sales | Block 1 | 470,433 | 452,838 | 436,006 | 450,705 | 477,786 | 477,604 | 526,145 | 513,423 | 492,835 | 522,123 | 519,085 | 506,602 |
| | Block 2 | 438,226 | 416,680 | 388,639 | 430,090 | 443,212 | 440,906 | 518,719 | 526,416 | 552,486 | 550,071 | 532,137 | 517,743 |
| | Block 3 | 124,605 | 131,052 | 135,046 | 170,054 | 198,530 | 178,831 | 184,150 | 182,255 | 156,754 | 231,398 | 182,352 | 176,923 |
| | Block 4 | 26,435 | 69,960 | 37,445 | 54,633 | 181,440 | 154,326 | 78,499 | 63,931 | 23,454 | 105,241 | 28,725 | 33,906 |
| | Block 5 Block 6 | - | - | - | - | 203,092 | 506,589 | - | - | - | - | - | - |
| 32C Firm Transpt | Block 1 | 279,796 | 253,705 | 214,150 | 181,866 | 200,451 | 224,696 | 269,154 | 292,295 | 303,787 | 308,579 | 305,228 | 306,544 |
| 32C I IIII Transpt | Block 2 | 234,544 | 170,786 | 116,796 | 89,751 | 132,337 | 147,740 | 242,637 | 269,593 | 310,722 | 309,127 | 322,056 | 286,525 |
| | Block 3 | 82,075 | 47,331 | 29,915 | 9,090 | 50,642 | 36,663 | 117,650 | 142,639 | 153,891 | 162,630 | 152,614 | 133,818 |
| | Block 4 | 44,042 | 11,195 | 5,373 | - | 24,277 | 8,294 | 50,272 | 104,389 | 153,539 | 173,043 | 163,339 | 159,037 |
| | Block 5 | - | - | - - | - | , - | - - | , - | , - | - | - | - | · - |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 32I Firm Transpt | Block 1 | 1,052,840 | 995,782 | 975,864 | 965,900 | 926,344 | 986,117 | 975,107 | 983,869 | 980,774 | 982,647 | 982,985 | 978,087 |
| | Block 2 | 1,527,904 | 1,400,429 | 1,315,765 | 1,279,302 | 1,233,791 | 1,284,828 | 1,438,844 | 1,463,322 | 1,460,555 | 1,507,665 | 1,480,311 | 1,484,096 |
| | Block 3 | 1,036,886 | 875,224 | 800,974 | 806,324 | 795,000 | 799,103 | 902,345 | 927,640 | 904,435 | 975,808 | 918,909 | 984,682 |
| | Block 4 | 2,081,218 | 1,627,628 | 1,485,860 | 1,459,906 | 1,374,422 | 1,513,562 | 1,835,985 | 1,913,129 | 1,890,146 | 1,917,150 | 1,946,360 | 2,040,465 |
| | Block 5 | 1,827,160 | 1,630,843 | 1,463,565 | 1,461,261 | 1,421,462 | 1,384,875 | 1,814,250 | 1,846,996 | 2,026,617 | 1,995,631 | 1,962,863 | 1,987,062 |
| 2201 4 0 1 | Block 6 | 275,793 | 184,636 | 125,931 | 138,154 | 151,602 | 193,288 | 403,939 | 518,583 | 706,342 | 622,215 | 583,171 | 643,093 |
| 32C Interr Sales | Block 1 Block 2 | 488,062 | 398,026 | 371,863 | 325,520 | 333,737 | 375,696 | 445,209 | 436,237 | 442,359 | 440,807 | 442,981 | 432,301 |
| | Block 2 Block 3 | 670,617 367,269 | 523,832 271,606 | 442,900 167,825 | 389,292 152,807 | 371,205 147,283 | 477,407 166,814 | 659,792 383,620 | 683,747 417,888 | 734,827 484,433 | 709,171 447,541 | 712,473 449,336 | 687,008 433,287 |
| | Block 4 | 398,971 | 230,503 | 155,746 | 155,860 | 150,249 | 194,481 | 414,444 | 532,800 | 690,338 | 648,187 | 612,262 | 625,915 |
| | Block 5 | 370,771 | 250,505 | 133,740 | 155,600 | 150,247 | 174,401 | - | - | 18,053 | 30,436 | 10,139 | 11,433 |
| | Block 6 | - | - | - | _ | - | _ | - | _ | - | - | - | - |
| 32I Interr Sales | Block 1 | 557,536 | 504,078 | 506,357 | 496,457 | 496,321 | 488,802 | 506,539 | 486,320 | 532,936 | 524,925 | 494,202 | 505,619 |
| | Block 2 | 727,096 | 648,887 | 596,937 | 560,174 | 570,187 | 550,236 | 624,515 | 555,806 | 669,591 | 694,973 | 606,671 | 665,336 |
| | Block 3 | 379,130 | 283,777 | 236,740 | 240,871 | 208,967 | 246,126 | 303,110 | 258,795 | 327,988 | 362,337 | 324,634 | 385,116 |
| | Block 4 | 871,335 | 609,028 | 446,184 | 517,519 | 522,743 | 389,810 | 611,313 | 529,099 | 546,984 | 834,576 | 635,115 | 779,130 |
| | Block 5 | 255,322 | 150,004 | 58,814 | 153,701 | 72,106 | 51,538 | 217,708 | 148,590 | 243,507 | 201,019 | 278,856 | 286,128 |
| | Block 6 | | - | - | - | - | - | - | - | - | - | - | - |
| 32C Inter Transpt | Block 1 | 76,137 | 95,975 | 86,100 | 85,970 | 85,970 | 86,100 | 85,977 | 86,146 | 86,056 | 85,998 | 86,294 | 85,973 |
| | Block 2 | 151,148 | 165,641 | 139,256 | 133,628 | 129,974 | 136,366 | 174,671 | 181,911 | 186,336 | 187,892 | 185,977 | 186,918 |
| | Block 3 | 100,000 | 104,133 | 98,403 | 96,216 | 95,461 | 97,520 | 100,747 | 109,760 | 119,222 | 112,118 | 104,795 | 105,738 |
| | Block 4 | 369,910 | 339,006 | 307,710 | 299,534 | 292,874 | 318,131 | 383,119 | 393,311 | 407,608 | 400,411 | 393,866 | 401,378 |
| | Block 5 Block 6 | 292,003 | 236,727 | 201,617 | 186,172 | 176,791 | 217,740 | 331,637 | 389,599 | 484,901 | 461,600 | 429,616 | 441,707 |
| 32I Inter Transpt | Block b | 654,291 | 599,415 | 621,569 | 590,273 | 630,575 | 652,731 | 646,049 | 634,671 | 586,895 | 572,467 | 602,690 | 607,302 |
| 521 mei 1 fanspt | Block 1 Block 2 | 1,123,288 | 1,104,156 | 1,142,302 | 1,102,144 | 1,163,191 | 1,235,974 | 1,282,027 | 1,151,615 | 971,032 | 961,433 | 1,053,294 | 1,102,089 |
| | Block 3 | 791,663 | 837,689 | 730,866 | 804,255 | 810,626 | 837,836 | 960,838 | 798,538 | 662,195 | 694,256 | 751,080 | 738,165 |
| | Block 4 | 1,973,241 | 1,833,689 | 1,673,528 | 1,774,519 | 2,100,612 | 2,143,685 | 2,138,702 | 1,710,522 | 1,705,515 | 1,849,579 | 1,871,438 | 1,942,842 |
| | Block 5 | 4,771,235 | 3,855,226 | 3,610,633 | 3,323,898 | 3,996,708 | 3,674,073 | 4,527,763 | 4,178,484 | 4,062,544 | 4,395,580 | 4,238,139 | 4,450,238 |
| | Block 6 | 7,345,248 | 6,441,463 | 5,893,867 | 6,780,615 | 6,680,461 | 6,441,146 | 7,992,710 | 8,158,865 | 8,603,288 | 9,026,239 | 7,103,474 | 8,457,577 |
| Total | | | | | | | | | | | | | |
| Total | | 90,376,655 | 63,888,044 | 49,934,620 | 45,460,774 | 43,602,022 | 45,057,849 | 68,306,297 | 94,091,739 | 127,929,520 | 137,805,560 | 118,635,513 | 116,503,025 |

| | _ | Actual \ | | | l Volumes | | tual Volumes | | Actual Volumes | | Actual Volumes | | Actual Volu |
|-------------------|---------|--------------|--------------|--------------|--------------|--------------|--------------|------------|----------------|--------------|-----------------------|--------------|-------------|
| Rate Schedule | Block | Apr 2020 | May 2020 | Jun 2020 | Jul 2020 | Aug 2020 | Sep 2020 | Oct 2020 | Nov 2020 | Dec 2020 | Jan 2021 | Feb 2021 | Mar 2021 |
| 2 R | | 40,250,853 | 21,604,521 | 16,270,208 | 11,484,031 | 8,515,055 | 8,877,970 | 12,879,638 | 37,143,218 | 60,411,839 | 62,188,658 | 63,074,830 | 54,861,030 |
| 3 CFS | | 14,954,710 | 7,499,604 | 5,946,795 | 5,029,909 | 4,213,627 | 4,314,019 | 5,502,966 | 13,732,807 | 22,754,083 | 23,856,179 | 24,298,736 | 22,006,442 |
| 3 IFS | | 414,782 | 264,014 | 230,946 | 210,535 | 180,628 | 295,781 | 458,189 | 706,144 | 556,726 | 554,594 | 565,327 | 546,901 |
| 27 | | 126,698 | 54,803 | 32,126 | 13,733 | 4,918 | 4,142 | 13,513 | 72,415 | 135,046 | 131,346 | 129,406 | 116,385 |
| 31C Firm Sales | Block 1 | 1,156,894 | 879,272 | 700,358 | 595,964 | 492,393 | 504,705 | 687,369 | 1,152,434 | 1,256,776 | 1,262,349 | 1,253,286 | 1,264,410 |
| | Block 2 | 936,152 | 241,116 | 110,782 | 69,263 | 47,206 | 42,110 | 95,644 | 755,775 | 1,740,303 | 1,794,587 | 1,755,181 | 1,684,323 |
| 31C Firm Transpt | Block 1 | 111,466 | 101,716 | 85,127 | 68,698 | 65,621 | 73,319 | 111,815 | 117,650 | 117,437 | 117,620 | 117,455 | 117,953 |
| 1 | Block 2 | 109,031 | 51,041 | 24,632 | 14,902 | 17,488 | 17,274 | 70,064 | 201,404 | 255,260 | 235,744 | 238,689 | 213,003 |
| 311 Firm Sales | Block 1 | 351,886 | 331,486 | 313,527 | 311,177 | 302,022 | 316,680 | 332,035 | 356,154 | 353,486 | 357,312 | 353,869 | 354,897 |
| | Block 2 | 686,905 | 505,452 | 451,859 | 503,790 | 434,991 | 543,032 | 688,125 | 690,262 | 874,676 | 873,665 | 866,361 | 818,171 |
| 31I Firm Transpt | Block 1 | 12,000 | 10,000 | 14,000 | 10,616 | 11,499 | 13,153 | 13,522 | 14,000 | 13,358 | 14,000 | 14,000 | 14,000 |
| off fill framspt | Block 2 | 24,585 | 14,553 | 18,614 | 14,524 | 16,931 | 14,600 | 29,186 | 43,612 | 44,624 | 40,076 | 40,865 | 41,117 |
| 32C Firm Sales | Block 1 | 3,154,751 | 2,118,907 | 1,704,813 | 1,398,122 | 1,164,470 | 1,249,711 | 1,618,325 | 2,933,666 | 3,835,229 | 3,864,404 | 3,836,745 | 3,777,300 |
| 32C Filli Sales | | | | | | | | | | | | | |
| | Block 2 | 757,278 | 263,862 | 212,243 | 170,615 | 166,136 | 164,019 | 214,908 | 584,461 | 1,242,236 | 1,366,802 | 1,360,460 | 1,327,918 |
| | Block 3 | 74,836 | 47,481 | 20,000 | 16,688 | 21,421 | 36,855 | 40,034 | 53,707 | 191,902 | 229,002 | 195,542 | 221,319 |
| | Block 4 | 53,800 | 13,482 | 649 | - | - | 3,944 | - | 441 | 61,880 | 27,564 | 61,791 | 116,404 |
| | Block 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 32I Firm Sales | Block 1 | 506,984 | 489,298 | 483,315 | 505,277 | 483,385 | 499,816 | 518,063 | 531,669 | 562,663 | 554,617 | 548,597 | 539,851 |
| | Block 2 | 499,398 | 421,278 | 425,891 | 439,892 | 394,537 | 406,747 | 434,640 | 497,475 | 590,525 | 557,736 | 534,135 | 528,260 |
| | Block 3 | 154,255 | 119,360 | 124,513 | 167,150 | 159,019 | 182,318 | 170,644 | 181,449 | 197,385 | 174,166 | 142,018 | 164,093 |
| | Block 4 | 18,899 | 31,418 | 37,532 | 59,269 | 39,009 | 27,689 | 32,646 | 46,567 | 34,250 | 45,602 | 29,240 | 33,244 |
| | Block 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2C Firm Transpt | Block 1 | 247,490 | 219,702 | 195,173 | 181,821 | 177,469 | 200,456 | 261,759 | 254,478 | 251,807 | 251,646 | 249,882 | 260,553 |
| | Block 2 | 166,230 | 128,073 | 94,062 | 79,604 | 75,354 | 101,770 | 180,938 | 181,192 | 237,307 | 229,123 | 245,348 | 272,821 |
| | Block 3 | 87,600 | 44,902 | 33,040 | 28,834 | 24,599 | 27,189 | 62,572 | 100,514 | 106,242 | 100,663 | 100,308 | 108,387 |
| | | | | | | | | | | | | | • |
| | Block 4 | 49,285 | 11,748 | 12,531 | 17,890 | 13,632 | 10,846 | 70,155 | 133,624 | 112,257 | 130,015 | 156,798 | 153,272 |
| | Block 5 | - | - | - | - | - | - | - | 17,547 | - | - | = | - |
| | Block 6 | - | <u>-</u> | - | - | <u>-</u> | - | <u>-</u> | - | - | - | - | - |
| 2I Firm Transpt | Block 1 | 917,858 | 889,783 | 946,389 | 894,441 | 908,882 | 900,152 | 918,138 | 895,627 | 924,206 | 917,783 | 918,450 | 930,738 |
| | Block 2 | 1,284,030 | 1,200,565 | 1,281,095 | 1,195,407 | 1,182,237 | 1,177,990 | 1,340,997 | 1,357,829 | 1,419,229 | 1,419,870 | 1,379,807 | 1,451,875 |
| | Block 3 | 829,155 | 723,728 | 829,143 | 744,174 | 757,768 | 746,290 | 872,291 | 865,366 | 923,483 | 942,143 | 923,898 | 964,509 |
| | Block 4 | 1,604,314 | 1,493,087 | 1,515,593 | 1,353,316 | 1,376,473 | 1,244,927 | 1,570,840 | 1,775,757 | 1,835,826 | 1,973,303 | 1,904,908 | 2,103,859 |
| | Block 5 | 1,656,263 | 1,540,447 | 1,346,585 | 1,278,055 | 1,156,828 | 1,054,345 | 1,418,222 | 1,614,950 | 1,710,824 | 1,843,886 | 1,786,775 | 1,756,768 |
| | Block 6 | 372,221 | 303,883 | 229,034 | 226,460 | 234,333 | 225,584 | 383,261 | 560,868 | 762,371 | 755,630 | 606,269 | 705,271 |
| 32C Interr Sales | Block 1 | 410,991 | 364,727 | 361,804 | 323,020 | 319,559 | 329,554 | 401,287 | 424,291 | 428,142 | 427,006 | 424,591 | 426,056 |
| | Block 2 | 557,329 | 468,016 | 430,543 | 365,723 | 365,509 | 374,052 | 591,209 | 684,344 | 723,842 | 732,506 | 672,792 | 723,910 |
| | Block 3 | 298,377 | 214,481 | 167,210 | 148,384 | 150,465 | 153,328 | 272,098 | 438,005 | 461,269 | 463,812 | 416,839 | 471,306 |
| | Block 4 | 379,562 | 273,454 | 190,336 | 160,151 | 150,632 | 170,629 | 304,602 | 661,814 | 783,921 | 771,801 | 597,556 | 726,523 |
| | Block 5 | 377,302 | 273,131 | - | 100,131 | - | 170,029 | 301,002 | 318,396 | 387,342 | 360,033 | 296,847 | 333,786 |
| | Block 6 | - - | - | - | - | - | - - | - | 516,590 - | • | - | 290,647 | |
| 32I Interr Sales | Block 1 | 471,722 | 400.530 | 506,454 | 466,652 | 462,793 | 454,102 | | 482,088 | 489,408 | 502,530 | 484,176 | 546,545 |
| 521 IIIIEIT Saies | | | 490,530 | | • | | | 498,198 | • | | | | |
| | Block 2 | 613,296 | 600,910 | 645,052 | 565,171 | 560,661 | 562,903 | 622,132 | 591,761 | 630,252 | 650,975 | 601,189 | 746,983 |
| | Block 3 | 286,992 | 283,058 | 326,075 | 265,290 | 288,888 | 232,430 | 280,309 | 325,884 | 354,975 | 371,489 | 323,621 | 467,931 |
| | Block 4 | 533,128 | 572,818 | 705,493 | 609,166 | 654,924 | 521,524 | 666,002 | 557,727 | 724,337 | 722,435 | 689,964 | 1,251,962 |
| | Block 5 | 58,070 | 45,459 | 323,820 | 163,750 | 193,831 | - | 122,939 | 268,175 | 168,987 | 266,183 | 136,999 | 463,716 |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2C Inter Transpt | Block 1 | 86,100 | 85,970 | 86,100 | 85,263 | 81,424 | 83,096 | 85,970 | 76,100 | 76,000 | 75,970 | 69,160 | 83,170 |
| | Block 2 | 161,895 | 147,481 | 137,909 | 131,503 | 132,699 | 135,672 | 157,234 | 163,166 | 169,263 | 171,884 | 160,964 | 181,128 |
| | Block 3 | 100,000 | 100,000 | 100,000 | 99,898 | 95,023 | 94,371 | 100,000 | 80,000 | 85,240 | 86,019 | 89,744 | 87,645 |
| | Block 4 | 377,085 | 352,297 | 324,040 | 300,738 | 290,986 | 303,271 | 364,139 | 301,591 | 316,840 | 314,283 | 296,616 | 298,332 |
| | Block 5 | 301,272 | 263,936 | 212,930 | 193,644 | 178,455 | 176,751 | 267,646 | 50,779 | 93,178 | 91,701 | 84,905 | 84,567 |
| | Block 6 | - | - | , | | - | - | - | - - | - | - | - | - |
| 2I Inter Transpt | Block 1 | 597,157 | 618,154 | 593,994 | 590,327 | 604,912 | 625,098 | 629,716 | 615,389 | 600,023 | 582,490 | 569,293 | 607,725 |
| rumpt | Block 2 | 1,072,564 | 1,088,744 | 1,095,643 | 1,088,558 | 1,117,805 | 1,117,440 | 1,213,358 | 1,058,970 | 1,042,790 | 990,171 | 922,130 | 1,080,211 |
| | Block 3 | | | | | | | | | | | | 786,845 |
| | | 654,166 | 722,947 | 747,950 | 749,046 | 755,175 | 745,709 | 853,310 | 712,298 | 741,782 | 691,944 | 667,915 | • |
| | Block 4 | 1,551,686 | 1,654,219 | 1,816,817 | 1,867,031 | 1,868,217 | 1,625,202 | 1,973,629 | 1,781,983 | 1,819,818 | 1,805,458 | 1,666,820 | 2,058,159 |
| | Block 5 | 3,459,086 | 3,779,766 | 3,248,338 | 2,984,921 | 3,223,163 | 3,409,915 | 3,882,604 | 3,837,875 | 3,955,102 | 4,095,184 | 3,304,612 | 4,688,280 |
| | Block 6 | 7,685,869 | 6,209,518 | 6,475,622 | 6,907,648 | 7,705,879 | 5,548,578 | 8,922,449 | 8,797,295 | 9,798,282 | 9,672,952 | 8,940,959 | 9,390,178 |
| | | 91,226,954 | 59,955,066 | 52,186,705 | 45,150,041 | 41,838,930 | 39,941,057 | 53,199,329 | 89,800,993 | 127,364,030 | 130,656,911 | 129,106,668 | 122,960,030 |

Schedule 197 Revenue Analys

| Rate Schedule | Block | Apr 2021 | May 2021 | Jun 2021 | Jul 2021 | Aug 2021 | Sep 2021 | Oct 2021 | Nov 2021 | Dec 2021 |
|-------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|
| 2 R | | 39,656,836 | 20,508,408 | 14,920,588 | 8,711,925 | 7,661,382 | 8,809,004 | 18,088,263 | 32,674,377 | 53,821,063 |
| 3 CFS | | 16,482,171 | 8,844,738 | 6,953,189 | 4,892,305 | 4,589,133 | 5,064,114 | 7,731,925 | 12,812,463 | 21,051,328 |
| 3 IFS | | 469,404 | 314,341 | 271,577 | 220,800 | 221,918 | 327,301 | 518,056 | 671,898 | 531,222 |
| 27 | | 86,236 | 33,945 | 17,395 | 4,280 | 774 | 3,795 | 26,909 | 80,471 | 128,673 |
| 31C Firm Sales | Block 1 | 1,223,170 | 1,047,486 | 881,197 | 572,245 | 505,150 | 587,893 | 920,887 | 1,151,436 | 1,247,598 |
| | Block 2 | 1,091,696 | 334,427 | 156,014 | 45,265 | 36,856 | 60,825 | 227,556 | 725,326 | 1,571,463 |
| 31C Firm Transpt | Block 1 | 115,871 | 106,226 | 71,247 | 58,922 | 60,805 | 76,393 | 115,687 | 117,838 | 118,000 |
| | Block 2 | 90,726 | 31,897 | 13,542 | 15,935 | 16,236 | 19,216 | 84,248 | 152,725 | 303,454 |
| 31I Firm Sales | Block 1 | 347,461 | 333,253 | 321,969 | 309,651 | 310,490 | 324,741 | 351,025 | 351,321 | 340,701 |
| A47.71 | Block 2 | 729,976 | 577,664 | 584,277 | 513,381 | 488,253 | 628,483 | 760,548 | 714,527 | 835,205 |
| 31I Firm Transpt | Block 1 | 13,530 | 12,131 | 11,864 | 10,680 | 11,610 | 13,440 | 14,000 | 14,000 | 13,122 |
| 22G E' G 1 | Block 2 | 28,817 | 21,568 | 13,272 | 16,925 | 17,802 | 20,226 | 33,316 | 39,929 | 56,479 |
| 32C Firm Sales | Block 1 | 3,358,247 | 2,503,111 | 2,048,669 | 1,410,233 | 1,297,037 | 1,485,900 | 2,211,542 | 3,048,227 | 3,785,763 |
| | Block 2 | 857,901 | 419,219 | 282,179 | 184,493 | 181,947 | 185,614 | 298,374 | 658,093 | 1,228,224 |
| | Block 3 | 179,542 | 47,751 | 42,801 | 43,675 | 30,671 | 41,292 | 61,072 | 80,583 | 158,164 |
| | Block 4 | 173,352 | (90,256) | - | - | - | - | 24,815 | 9,052 | 22,746 |
| | Block 5 | 306,319 | (306,319) | - | - | - | - | - | - | - |
| 201 Eim G. 1 | Block 6 | 522 222 | 502 927 | 401 0 <i>C</i> 7 | 495 202 | 504.700 | 515 621 | 546 227 | 524.457 | 550 (00 |
| 32I Firm Sales | Block 1 | 533,332 | 503,837 | 481,867 | 485,393 | 504,709 | 515,621 | 546,327 | 534,457 | 559,600 |
| | Block 2 | 472,714 138,705 | 427,554 | 395,355 137,637 | 398,739 | 421,857 | 423,888 | 457,880 | 442,331 | 580,629 |
| | Block 3 Block 4 | 138,705 19,811 | 133,297 18,733 | 137,637 13,626 | 155,810 50,898 | 145,800 48,748 | 185,472 63,643 | 157,008 51,664 | 114,639 8,337 | 147,652 21,113 |
| | Block 4 Block 5 | 19,811 | 10,/33 | 13,020 | 30,898 | 40,/48 | 05,045 | 31,004 | | 21,113 |
| | Block 5 Block 6 | - | - | - - | - - | - - | - - | - | - | - |
| 32C Firm Transpt | Block 1 | 239,857 | 220,885 | 176,881 | 163,636 | 165,749 | 187,186 | 217,311 | 234,485 | 248,845 |
| 32C Film Transpt | Block 2 | 204,103 | 121,413 | 89,040 | 83,257 | 93,203 | 100,948 | 173,800 | 197,522 | 267,901 |
| | Block 3 | 79,785 | 40,000 | 34,033 | 20,000 | 28,769 | 40,000 | 47,926 | 74,194 | 105,218 |
| | Block 4 | 49,891 | 17,313 | 15,930 | 17,403 | 16,127 | 27,800 | 70,903 | 107,112 | 186,673 |
| | Block 5 | - | - | - | - | - | - | - | - | 4,474 |
| | Block 6 | _ | - | _ | - | _ | _ | _ | _ | - |
| 32I Firm Transpt | Block 1 | 929,731 | 926,596 | 924,688 | 912,176 | 919,820 | 933,710 | 942,755 | 943,474 | 933,843 |
| 2211 mm 11mmpr | Block 2 | 1,356,291 | 1,321,398 | 1,235,770 | 1,215,517 | 1,256,789 | 1,281,119 | 1,399,573 | 1,424,791 | 1,498,923 |
| | Block 3 | 856,944 | 821,158 | 800,306 | 775,799 | 809,829 | 797,749 | 842,439 | 891,088 | 973,310 |
| | Block 4 | 1,786,742 | 1,703,965 | 1,484,575 | 1,367,809 | 1,482,099 | 1,500,462 | 1,762,311 | 1,814,144 | 2,070,710 |
| | Block 5 | 1,439,395 | 1,399,670 | 1,119,691 | 1,280,460 | 1,263,907 | 1,440,256 | 1,837,778 | 1,894,398 | 2,211,258 |
| | Block 6 | 484,531 | 452,306 | 325,301 | 316,935 | 315,716 | 317,022 | 475,003 | 531,510 | 904,357 |
| 32C Interr Sales | Block 1 | 412,756 | 399,723 | 333,348 | 335,176 | 338,653 | 367,873 | 408,536 | 436,313 | 431,866 |
| | Block 2 | 615,792 | 540,021 | 405,027 | 359,664 | 392,729 | 439,547 | 608,595 | 678,153 | 740,664 |
| | Block 3 | 333,535 | 245,616 | 162,184 | 166,944 | 169,485 | 179,010 | 348,415 | 417,009 | 534,160 |
| | Block 4 | 430,640 | 352,655 | 237,691 | 229,846 | 236,240 | 256,832 | 434,121 | 535,870 | 903,824 |
| | Block 5 | 250,375 | 237,595 | 167,746 | 157,583 | 152,737 | 169,207 | 261,360 | 288,292 | 453,549 |
| | Block 6 | - | - | = | - | - | - | - | - | = |
| 32I Interr Sales | Block 1 | 486,989 | 464,415 | 480,192 | 457,194 | 444,739 | 465,908 | 484,011 | 507,189 | 518,326 |
| | Block 2 | 624,884 | 580,283 | 625,946 | 574,030 | 557,437 | 577,762 | 624,587 | 646,809 | 695,049 |
| | Block 3 | 330,929 | 302,639 | 309,138 | 316,920 | 261,396 | 308,693 | 315,019 | 382,881 | 478,716 |
| | Block 4 | 912,100 | 739,604 | 861,697 | 719,526 | 665,478 | 612,898 | 756,401 | 1,006,688 | 1,071,547 |
| | Block 5 | 145,970 | 251,569 | 67,330 | 138,557 | 268,706 | (225,818) | 172,747 | 341,790 | 481,660 |
| | Block 6 | - | - | - | - | - | - | - | - | |
| 32C Inter Transpt | Block 1 | 76,100 | 75,970 | 76,100 | 73,547 | 75,832 | 76,100 | 75,970 | 66,100 | 65,970 |
| | Block 2 | 148,406 | 129,497 | 113,954 | 112,582 | 111,337 | 117,595 | 142,645 | 137,844 | 158,346 |
| | Block 3 | 80,000 | 80,000 | 73,458 | 72,226 | 70,500 | 73,546 | 80,000 | 80,000 | 90,817 |
| | Block 4 | 267,903 | 251,648 | 188,472 | 182,910 | 182,795 | 204,757 | 268,130 | 273,892 | 297,922 |
| | Block 5 | 22,150 | 15,050 | - | - | - | - | 16,877 | 35,762 | 125,774 |
| 2011 | Block 6 | - | - | - | - | - | - | - | - 500.560 | - |
| 32I Inter Transpt | Block 1 | 594,853 | 592,553 | 605,831 | 606,019 | 623,094 | 626,420 | 636,589 | 588,562 | 582,088 |
| | Block 2 | 1,075,494 | 1,090,233 | 1,091,108 | 1,116,308 | 1,159,003 | 1,158,212 | 1,169,357 | 1,018,665 | 902,820 |
| | Block 3 | 774,836 | 743,160 | 771,537 | 761,275 | 862,977 | 863,784 | 855,845 | 673,849 | 627,809 |
| | Block 4 | 1,753,651 | 1,720,035 | 1,768,719 | 1,685,050 | 1,857,579 | 1,828,866 | 1,872,691 | 1,531,462 | 1,601,142 |
| | Block 5 | 3,872,020 | 3,921,694 | 3,084,220 | 3,015,124 | 3,460,129 | 3,618,655 | 4,002,106 | 3,732,399 | 4,002,664 |
| | Block 6 | 8,262,980 | 7,443,941 | 6,972,347 | 7,393,012 | 7,673,906 | 7,126,016 | 7,711,579 | 9,197,076 | 9,928,212 |
| Total | | 95,275,448 | 63,025,618 | 52,220,524 | 42,728,038 | 42,467,937 | 44,308,976 | 61,696,481 | 85,091,353 | 120,620,635 |

| _ | | Actual Sch. 197 Revo | | Actual Sch. 197 Rev | | Actual Sch. 197 | | | 197 Revenues | | Sch. 197 Revenues | | ual Sch. 197 |
|-------------------|--------------------|----------------------|-------------|---------------------|--------------|-----------------|--------------|--------------|--------------|--------------|-------------------|------------------|--------------|
| Rate Schedule | Block | Apr 2019 | May 2019 | Jun 2019 | Jul 2019 | Aug 2019 | Sep 2019 | Oct 2019 | Nov 2019 | Dec 2019 | Jan 2020 | Feb 2020 | Mar 2020 |
| 2 R | | 448,066 | 265,245 | 169,990 | 126,435 | 102,744 | 110,840 | 266,769 | 488,123 | 768,319 | 832,012 | 691,490 | 660,8 |
| 3 CFS | | 136,276 | 86,725 | 63,055 | 53,602 | 46,242 | 47,978 | 79,937 | 139,995 | 217,943 | 243,008 | 203,053 | 190,9 |
| 3 IFS | | 3,372 | 2,565 | 1,917 | 1,938 | 1,850 | 2,562 | 4,646 | 5,638 | 4,363 | 4,238 | 4,272 | 3,9 |
| 27 | | 1,056 | 551 | 254 | 86 | 56 | 81 | 431 | 1,145 | 1,969 | 2,225 | 1,855 | 1,7 |
| 31C Firm Sales | Block 1 | 9,458 | 8,276 | 6,522 | 5,298 | 4,573 | 4,852 | 7,685 | 9,143 | 9,416 | 9,495 | 9,462 | 9,3 |
| | Block 2 | 6,420 | 2,712 | 1,084 | 748 | 531 | 472 | 1,932 | 6,199 | 12,471 | 14,090 | 11,033 | 10,4 |
| 31C Firm Transpt | Block 1 | 938 | 749 | 593 | 504 | 504 | 673 | 836 | 852 | 849 | 852 | 843 | 8 |
| 211 E' C.1 | Block 2 | 1,086 | 333 | 192 | 159 | 152 | 279 | 1,082 | 1,525 | 1,982 | 1,844 | 1,790 | 1,6 |
| 31I Firm Sales | Block 1 | 1,838 | 1,815 | 1,710 | 1,654 | 1,661 | 1,750 | 1,857 | 1,883 | 1,894 | 1,823 | 1,836 | 1,8 |
| 311 Firm Transpt | Block 2 Block 1 | 3,164 57 | 2,660 57 | 2,677 | 2,366 45 | 2,258 | 2,840 57 | 3,911 57 | 4,264 | 4,112 69 | 4,076 | 3,834 | 3,4 |
| 311 Film Transpi | Block 1 | 139 | 86 | 65 | 50 | 52 | 63 | 173 | 236 | 366 | 283 | 285 | 2 |
| 32C Firm Sales | Block 1 | 14,405 | 11,154 | 8,576 | 7,189 | 6,258 | 6,492 | 10,595 | 14,311 | 16,606 | 17,911 | 16,883 | 16,4 |
| 320 I IIII Baics | Block 2 | 3,204 | 1,562 | 955 | 852 | 822 | 799 | 1,415 | 2,713 | 5,037 | 5,846 | 4,459 | 4,2 |
| | Block 3 | 218 | 85 | 78 | 87 | 119 | 118 | 199 | 185 | 553 | 666 | 417 | 3 |
| | Block 4 | 9 | - | - | - | - | - | 75 | 59 | 192 | 242 | 256 | 1 |
| | Block 5 | - | - | - | - | - | - | - | 38 | - | 7 | - | |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 32I Firm Sales | Block 1 | 1,444 | 1,390 | 1,339 | 1,384 | 1,467 | 1,466 | 1,615 | 1,576 | 1,513 | 1,603 | 1,594 | 1,5 |
| | Block 2 | 1,144 | 1,088 | 1,014 | 1,123 | 1,157 | 1,151 | 1,354 | 1,374 | 1,442 | 1,436 | 1,389 | 1,3 |
| | Block 3 | 229 | 241 | 248 | 313 | 365 | 329 | 339 | 335 | 288 | 426 | 336 | 3 |
| | Block 4 | 29 | 76 | 40 | 59 | 196 | 167 | 85 | 69 | 25 | 114 | 31 | |
| | Block 5 | - | - | - | - | 112 | 279 | - | - | - | - | - | - |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | |
| 32C Firm Transpt | Block 1 | 845 | 766 | 647 | 549 | 605 | 679 | 813 | 883 | 917 | 932 | 922 | 9 |
| | Block 2 | 600 | 437 | 299 | 230 | 339 | 378 | 621 | 690 | 795 | 791 | 824 | 7 |
| | Block 3 | 149 | 86 | 54 | 16 | 92 | 66 | 213 | 258 | 279 | 294 | 276 | 2 |
| | Block 4 | 47 | 12 | 6 | - | 26 | 9 | 53 | 111 | 163 | 183 | 173 | 10 |
| | Block 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 32I Firm Transpt | Block 1 | 3,180 | 3,007 | 2,947 | 2,917 | 2,798 | 2,978 | 2,945 | 2,971 | 2,962 | 2,968 | 2,969 | 2,9: |
| | Block 2 | 3,911 | 3,585 | 3,368 | 3,275 | 3,159 | 3,289 | 3,683 | 3,746 | 3,739 | 3,860 | 3,790 | 3,7 |
| | Block 3 | 1,877 | 1,584 | 1,450 | 1,459 | 1,439 | 1,446 | 1,633 | 1,679 | 1,637 | 1,766 | 1,663 | 1,7 |
| | Block 4 | 2,206 | 1,725 | 1,575 | 1,548 877 | 1,457 | 1,604 | 1,946 | 2,028 | 2,004 | 2,032 | 2,063 | 2,1 |
| | Block 5 Block 6 | 1,096 83 | 979 55 | 878 38 | 8// 41 | 853 45 | 831 58 | 1,089 121 | 1,108 156 | 1,216 212 | 1,197 187 | 1,178 175 | 1,1 1 |
| 32C Interr Sales | Block 1 | 1,391 | 1,134 | 1,060 | 928 | 951 | 1,071 | 1,269 | 1,243 | 1,261 | 1,256 | 1,262 | 1,2 |
| 32C IIICH Saics | Block 2 | 1,630 | 1,273 | 1,076 | 946 | 902 | 1,160 | 1,603 | 1,662 | 1,786 | 1,723 | 1,731 | 1,6 |
| | Block 3 | 628 | 464 | 287 | 261 | 252 | 285 | 656 | 715 | 828 | 765 | 768 | 7 |
| | Block 4 | 399 | 231 | 156 | 156 | 150 | 194 | 414 | 533 | 690 | 648 | 612 | 6 |
| | Block 5 | - | - | - | - | - | - | - | - | 10 | 17 | 6 | _ |
| | Block 6 | - | - | - | - | - | - | - | - | <u>-</u> | - - | - | - |
| 32I Interr Sales | Block 1 | 1,589 | 1,437 | 1,443 | 1,415 | 1,415 | 1,393 | 1,444 | 1,386 | 1,519 | 1,496 | 1,408 | 1,4 |
| | Block 2 | 1,760 | 1,570 | 1,445 | 1,356 | 1,380 | 1,332 | 1,511 | 1,345 | 1,620 | 1,682 | 1,468 | 1,6 |
| | Block 3 | 648 | 485 | 405 | 412 | 357 | 421 | 518 | 443 | 561 | 620 | 555 | 6 |
| | Block 4 | 871 | 609 | 446 | 518 | 523 | 390 | 611 | 529 | 547 | 835 | 635 | 7 |
| | Block 5 | 146 | 86 | 34 | 88 | 41 | 29 | 124 | 85 | 139 | 115 | 159 | 1 |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | |
| 32C Inter Transpt | Block 1 | 190 | 240 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | 216 | 2 |
| | Block 2 | 320 | 351 | 295 | 283 | 276 | 289 | 370 | 386 | 395 | 398 | 394 | 3 |
| | Block 3 | 150 | 156 | 148 | 144 | 143 | 146 | 151 | 165 | 179 | 168 | 157 | 1 |
| | Block 4 | 322 | 295 | 268 | 261 | 255 | 277 | 333 | 342 | 355 | 348 | 343 | 3 |
| | Block 5 | 146 | 118 | 101 | 93 | 88 | 109 | 166 | 195 | 242 | 231 | 215 | 2 |
| | Block 6 | - | - | | - | - | - | - | - | - | - | - | |
| 32I Inter Transpt | Block 1 | 1,636 | 1,499 | 1,554 | 1,476 | 1,576 | 1,632 | 1,615 | 1,587 | 1,467 | 1,431 | 1,507 | 1,5 |
| | Block 2 | 2,381 | 2,341 | 2,422 | 2,337 | 2,466 | 2,620 | 2,718 | 2,441 | 2,059 | 2,038 | 2,233 | 2,3 |
| | Block 3 | 1,187 | 1,257 | 1,096 | 1,206 | 1,216 | 1,257 | 1,441 | 1,198 | 993 | 1,041 | 1,127 | 1,1 |
| | Block 4 | 1,717 | 1,595 | 1,456 | 1,544 | 1,828 | 1,865 | 1,861 | 1,488 | 1,484 | 1,609 | 1,628 | 1,6 |
| | Block 5 | 2,386 | 1,928 | 1,805 | 1,662 | 1,998 | 1,837 | 2,264 | 2,089 | 2,031 | 2,198 | 2,119 | 2,2 |
| | D1=-1- < | 1 027 | 1 / 1/1 | 1 472 | | | | | /1 /1 4/1 | 71 1 - 1 | | 1 777 | |
| | Block 6 | 1,836 | 1,610 | 1,473 | 1,695 | 1,670 | 1,610 | 1,998 | 2,040 | 2,151 | 2,257 | 1,776 | 2,1 |
| Total | Block 6 | 1,836 | 1,610 | 1,473 288,811 | 231,799 | 1,670 | 212,720 | 419,397 | 713,448 | 1,083,865 | 1,177,569 | 1,776 989,537 | 945,2 |

 Annual Apr-Mar
 7,348,267

 Authorized
 7,100,000

 Variance
 248,267

| Rate Schedule | Block | Apr 2020 | Actual Sch. 197 R May 2020 | Jun 2020 | Actual Sch. 19 Jul 2020 | Aug 2020 | Sep 2020 | 197 Revenues Oct 2020 | Nov 2020 | h. 197 Revenues Dec 2020 | Jan 2021 | ual Sch. 197 Revenue Feb 2021 | Mar 2021 |
|-------------------|--------------------|----------------|--|----------------|----------------------------|----------------|----------------|--------------------------|----------------|--------------------------|----------------|----------------------------------|------------|
| | Вюск | • | */ | | | • • | • | | | | | | |
| 2 R | | 518,028 | 278,050 | 209,398 | 147,799 | 109,589 | 114,259 | 165,761 | 478,033 | 777,500 | 800,368 | 811,773 | 706, |
| 3 CFS | | 135,041 | 67,721 | 53,700 | 45,420 | 38,049 | 38,956 | 49,692 | 124,007 | 205,469 | 215,421 | 219,418 | 198,7 |
| 3 IFS 27 | | 3,194 1,249 | 2,033 540 | 1,778 317 | 1,621 | 1,391 48 | 2,278 | 3,528 133 | 5,437 714 | 4,287 1,332 | 4,270 1,295 | 4,353 1,276 | 4,2 |
| 31C Firm Sales | Block 1 | 8,318 | 6,322 | 5,036 | 4,285 | 3,540 | 3,629 | 4,942 | 8,286 | 9,036 | 9,076 | 9,011 | 1,1 9,0 |
| 31C Firm Sales | Block 2 | 6,151 | 1,584 | 728 | 455 | 310 | 277 | 628 | 4,965 | 11,434 | 11,790 | 11,532 | 11,0 |
| 1C Firm Transpt | Block 1 | 805 | 734 | 615 | 496 | 474 | 529 | 807 | 849 | 848 | 849 | 848 | 8 |
| | Block 2 | 720 | 337 | 163 | 98 | 115 | 114 | 462 | 1,329 | 1,685 | 1,556 | 1,575 | 1,4 |
| 311 Firm Sales | Block 1 | 1,777 | 1,674 | 1,583 | 1,571 | 1,525 | 1,599 | 1,677 | 1,799 | 1,785 | 1,804 | 1,787 | 1,7 |
| | Block 2 | 3,139 | 2,310 | 2,065 | 2,302 | 1,988 | 2,482 | 3,145 | 3,154 | 3,997 | 3,993 | 3,959 | 3,7 |
| 31I Firm Transpt | Block 1 | 69 | 57 | 80 | 61 | 66 | 75 | 78 | 80 | 77 | 80 | 80 | |
| | Block 2 | 128 | 76 | 97 | 75 | 88 | 76 | 151 | 226 | 232 | 208 | 212 | 2 |
| 32C Firm Sales | Block 1 | 13,376 | 8,984 | 7,228 | 5,928 | 4,937 | 5,299 | 6,862 | 12,439 | 16,261 | 16,385 | 16,268 | 16,0 |
| | Block 2 | 2,726 | 950 | 764 | 614 | 598 | 590 | 774 | 2,104 | 4,472 | 4,920 | 4,898 | 4,7 |
| | Block 3 | 190 | 121 | 51 | 42 | 54 | 94 | 102 | 136 | 487 | 582 | 497 | 5 |
| | Block 4 | 80 | 20 | 1 | - | - | 6 | - | 1 | 92 | 41 | 91 | 1 |
| | Block 5 | - | - | - | - | - | - | - | - | - | - | - | • |
| 221 E: C-1 | Block 6 | 1 556 | 1 502 | 1 404 | 1 551 | 1 404 | 1 524 | 1 500 | 1 (22 | 1 727 | 1 702 | 1 (04 | 1 / |
| 32I Firm Sales | Block 1 Block 2 | 1,556 1,303 | 1,502 1,100 | 1,484 1,112 | 1,551 1,148 | 1,484 1,030 | 1,534 1,062 | 1,590 1,134 | 1,632 1,298 | 1,727 1,541 | 1,703 1,456 | 1,684 1,394 | 1,6 1,3 |
| | Block 2 Block 3 | 1,303 | 220 | 1,112 229 | 308 | 1,030 293 | 335 | 314 | 334 | 363 | 320 | 1,394 261 | 3 |
| | Block 4 | 20 | 34 | 41 | 64 | 42 | 30 | 35 | 50 | 37 | 49 | 32 | J |
| | Block 5 | - | - | - | - | - | - | - | - | - | - | - | |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 32C Firm Transpt | Block 1 | 747 | 664 | 589 | 549 | 536 | 605 | 791 | 769 | 760 | 760 | 755 | 7 |
| | Block 2 | 426 | 328 | 241 | 204 | 193 | 261 | 463 | 464 | 608 | 587 | 628 | 6 |
| | Block 3 | 159 | 81 | 60 | 52 | 45 | 49 | 113 | 182 | 192 | 182 | 182 | 1 |
| | Block 4 | 52 | 12 | 13 | 19 | 14 | 11 | 74 | 142 | 119 | 138 | 166 | 1 |
| | Block 5 | - | - | - | - | - | - | - | 11 | - | - | - | - |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | |
| 32I Firm Transpt | Block 1 | 2,772 | 2,687 | 2,858 | 2,701 | 2,745 | 2,718 | 2,773 | 2,705 | 2,791 | 2,772 | 2,774 | 2,8 |
| | Block 2 | 3,287 | 3,073 | 3,280 | 3,060 | 3,027 | 3,016 | 3,433 | 3,476 | 3,633 | 3,635 | 3,532 | 3,7 |
| | Block 3 | 1,501 | 1,310 | 1,501 | 1,347 | 1,372 | 1,351 | 1,579 | 1,566 | 1,672 | 1,705 | 1,672 | 1,7 |
| | Block 4 Block 5 | 1,701 994 | 1,583 924 | 1,607 808 | 1,435 767 | 1,459 694 | 1,320 633 | 1,665 851 | 1,882 969 | 1,946 1,026 | 2,092 1,106 | 2,019 1,072 | 2,2 1,0 |
| | Block 6 | 112 | 91 | 69 | 68 | 70 | 68 | 115 | 168 | 229 | 227 | 182 | 2 |
| 32C Interr Sales | Block 1 | 1,171 | 1,039 | 1,031 | 921 | 911 | 939 | 1,144 | 1,209 | 1,220 | 1,217 | 1,210 | 1,2 |
| | Block 2 | 1,354 | 1,137 | 1,046 | 889 | 888 | 909 | 1,437 | 1,663 | 1,759 | 1,780 | 1,635 | 1,7 |
| | Block 3 | 510 | 367 | 286 | 254 | 257 | 262 | 465 | 749 | 789 | 793 | 713 | 8 |
| | Block 4 | 380 | 273 | 190 | 160 | 151 | 171 | 305 | 662 | 784 | 772 | 598 | 7 |
| | Block 5 | - | - | - | - | - | - | - | 181 | 221 | 205 | 169 | 1 |
| | Block 6 | - | _ | - | - | - | - | - | - | | - | - | - |
| 32I Interr Sales | Block 1 | 1,344 | 1,398 | 1,443 | 1,330 | 1,319 | 1,294 | 1,420 | 1,374 | 1,395 | 1,432 | 1,380 | 1,5 |
| | Block 2 | 1,484 | 1,454 | 1,561 | 1,368 | 1,357 | 1,362 | 1,506 | 1,432 | 1,525 | 1,575 | 1,455 | 1,8 |
| | Block 3 | 491 | 484 | 558 | 454 | 494 | 397 | 479 | 557 | 607 | 635 | 553 | 8 |
| | Block 4 | 533 | 573 | 705 | 609 | 655 | 522 | 666 | 558 | 724 | 722 | 690 | 1,2 |
| | Block 5 | 33 | 26 | 185 | 93 | 110 | - | 70 | 153 | 96 | 152 | 78 | 2 |
| 22C Inton Tonon | Block 6 | - 215 | 215 | - 215 | - 212 | - 204 | 200 | 215 | 100 | 100 | 100 | 172 | |
| 32C Inter Transpt | Block 1 Block 2 | 215 343 | 215 | 215 292 | 213 279 | 204 281 | 208 288 | 215 333 | 190 346 | 190 359 | 190 364 | 173 | 3 |
| | Block 2 Block 3 | 150 | 313 150 | 150 | 150 | 143 | 288 142 | 150 | 346 120 | 128 | 129 | 341 135 | - |
| | Block 4 | 328 | 306 | 282 | 262 | 253 | 264 | 317 | 262 | 276 | 273 | 258 | - |
| | Block 5 | 151 | 132 | 106 | 97 | 89 | 88 | 134 | 25 | 47 | 46 | 42 | - |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | |
| 32I Inter Transpt | Block 1 | 1,493 | 1,545 | 1,485 | 1,476 | 1,512 | 1,563 | 1,574 | 1,538 | 1,500 | 1,456 | 1,423 | 1,5 |
| 1 | Block 2 | 2,274 | 2,308 | 2,323 | 2,308 | 2,370 | 2,369 | 2,572 | 2,245 | 2,211 | 2,099 | 1,955 | 2,2 |
| | Block 3 | 981 | 1,084 | 1,122 | 1,124 | 1,133 | 1,119 | 1,280 | 1,068 | 1,113 | 1,038 | 1,002 | 1, |
| | Block 4 | 1,350 | 1,439 | 1,581 | 1,624 | 1,625 | 1,414 | 1,717 | 1,550 | 1,583 | 1,571 | 1,450 | 1, |
| | Block 5 | 1,730 | 1,890 | 1,624 | 1,492 | 1,612 | 1,705 | 1,941 | 1,919 | 1,978 | 2,048 | 1,652 | 2,3 |
| | Block 6 | 1,921 | 1,552 | 1,619 | 1,727 | 1,926 | 1,387 | 2,231 | 2,199 | 2,450 | 2,418 | 2,235 | 2,3 |
| Total | | 728,141 | 402,810 | 315,297 | 241,006 | 193,066 | 199,698 | 273,628 | 679,212 | 1,076,592 | 1,110,288 | 1,123,079 | 999,7 |
| | | -, - | ,- · · · · · · · · · · · · · · · · · · · | ., | , | - , | , | , | | , , | | | |
| | | | | | | | | | | | - | Annual Apr-Mar | 7,342, |

 Annual Apr-Mar
 7,342,588

 Authorized
 7,100,000

 Variance
 242,588

Schedule 197 Revenue Analys

| | | Actual Sch. 197 Reven | | Actual Sch. 197 Re | | Actual Sch. 19 | | | . 197 Revenues | |
|-------------------|--------------------|-----------------------|----------|--------------------|----------|----------------|----------|----------|----------------|----------|
| Rate Schedule | Block | Apr 2021 | May 2021 | Jun 2021 | Jul 2021 | Aug 2021 | Sep 2021 | Oct 2021 | Nov 2021 | Dec 2021 |
| 2 R | | 510,383 | 263,943 | 192,028 | 112,122 | 98,602 | 113,372 | 232,796 | 420,519 | 692,6 |
| 3 CFS | | 148,834 | 79,868 | 62,787 | 44,178 | 41,440 | 45,729 | 69,819 | 115,697 | 190,0 |
| 3 IFS | | 3,614 | 2,420 | 2,091 | 1,700 | 1,709 | 2,520 | 3,989 | 5,174 | 4,0 |
| 27 | | 850 | 335 | 172 | 42 | 8 | 37 | 265 | 793 | 1,2 |
| 31C Firm Sales | Block 1 | 8,795 | 7,531 | 6,336 | 4,114 | 3,632 | 4,227 | 6,621 | 8,279 | 8,9 |
| | Block 2 | 7,172 | 2,197 | 1,025 | 297 | 242 | 400 | 1,495 | 4,765 | 10,3 |
| 31C Firm Transpt | Block 1 | 837 | 767 | 514 | 425 | 439 | 552 | 835 | 851 | { |
| _ | Block 2 | 599 | 211 | 89 | 105 | 107 | 127 | 556 | 1,008 | 2,0 |
| 311 Firm Sales | Block 1 | 1,755 | 1,683 | 1,626 | 1,564 | 1,568 | 1,640 | 1,773 | 1,774 | 1, |
| | Block 2 | 3,336 | 2,640 | 2,670 | 2,346 | 2,231 | 2,872 | 3,476 | 3,265 | 3, |
| 31I Firm Transpt | Block 1 | 78 | 70 | 68 | 61 | 67 | 77 | 80 | 80 | |
| 1 | Block 2 | 150 | 112 | 69 | 88 | 92 | 105 | 173 | 207 | |
| 32C Firm Sales | Block 1 | 14,239 | 10,613 | 8,686 | 5,979 | 5,499 | 6,300 | 9,377 | 12,924 | 16, |
| | Block 2 | 3,088 | 1,509 | 1,016 | 664 | 655 | 668 | 1,074 | 2,369 | 4, |
| | Block 3 | 456 | 121 | 109 | 111 | 78 | 105 | 155 | 205 | •• |
| | Block 4 | 257 | (134) | - | - | - | - | 37 | 13 | |
| | Block 5 | 224 | (224) | - | - | _ | <u>-</u> | 37 | 13 | |
| | | 224 | (224) | - | - | - | - | - | - | |
| 32I Firm Sales | Block 6 Block 1 | 1,637 | 1 5 4 7 | 1 470 | 1 400 | 1 540 | 1 502 | 1 (77 | 1 6/1 | 1, |
| 321 FITTH Sales | | | 1,547 | 1,479 | 1,490 | 1,549 | 1,583 | 1,677 | 1,641 | |
| | Block 2 | 1,234 | 1,116 | 1,032 | 1,041 | 1,101 | 1,106 | 1,195 | 1,154 | 1 |
| | Block 3 | 255 | 245 | 253 | 287 | 268 | 341 | 289 | 211 | |
| | Block 4 | 21 | 20 | 15 | 55 | 53 | 69 | 56 | 9 | |
| | Block 5 | - | - | - | - | - | - | - | - | |
| | Block 6 | - | - | - | - | - | - | - | - | |
| 32C Firm Transpt | Block 1 | 724 | 667 | 534 | 494 | 501 | 565 | 656 | 708 | |
| | Block 2 | 523 | 311 | 228 | 213 | 239 | 258 | 445 | 506 | |
| | Block 3 | 144 | 72 | 62 | 36 | 52 | 72 | 87 | 134 | |
| | Block 4 | 53 | 18 | 17 | 18 | 17 | 29 | 75 | 114 | |
| | Block 5 | - | - | - | - | - | - | - | - | |
| | Block 6 | - | - | - | - | - | - | - | - | |
| 32I Firm Transpt | Block 1 | 2,808 | 2,798 | 2,793 | 2,755 | 2,778 | 2,820 | 2,847 | 2,849 | 2. |
| | Block 2 | 3,472 | 3,383 | 3,164 | 3,112 | 3,217 | 3,280 | 3,583 | 3,647 | 3 |
| | Block 3 | 1,551 | 1,486 | 1,449 | 1,404 | 1,466 | 1,444 | 1,525 | 1,613 | 1 |
| | Block 4 | 1,894 | 1,806 | 1,574 | 1,450 | 1,571 | 1,590 | 1,868 | 1,923 | 2 |
| | Block 5 | 864 | 840 | 672 | 768 | 758 | 864 | 1,103 | 1,137 | 1 |
| | Block 6 | 145 | 136 | 98 | 95 | 95 | 95 | 143 | 159 | - |
| 32C Interr Sales | Block 1 | 1,176 | 1,139 | 950 | 955 | 965 | 1,048 | 1,164 | 1,243 | 1 |
| Jac men baies | Block 2 | 1,496 | 1,312 | 984 | 874 | 954 | 1,068 | 1,479 | 1,648 | 1 |
| | Block 3 | 570 | 420 | 277 | 285 | 290 | 306 | 596 | 713 | 1 |
| | Block 3 Block 4 | 431 | 353 | | 283 | 236 | 257 | 434 | 536 | |
| | | | | 238 | | | | | | |
| | Block 5 | 143 | 135 | 96 | 90 | 87 | 96 | 149 | 164 | |
| 2211.4 6 1 | Block 6 | 1 200 | 1 22 4 | 1 2 4 0 | 1 202 | 1 270 | 1 220 | 1 270 | 1 445 | |
| 32I Interr Sales | Block 1 | 1,388 | 1,324 | 1,369 | 1,303 | 1,268 | 1,328 | 1,379 | 1,445 | 1 |
| | Block 2 | 1,512 | 1,404 | 1,515 | 1,389 | 1,349 | 1,398 | 1,512 | 1,565 | - |
| | Block 3 | 566 | 518 | 529 | 542 | 447 | 528 | 539 | 655 | |
| | Block 4 | 912 | 740 | 862 | 720 | 665 | 613 | 756 | 1,007 | |
| | Block 5 | 83 | 143 | 38 | 79 | 153 | (129) | 98 | 195 | |
| | Block 6 | - | - | - | - | - | - | - | - | |
| 32C Inter Transpt | Block 1 | 190 | 190 | 190 | 184 | 190 | 190 | 190 | 165 | |
| | Block 2 | 315 | 275 | 242 | 239 | 236 | 249 | 302 | 292 | |
| | Block 3 | 120 | 120 | 110 | 108 | 106 | 110 | 120 | 120 | |
| | Block 4 | 233 | 219 | 164 | 159 | 159 | 178 | 233 | 238 | |
| | Block 5 | 11 | 8 | - | - | - | - | 8 | 18 | |
| | Block 6 | - | - | - | - | - | - | - | - | |
| 32I Inter Transpt | Block 1 | 1,487 | 1,481 | 1,515 | 1,515 | 1,558 | 1,566 | 1,591 | 1,471 | 1 |
| r· | Block 2 | 2,280 | 2,311 | 2,313 | 2,367 | 2,457 | 2,455 | 2,479 | 2,160 | |
| | Block 3 | 1,162 | 1,115 | 1,157 | 1,142 | 1,294 | 1,296 | 1,284 | 1,011 | |
| | Block 4 | 1,526 | 1,496 | 1,539 | 1,466 | 1,616 | 1,591 | 1,629 | 1,332 | 1 |
| | Block 5 | 1,936 | 1,490 | 1,542 | 1,508 | 1,730 | 1,809 | 2,001 | 1,866 | 2 |
| | Block 6 | 2,066 | 1,861 | 1,743 | 1,848 | 1,918 | 1,782 | 1,928 | 2,299 | 2 |
| | DIOCK () | · | | | 1,040 | · | 1,/02 | | ۷,499 | |
| | | 739,596 | 406,634 | 310,026 | 204,019 | 187,713 | 210,590 | 367,943 | 613,875 | 976 |

PUBLIC UTILITY COMMISSION OF OREGON

UG 435

| In the Matter of |) |
|---|---|
| NORTHWEST NATURAL GAS CORPORATION, dba NW NATURAL, |) |
| Request for a General Rate Revision. |) |

AWEC/107

Schedule 183 – Environmental Cost Recovery Revenue Analysis

OPENING TESTIMONY OF BRADLEY G. MULLINS ON BEHALF OF

ALLIANCE OF WESTERN ENERGY CONSUMERS

| Rate Schedule | Block | Rate Case Volumes | Sch. 182 Rate | Sch. 182 Rate Case. Rev. |
|-------------------|--------------------|----------------------|------------------------|-----------------------------|
| 2 R | | 405,331,797 | 0.0097600 | 3,956,038 |
| 3 CFS | | 169,645,064 | 0.0069000 | 1,170,551 |
| 3 IFS | | 5,085,467 | 0.0058600 | 29,801 |
| 27 | | 791,922 | 0.0071000 | 5,623 |
| 31C Firm Sales | Block 1 | 11,937,946 | 0.0048000 | 57,302 |
| | Block 2 | 9,663,405 | 0.0043800 | 42,326 |
| 31C Firm Transpt | Block 1 | 1,197,319 | 0.0036900 | 4,418 |
| | Block 2 | 1,398,405 | 0.0033400 | 4,671 |
| 311 Firm Sales | Block 1 | 3,902,829 | 0.0061800 | 24,119 |
| | Block 2 | 8,292,255 | 0.0056400 | 46,768 |
| 31I Firm Transpt | Block 1 | 135,565 | 0.0039700 | 538 |
| 22G F' C.1 | Block 2 | 370,003 | 0.0035900 | 1,328 |
| 32C Firm Sales | Block 1 | 34,405,848 | 0.0023100 | 79,478 |
| | Block 2 Block 3 | 8,996,941 | 0.0019600 | 17,634 |
| | Block 4 | 1,505,090 421,439 | 0.0013900 0.0008100 | 2,092 341 |
| | Block 5 | 421,439 | 0.0008100 | 341 |
| | Block 6 | - | 0.0004000 | - |
| 32I Firm Sales | Block 1 | 6,124,832 | 0.0022100 | 13,536 |
| 3211 IIIII Sales | Block 2 | 5,730,496 | 0.0022100 | 10,773 |
| | Block 3 | 1,686,931 | 0.0013200 | 2,227 |
| | Block 4 | 347,849 | 0.0007700 | 268 |
| | Block 5 | - | 0.0004400 | - |
| | Block 6 | _ | 0.0001100 | _ |
| 32C Firm Transpt | Block 1 | 2,540,213 | 0.0020600 | 5,233 |
| 1 | Block 2 | 2,049,162 | 0.0017500 | 3,586 |
| | Block 3 | 949,358 | 0.0012400 | 1,177 |
| | Block 4 | 949,827 | 0.0007200 | 684 |
| | Block 5 | 17,547 | 0.0004100 | 7 |
| | Block 6 | - | 0.0002100 | - |
| 32I Firm Transpt | Block 1 | 9,361,047 | 0.0020600 | 19,284 |
| | Block 2 | 13,921,392 | 0.0017500 | 24,362 |
| | Block 3 | 9,497,411 | 0.0012400 | 11,777 |
| | Block 4 | 21,833,039 | 0.0007200 | 15,720 |
| | Block 5 | 19,320,860 | 0.0004100 | 7,922 |
| | Block 6 | 8,213,069 | 0.0002100 | 1,725 |
| 32C Interr Sales | Block 1 | 4,230,356 | 0.0022500 | 9,518 |
| | Block 2 | 5,471,563 | 0.0019100 | 10,451 |
| | Block 3 | 3,207,435 | 0.0013500 | 4,330 |
| | Block 4 | 7,046,824 | 0.0007900 | 5,567 |
| | Block 5 Block 6 | 5,054,642 | 0.0004500 | 2,275 |
| 32I Interr Sales | Block 1 | 5,956,730 | 0.0021100 | 12,569 |
| | Block 2 | 8,077,570 | 0.0018000 | 14,540 |
| | Block 3 | 4,456,220 | 0.0012700 | 5,659 |
| | Block 4 | 10,249,052 | 0.0007400 | 7,584 |
| | Block 5 | 7,342,584 | 0.0004200 | 3,084 |
| | Block 6 | - | | - |
| 32C Inter Transpt | Block 1 | 995,681 | 0.0019300 | 1,922 |
| | Block 2 | 1,519,237 | 0.0016400 | 2,492 |
| | Block 3 | 877,075 | 0.0011600 | 1,017 |
| | Block 4 | 3,005,603 | 0.0006700 | 2,014 |
| | Block 5 | 462,553 | 0.0003900 | 180 |
| | Block 6 | | 0.0001900 | - |
| 32I Inter Transpt | Block 1 | 5,656,512 | 0.0019300 | 10,917 |
| | Block 2 | 9,633,242 | 0.0016400 | 15,799 |
| | Block 3 | 7,305,771 | 0.0011600 | 8,475 |
| | Block 4 | 22,439,448 | 0.0006700 | 15,034 |
| | Block 5 | 44,236,972 | 0.0003900 | 17,252 |
| | Block 6 | 99,230,818 | 0.0001900 | 18,854 |
| Total | | 1,022,080,218 | | 5,730,841 |
| | | | Authorized | 5,000,000 |
| | | | Variance | 730,841 |

| | | Actual Volumes | | Actual Volumes | | Actual Volumes | | Actual Volum | es | Actual Volu | mes | Actual Vo | lumes |
|-------------------|---------|-----------------------|-------------|----------------|------------|----------------|------------|--------------|------------|-------------|------------|------------|-------------|
| Rate Schedule | Block | Jan 2018 | Feb 2018 | Mar 2018 | Apr 2018 | May 2018 | Jun 2018 | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 |
| 2 R | | 69,409,452 | 51,091,503 | 55,090,820 | 40,195,291 | 20,918,061 | 12,508,006 | 9,455,901 | 7,497,492 | 8,901,862 | 14,263,604 | 28,600,020 | 55,572,157 |
| 3 CFS | | 28,648,637 | 20,833,410 | 23,009,541 | 16,872,683 | 9,667,740 | 6,686,940 | 5,652,577 | 4,844,124 | 5,394,349 | 6,849,939 | 11,393,323 | 22,328,565 |
| 3 IFS | | 588,791 | 493,560 | 532,971 | 444,194 | 291,365 | 229,894 | 215,937 | 228,003 | 368,880 | 375,866 | 559,734 | 515,788 |
| 27 | | 213,420 | 151,870 | 165,457 | 118,723 | 57,826 | 19,604 | 9,457 | 5,118 | 8,228 | 26,142 | 88,473 | 191,892 |
| 31C Firm Sales | Block 1 | 1,408,970 | 1,395,481 | 1,394,139 | 1,367,420 | 1,190,317 | 893,812 | 727,225 | 615,733 | 692,587 | 922,858 | 1,213,345 | 1,322,027 |
| | Block 2 | 2,584,947 | 1,660,255 | 1,958,162 | 1,267,978 | 457,450 | 179,270 | 119,507 | 69,744 | 81,676 | 156,046 | 557,955 | 1,665,161 |
| 31C Firm Transpt | Block 1 | 136,724 | 152,754 | 140,439 | 143,892 | 118,290 | 102,255 | 78,437 | 82,151 | 96,530 | 134,818 | 147,609 | 152,079 |
| - | Block 2 | 289,503 | 317,158 | 262,612 | 159,530 | 53,596 | 29,911 | 25,576 | 28,022 | 34,190 | 79,922 | 235,110 | 365,164 |
| 311 Firm Sales | Block 1 | 375,719 | 391,586 | 383,940 | 386,132 | 372,354 | 347,929 | 340,053 | 333,009 | 360,787 | 386,049 | 376,381 | 379,928 |
| | Block 2 | 1,025,665 | 859,401 | 859,662 | 762,474 | 592,420 | 560,045 | 584,052 | 535,127 | 688,297 | 953,302 | 666,352 | 886,163 |
| 31I Firm Transpt | Block 1 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 9,943 | 7,880 | 7,641 | 10,000 | 8,000 | 12,000 | 12,000 |
| • | Block 2 | 45,931 | 45,134 | 40,283 | 26,495 | 14,114 | 11,721 | 9,717 | 9,839 | 13,857 | 16,746 | 38,345 | 45,662 |
| 32C Firm Sales | Block 1 | 3,785,198 | 3,443,146 | 3,544,895 | 3,215,577 | 2,434,206 | 1,822,096 | 1,526,561 | 1,211,044 | 1,476,269 | 1,950,406 | 2,640,799 | 3,595,236 |
| | Block 2 | 1,873,865 | 1,121,123 | 1,350,305 | 827,610 | 369,058 | 235,788 | 214,178 | 151,005 | 238,557 | 302,856 | 528,470 | 1,267,318 |
| | Block 3 | 249,093 | 98,450 | 132,626 | 86,114 | 21,655 | 24,643 | 26,250 | 28,450 | 26,541 | 34,844 | 52,918 | 165,110 |
| | Block 4 | 7,783 | (2,535) | 13,148 | - | - | , - | - | - | , - | - | 23,812 | 40,334 |
| | Block 5 | , - | - | - - | _ | _ | _ | _ | _ | _ | - | , - | · - |
| | Block 6 | - | _ | _ | _ | _ | _ | - | - | _ | <u>-</u> | _ | _ |
| 32I Firm Sales | Block 1 | 454,359 | 465,819 | 471,499 | 456,708 | 449,047 | 453,561 | 457,753 | 400,245 | 496,052 | 484,477 | 432,752 | 455,685 |
| | Block 2 | 582,177 | 530,417 | 539,070 | 524,418 | 486,642 | 444,537 | 471,641 | 340,103 | 473,057 | 451,940 | 411,346 | 496,279 |
| | Block 3 | 194,564 | 173,930 | 165,041 | 144,269 | 151,675 | 146,085 | 158,862 | 124,514 | 178,064 | 148,103 | 108,825 | 149,933 |
| | Block 4 | 88,495 | 58,769 | 87,330 | 61,908 | 65,805 | 52,794 | 83,092 | 60,108 | 66,115 | 45,541 | 45,978 | 37,665 |
| | Block 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Block 6 | - | <u>-</u> | <u>-</u> | _ | _ | _ | _ | _ | _ | _ | <u>-</u> | _ |
| 32C Firm Transpt | Block 1 | 558,776 | 548,962 | 547,137 | 484,866 | 343,157 | 308,835 | 245,207 | 264,118 | 311,997 | 340,880 | 574,346 | 577,808 |
| · | Block 2 | 281,083 | 302,971 | 299,353 | 246,578 | 117,772 | 106,647 | 100,944 | 123,604 | 125,470 | 153,542 | 293,320 | 288,694 |
| | Block 3 | 155,068 | 138,387 | 157,589 | 73,519 | 10,027 | 31,115 | 29,801 | 53,784 | 27,487 | 53,522 | 149,654 | 144,563 |
| | Block 4 | 130,790 | 127,430 | 113,618 | 43,744 | - | 9,856 | 4,169 | 14,792 | 1,132 | 5,508 | 61,820 | 102,084 |
| | Block 5 | - | - | - | - | _ | - | - | - | - | - | - | - |
| | Block 6 | _ | <u>-</u> | _ | - | _ | _ | - | _ | _ | <u>-</u> | _ | _ |
| 32I Firm Transpt | Block 1 | 967,173 | 974,360 | 976,914 | 955,449 | 946,113 | 943,692 | 921,762 | 930,640 | 879,577 | 807,075 | 1,127,395 | 1,054,593 |
| · | Block 2 | 1,460,153 | 1,427,206 | 1,445,449 | 1,336,533 | 1,278,350 | 1,200,957 | 1,187,511 | 1,221,893 | 1,167,967 | 1,116,113 | 1,672,493 | 1,609,002 |
| | Block 3 | 950,241 | 887,888 | 891,099 | 814,148 | 771,918 | 735,679 | 735,863 | 763,066 | 681,952 | 703,109 | 1,075,906 | 1,066,499 |
| | Block 4 | 2,005,862 | 1,842,929 | 1,924,582 | 1,689,000 | 1,581,441 | 1,451,916 | 1,339,926 | 1,437,417 | 1,265,652 | 1,417,649 | 1,953,120 | 2,091,941 |
| | Block 5 | 1,959,988 | 1,877,227 | 2,002,781 | 1,884,409 | 1,719,473 | 1,467,326 | 1,468,394 | 1,460,181 | 1,338,859 | 1,321,872 | 2,285,329 | 2,327,111 |
| | Block 6 | 533,131 | 477,019 | 518,180 | 260,527 | 122,078 | 56,955 | 42,221 | 32,170 | 72,098 | - - | 532,244 | 626,174 |
| 32C Interr Sales | Block 1 | 483,146 | 497,961 | 502,790 | 479,069 | 454,564 | 411,208 | 374,165 | 371,409 | 415,163 | 471,607 | 471,880 | 483,924 |
| | Block 2 | 782,508 | 766,874 | 779,912 | 651,889 | 562,749 | 465,169 | 412,387 | 420,226 | 479,289 | 607,733 | 690,935 | 769,136 |
| | Block 3 | 458,974 | 436,963 | 491,579 | 357,491 | 252,091 | 182,409 | 149,487 | 150,315 | 172,282 | 280,014 | 413,551 | 475,159 |
| | Block 4 | 664,461 | 612,994 | 706,734 | 349,409 | 303,597 | 165,073 | 133,712 | 142,687 | 173,656 | 264,447 | 514,884 | 737,550 |
| | Block 5 | 10,455 | 1,261 | - - | - | - - | , - | , - | , - | , - | - | , - | 6,804 |
| | Block 6 | - | - | - | _ | _ | _ | - | - | _ | _ | - | - |
| 32I Interr Sales | Block 1 | 535,549 | 576,691 | 554,271 | 530,363 | 534,182 | 515,493 | 501,005 | 468,058 | 516,683 | 518,087 | 526,895 | 511,123 |
| | Block 2 | 654,312 | 678,231 | 717,008 | 658,203 | 687,412 | 626,346 | 610,414 | 603,492 | 636,929 | 642,593 | 620,523 | 618,864 |
| | Block 3 | 346,685 | 358,327 | 409,150 | 330,072 | 310,853 | 293,331 | 256,561 | 260,139 | 288,803 | 313,463 | 288,168 | 297,876 |
| | Block 4 | 796,540 | 674,691 | 902,635 | 700,394 | 780,491 | 713,490 | 627,988 | 640,208 | 561,015 | 544,331 | 518,751 | 464,290 |
| | Block 5 | 351,547 | 184,533 | 332,908 | 317,035 | 172,785 | 250,868 | 59,403 | 47,173 | 105,020 | 109,978 | 43,681 | 121,176 |
| | Block 6 | - | - | - | - | - | | - | - | - | - | - | - |
| 32C Inter Transpt | Block 1 | 69,104 | 69,331 | 69,132 | 69,109 | 69,070 | 69,100 | 69,070 | 69,070 | 69,100 | 69,070 | 86,100 | 85,978 |
| - 1 | Block 2 | 157,244 | 156,561 | 157,438 | 146,278 | 129,873 | 124,253 | 118,204 | 119,977 | 124,207 | 117,130 | 196,307 | 186,006 |
| | Block 3 | 120,000 | 118,764 | 104,159 | 100,000 | 100,000 | 97,091 | 95,149 | 93,707 | 94,794 | 80,000 | 120,339 | 108,951 |
| | Block 4 | 407,767 | 389,542 | 395,913 | 367,954 | 328,366 | 306,468 | 280,708 | 289,756 | 314,114 | 347,167 | 389,921 | 408,574 |
| | Block 5 | 411,164 | 392,948 | 398,469 | 307,689 | 233,615 | 200,710 | 176,866 | 181,099 | 218,265 | 258,217 | 368,408 | 473,587 |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 32I Inter Transpt | Block 1 | 593,808 | 643,948 | 646,439 | 644,889 | 674,413 | 638,896 | 666,089 | 639,168 | 639,966 | 616,349 | 650,942 | 637,661 |
| | Block 2 | 1,065,780 | 1,164,722 | 1,213,545 | 1,198,565 | 1,227,850 | 1,186,556 | 1,258,590 | 1,215,753 | 1,188,064 | 1,185,575 | 1,135,746 | 954,592 |
| | Block 3 | 838,684 | 818,975 | 848,874 | 820,010 | 906,601 | 786,279 | 870,644 | 859,834 | 808,998 | 839,911 | 775,083 | 598,492 |
| | Block 4 | 2,010,377 | 2,049,505 | 2,092,477 | 1,973,423 | 1,984,907 | 1,913,838 | 2,056,622 | 2,185,362 | 1,944,453 | 1,796,578 | 1,814,899 | 1,557,724 |
| | Block 5 | 4,374,494 | 3,956,625 | 4,430,971 | 4,168,084 | 3,832,209 | 3,554,015 | 3,674,184 | 3,568,407 | 3,495,146 | 3,169,511 | 4,164,663 | 3,493,502 |
| | Block 6 | 7,542,268 | 6,103,416 | 8,114,832 | 6,686,193 | 7,522,721 | 7,054,189 | 6,425,256 | 6,371,394 | 6,040,350 | 4,292,783 | 9,763,942 | 6,954,841 |
| m . 1 | | 1 | | | | | | | | | | | |
| Total | | 143,650,423 | 112,548,475 | 122,897,877 | 95,716,308 | 65,680,298 | 50,626,595 | 45,056,957 | 41,570,370 | 43,764,384 | 50,035,272 | 81,414,791 | 119,478,425 |

| | _ | Actual | Volumes | Actu | al Volumes | Ac | tual Volumes | | Actual Volumes | | Actual Volumes | | Actual Volur |
|-------------------|--------------------|----------------------|---------------------------------------|---------------------------------------|----------------------|----------------------|----------------------|----------------------|---------------------------------------|----------------------|---------------------------------------|----------------------|--------------------|
| Rate Schedule | Block | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | Jun 2019 | Jul 2019 | Aug 2019 | Sep 2019 | Oct 2019 | Nov 2019 | Dec 2019 |
| 2 R | | 64,629,409 | 63,941,881 | 65,653,659 | 34,814,757 | 20,609,593 | 13,208,269 | 9,824,026 | 7,983,233 | 8,612,264 | 20,727,992 | 37,927,193 | 59,698,423 |
| 3 CFS | | 26,532,651 | 26,474,221 | 28,128,076 | 15,091,522 | 9,604,120 | 6,982,885 | 5,936,033 | 5,120,922 | 5,313,216 | 8,852,424 | 15,503,352 | 24,135,384 |
| 3 IFS | | 588,864 | 613,603 | 638,309 | 437,870 | 333,119 | 248,960 | 251,744 | 240,232 | 332,729 | 603,370 | 732,159 | 566,667 |
| 27 | | 215,192 | 205,426 | 205,244 | 107,074 | 55,872 | 25,800 | 8,714 | 5,710 | 8,254 | 43,728 | 116,148 | 199,733 |
| 31C Firm Sales | Block 1 | 1,326,935 | 1,321,256 | 1,340,997 | 1,315,372 | 1,151,002 | 907,139 | 736,808 | 636,048 | 674,863 | 1,068,854 | 1,271,605 | 1,309,602 |
| | Block 2 | 2,109,609 | 2,050,148 | 2,320,315 | 977,207 | 412,807 | 165,025 | 113,915 | 80,862 | 71,889 | 294,079 | 943,536 | 1,898,173 |
| 31C Firm Transpt | Block 1 | 146,339 | 144,097 | 100,707 | 129,966 | 103,782 | 82,126 | 69,869 | 69,757 | 93,277 | 115,837 | 118,059 | 117,614 |
| 211 Firm Color | Block 2 | 369,305 | 400,940 | 220,607 | 164,565 364,013 | 50,435 | 29,052 | 24,153 | 23,105 | 42,318 | 163,999 | 231,093 | 300,240 |
| 31I Firm Sales | Block 1 Block 2 | 379,775 926,731 | 379,823 912,952 | 382,648 958,126 | 692,331 | 359,378 582,093 | 338,650 585,714 | 327,553 517,655 | 328,901 494,036 | 346,474 621,448 | 367,801 855,721 | 372,870 933,047 | 375,008 899,733 |
| 31I Firm Transpt | Block 1 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 9,310 | 7,884 | 7,613 | 9,891 | 10,000 | 12,000 | 12,000 |
| 3111 IIII Transpi | Block 2 | 44,613 | 49,790 | 38,232 | 26,696 | 16,624 | 12,600 | 9,603 | 10,008 | 12,160 | 33,329 | 45,495 | 70,511 |
| 32C Firm Sales | Block 1 | 3,826,639 | 3,751,605 | 3,996,780 | 3,397,466 | 2,630,718 | 2,022,703 | 1,695,438 | 1,476,042 | 1,531,179 | 2,498,887 | 3,375,154 | 3,916,421 |
| | Block 2 | 1,584,608 | 1,582,662 | 1,842,769 | 889,957 | 434,003 | 265,275 | 236,715 | 228,326 | 221,869 | 393,186 | 753,565 | 1,399,204 |
| | Block 3 | 247,249 | 197,846 | 296,748 | 86,019 | 33,549 | 30,566 | 34,204 | 46,800 | 46,386 | 78,466 | 72,821 | 217,866 |
| | Block 4 | 44,361 | 31,498 | 61,553 | 6,381 | - | - | - | - | - | 50,437 | 39,808 | 129,996 |
| | Block 5 | - | - | - | - | - | - | - | - | - | - | 52,653 | - |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | |
| 32I Firm Sales | Block 1 | 443,516 | 444,141 | 456,148 | 470,433 | 452,838 | 436,006 | 450,705 | 477,786 | 477,604 | 526,145 | 513,423 | 492,835 |
| | Block 2 | 486,942 | 516,865 | 482,451 | 438,226 | 416,680 | 388,639 | 430,090 | 443,212 | 440,906 | 518,719 | 526,416 | 552,486 |
| | Block 3 | 157,644 | 147,288 | 150,841 | 124,605 | 131,052 | 135,046 | 170,054 | 198,530 | 178,831 | 184,150 | 182,255 | 156,754 |
| | Block 4 | 40,153 | 23,881 | 34,635 | 26,435 | 69,960 | 37,445 | 54,633 | 181,440 | 154,326 | 78,499 | 63,931 | 23,454 |
| | Block 5 | - | - | - | - | - | - | - | 203,092 | 506,589 | - | - | - |
| 32C Firm Transpt | Block 6 Block 1 | 577,763 | 592,569 | 300,252 | 279,796 | 253,705 | 214,150 | 181,866 | 200,451 | 224,696 | 269,154 | 292,295 | 303,787 |
| 32C Film Transpt | Block 2 | 292,603 | 316,587 | 312,015 | 234,544 | 170,786 | 116,796 | 89,751 | 132,337 | 147,740 | 242,637 | 269,593 | 310,722 |
| | Block 3 | 147,610 | 157,489 | 136,168 | 82,075 | 47,331 | 29,915 | 9,090 | 50,642 | 36,663 | 117,650 | 142,639 | 153,891 |
| | Block 4 | 145,738 | 201,139 | 126,146 | 44,042 | 11,195 | 5,373 | - | 24,277 | 8,294 | 50,272 | 104,389 | 153,539 |
| | Block 5 | - | 349 | - | - | - | - | _ | | - | - | - | - |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 32I Firm Transpt | Block 1 | 1,024,139 | 959,317 | 1,055,196 | 1,052,840 | 995,782 | 975,864 | 965,900 | 926,344 | 986,117 | 975,107 | 983,869 | 980,774 |
| | Block 2 | 1,584,239 | 1,481,044 | 1,648,787 | 1,527,904 | 1,400,429 | 1,315,765 | 1,279,302 | 1,233,791 | 1,284,828 | 1,438,844 | 1,463,322 | 1,460,555 |
| | Block 3 | 1,067,884 | 971,164 | 1,099,664 | 1,036,886 | 875,224 | 800,974 | 806,324 | 795,000 | 799,103 | 902,345 | 927,640 | 904,435 |
| | Block 4 | 2,031,766 | 1,865,289 | 2,117,412 | 2,081,218 | 1,627,628 | 1,485,860 | 1,459,906 | 1,374,422 | 1,513,562 | 1,835,985 | 1,913,129 | 1,890,146 |
| | Block 5 | 1,985,539 | 2,093,163 | 2,294,635 | 1,827,160 | 1,630,843 | 1,463,565 | 1,461,261 | 1,421,462 | 1,384,875 | 1,814,250 | 1,846,996 | 2,026,617 |
| | Block 6 | 660,453 | 640,666 | 516,755 | 275,793 | 184,636 | 125,931 | 138,154 | 151,602 | 193,288 | 403,939 | 518,583 | 706,342 |
| 32C Interr Sales | Block 1 | 475,888 | 482,042 | 431,688 | 488,062 | 398,026 | 371,863 | 325,520 | 333,737 | 375,696 | 445,209 | 436,237 | 442,359 |
| | Block 2 | 749,837 | 745,700 | 627,879 | 670,617 | 523,832 | 442,900 | 389,292 | 371,205 | 477,407 | 659,792 | 683,747 | 734,827 |
| | Block 3 | 492,189 | 441,770 | 377,863 | 367,269 | 271,606 | 167,825 | 152,807 | 147,283 | 166,814 | 383,620 | 417,888 | 484,433 |
| | Block 4 Block 5 | 749,098 20,242 | 585,898 | 431,597 | 398,971 | 230,503 | 155,746 | 155,860 | 150,249 | 194,481 | 414,444 | 532,800 | 690,338 18,053 |
| | Block 6 | 20,242 | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - | 16,033 |
| 32I Interr Sales | Block 1 | 523,122 | 492,591 | 521,326 | 557,536 | 504,078 | 506,357 | 496,457 | 496,321 | 488,802 | 506,539 | 486,320 | 532,936 |
| | Block 2 | 670,902 | 560,583 | 605,985 | 727,096 | 648,887 | 596,937 | 560,174 | 570,187 | 550,236 | 624,515 | 555,806 | 669,591 |
| | Block 3 | 353,497 | 297,022 | 311,946 | 379,130 | 283,777 | 236,740 | 240,871 | 208,967 | 246,126 | 303,110 | 258,795 | 327,988 |
| | Block 4 | 669,204 | 597,378 | 589,508 | 871,335 | 609,028 | 446,184 | 517,519 | 522,743 | 389,810 | 611,313 | 529,099 | 546,984 |
| | Block 5 | 116,275 | 137,949 | 122,945 | 255,322 | 150,004 | 58,814 | 153,701 | 72,106 | 51,538 | 217,708 | 148,590 | 243,507 |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 32C Inter Transpt | Block 1 | 86,168 | 86,681 | 86,022 | 76,137 | 95,975 | 86,100 | 85,970 | 85,970 | 86,100 | 85,977 | 86,146 | 86,056 |
| | Block 2 | 186,948 | 190,152 | 183,967 | 151,148 | 165,641 | 139,256 | 133,628 | 129,974 | 136,366 | 174,671 | 181,911 | 186,336 |
| | Block 3 | 110,429 | 119,568 | 107,154 | 100,000 | 104,133 | 98,403 | 96,216 | 95,461 | 97,520 | 100,747 | 109,760 | 119,222 |
| | Block 4 | 408,794 | 400,639 | 400,806 | 369,910 | 339,006 | 307,710 | 299,534 | 292,874 | 318,131 | 383,119 | 393,311 | 407,608 |
| | Block 5 | 464,636 | 521,255 | 440,319 | 292,003 | 236,727 | 201,617 | 186,172 | 176,791 | 217,740 | 331,637 | 389,599 | 484,901 |
| 201 Inton Tue | Block 6 | 580 622 | 524.008 | 638 201 | - 654 201 | 500 415 | 601.560 | 500 272 | 620.575 | 652 731 | 646.040 | - 624 671 | 506 005 |
| 32I Inter Transpt | Block 1 | 589,622 | 524,908 768 127 | 638,201 | 654,291 | 599,415 | 621,569 | 590,273 | 630,575 | 652,731 | 646,049 | 634,671 | 586,895 |
| | Block 2 Block 3 | 1,007,210 642,866 | 768,127 544,803 | 1,137,008 783,959 | 1,123,288 791,663 | 1,104,156 837,689 | 1,142,302 730,866 | 1,102,144 804,255 | 1,163,191 810,626 | 1,235,974 837,836 | 1,282,027 960,838 | 1,151,615 798,538 | 971,032 662,195 |
| | Block 3 Block 4 | 1,647,988 | 1,479,013 | 1,948,247 | 1,973,241 | 1,833,689 | 1,673,528 | 804,233 1,774,519 | 2,100,612 | 2,143,685 | 2,138,702 | 1,710,522 | 1,705,515 |
| | Block 5 | 3,466,330 | 3,319,098 | 4,661,539 | 4,771,235 | 3,855,226 | 3,610,633 | 3,323,898 | 3,996,708 | 3,674,073 | 4,527,763 | 4,178,484 | 4,062,544 |
| | Block 6 | 7,118,143 | 6,945,487 | 7,554,189 | 7,345,248 | 6,441,463 | 5,893,867 | 6,780,615 | 6,680,461 | 6,441,146 | 7,992,710 | 8,158,865 | 8,603,288 |
| Total | | 134,177,656 | 131,719,362 | 138,888,021 | 90,376,655 | 63,888,044 | 49,934,620 | 45,460,774 | 43,602,022 | 45,057,849 | 68,306,297 | 94,091,739 | 127,929,520 |
| | _ | | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | | | · | | · · · · · · · · · · · · · · · · · · · | | · · · · · · · · · · · · · · · · · · · | | |

| | <u>n</u> | ies | Actual Volu | | Actual Vo | lumes | Actual V | Volumes | Actua | l Volumes | Act | tual Volumes | |
|-------------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Rate Schedule | Block | Jan 2020 | Feb 2020 | Mar 2020 | Apr 2020 | May 2020 | Jun 2020 | Jul 2020 | Aug 2020 | Sep 2020 | Oct 2020 | Nov 2020 | Dec 2020 |
| 2 R | | 64,647,432 | 53,728,829 | 51,348,162 | 40,250,853 | 21,604,521 | 16,270,208 | 11,484,031 | 8,515,055 | 8,877,970 | 12,879,638 | 37,143,218 | 60,411,839 |
| 3 CFS | | 26,911,238 | 22,486,544 | 21,149,338 | 14,954,710 | 7,499,604 | 5,946,795 | 5,029,909 | 4,213,627 | 4,314,019 | 5,502,966 | 13,732,807 | 22,754,083 |
| 3 IFS | | 550,407 | 554,744 | 518,340 | 414,782 | 264,014 | 230,946 | 210,535 | 180,628 | 295,781 | 458,189 | 706,144 | 556,726 |
| 27 | | 225,667 | 188,093 | 172,472 | 126,698 | 54,803 | 32,126 | 13,733 | 4,918 | 4,142 | 13,513 | 72,415 | 135,046 |
| 31C Firm Sales | Block 1 | 1,320,521 | 1,316,052 | 1,304,066 | 1,156,894 | 879,272 | 700,358 | 595,964 | 492,393 | 504,705 | 687,369 | 1,152,434 | 1,256,776 |
| | Block 2 | 2,144,650 | 1,679,304 | 1,584,539 | 936,152 | 241,116 | 110,782 | 69,263 | 47,206 | 42,110 | 95,644 | 755,775 | 1,740,303 |
| 31C Firm Transpt | Block 1 | 118,005 | 116,720 | 115,739 | 111,466 | 101,716 | 85,127 | 68,698 | 65,621 | 73,319 | 111,815 | 117,650 | 117,437 |
| | Block 2 | 279,391 | 271,234 | 242,412 | 109,031 | 51,041 | 24,632 | 14,902 | 17,488 | 17,274 | 70,064 | 201,404 | 255,260 |
| 31I Firm Sales | Block 1 | 361,055 | 363,508 | 360,614 | 351,886 | 331,486 | 313,527 | 311,177 | 302,022 | 316,680 | 332,035 | 356,154 | 353,486 |
| | Block 2 | 891,967 | 838,859 | 764,348 | 686,905 | 505,452 | 451,859 | 503,790 | 434,991 | 543,032 | 688,125 | 690,262 | 874,676 |
| 31I Firm Transpt | Block 1 | 12,000 | 12,000 | 12,000 | 12,000 | 10,000 | 14,000 | 10,616 | 11,499 | 13,153 | 13,522 | 14,000 | 13,358 |
| | Block 2 | 54,478 | 54,884 | 51,130 | 24,585 | 14,553 | 18,614 | 14,524 | 16,931 | 14,600 | 29,186 | 43,612 | 44,624 |
| 32C Firm Sales | Block 1 | 4,224,408 | 3,981,857 | 3,868,770 | 3,154,751 | 2,118,907 | 1,704,813 | 1,398,122 | 1,164,470 | 1,249,711 | 1,618,325 | 2,933,666 | 3,835,229 |
| | Block 2 | 1,623,850 | 1,238,531 | 1,182,923 | 757,278 | 263,862 | 212,243 | 170,615 | 166,136 | 164,019 | 214,908 | 584,461 | 1,242,236 |
| | Block 3 | 262,082 | 164,013 | 153,533 | 74,836 | 47,481 | 20,000 | 16,688 | 21,421 | 36,855 | 40,034 | 53,707 | 191,902 |
| | Block 4 | 163,326 | 172,875 | 101,062 | 53,800 | 13,482 | 649 | - | - | 3,944 | - | 441 | 61,880 |
| | Block 5 | 10,211 | - | 3,796 | - | - | - | - | - | - | - | - | - |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | <u>-</u> |
| 32I Firm Sales | Block 1 | 522,123 | 519,085 | 506,602 | 506,984 | 489,298 | 483,315 | 505,277 | 483,385 | 499,816 | 518,063 | 531,669 | 562,663 |
| | Block 2 | 550,071 | 532,137 | 517,743 | 499,398 | 421,278 | 425,891 | 439,892 | 394,537 | 406,747 | 434,640 | 497,475 | 590,525 |
| | Block 3 | 231,398 | 182,352 | 176,923 | 154,255 | 119,360 | 124,513 | 167,150 | 159,019 | 182,318 | 170,644 | 181,449 | 197,385 |
| | Block 4 | 105,241 | 28,725 | 33,906 | 18,899 | 31,418 | 37,532 | 59,269 | 39,009 | 27,689 | 32,646 | 46,567 | 34,250 |
| | Block 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 22 C E' T | Block 6 | 200.550 | - 205 220 | - 206.544 | - 247,400 | 210.702 | 105 152 | 101.021 | 177.460 | 200.456 | 261.750 | 254 470 | - 251 007 |
| 32C Firm Transpt | Block 1 | 308,579 | 305,228 | 306,544 | 247,490 | 219,702 | 195,173 | 181,821 | 177,469 | 200,456 | 261,759 | 254,478 | 251,807 |
| | Block 2 | 309,127 | 322,056 | 286,525 | 166,230 | 128,073 | 94,062 | 79,604 | 75,354 | 101,770 | 180,938 | 181,192 | 237,307 |
| | Block 3 | 162,630 | 152,614 | 133,818 | 87,600 | 44,902 | 33,040 | 28,834 | 24,599 | 27,189 | 62,572 | 100,514 | 106,242 |
| | Block 4 | 173,043 | 163,339 | 159,037 | 49,285 | 11,748 | 12,531 | 17,890 | 13,632 | 10,846 | 70,155 | 133,624 | 112,257 |
| | Block 5 | - | - | - | - | - | - | - | - | - | - | 17,547 | - |
| 32I Firm Transpt | Block 6 | 092 647 | 002 005 | 079 097 | 017 959 | 990 792 | 046 280 | 904 441 | - 000 002 | 000 152 | 010 120 | 905 627 | 024 206 |
| 321 Firm 1 ranspt | Block 1 Block 2 | 982,647 | 982,985 | 978,087 | 917,858 1,284,030 | 889,783 | 946,389 | 894,441 | 908,882 | 900,152 | 918,138 | 895,627 | 924,206 |
| | Block 3 | 1,507,665 975,808 | 1,480,311 918,909 | 1,484,096 984,682 | 829,155 | 1,200,565 723,728 | 1,281,095 | 1,195,407 744,174 | 1,182,237 757,768 | 1,177,990 746,290 | 1,340,997 872,291 | 1,357,829 865,366 | 1,419,229 923,483 |
| | Block 4 | 1,917,150 | 1,946,360 | 2,040,465 | 1,604,314 | 1,493,087 | 829,143 1,515,593 | 1,353,316 | 1,376,473 | 1,244,927 | 1,570,840 | 1,775,757 | 1,835,826 |
| | Block 5 | 1,995,631 | 1,962,863 | 1,987,062 | 1,656,263 | 1,540,447 | 1,346,585 | 1,278,055 | 1,156,828 | 1,054,345 | 1,418,222 | 1,614,950 | 1,710,824 |
| | Block 6 | 622,215 | 583,171 | 643,093 | 372,221 | 303,883 | 229,034 | 226,460 | 234,333 | 225,584 | 383,261 | 560,868 | 762,371 |
| 32C Interr Sales | Block 1 | 440,807 | 442,981 | 432,301 | 410,991 | 364,727 | 361,804 | 323,020 | 319,559 | 329,554 | 401,287 | 424,291 | 428,142 |
| 32C Intell Sales | Block 2 | 709,171 | 712,473 | 687,008 | 557,329 | 468,016 | 430,543 | 365,723 | 365,509 | 374,052 | 591,209 | 684,344 | 723,842 |
| | Block 3 | 447,541 | 449,336 | 433,287 | 298,377 | 214,481 | 167,210 | 148,384 | 150,465 | 153,328 | 272,098 | 438,005 | 461,269 |
| | Block 4 | 648,187 | 612,262 | 625,915 | 379,562 | 273,454 | 190,336 | 160,151 | 150,632 | 170,629 | 304,602 | 661,814 | 783,921 |
| | Block 5 | 30,436 | 10,139 | 11,433 | - | 273,131 | - | - | - | - | - | 318,396 | 387,342 |
| | Block 6 | - | - | - | _ | _ | _ | _ | _ | _ | _ | - | - |
| 32I Interr Sales | Block 1 | 524,925 | 494,202 | 505,619 | 471,722 | 490,530 | 506,454 | 466,652 | 462,793 | 454,102 | 498,198 | 482,088 | 489,408 |
| S ZI IIII S WIES | Block 2 | 694,973 | 606,671 | 665,336 | 613,296 | 600,910 | 645,052 | 565,171 | 560,661 | 562,903 | 622,132 | 591,761 | 630,252 |
| | Block 3 | 362,337 | 324,634 | 385,116 | 286,992 | 283,058 | 326,075 | 265,290 | 288,888 | 232,430 | 280,309 | 325,884 | 354,975 |
| | Block 4 | 834,576 | 635,115 | 779,130 | 533,128 | 572,818 | 705,493 | 609,166 | 654,924 | 521,524 | 666,002 | 557,727 | 724,337 |
| | Block 5 | 201,019 | 278,856 | 286,128 | 58,070 | 45,459 | 323,820 | 163,750 | 193,831 | - - | 122,939 | 268,175 | 168,987 |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 32C Inter Transpt | Block 1 | 85,998 | 86,294 | 85,973 | 86,100 | 85,970 | 86,100 | 85,263 | 81,424 | 83,096 | 85,970 | 76,100 | 76,000 |
| 1 | Block 2 | 187,892 | 185,977 | 186,918 | 161,895 | 147,481 | 137,909 | 131,503 | 132,699 | 135,672 | 157,234 | 163,166 | 169,263 |
| | Block 3 | 112,118 | 104,795 | 105,738 | 100,000 | 100,000 | 100,000 | 99,898 | 95,023 | 94,371 | 100,000 | 80,000 | 85,240 |
| | Block 4 | 400,411 | 393,866 | 401,378 | 377,085 | 352,297 | 324,040 | 300,738 | 290,986 | 303,271 | 364,139 | 301,591 | 316,840 |
| | Block 5 | 461,600 | 429,616 | 441,707 | 301,272 | 263,936 | 212,930 | 193,644 | 178,455 | 176,751 | 267,646 | 50,779 | 93,178 |
| | Block 6 | - | - | - | - | - | - - | - | - | - - | - - | - | - |
| 32I Inter Transpt | Block 1 | 572,467 | 602,690 | 607,302 | 597,157 | 618,154 | 593,994 | 590,327 | 604,912 | 625,098 | 629,716 | 615,389 | 600,023 |
| • | Block 2 | 961,433 | 1,053,294 | 1,102,089 | 1,072,564 | 1,088,744 | 1,095,643 | 1,088,558 | 1,117,805 | 1,117,440 | 1,213,358 | 1,058,970 | 1,042,790 |
| | Block 3 | 694,256 | 751,080 | 738,165 | 654,166 | 722,947 | 747,950 | 749,046 | 755,175 | 745,709 | 853,310 | 712,298 | 741,782 |
| | Block 4 | 1,849,579 | 1,871,438 | 1,942,842 | 1,551,686 | 1,654,219 | 1,816,817 | 1,867,031 | 1,868,217 | 1,625,202 | 1,973,629 | 1,781,983 | 1,819,818 |
| | Block 5 | 4,395,580 | 4,238,139 | 4,450,238 | 3,459,086 | 3,779,766 | 3,248,338 | 2,984,921 | 3,223,163 | 3,409,915 | 3,882,604 | 3,837,875 | 3,955,102 |
| | Block 6 | 9,026,239 | 7,103,474 | 8,457,577 | 7,685,869 | 6,209,518 | 6,475,622 | 6,907,648 | 7,705,879 | 5,548,578 | 8,922,449 | 8,797,295 | 9,798,282 |
| Total | | 137,805,560 | 118,635,513 | 116,503,025 | 91,226,954 | 59,955,066 | 52,186,705 | 45,150,041 | 41,838,930 | 39,941,057 | 53,199,329 | 89,800,993 | 127,364,030 |
| 1 0141 | | 137,003,300 | 110,033,313 | 110,505,025 | 71,220,937 | 57,755,000 | 52,100,705 | 72,120,071 | 71,030,930 | 37,771,037 | 55,177,549 | 02,000,223 | 127,307,030 |

| Rata Sahadula | Block | Actual Volumes Jan 2021 | Feb 2021 | Actual Volumes Mar 2021 | Apr 2021 | Actual Volumes May 2021 | Jun 2021 | Actual Volum Jul 2021 | Aug 2021 | Actual Volu Sep 2021 | Oct 2021 | Nov 2021 | Dec 2021 |
|-------------------|--------------------|-------------------------|--------------------|-------------------------|----------------------|-------------------------|-------------------|-----------------------|----------------------|-------------------------|----------------------|----------------------|----------------|
| Rate Schedule | BIOCK | | | | - | | | | - | | | | |
| 2 R | | 62,188,658 | 63,074,830 | 54,861,030 | 39,656,836 | 20,508,408 | 14,920,588 | 8,711,925 | 7,661,382 | 8,809,004 | 18,088,263 | 32,674,377 | 53,821 |
| 3 CFS | | 23,856,179 | 24,298,736 | 22,006,442 | 16,482,171 | 8,844,738 | 6,953,189 | 4,892,305 | 4,589,133 | 5,064,114 | 7,731,925 | 12,812,463 | 21,051 |
| 3 IFS | | 554,594 | 565,327 | 546,901 | 469,404 | 314,341 | 271,577 | 220,800 | 221,918 | 327,301 | 518,056 | 671,898 | 531 |
| 27 | D1 1 1 | 131,346 | 129,406 | 116,385 | 86,236 | 33,945 | 17,395 | 4,280 | 774 | 3,795 | 26,909 | 80,471 | 128 |
| 31C Firm Sales | Block 1 | 1,262,349 | 1,253,286 | 1,264,410 | 1,223,170 | 1,047,486 | 881,197 | 572,245 | 505,150 | 587,893 | 920,887 | 1,151,436 | 1,247 |
| 1.C Einn Transat | Block 2 | 1,794,587 | 1,755,181 | 1,684,323 | 1,091,696 | 334,427 | 156,014 | 45,265 | 36,856 | 60,825 | 227,556 | 725,326 | 1,571 |
| 1C Firm Transpt | Block 1 Block 2 | 117,620 235,744 | 117,455 238,689 | 117,953 213,003 | 115,871 90,726 | 106,226 31,897 | 71,247 13,542 | 58,922 15,935 | 60,805 16,236 | 76,393 19,216 | 115,687 84,248 | 117,838 152,725 | 118 |
| 311 Firm Sales | Block 1 | 357,312 | 353,869 | 354,897 | 347,461 | 333,253 | 321,969 | 309,651 | 310,490 | 324,741 | 351,025 | 351,321 | 303 340 |
| 311 Firm Sales | Block 2 | 873,665 | 866,361 | 818,171 | 729,976 | 577,664 | 584,277 | 513,381 | 488,253 | 628,483 | 760,548 | 714,527 | 835 |
| 311 Firm Transpt | Block 1 | 14,000 | 14,000 | 14,000 | 13,530 | 12,131 | 11,864 | 10,680 | 11,610 | 13,440 | 14,000 | 14,000 | 13 |
| orr rum rranspt | Block 2 | 40,076 | 40,865 | 41,117 | 28,817 | 21,568 | 13,272 | 16,925 | 17,802 | 20,226 | 33,316 | 39,929 | 56 |
| 32C Firm Sales | Block 1 | 3,864,404 | 3,836,745 | 3,777,300 | 3,358,247 | 2,503,111 | 2,048,669 | 1,410,233 | 1,297,037 | 1,485,900 | 2,211,542 | 3,048,227 | 3,785 |
| 320 1 mm Suics | Block 2 | 1,366,802 | 1,360,460 | 1,327,918 | 857,901 | 419,219 | 282,179 | 184,493 | 181,947 | 185,614 | 298,374 | 658,093 | 1,228 |
| | Block 3 | 229,002 | 195,542 | 221,319 | 179,542 | 47,751 | 42,801 | 43,675 | 30,671 | 41,292 | 61,072 | 80,583 | 158 |
| | Block 4 | 27,564 | 61,791 | 116,404 | 173,352 | (90,256) | - | - | - | - | 24,815 | 9,052 | 22 |
| | Block 5 | - | - | - | 306,319 | (306,319) | _ | _ | <u>-</u> | _ | - | - | 22 |
| | Block 6 | - | - | _ | - | - | _ | _ | _ | - | _ | _ | |
| 32I Firm Sales | Block 1 | 554,617 | 548,597 | 539,851 | 533,332 | 503,837 | 481,867 | 485,393 | 504,709 | 515,621 | 546,327 | 534,457 | 559 |
| | Block 2 | 557,736 | 534,135 | 528,260 | 472,714 | 427,554 | 395,355 | 398,739 | 421,857 | 423,888 | 457,880 | 442,331 | 580 |
| | Block 3 | 174,166 | 142,018 | 164,093 | 138,705 | 133,297 | 137,637 | 155,810 | 145,800 | 185,472 | 157,008 | 114,639 | 147 |
| | Block 4 | 45,602 | 29,240 | 33,244 | 19,811 | 18,733 | 13,626 | 50,898 | 48,748 | 63,643 | 51,664 | 8,337 | 21 |
| | Block 5 | - | - | - | - | - | - | - | - | - | <u>-</u> | - | |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | |
| 2C Firm Transpt | Block 1 | 251,646 | 249,882 | 260,553 | 239,857 | 220,885 | 176,881 | 163,636 | 165,749 | 187,186 | 217,311 | 234,485 | 248 |
| _ | Block 2 | 229,123 | 245,348 | 272,821 | 204,103 | 121,413 | 89,040 | 83,257 | 93,203 | 100,948 | 173,800 | 197,522 | 267 |
| | Block 3 | 100,663 | 100,308 | 108,387 | 79,785 | 40,000 | 34,033 | 20,000 | 28,769 | 40,000 | 47,926 | 74,194 | 105 |
| | Block 4 | 130,015 | 156,798 | 153,272 | 49,891 | 17,313 | 15,930 | 17,403 | 16,127 | 27,800 | 70,903 | 107,112 | 186 |
| | Block 5 | - | - | - | - | - | - | - | - | - | - | - | 4 |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | |
| 32I Firm Transpt | Block 1 | 917,783 | 918,450 | 930,738 | 929,731 | 926,596 | 924,688 | 912,176 | 919,820 | 933,710 | 942,755 | 943,474 | 933, |
| | Block 2 | 1,419,870 | 1,379,807 | 1,451,875 | 1,356,291 | 1,321,398 | 1,235,770 | 1,215,517 | 1,256,789 | 1,281,119 | 1,399,573 | 1,424,791 | 1,498. |
| | Block 3 | 942,143 | 923,898 | 964,509 | 856,944 | 821,158 | 800,306 | 775,799 | 809,829 | 797,749 | 842,439 | 891,088 | 973 |
| | Block 4 | 1,973,303 | 1,904,908 | 2,103,859 | 1,786,742 | 1,703,965 | 1,484,575 | 1,367,809 | 1,482,099 | 1,500,462 | 1,762,311 | 1,814,144 | 2,070 |
| | Block 5 | 1,843,886 | 1,786,775 | 1,756,768 | 1,439,395 | 1,399,670 | 1,119,691 | 1,280,460 | 1,263,907 | 1,440,256 | 1,837,778 | 1,894,398 | 2,211 |
| | Block 6 | 755,630 | 606,269 | 705,271 | 484,531 | 452,306 | 325,301 | 316,935 | 315,716 | 317,022 | 475,003 | 531,510 | 904 |
| 32C Interr Sales | Block 1 | 427,006 | 424,591 | 426,056 | 412,756 | 399,723 | 333,348 | 335,176 | 338,653 | 367,873 | 408,536 | 436,313 | 431 |
| | Block 2 | 732,506 | 672,792 | 723,910 | 615,792 | 540,021 | 405,027 | 359,664 | 392,729 | 439,547 | 608,595 | 678,153 | 740 |
| | Block 3 | 463,812 | 416,839 | 471,306 | 333,535 | 245,616 | 162,184 | 166,944 | 169,485 | 179,010 | 348,415 | 417,009 | 534 |
| | Block 4 | 771,801 | 597,556 | 726,523 | 430,640 | 352,655 | 237,691 | 229,846 | 236,240 | 256,832 | 434,121 | 535,870 | 903 |
| | Block 5 | 360,033 | 296,847 | 333,786 | 250,375 | 237,595 | 167,746 | 157,583 | 152,737 | 169,207 | 261,360 | 288,292 | 453 |
| 2211 | Block 6 | - 502.520 | 404 176 | - 546.545 | 406,000 | 464 415 | 400.100 | 457.104 | - 444.720 | 465,000 | - | | 710 |
| 32I Interr Sales | Block 1 | 502,530 | 484,176 | 546,545 | 486,989 | 464,415 | 480,192 | 457,194 | 444,739 | 465,908 | 484,011 | 507,189 | 518 |
| | Block 2 | 650,975 | 601,189 | 746,983 | 624,884 | 580,283 | 625,946 | 574,030 | 557,437 | 577,762 | 624,587 | 646,809 | 695 479 |
| | Block 3 | 371,489 | 323,621 | 467,931 | 330,929 | 302,639 | 309,138 | 316,920 | 261,396 | 308,693 | 315,019 | 382,881 | 478 |
| | Block 4 | 722,435 | 689,964 | 1,251,962 | 912,100 | 739,604 | 861,697 | 719,526 | 665,478 | 612,898 | 756,401 | 1,006,688 | 1,071 |
| | Block 5 | 266,183 | 136,999 | 463,716 | 145,970 | 251,569 | 67,330 | 138,557 | 268,706 | (225,818) | 172,747 | 341,790 | 481 |
| 2C Inter Transpt | Block 6 | 75,970 | - 60 160 | 83,170 | 76 100 | 75,970 | 76,100 | 73 5/17 | 75,832 | 76,100 | 75,970 | - 66 100 | 65 |
| 20 mer Franspt | Block 1 Block 2 | | 69,160 160,964 | | 76,100 148 406 | | | 73,547 | | 76,100 117,595 | | 66,100 | |
| | Block 2 Block 3 | 171,884 86,019 | 89,744 | 181,128 87,645 | 148,406 80,000 | 129,497 80,000 | 113,954 73,458 | 112,582 72,226 | 111,337 70,500 | 73,546 | 142,645 80,000 | 137,844 80,000 | 158 90 |
| | Block 3 Block 4 | 314,283 | 89,744 296,616 | 87,645 298,332 | | 251,648 | 73,438 188,472 | | 70,500 182,795 | 73,546 204,757 | | 80,000 273,892 | 90 297 |
| | Block 4 Block 5 | 91,701 | 296,616 84,905 | 298,332 84,567 | 267,903 22,150 | 251,648 15,050 | 100,4/2 | 182,910 | 104,/93 | 40 4 ,/3/ | 268,130 16,877 | 35,762 | 125 |
| | Block 6 | 91,/01 | 04,903 | 04,30/ | 22,150 | 13,030 | - | - | - | - | 16,8// | 33,762 | 123 |
| 32I Inter Transpt | Block 1 | 582,490 | 569,293 | 607,725 | 504 852 | 592,553 | 605,831 | 606.010 | 623,094 | 626,420 | | 588,562 | 582 |
| 521 mici 1 fanspi | Block 1 Block 2 | | 922,130 | 1,080,211 | 594,853 1 075 494 | 1,090,233 | 1,091,108 | 606,019 | 1,159,003 | 1,158,212 | 636,589 | 388,362 1,018,665 | 902 |
| | Block 2 Block 3 | 990,171 691,944 | 667,915 | 786,845 | 1,075,494 774,836 | 743,160 | 771,537 | 1,116,308 761,275 | 1,139,003 862,977 | 863,784 | 1,169,357 855,845 | 673,849 | 902 62° |
| | Block 3 Block 4 | 1,805,458 | 1,666,820 | 2,058,159 | 1,753,651 | 1,720,035 | 1,768,719 | 1,685,050 | 1,857,579 | 1,828,866 | 833,843 1,872,691 | 1,531,462 | |
| | Block 5 | 4,095,184 | 3,304,612 | 4,688,280 | 3,872,020 | 3,921,694 | 3,084,220 | 3,015,124 | 3,460,129 | 3,618,655 | 4,002,106 | 3,732,399 | 1,601 4,002 |
| | | 9,672,952 | 8,940,959 | 9,390,178 | 8,262,980 | 7,443,941 | 6,972,347 | 7,393,012 | 7,673,906 | 7,126,016 | 7,711,579 | 9,197,076 | 9,928 |
| | Block 6 | | | | | | | | | | | | |

| | | Actual Sch. 197 Rever | | Actual Sch. 197 Revenues | | Actual Sch. 197 Revenues | | Actual Sch. 197 Revenues | | Actual Sch. 197 Revenues | | | etual Sch. 197 Rev |
|-------------------|--------------------|-----------------------|----------------|--------------------------|----------------|--------------------------|----------------|--------------------------|--------------|--------------------------|----------------|----------------|--------------------|
| Rate Schedule | Block | Jan 2018 | Feb 2018 | Mar 2018 | Apr 2018 | May 2018 | Jun 2018 | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 |
| 2 R | | 677,436 | 498,653 | 537,686 | 392,306 | 204,160 | 122,078 | 92,290 | 73,176 | 86,882 | 139,213 | 279,136 | 542,384 |
| 3 CFS | | 197,676 | 143,751 | 158,766 | 116,422 | 66,707 | 46,140 | 39,003 | 33,424 | 37,221 | 47,265 | 78,614 | 154,067 |
| 3 IFS | | 3,450 | 2,892 | 3,123 | 2,603 | 1,707 | 1,347 | 1,265 | 1,336 | 2,162 | 2,203 | 3,280 | 3,023 |
| 27 | | 1,515 | 1,078 | 1,175 | 843 | 411 | 139 | 67 | 36 | 58 | 186 | 628 | 1,362 |
| 31C Firm Sales | Block 1 | 6,763 | 6,698 | 6,692 | 6,564 | 5,714 | 4,290 | 3,491 | 2,956 | 3,324 | 4,430 | 5,824 | 6,346 |
| | Block 2 | 11,322 | 7,272 | 8,577 | 5,554 | 2,004 | 785 | 523 | 305 | 358 | 683 | 2,444 | 7,293 |
| 31C Firm Transpt | Block 1 | 505 | 564 | 518 | 531 | 436 | 377 | 289 | 303 | 356 | 497 | 545 | 561 |
| | Block 2 | 967 | 1,059 | 877 | 533 | 179 | 100 | 85 | 94 | 114 | 267 | 785 | 1,220 |
| 311 Firm Sales | Block 1 | 2,322 | 2,420 | 2,373 | 2,386 | 2,301 | 2,150 | 2,102 | 2,058 | 2,230 | 2,386 | 2,326 | 2,348 |
| 211 F' T | Block 2 Block 1 | 5,785 | 4,847 | 4,848 | 4,300 | 3,341 | 3,159 | 3,294 | 3,018 | 3,882 | 5,377 | 3,758 | 4,998 |
| 31I Firm Transpt | Block 2 | 40 165 | 40 162 | 40 145 | 95 | 40 51 | 39 42 | 31 35 | 30 35 | 50 | 32 60 | 48 138 | 48 164 |
| 32C Firm Sales | Block 1 | 8,744 | 7,954 | 8,189 | 7,428 | 5,623 | 4,209 | 3,526 | 2,798 | 3,410 | 4,505 | 6,100 | 8,305 |
| 32C I IIII Sales | Block 2 | 3,673 | 2,197 | 2,647 | 1,622 | 723 | 462 | 420 | 296 | 468 | 594 | 1,036 | 2,484 |
| | Block 3 | 346 | 137 | 184 | 120 | 30 | 34 | 36 | 40 | 37 | 48 | 74 | 230 |
| | Block 4 | 6 | (2) | 11 | - | - | - | - | - | - | - | 19 | 33 |
| | Block 5 | <u>-</u> | - | - | - | - | - | - | - | - | - | - | - |
| | Block 6 | - | - | - | - | - | _ | - | - | - | - | _ | - |
| 32I Firm Sales | Block 1 | 1,004 | 1,029 | 1,042 | 1,009 | 992 | 1,002 | 1,012 | 885 | 1,096 | 1,071 | 956 | 1,007 |
| | Block 2 | 1,094 | 997 | 1,013 | 986 | 915 | 836 | 887 | 639 | 889 | 850 | 773 | 933 |
| | Block 3 | 257 | 230 | 218 | 190 | 200 | 193 | 210 | 164 | 235 | 195 | 144 | 198 |
| | Block 4 | 68 | 45 | 67 | 48 | 51 | 41 | 64 | 46 | 51 | 35 | 35 | 29 |
| | Block 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Block 6 | - | - | | - | - | - | - | <u>-</u> | - | - | - | |
| 32C Firm Transpt | Block 1 | 1,151 | 1,131 | 1,127 | 999 | 707 | 636 | 505 | 544 | 643 | 702 | 1,183 | 1,190 |
| | Block 2 | 492 | 530 | 524 | 432 | 206 | 187 | 177 | 216 | 220 | 269 | 513 | 505 |
| | Block 3 Block 4 | 192 94 | 172 92 | 195 82 | 91 31 | 12 | 39 | 37 | 67 11 | 34 | 66 | 186 45 | 179 74 |
| | Block 5 | 94 | | 82 | 31 | - | / | 3 | 11 | 1 | 4 | 43 | /4 |
| | Block 6 | - - | - | - - | - | - | - | <u>-</u> | - - | <u>-</u> | - | - | - |
| 32I Firm Transpt | Block 1 | 1,992 | 2,007 | 2,012 | 1,968 | 1,949 | 1,944 | 1,899 | 1,917 | 1,812 | 1,663 | 2,322 | 2,172 |
| 3211 Hill Transpt | Block 2 | 2,555 | 2,498 | 2,530 | 2,339 | 2,237 | 2,102 | 2,078 | 2,138 | 2,044 | 1,953 | 2,927 | 2,816 |
| | Block 3 | 1,178 | 1,101 | 1,105 | 1,010 | 957 | 912 | 912 | 946 | 846 | 872 | 1,334 | 1,322 |
| | Block 4 | 1,444 | 1,327 | 1,386 | 1,216 | 1,139 | 1,045 | 965 | 1,035 | 911 | 1,021 | 1,406 | 1,506 |
| | Block 5 | 804 | 770 | 821 | 773 | 705 | 602 | 602 | 599 | 549 | 542 | 937 | 954 |
| | Block 6 | 112 | 100 | 109 | 55 | 26 | 12 | 9 | 7 | 15 | - | 112 | 131 |
| 32C Interr Sales | Block 1 | 1,087 | 1,120 | 1,131 | 1,078 | 1,023 | 925 | 842 | 836 | 934 | 1,061 | 1,062 | 1,089 |
| | Block 2 | 1,495 | 1,465 | 1,490 | 1,245 | 1,075 | 888 | 788 | 803 | 915 | 1,161 | 1,320 | 1,469 |
| | Block 3 | 620 | 590 | 664 | 483 | 340 | 246 | 202 | 203 | 233 | 378 | 558 | 641 |
| | Block 4 | 525 | 484 | 558 | 276 | 240 | 130 | 106 | 113 | 137 | 209 | 407 | 583 |
| | Block 5 | 5 | 1 | - | - | - | - | - | - | - | - | - | 3 |
| 221 1 | Block 6 | 1 120 | 1 217 | 1 170 | 1 110 | 1 127 | 1 000 | 1.057 | - 000 | 1 000 | 1 002 | 1 112 | 1.070 |
| 32I Interr Sales | Block 1 Block 2 | 1,130 1,178 | 1,217 1,221 | 1,170 1,291 | 1,119 1,185 | 1,127 1,237 | 1,088 1,127 | 1,057 1,099 | 988 1,086 | 1,090 1,146 | 1,093 1,157 | 1,112 1,117 | 1,078 |
| | Block 3 | 440 | 455 | 520 | 419 | 395 | 373 | 326 | 330 | 367 | 398 | 366 | 1,114 378 |
| | Block 4 | 589 | 499 | 668 | 518 | 578 | 528 | 465 | 474 | 415 | 403 | 384 | 344 |
| | Block 5 | 148 | 78 | 140 | 133 | 73 | 105 | 25 | 20 | 44 | 46 | 18 | 51 |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 32C Inter Transpt | Block 1 | 133 | 134 | 133 | 133 | 133 | 133 | 133 | 133 | 133 | 133 | 166 | 166 |
| • | Block 2 | 258 | 257 | 258 | 240 | 213 | 204 | 194 | 197 | 204 | 192 | 322 | 305 |
| | Block 3 | 139 | 138 | 121 | 116 | 116 | 113 | 110 | 109 | 110 | 93 | 140 | 126 |
| | Block 4 | 273 | 261 | 265 | 247 | 220 | 205 | 188 | 194 | 210 | 233 | 261 | 274 |
| | Block 5 | 160 | 153 | 155 | 120 | 91 | 78 | 69 | 71 | 85 | 101 | 144 | 185 |
| | Block 6 | <u> </u> | - | - | - | - | - | - | - | - | - | - | _ |
| 32I Inter Transpt | Block 1 | 1,146 | 1,243 | 1,248 | 1,245 | 1,302 | 1,233 | 1,286 | 1,234 | 1,235 | 1,190 | 1,256 | 1,231 |
| | Block 2 | 1,748 | 1,910 | 1,990 | 1,966 | 2,014 | 1,946 | 2,064 | 1,994 | 1,948 | 1,944 | 1,863 | 1,566 |
| | Block 3 | 973 | 950 | 985 | 951 | 1,052 | 912 | 1,010 | 997 | 938 | 974 | 899 | 694 |
| | - · | 1,347 | 1,373 | 1,402 | 1,322 | 1,330 | 1,282 | 1,378 | 1,464 | 1,303 | 1,204 | 1,216 | 1,044 |
| | Block 4 | | 4 - 40 | 4 === | 4 / 4 / | | | | | | | 1 / 2 / | 1 747 |
| | Block 5 | 1,706 | 1,543 | 1,728 | 1,626 | 1,495 | 1,386 | 1,433 | 1,392 | 1,363 | 1,236 | 1,624 | 1,362 |
| | | 1,706 1,433 | 1,160 | 1,542 | 1,270 | 1,429 | 1,340 | 1,221 | 1,211 | 1,148 | 816 | 1,855 | 1,321 |
| Total | Block 5 | 1,706 | | | | | | | | | | | |

 Annual
 5,403,877

 Authorized
 5,000,000

 Variance
 403,877

Schedule 182 Revenue Analys

| D / C / | _ | enues | Actual Sch. 197 Revenues | | | | | 1. 197 Revenues | | Sch. 197 Revenues | | tual Sch. 197 Revenu | |
|-------------------|--------------------|--------------|--------------------------|---------------|--------------|--------------|------------|-----------------|------------|-------------------|--------------|----------------------|----------|
| Rate Schedule | Block | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | Jun 2019 | Jul 2019 | Aug 2019 | Sep 2019 | Oct 2019 | Nov 2019 | Dec 2019 |
| 2 R | | 630,783 | 624,073 | 640,780 | 339,792 | 201,150 | 128,913 | 95,882 | 77,916 | 84,056 | 202,305 | 370,169 | 582,63 |
| 3 CFS | | 183,075 | 182,672 | 194,084 | 104,132 | 66,268 | 48,182 | 40,959 | 35,334 | 36,661 | 61,082 | 106,973 | 166,53 |
| 3 IFS | | 3,451 | 3,596 | 3,740 | 2,566 | 1,952 | 1,459 | 1,475 | 1,408 | 1,950 | 3,536 | 4,290 | 3,32 |
| 27 | DI 1.1 | 1,528 | 1,459 | 1,457 | 760 | 397 | 183 | 62 | 41 | 59 | 310 | 825 | 1,4 |
| 31C Firm Sales | Block 1 Block 2 | 6,369 | 6,342 | 6,437 | 6,314 | 5,525 | 4,354 | 3,537 | 3,053 | 3,239 | 5,131 | 6,104 | 6,2 |
| 31C Firm Transpt | Block 1 | 9,240 540 | 8,980 532 | 10,163 372 | 4,280 480 | 1,808 383 | 723 303 | 499 258 | 354 257 | 315 344 | 1,288 427 | 4,133 | 8,3 |
| ore rum rranspi | Block 2 | 1,233 | 1,339 | 737 | 550 | 168 | 97 | 81 | 77 | 141 | 548 | 772 | 1,0 |
| 311 Firm Sales | Block 1 | 2,347 | 2,347 | 2,365 | 2,250 | 2,221 | 2,093 | 2,024 | 2,033 | 2,141 | 2,273 | 2,304 | 2,3 |
| | Block 2 | 5,227 | 5,149 | 5,404 | 3,905 | 3,283 | 3,303 | 2,920 | 2,786 | 3,505 | 4,826 | 5,262 | 5,0 |
| 31I Firm Transpt | Block 1 | 40 | 40 | 40 | 40 | 40 | 37 | 31 | 30 | 39 | 40 | 48 | , |
| | Block 2 | 160 | 179 | 137 | 96 | 60 | 45 | 34 | 36 | 44 | 120 | 163 | 2 |
| 32C Firm Sales | Block 1 | 8,840 | 8,666 | 9,233 | 7,848 | 6,077 | 4,672 | 3,916 | 3,410 | 3,537 | 5,772 | 7,797 | 9,0 |
| | Block 2 | 3,106 | 3,102 | 3,612 | 1,744 | 851 | 520 | 464 | 448 | 435 | 771 | 1,477 | 2,74 |
| | Block 3 | 344 | 275 | 412 | 120 | 47 | 42 | 48 | 65 | 64 | 109 | 101 | 30 |
| | Block 4 | 36 | 26 | 50 | 5 | - | - | - | - | - | 41 | 32 | 1 |
| | Block 5 | - | - | - | - | - | - | - | - | - | - | 24 | - |
| 221 5' 0.1 | Block 6 | - 000 | - 002 | 1 000 | 1.040 | 1 001 | - 064 | - | 1.056 | 1.056 | 1 1/2 | 1 125 | 1.0 |
| 32I Firm Sales | Block 1 Block 2 | 980 | 982 972 | 1,008 907 | 1,040 | 1,001 | 964 731 | 996 800 | 1,056 | 1,056 | 1,163 | 1,135 | 1,0 |
| | Block 2 Block 3 | 915 208 | 972 194 | 907 199 | 824 164 | 783 173 | 731 178 | 809 224 | 833 262 | 829 236 | 975 243 | 990 241 | 1,0 2 |
| | Block 4 | 31 | 18 | 27 | 20 | 54 | 29 | 42 | 140 | 119 | 60 | 49 | |
| | Block 5 | - | - | - | - | - - | - | ⊤ ∠ | 89 | 223 | - | - - | _ |
| | Block 6 | - | - | - | - | <u>-</u> | _ | - | - | - | - | - | _ |
| 32C Firm Transpt | Block 1 | 1,190 | 1,221 | 619 | 576 | 523 | 441 | 375 | 413 | 463 | 554 | 602 | 62 |
| 1 | Block 2 | 512 | 554 | 546 | 410 | 299 | 204 | 157 | 232 | 259 | 425 | 472 | 5 |
| | Block 3 | 183 | 195 | 169 | 102 | 59 | 37 | 11 | 63 | 45 | 146 | 177 | 1 |
| | Block 4 | 105 | 145 | 91 | 32 | 8 | 4 | - | 17 | 6 | 36 | 75 | 1 |
| | Block 5 | - | 0 | - | - | - | - | - | - | - | - | - | - |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | |
| 32I Firm Transpt | Block 1 | 2,110 | 1,976 | 2,174 | 2,169 | 2,051 | 2,010 | 1,990 | 1,908 | 2,031 | 2,009 | 2,027 | 2,0 |
| | Block 2 | 2,772 | 2,592 | 2,885 | 2,674 | 2,451 | 2,303 | 2,239 | 2,159 | 2,248 | 2,518 | 2,561 | 2,5 |
| | Block 3 | 1,324 | 1,204 | 1,364 | 1,286 | 1,085 | 993 | 1,000 | 986 | 991 | 1,119 | 1,150 | 1,1 |
| | Block 4 | 1,463 | 1,343 | 1,525 | 1,498 | 1,172 | 1,070 | 1,051 | 990 | 1,090 | 1,322 | 1,377 | 1,3 |
| | Block 5 Block 6 | 814 139 | 858 135 | 941 109 | 749 58 | 669 39 | 600 26 | 599 29 | 583 32 | 568 41 | 744 85 | 757 109 | 8. |
| 32C Interr Sales | Block 1 | 1,071 | 1,085 | 971 | 1,098 | 896 | 837 | 732 | 751 | 845 | 1,002 | 982 | 9 |
| 32C Interi Sales | Block 2 | 1,432 | 1,424 | 1,199 | 1,281 | 1,001 | 846 | 744 | 709 | 912 | 1,260 | 1,306 | 1,4 |
| | Block 3 | 664 | 596 | 510 | 496 | 367 | 227 | 206 | 199 | 225 | 518 | 564 | 6 |
| | Block 4 | 592 | 463 | 341 | 315 | 182 | 123 | 123 | 119 | 154 | 327 | 421 | 5- |
| | Block 5 | 9 | - | - | - | - | - | - | - | - | - | - | |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 32I Interr Sales | Block 1 | 1,104 | 1,039 | 1,100 | 1,176 | 1,064 | 1,068 | 1,048 | 1,047 | 1,031 | 1,069 | 1,026 | 1,1 |
| | Block 2 | 1,208 | 1,009 | 1,091 | 1,309 | 1,168 | 1,074 | 1,008 | 1,026 | 990 | 1,124 | 1,000 | 1,2 |
| | Block 3 | 449 | 377 | 396 | 481 | 360 | 301 | 306 | 265 | 313 | 385 | 329 | 4 |
| | Block 4 | 495 | 442 | 436 | 645 | 451 | 330 | 383 | 387 | 288 | 452 | 392 | 40 |
| | Block 5 | 49 | 58 | 52 | 107 | 63 | 25 | 65 | 30 | 22 | 91 | 62 | 1 |
| 220 I | Block 6 | - | - 175 | - | - 147 | 105 | - 1// | - 177 | - | - | - 177 | 1// | - |
| 32C Inter Transpt | Block 1 | 166 | 167 | 166 | 147 | 185 | 166 | 166 | 166 | 166 | 166 | 166 | 10 30 |
| | Block 2 Block 3 | 307 | 312 139 | 302 124 | 248 116 | 272 | 228 114 | 219 112 | 213 | 224 113 | 286 117 | 298 127 | 1 |
| | Block 4 | 128 274 | 268 | 124 269 | 248 | 121 227 | 206 | 201 | 111 196 | 213 | 257 | 127 264 | 2 |
| | Block 5 | 181 | 203 | 172 | 114 | 92 | 79 | 73 | 69 | 85 | 129 | 152 | 1 |
| | Block 6 | - | 203 | - | - | - | - | - | - | - | - | - | - |
| 32I Inter Transpt | Block 1 | 1,138 | 1,013 | 1,232 | 1,263 | 1,157 | 1,200 | 1,139 | 1,217 | 1,260 | 1,247 | 1,225 | 1,1 |
| r - | Block 2 | 1,652 | 1,260 | 1,865 | 1,842 | 1,811 | 1,873 | 1,808 | 1,908 | 2,027 | 2,103 | 1,889 | 1,5 |
| | Block 3 | 746 | 632 | 909 | 918 | 972 | 848 | 933 | 940 | 972 | 1,115 | 926 | 7 |
| | Block 4 | 1,104 | 991 | 1,305 | 1,322 | 1,229 | 1,121 | 1,189 | 1,407 | 1,436 | 1,433 | 1,146 | 1,1 |
| | Block 5 | 1,352 | 1,294 | 1,818 | 1,861 | 1,504 | 1,408 | 1,296 | 1,559 | 1,433 | 1,766 | 1,630 | 1,5 |
| | Block 6 | 1,352 | 1,320 | 1,435 | 1,396 | 1,224 | 1,120 | 1,288 | 1,269 | 1,224 | 1,519 | 1,550 | 1,6. |
| Total | | 884,538 | 875,257 | 907,276 | 502,866 | 314,938 | 217,712 | 174,750 | 150,600 | 160,668 | 316,343 | 538,087 | 817,5 |
| | | , | - · · ·)—- · | , – | ,000 | - ,,, , | .,,.== | . ,, | ,, , , , | | | Annual | 5,860,53 |

 Annual
 5,860,538

 Authorized
 5,000,000

 Variance
 860,538

| | | Actual Sch. 197 Rev | | Actual Sch. 197 Revenues | | Actual Sch. 197 Revenues | | Actual Sch. 197 Revenues | | Actual Sch. 197 Revenue | | | tual Sch. 197 I |
|----------------------|--------------------|---------------------|----------------|--------------------------|----------------|--------------------------|----------------|--------------------------|--------------|-------------------------|----------------|----------------|-----------------|
| Rate Schedule | Block | Jan 2020 | Feb 2020 | Mar 2020 | Apr 2020 | May 2020 | Jun 2020 | Jul 2020 | Aug 2020 | Sep 2020 | Oct 2020 | Nov 2020 | Dec 2020 |
| 2 R | | 630,959 | 524,393 | 501,158 | 392,848 | 210,860 | 158,797 | 112,084 | 83,107 | 86,649 | 125,705 | 362,518 | 589, |
| 3 CFS | | 185,688 | 155,157 | 145,930 | 103,187 | 51,747 | 41,033 | 34,706 | 29,074 | 29,767 | 37,970 | 94,756 | 157,0 |
| 3 IFS | | 3,225 | 3,251 | 3,037 | 2,431 | 1,547 | 1,353 | 1,234 | 1,058 | 1,733 | 2,685 | 4,138 | 3,2 |
| 27 31C Firm Sales | Block 1 | 1,602 | 1,335 | 1,225 6,260 | 900 | 389 | 228 | 98 | 35 | 29 | 96 | 514 | 6,0 |
| | Block 1 | 6,338 9,394 | 6,317 7,355 | 6,940 | 5,553 4,100 | 4,221 1,056 | 3,362 485 | 2,861 303 | 2,363 207 | 2,423 184 | 3,299 419 | 5,532 3,310 | 7,6 |
| 31C Firm Transpt | Block 1 | 435 | 431 | 427 | 411 | 375 | 314 | 253 | 242 | 271 | 413 | 434 | 7,0 |
| 1 | Block 2 | 933 | 906 | 810 | 364 | 170 | 82 | 50 | 58 | 58 | 234 | 673 | 8 |
| 311 Firm Sales | Block 1 | 2,231 | 2,246 | 2,229 | 2,175 | 2,049 | 1,938 | 1,923 | 1,866 | 1,957 | 2,052 | 2,201 | 2,1 |
| | Block 2 | 5,031 | 4,731 | 4,311 | 3,874 | 2,851 | 2,548 | 2,841 | 2,453 | 3,063 | 3,881 | 3,893 | 4,9 |
| 31I Firm Transpt | Block 1 | 48 | 48 | 48 | 48 | 40 | 56 | 42 | 46 | 52 | 54 | 56 | |
| 22 G F : G 1 | Block 2 | 196 | 197 | 184 | 88 | 52 | 67 | 52 | 61 | 52 | 105 | 157 | |
| 32C Firm Sales | Block 1 Block 2 | 9,758 | 9,198 | 8,937 | 7,287 | 4,895 | 3,938 | 3,230 | 2,690 | 2,887 | 3,738 | 6,777 | 8,8 |
| | Block 2 Block 3 | 3,183 364 | 2,428 228 | 2,319 213 | 1,484 104 | 517 66 | 416 28 | 334 23 | 326 30 | 321 51 | 421 56 | 1,146 75 | 2,4 |
| | Block 4 | 132 | 140 | 82 | 44 | 11 | 1 | - | - | 3 | - | 0 | 2 |
| | Block 5 | 5 | - | 2 | - | - | - | - | _ | <u>-</u> | - | - | |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | |
| 32I Firm Sales | Block 1 | 1,154 | 1,147 | 1,120 | 1,120 | 1,081 | 1,068 | 1,117 | 1,068 | 1,105 | 1,145 | 1,175 | 1,2 |
| | Block 2 | 1,034 | 1,000 | 973 | 939 | 792 | 801 | 827 | 742 | 765 | 817 | 935 | 1,1 |
| | Block 3 | 305 | 241 | 234 | 204 | 158 | 164 | 221 | 210 | 241 | 225 | 240 | 2 |
| | Block 4 | 81 | 22 | 26 | 15 | 24 | 29 | 46 | 30 | 21 | 25 | 36 | |
| | Block 5 Block 6 | - | - | - | - | - | - | - | - | - | - | - | |
| 32C Firm Transpt | Block 1 | 636 | 629 | 631 | 510 | 453 | 402 | 375 | 366 | 413 | 539 | 524 | |
| oze i iiii i ianspi | Block 2 | 541 | 564 | 501 | 291 | 224 | 165 | 139 | 132 | 178 | 317 | 317 | 2 |
| | Block 3 | 202 | 189 | 166 | 109 | 56 | 41 | 36 | 31 | 34 | 78 | 125 | 1 |
| | Block 4 | 125 | 118 | 115 | 35 | 8 | 9 | 13 | 10 | 8 | 51 | 96 | |
| | Block 5 | - | - | - | - | - | - | - | - | - | - | 7 | - |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 32I Firm Transpt | Block 1 | 2,024 | 2,025 | 2,015 | 1,891 | 1,833 | 1,950 | 1,843 | 1,872 | 1,854 | 1,891 | 1,845 | 1,9 |
| | Block 2 | 2,638 | 2,591 | 2,597 | 2,247 | 2,101 | 2,242 | 2,092 | 2,069 | 2,061 | 2,347 | 2,376 | 2,4 |
| | Block 3 Block 4 | 1,210 1,380 | 1,139 1,401 | 1,221 1,469 | 1,028 1,155 | 897 1,075 | 1,028 1,091 | 923 974 | 940 991 | 925 896 | 1,082 1,131 | 1,073 1,279 | 1,1 1,3 |
| | Block 5 | 818 | 805 | 815 | 679 | 632 | 552 | 524 | 474 | 432 | 581 | 662 | 7,3 |
| | Block 6 | 131 | 122 | 135 | 78 | 64 | 48 | 48 | 49 | 47 | 80 | 118 | 1 |
| 32C Interr Sales | Block 1 | 992 | 997 | 973 | 925 | 821 | 814 | 727 | 719 | 741 | 903 | 955 | 9 |
| | Block 2 | 1,355 | 1,361 | 1,312 | 1,064 | 894 | 822 | 699 | 698 | 714 | 1,129 | 1,307 | 1,3 |
| | Block 3 | 604 | 607 | 585 | 403 | 290 | 226 | 200 | 203 | 207 | 367 | 591 | ϵ |
| | Block 4 | 512 | 484 | 494 | 300 | 216 | 150 | 127 | 119 | 135 | 241 | 523 | 6 |
| | Block 5 | 14 | 5 | 5 | - | - | - | - | - | - | - | 143 | 1 |
| 32I Interr Sales | Block 6 Block 1 | 1,108 | 1,043 | 1,067 | 995 | 1,035 | 1,069 | 985 | - 976 | 958 | 1,051 | 1,017 | 1,0 |
| J21 IIIGH Sales | Block 1 Block 2 | 1,108 | 1,043 | 1,198 | 1,104 | 1,033 | 1,069 | 983 1,017 | 1,009 | 1,013 | 1,120 | 1,065 | 1,0 |
| | Block 3 | 460 | 412 | 489 | 364 | 359 | 414 | 337 | 367 | 295 | 356 | 414 | 1,. |
| | Block 4 | 618 | 470 | 577 | 395 | 424 | 522 | 451 | 485 | 386 | 493 | 413 | 4 |
| | Block 5 | 84 | 117 | 120 | 24 | 19 | 136 | 69 | 81 | - | 52 | 113 | |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | |
| 32C Inter Transpt | Block 1 | 166 | 167 | 166 | 166 | 166 | 166 | 165 | 157 | 160 | 166 | 147 | |
| | Block 2 | 308 | 305 | 307 | 266 | 242 | 226 | 216 | 218 | 223 | 258 | 268 | 2 |
| | Block 3 | 130 | 122 | 123 | 116 | 116 | 116 | 116 | 110 | 109 | 116 | 93 | 2 |
| | Block 4 Block 5 | 268 180 | 264 168 | 269 172 | 253 117 | 236 103 | 217 83 | 201 76 | 195 70 | 203 69 | 244 104 | 202 20 | • |
| | Block 6 | 100 | 100 | 1/2 | - | 103 | - | - | - | - | 104 | - - | |
| 32I Inter Transpt | Block 1 | 1,105 | 1,163 | 1,172 | 1,153 | 1,193 | 1,146 | 1,139 | 1,167 | 1,206 | 1,215 | 1,188 | 1, |
| . - | Block 2 | 1,577 | 1,727 | 1,807 | 1,759 | 1,786 | 1,797 | 1,785 | 1,833 | 1,833 | 1,990 | 1,737 | 1,7 |
| | Block 3 | 805 | 871 | 856 | 759 | 839 | 868 | 869 | 876 | 865 | 990 | 826 | |
| | Block 4 | 1,239 | 1,254 | 1,302 | 1,040 | 1,108 | 1,217 | 1,251 | 1,252 | 1,089 | 1,322 | 1,194 | 1,2 |
| | Block 5 | 1,714 | 1,653 | 1,736 | 1,349 | 1,474 | 1,267 | 1,164 | 1,257 | 1,330 | 1,514 | 1,497 | 1,5 |
| | Block 6 | 1,715 | 1,350 | 1,607 | 1,460 | 1,180 | 1,230 | 1,312 | 1,464 | 1,054 | 1,695 | 1,671 | 1,8 |
| Total | | 888,007 | 745,984 | 712,464 | 549,211 | 303,825 | 237,884 | 182,115 | 145,857 | 151,074 | 206,764 | 512,369 | 812,3 |
| | | | | | | | | | | | | Annual | 5,447,8 |

 Annual
 5,447,895

 Authorized
 5,000,000

 Variance
 447,895

| | _ | venues | Actual Sch. 197 Revenues | | Actual Sch. 197 Revenues | | Actual Sch. 197 Revenues | | | l Sch. 197 Revenues | | | |
|-------------------|--------------------|----------------|--------------------------|----------------|--------------------------|----------------|--------------------------|----------------|----------------|---------------------|----------------|----------------|----------------|
| Rate Schedule | Block | Jan 2021 | Feb 2021 | Mar 2021 | Apr 2021 | May 2021 | Jun 2021 | Jul 2021 | Aug 2021 | Sep 2021 | Oct 2021 | Nov 2021 | Dec 2021 |
| 2 R | | 606,961 | 615,610 | 535,444 | 387,051 | 200,162 | 145,625 | 85,028 | 74,775 | 85,976 | 176,541 | 318,902 | 525,294 |
| 3 CFS | | 164,608 | 167,661 | 151,844 | 113,727 | 61,029 | 47,977 | 33,757 | 31,665 | 34,942 | 53,350 | 88,406 | 145,254 |
| 3 IFS | | 3,250 | 3,313 | 3,205 | 2,751 | 1,842 | 1,591 | 1,294 | 1,300 | 1,918 | 3,036 | 3,937 | 3,113 |
| 27 | | 933 | 919 | 826 | 612 | 241 | 124 | 30 | 5 | 27 | 191 | 571 | 914 |
| 31C Firm Sales | Block 1 | 6,059 | 6,016 | 6,069 | 5,871 | 5,028 | 4,230 | 2,747 | 2,425 | 2,822 | 4,420 | 5,527 | 5,988 |
| | Block 2 | 7,860 | 7,688 | 7,377 | 4,782 | 1,465 | 683 | 198 | 161 | 266 | 997 | 3,177 | 6,883 |
| 31C Firm Transpt | Block 1 | 434 | 433 | 435 | 428 | 392 | 263 | 217 | 224 | 282 | 427 | 435 | 435 |
| 311 Firm Sales | Block 2 Block 1 | 787 2,208 | 797 2,187 | 711 | 303 2,147 | 2,060 | 1,990 | 53 1,914 | 54 1,919 | 2,007 | 281 | 510 | 1,014 2,106 |
| 311 Firm Sales | Block 1 Block 2 | 2,208 4,927 | 4,886 | 2,193 4,614 | 2,147 4,117 | 3,258 | 3,295 | 2,895 | 2,754 | 3,545 | 2,169 4,289 | 2,171 4,030 | 4,711 |
| 31I Firm Transpt | Block 1 | 56 | 56 | 56 | 54 | 48 | 47 | 42 | 46 | 53 | 56 | 56 | 52 |
| 3111 mm Trumspt | Block 2 | 144 | 147 | 148 | 103 | 77 | 48 | 61 | 64 | 73 | 120 | 143 | 203 |
| 32C Firm Sales | Block 1 | 8,927 | 8,863 | 8,726 | 7,758 | 5,782 | 4,732 | 3,258 | 2,996 | 3,432 | 5,109 | 7,041 | 8,745 |
| | Block 2 | 2,679 | 2,667 | 2,603 | 1,681 | 822 | 553 | 362 | 357 | 364 | 585 | 1,290 | 2,407 |
| | Block 3 | 318 | 272 | 308 | 250 | 66 | 59 | 61 | 43 | 57 | 85 | 112 | 220 |
| | Block 4 | 22 | 50 | 94 | 140 | (73) | - | - | - | - | 20 | 7 | 18 |
| | Block 5 | - | - | - | 141 | (141) | - | - | - | - | - | - | - |
| | Block 6 | - | - | - | - | - | - | - | - | - | <u>-</u> | - | |
| 32I Firm Sales | Block 1 | 1,226 | 1,212 | 1,193 | 1,179 | 1,113 | 1,065 | 1,073 | 1,115 | 1,140 | 1,207 | 1,181 | 1,237 |
| | Block 2 | 1,049 | 1,004 | 993 | 889 | 804 | 743 | 750 | 793 | 797 | 861 | 832 | 1,092 |
| | Block 3 | 230 | 187 | 217 | 183 | 176 | 182 | 206 | 192 | 245 | 207 | 151 | 195 |
| | Block 4 Block 5 | 35 | 23 | 26 | 15 | 14 | 10 | 39 | 38 | 49 | 40 | 6 | 16 |
| | Block 6 | - - | - - | - - | - | <u>-</u> | - - | - | - | - - | - - | - - | - - |
| 32C Firm Transpt | Block 1 | 518 | 515 | 537 | 494 | 455 | 364 | 337 | 341 | 386 | 448 | 483 | 513 |
| • | Block 2 | 401 | 429 | 477 | 357 | 212 | 156 | 146 | 163 | 177 | 304 | 346 | 469 |
| | Block 3 | 125 | 124 | 134 | 99 | 50 | 42 | 25 | 36 | 50 | 59 | 92 | 130 |
| | Block 4 | 94 | 113 | 110 | 36 | 12 | 11 | 13 | 12 | 20 | 51 | 77 | 134 |
| | Block 5 | - | - | - | - | - | - | - | - | - | - | - | 2 |
| | Block 6 | - | - | - | - | - | - | - | = | - | - | - | - |
| 32I Firm Transpt | Block 1 | 1,891 | 1,892 | 1,917 | 1,915 | 1,909 | 1,905 | 1,879 | 1,895 | 1,923 | 1,942 | 1,944 | 1,924 |
| | Block 2 | 2,485 | 2,415 | 2,541 | 2,374 | 2,312 | 2,163 | 2,127 | 2,199 | 2,242 | 2,449 | 2,493 | 2,623 |
| | Block 3 | 1,168 | 1,146 | 1,196 | 1,063 | 1,018 | 992 | 962 | 1,004 | 989 | 1,045 | 1,105 | 1,207 |
| | Block 4 Block 5 | 1,421 756 | 1,372 733 | 1,515 720 | 1,286 590 | 1,227 574 | 1,069 459 | 985 525 | 1,067 518 | 1,080 591 | 1,269 753 | 1,306 777 | 1,491 907 |
| | Block 6 | 159 | 127 | 148 | 102 | 95 | 68 | 67 | 66 | 67 | 100 | 112 | 190 |
| 32C Interr Sales | Block 1 | 961 | 955 | 959 | 929 | 899 | 750 | 754 | 762 | 828 | 919 | 982 | 972 |
| | Block 2 | 1,399 | 1,285 | 1,383 | 1,176 | 1,031 | 774 | 687 | 750 | 840 | 1,162 | 1,295 | 1,415 |
| | Block 3 | 626 | 563 | 636 | 450 | 332 | 219 | 225 | 229 | 242 | 470 | 563 | 721 |
| | Block 4 | 610 | 472 | 574 | 340 | 279 | 188 | 182 | 187 | 203 | 343 | 423 | 714 |
| | Block 5 | 162 | 134 | 150 | 113 | 107 | 75 | 71 | 69 | 76 | 118 | 130 | 204 |
| | Block 6 | - | - | - | - | - | - | - | - | - | - | - | |
| 32I Interr Sales | Block 1 | 1,060 | 1,022 | 1,153 | 1,028 | 980 | 1,013 | 965 | 938 | 983 | 1,021 | 1,070 | 1,094 |
| | Block 2 | 1,172 | 1,082 | 1,345 | 1,125 | 1,045 | 1,127 | 1,033 | 1,003 | 1,040 | 1,124 | 1,164 | 1,251 |
| | Block 3 | 472 | 411 | 594 | 420 | 384 | 393 | 402 | 332 | 392 | 400 | 486 | 608 |
| | Block 4 Block 5 | 535 112 | 511 58 | 926 195 | 675 61 | 547 106 | 638 28 | 532 58 | 492 113 | 454 (95) | 560 73 | 745 144 | 793 202 |
| | Block 6 | - | - | 193 | - | - | - | - | - | (93) | - | - | - |
| 32C Inter Transpt | Block 1 | 147 | 133 | 161 | 147 | 147 | 147 | 142 | 146 | 147 | 147 | 128 | 127 |
| 1 | Block 2 | 282 | 264 | 297 | 243 | 212 | 187 | 185 | 183 | 193 | 234 | 226 | 260 |
| | Block 3 | 100 | 104 | 102 | 93 | 93 | 85 | 84 | 82 | 85 | 93 | 93 | 105 |
| | Block 4 | 211 | 199 | 200 | 179 | 169 | 126 | 123 | 122 | 137 | 180 | 184 | 200 |
| | Block 5 | 36 | 33 | 33 | 9 | 6 | - | - | - | - | 7 | 14 | 49 |
| | Block 6 | - | <u>-</u> | <u>-</u> | - | - | - | - | | <u>-</u> | <u>-</u> | <u>-</u> | |
| 32I Inter Transpt | Block 1 | 1,124 | 1,099 | 1,173 | 1,148 | 1,144 | 1,169 | 1,170 | 1,203 | 1,209 | 1,229 | 1,136 | 1,123 |
| | Block 2 | 1,624 | 1,512 | 1,772 | 1,764 | 1,788 | 1,789 | 1,831 | 1,901 | 1,899 | 1,918 | 1,671 | 1,481 |
| | Block 3 Block 4 | 803 1,210 | 775 1,117 | 913 1,379 | 899 1,175 | 862 1,152 | 895 1,185 | 883 1,129 | 1,001 | 1,002 1,225 | 993 | 782 1,026 | 728 1,073 |
| | Block 4 Block 5 | 1,210 1,597 | 1,117 | 1,379 | 1,510 | 1,132 1,529 | 1,185 1,203 | 1,129 1,176 | 1,245 1,349 | 1,225 1,411 | 1,255 1,561 | 1,026 1,456 | 1,073 1,561 |
| | Block 6 | 1,838 | 1,699 | 1,784 | 1,570 | 1,414 | 1,325 | 1,405 | 1,458 | 1,354 | 1,465 | 1,747 | 1,886 |
| Total | | 837,808 | 847,571 | 753,934 | 557,551 | 306,363 | 233,809 | 154,085 | 141,794 | 159,208 | 277,682 | 462,684 | 736,052 |
| 1 0141 | | 057,000 | 077,371 | 133,937 | 551,551 | 300,303 | 233,009 | 157,005 | 171,//7 | 137,200 | 211,002 | 702,007 | 130,032 |

 Annual
 5,468,541

 Authorized
 5,000,000

 Variance
 468,541