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December 11, 2017

Washington Utilities & Transportation Commission

Mr. Steven King, Executive Director & Secretary

P.O. Box 47250

Olympia, WA  98504-7250

RE: Cascade Natural Gas Corporation 2018 Integrated Resource Plan

Dear Mr. King:

Pursuant to WAC 480-90-238, enclosed for filing is Cascade Natural Gas Corporation’s Work Plan for its 2018 Integrated Resource Plan (IRP or Plan). This document provides an outline of the content for the Plan, the timing of the plan development, the method for assessing potential resources, and the internal IRP team.

If there are any questions regarding this matter, please contact Brian Robertson at (509) 734-4546 or myself at (509) 734-4589.  Alternatively, we may be reached at [brian.robertson@cngc.com](mailto:brian.robertson@cngc.com) and [mark.sellers-vaughn@cngc.com](mailto:mark.sellers-vaughn@cngc.com).

Sincerely,

CASCADE NATURAL GAS CORPORATION



Mark Sellers-Vaughn

Manager, Supply Resource Planning

Enclosures

Cascade Natural Gas Corporation’s (“Cascade” or “the Company”) Work Plan for its 2018 Integrated Resource Plan (“IRP”) is filed pursuant to the Washington Utilities and Transportation Commission (WUTC) IRP rules (WAC 480-90-238).

**Purpose of the Integrated Resource Plan/Key Issues for 2018 IRP**

The primary purpose of Cascade’s long-term resource planning process has been, and continues to be, to inform and guide the Company’s resource acquisition processes, consistent with the rule (WAC 480-90-238). Input and feedback from the Company’s Technical Advisory Group (TAG) will continue to be an important resource to help ensure Cascade’s IRP is developed from a broader perspective than Cascade could have on its own.

**Outline of IRP Content:**

The following is an outline of the Company’s 2018 IRP plan. Organizational structure of the final IRP may be revised based on results of analysis and feedback received through the planning process.

1. Executive Summary
2. Company Overview
3. Demand Forecast
4. Supply Side Resources
5. Avoided Costs
6. Demand Side Management, Clean Air Rule (CAR), and Environmental Policy
7. Resource Integration
8. Distribution System Planning
9. Stakeholder Engagement
10. Two-year Action Plan
11. Appendices

**2018 IRP Timeline**

The following is Cascade’s tentative 2018 IRP timeline (we anticipate all meetings will be held at Seattle-Tacoma International Airport Conference Center):

* Develop Demand Forecast: February through April 2018
* Distribution System Planning Analysis: May through August 2018
* Demand Side Resource Analysis: May through September 2018
* Gas Supply Analysis: May through August 2018
* Integration of Supply and Conservation Resources: May through September 2018
* Public Process: Technical Advisory Group Meetings (tentative dates)
  + TAG 1:  Process, Key Points, IRP Team, Timeline, Regional Market Outlook, Plan for dealing with issues raised in 2016 IRP, C.A.R. (March 2018)
  + TAG 2: Demand and Customer Forecast and Non-Core Outlook, Drilling down into segments of demand forecast. NWP/GTN Present Demand Taps. (May 2018)
  + TAG 3:  Distribution System Planning, Planned Scenarios and Sensitivities, Alternative Resources, Price Forecast, Avoided Costs. Current Supply Resources, Transport Issues. (July 2018)
  + TAG 4:  Carbon Impacts, Conservation, Bio-Natural Gas, Preliminary Resource Integration Results, Proposed new 2-year Plan. (August 2018)
  + TAG 5: Final Integration Results, finalization of plan components (September 2018)
* File Draft 2018 IRP: (October 2018)
* Comments due on draft (November 2018)
  + TAG 6 (if needed) (November 2018)
* Final 2018 IRP Filed: on or before December 14, 2018

**Planning Assumptions**

Information needed to perform analysis will be gathered and input assumptions developed throughout Spring and early Summer 2018. This will include detailed definitions of alternative scenarios and all primary input assumptions for demand forecasting and resource modeling. Additional planning information will be assimilated into the analytical process and planning information that is not incorporated into the modeling process will continue to be assessed.



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| **Date** | **Process Element** | **Location (Subject to change)** |
| **Thursday, March 15, 2018** | **TAG 1:  Process, Key Points, IRP Team, Timeline, Regional Market Outlook, Plan for dealing with issues raised in 2016 IRP, C.A.R.** | **Seattle-Tacoma International Airport Conference Center 9am-12pm** |
| **Wednesday, May 23, 2018** | **TAG 2:  Demand and Customer Forecast and Non-Core Outlook, Drilling down into segments of demand forecast. NWP/GTN Present Demand Taps.** | **Seattle-Tacoma International Airport Conference Center 9am-12pm** |
| Thursday, May 31, 2018 | 2016 WA IRP 3rd Quarterly Update Filed |  |
| **Thursday, July 12, 2018** | **TAG 3: Distribution System Planning, Planned Scenarios and Sensitivities, Alternative Resources, Price Forecast, Avoided Costs. Current Supply Resources, Transport Issues.** | **Seattle-Tacoma International Airport Conference Center 9am-12pm** |
| **Thursday, August 16, 2018** | **TAG 4 Carbon Impacts, Conservation, Bio-Natural Gas, Preliminary Resource Integration Results, Proposed new 2-year Plan.** | **Seattle-Tacoma International Airport Conference Center 9am-3pm** |
| **Tuesday, September 18, 2018** | **TAG 5: Final Integration Results, finalization of plan components.** | **Seattle-Tacoma International Airport Conference Center 9am-12pm** |
| Friday, October 5, 2018 | Draft of 2018 IRP distributed |  |
| Friday, November 2, 2018 | Comments due on draft from all stakeholders |  |
| Wednesday, November 14, 2018 | TAG 6, if needed | WebEx Only |
| Friday, December 14, 2018 | IRP filing in Washington |  |

***INTERNAL TEAM MEMBERS OF CNGC’S INTEGRATED RESOURCE PLAN:***

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| **LAST NAME** | **FIRST NAME** | **TITLE** | **COMPANY** | **ROLE IN IRP** |
| Abrahamson | Jim | Manager, Conservation Policy | Cascade | DSM and Conservation Measures analysis, Avoided Costs Calculations (45-yr resource cost effectiveness) |
| Archer | Pam | Supervisor, Regulatory Affairs | Cascade | Edit assists & miscellaneous IRP support |
| Bolton | Chris | Engineering II, Engineering | Cascade | Distribution System Enhancements, Distribution System Planning (Reinforcement Projects charts), forecast participant |
| Burin | Kary | Supervisor, Conservation | Cascade | Conservation Measures, Avoided Costs Calculations 45-yr resource cost effectiveness) |
| Chiles | Mark | Vice President, Customer Service and Regulatory Affairs | Intermountain | Regulatory, insights, consulting manager of IRP process; Executive summary |
| Cooley | John | Manager, Industrial Services | Cascade | Insights regarding industrial customer base and their issues relevant to the IRP |
| Cowlisha | Monica | Manager, Conservation Programs | Cascade | Responsible manager for DSM, Conservation Measures, Avoided Costs Calculations 45-yr resource cost effectiveness) |
| Cunnington | Brian | Manager, Industrial Services | Cascade | Insights regarding industrial customer base and their issues relevant to the IRP |
| Davis | Ashton | Resource Planning Analyst, Gas Supply | Cascade | Principle forecast participant and analysis (SENDOUT utilization); resource integration, Demand Forecast Model Escalation Rates (economic indicators, demand charts & tables), Miscellaneous IRP Support |
| Folsom | Bruce | Consultant | Bruce W Folsom Consulting LLC | Consultant to Cascade’s IRP |
| Gross | Jennifer | Regulatory Analyst IV, Regulatory Affairs | Cascade | Edit assists & miscellaneous IRP support |
| Krebsbach | Abbie | Director, Environmental | MDU | Contributor to Environment Policy |
| Martuscelli | Eric | Vice President, Operations | Cascade | Executive |

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| --- | --- | --- | --- | --- |
| McGreal | Devin | Resource Planning Analyst, Gas Supply | Cascade | Principle forecast participant and analysis (SENDOUT utilization); resource integration, Demand Forecast Model Escalation Rates (economic indicators, demand charts & tables), Miscellaneous IRP Support |
| Mellinger | Becky | Financial Analyst | Cascade | Finance perspective, forecast participant |
| Morman | Bob | Director, Gas Supply Utility Group | MDU | Responsible senior utility group manager of IRP process; Executive summary |
| Ogden | Jeremy | Director, Engineering | Cascade | Distribution System Enhancements, Distribution System Planning (Reinforcement Projects charts), forecast participant |
| Parvinen | Mike | Director, Regulatory Affairs | Cascade | Regulatory, insights, consulting manager of IRP process; Executive summary |
| Robbins | Chris | Manager, Gas Supply and Control- CNGC/IGC | Cascade/Intermountain | Gas supply, transportation, storage, capacity requirements. Forecast participant |
| Robertson | Brian | Sr Resource Planning Analyst, Gas Supply | Cascade | Principle forecast participant and analysis (SENDOUT utilization); resource integration, Demand Forecast Model Escalation Rates (economic indicators, demand charts & tables), Miscellaneous IRP Support |
| Sargent | Amanda | Conservation Analyst | Intermountain | Conservation Measures and programs, Avoided Costs Calculations, forecast participant |
| Sellers-Vaughn | Mark | Manager, Supply Resource Planning | Cascade | Project manager and facilitator of IRP processes (involving planning, forecast, DSM, resources, integration, optimization, Monte Carlo, SENDOUT optimization organization & analysis, development of capacity, supplies, storage, price forecast associated with IRPs) |
| Senger | Garret | Executive Vice President, Regulatory, Customer Service, Gas Supply | MDU | Responsible senior utility group manager of IRP process; Executive summary |
| Spector | Allison | Manager, Conservation Policy | Cascade | Responsible manager for Conservation Policy |
| Stone | Carolyn | Gas Supply Analyst | Cascade | Gas supply, transportation and storage analysis (SENDOUT utilization), Demand Forecast, Supply Resource Alternatives (resource input tables, 20 yr. price forecast), Capacity Requirement and Peak Day Planning (summaries, zonal charts, etc.) |
| Wood | Eric | Gas Supply Analyst | Cascade | Gas supply, transportation and storage analysis (SENDOUT utilization), Demand Forecast, Supply Resource Alternatives (resource input tables, 20 yr. price forecast), Capacity Requirement and Peak Day Planning (summaries, zonal charts, etc.) |