

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities

DG 17-198

Petition to Approve Firm Supply and Transportation Agreements and the
Granite Bridge Project

Staff Data Requests - Set 1

Date Request Received: 4/10/18
Request No. Staff 1-19

Date of Response: 4/27/18
Respondent: Francisco C. DaFonte

REQUEST:

Regarding the Direct Testimony of Timothy S. Lyons, as filed in Docket No. DG 17-198, at page 14 the witness states that the initial capital cost to construct the Granite Bridge Pipeline is approximately \$110.0 million. At page 18, he states that the initial capital cost to construct the Granite Bridge LNG Facility is \$201.7 million. (See also Exhibit TSL-2.) Please provide detailed justifications for these estimates, including

- a. How they were developed.
- b. How they compare with the costs of similar facilities constructed in similar locations under similar conditions.

RESPONSE:

- a. The cost estimates to construct the Granite Bridge Pipeline and the Granite Bridge LNG facility are detailed in the Company's responses to OCA 1-34 and OCA 1-38, respectively. Overheads of approximately \$8 million and \$16 million were added to the construction cost estimates for the Granite Bridge Pipeline and the Granite Bridge LNG facility, respectively, to arrive at the total capital cost before applying the Allowance for Funds Used During Construction ("AFUDC").
- b. As stated in the Company's response to OCA 1-34, the Company performed a cost estimate based on its actual costs to construct a similar high pressure (750 psig) 16-inch diameter pipeline to serve the AES Londonderry generating facility back in 2001. While that pipeline was only 2.8 miles in length, it also included a regulator station tie-in with the TGP Concord Lateral as well as a "smart pig" launcher and receiver similar to what would be included for the Granite Bridge Pipeline. Since the actual costs to build the AES pipeline were from 2001, the Company used the Handy-Whitman Index to take these actual costs and reproduce those costs at prices prevailing at the current time. While the CHA cost estimate for the Granite Bridge Pipeline was approximately \$13 million less than the Company's Handy-Whitman calculation, the Company determined that the more conservative Handy-Whitman calculation was the more appropriate cost estimate to use in its analyses until such time as it conducts its design engineering and

Docket No. DG 17-198 Request No. Staff 1-19

solicitation for a final cost to build estimate from engineering, procurement, and construction contractors.

With respect to comparing the cost estimates for the Granite Bridge LNG facility, as set forth in the Company's response to OCA 1-38, to a similar facility, the Company requested that its LNG plant engineering firm, Sanborn, Head and Associates, Inc., apply the same Handy-Whitman index to the Yankee Gas LNG facility that was built in 2007 and for which they had provided Owners Engineering services. The facility is located in Waterbury, Connecticut, and is the only other full containment facility built in New England. It is comprised of a 1.2 Bcf tank, 6,000 Mcf per day of liquefaction and 60,000 Dth per day of vaporization capacity with 30,000 Dth per day of redundant vaporization capacity. While the Waterbury tank is smaller than the proposed Granite Bridge tank, the balance of plant is relatively similar.

In order to develop a reasonable cost comparison of the Waterbury and Granite Bridge LNG facilities, it was first necessary to remove the cost of the Waterbury facilities 1.2 Bcf tank, approximately \$33.5 million, and replace it with the indicative pricing, plus a 15% contingency, the Company has previously received for its proposed 2 Bcf tank. The Handy-Whitman index was then applied to the balance of plant. As shown in Attachment Staff 1-19.xls, applying the Handy Whitman index to the balance of plant for the Waterbury LNG facility results in a cost of approximately \$64.5 million. Adding the cost estimate for the 2 Bcf LNG tank with a 15% contingency brings the total cost up to approximately \$165.5 million. Adding the previously estimated costs provided in the response to OCA 1-38 for overheads, project development, and land acquisition and development costs brings the final capital cost of the comparable Waterbury LNG facility up to approximately \$192 million before AFUDC. This compares to the Granite Bridge LNG facility capital cost estimate before AFUDC of approximately \$201.6 million.

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities

DG 17-198

Petition to Approve Firm Supply and Transportation Agreements and the
Granite Bridge Project

Staff Data Requests - Set 2

Date Request Received: 5/4/18
Request No. Staff 2-53

Date of Response: 5/18/18
Respondent: James M. Stephens
Kim N. Dao

REQUEST:

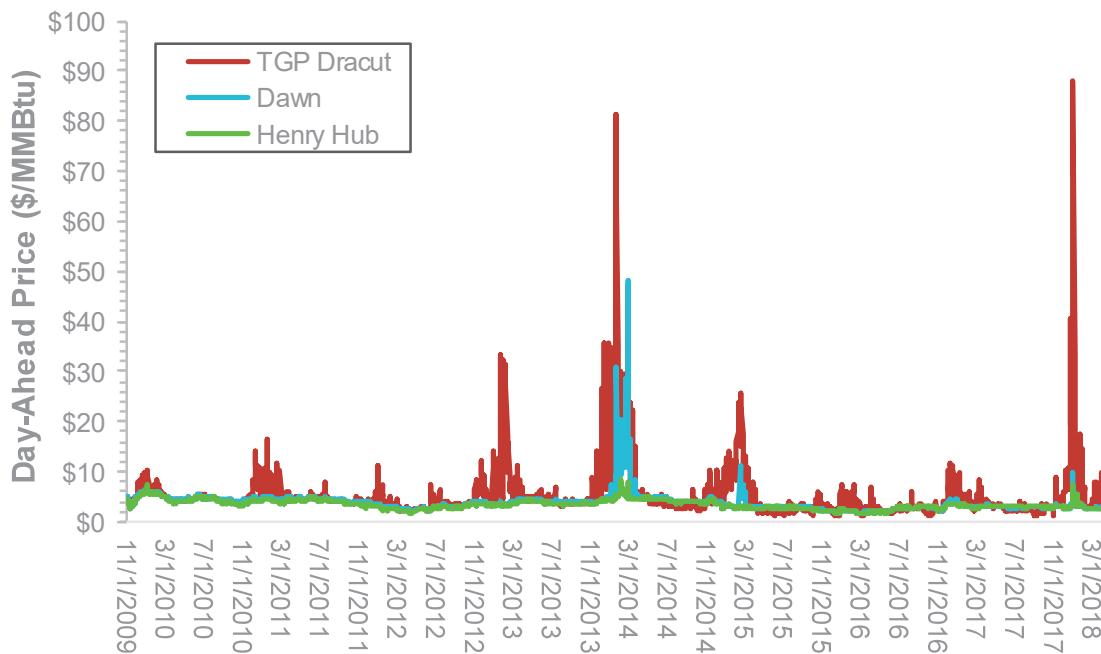
Note the Direct Testimony of William R. Killeen and James M. Stephens, at page 17, lines 7-11, which states that, “... *the two segments (i.e., the traditional LDC and power generation segments) may compete for pipeline capacity, particularly during the winter season. This competition for winter gas supplies, all else being equal, will place upward pressure on the New England natural gas price indices, resulting in higher and more volatile gas supply costs for entities that purchase gas supplies at these price indices.*” Please provide:

- a. Plots of the principal New England natural gas price indices, *i.e.*, the indices for Tennessee Gas Pipeline Zone 6 and Algonquin City Gates, for the past 10 years.
- b. Plots of a recognized measure of volatility in each of those indices for the past 10 years.

RESPONSE:

- a. Please see Figure Staff 2-53.a below for a chart of the daily New England natural gas prices, as represented by the TGP Dracut price index, over the November 1, 2009, through April 30, 2018, time period. Please note that the daily Dawn and Henry Hub price indices have also been provided for reference. As shown in Figure Staff 2-53.a, the TGP Dracut index has consistently exceeded \$10 per MMBtu during the winter, and has reached as high as \$90 per MMBtu.

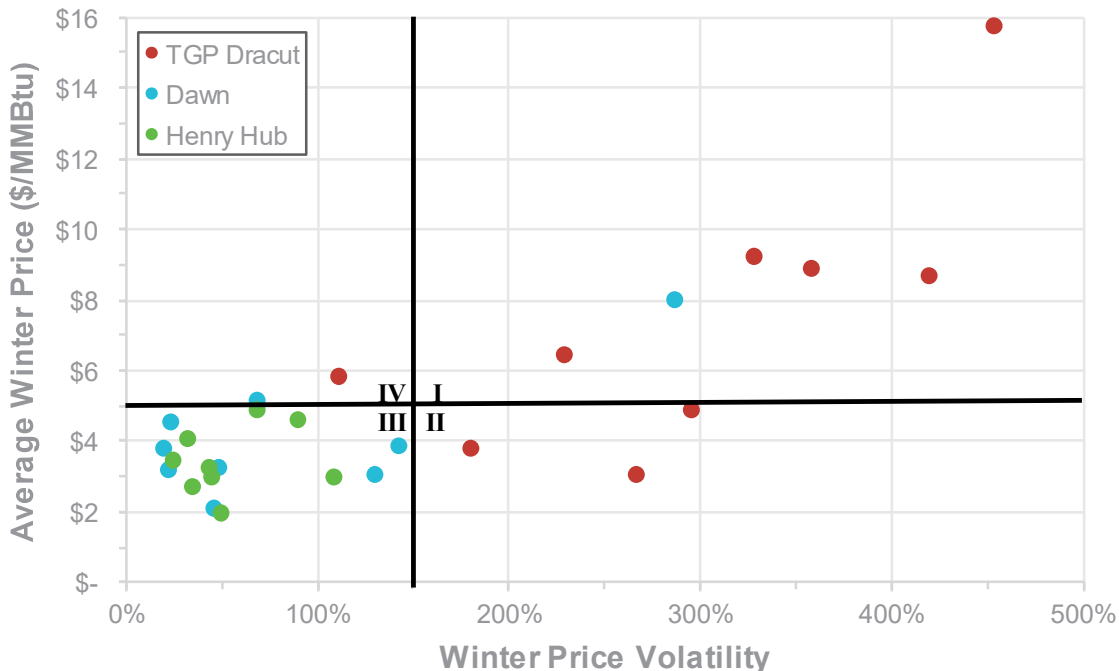
Figure Staff 2-53.a¹



b. Figure Staff 2-53.b below is a scatterplot showing the historical natural gas price volatility (on the x-axis) and the average winter price (on the y-axis) for the TGP Dracut, Dawn, and Henry Hub price indices over the winters of 2009/10 through 2017/18. Please note, the measure of natural gas price volatility relied upon is defined by the U.S. Energy Information Administration in the August 2007 report titled “An Analysis of Price Volatility in Natural Gas Markets.”

¹ Source: S&P Global Market Intelligence.

Figure Staff 2-53.b



As shown in Figure Staff 2-53.b above, the TGP Dracut price index has exhibited higher price levels and more volatility relative to the Dawn and Henry Hub price indices. On a comparative basis, there are nine observations in quadrants I and II, which are the higher volatility quadrants, and eight of those nine observations are the TGP Dracut price index. Specifically, for the TGP Dracut price index, there are five of nine observations in quadrant I, which reflect higher price and higher volatility; three observations in quadrant II with higher volatility and average winter prices between \$3-\$5 per MMBtu; and one observation in quadrant IV with an average winter price of nearly \$6 per MMBtu and winter price volatility of over 110%.

REVISED

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities

DG 17-198

Petition to Approve Firm Supply and Transportation Agreements and the
Granite Bridge Project

Staff Data Requests - Set 5

Date Request Received: 7/9/18
Request No. Staff 5-17

Date of Response: 8/7/18
Respondent: Francisco C. DaFonte

REQUEST:

Per the discussions in the first Technical Session, please provide economic model runs for both the Granite Bridge Pipeline and LNG facility that use alternative inputs for capital costs, customer growth, and load growth that:

- a. Increases capital costs
 - i. Using 25% higher capital cost for each project
 - ii. Using 50% higher capital cost for each project
- b. Decreases customer and load growth:
 - i. Using 50% of the sales and marketing adjustment
 - ii. Using no sales and marketing adjustment
- c. Implements each scenario defined above individually then in combination (eight cases)
 - i. 25% higher capital cost and Company load growth
 - ii. 50% higher capital cost and Company load growth
 - iii. 25% higher capital cost and 50% sales and marketing adjustment
 - iv. 50% higher capital cost and 50% sales and marketing adjustment
 - v. 25% higher capital cost and no sales and marketing adjustment
 - vi. 50% higher capital cost and 50% sales and marketing adjustment
 - vii. Company capital cost and 50% sales and marketing adjustment
 - viii. Company capital cost and no sales and marketing adjustment
- d. Includes
 - i. Levelized cost in dollars per year
 - ii. Cost per customer
 - iii. Cost impact to current customers
 - iv. Cost per dekatherm

Docket No. DG 17-198 Request No. Staff 5-17 (Revised)

REVISED RESPONSE:

- a. As a preliminary matter, with respect to increases in capital costs, the Company notes that a SENDOUT® analysis assuming a 20% higher capital cost for the Granite Bridge LNG facility was previously provided in the response to OCA 2-88R. Further, since the proposed Granite Bridge Pipeline is contained in all SENDOUT® scenarios, any assumed cost increase would impact all scenarios in the same manner. Importantly, as shown in the Company’s responses to Staff 5-15 and Staff 2-72, the proposed Granite Bridge Pipeline is significantly more cost-effective than the Concord Lateral expansion, and a proposed 25% or 50% increase in the cost of the proposed Granite Bridge Pipeline remains considerably more cost-effective than an expansion of the Concord Lateral.

In addition, as demonstrated in the response to OCA 2-88R, when making adjustments to the fixed costs of any resource in the SENDOUT® model that is not part of a Resource Mix option, the overall portfolio cost changes only by the difference in the change to the fixed cost of the resource being adjusted. As such, if the Granite Bridge Pipeline and LNG facility costs are increased by the requested 25% or 50%, then the overall portfolio cost would effectively increase by the magnitude of the 25% or 50% requested increase to the Granite Bridge Pipeline and LNG facility.

- i. The results of the requested analysis, using the Company’s revised demand forecast provided in the response to CLF Tech 1-2,¹ and assuming a 25% increase in the capital costs for the Granite Bridge Pipeline and LNG facility are provided in Attachment Staff 5-17.a.xlsx.
 - ii. The results of the requested analysis, using the Company’s revised demand forecast provided in the response to CLF Tech 1-2, and assuming a 50% increase in the capital costs for the Granite Bridge Pipeline and LNG facility are provided in Attachment Staff 5-17.a.xlsx.
- b. With respect to decreases in customer and load growth, the Company has developed a low demand case (“Low Case”) that reflects no Sales and Marketing adjustment in the existing service territory, which the Company believes provides a reasonable lower bound with respect to forecasted customer and load growth. In addition, the Company’s Low Case results in Design Day demand levels that are consistent with the levels provided by the Office of Consumer Advocate (“OCA”) in data request OCA 4-6 as shown in Attachment Staff 5-17.b.xlsx.
- i. As requested, the Company has developed a demand forecast that includes a 50% reduction in the Sales and Marketing adjustment in the existing service territory (“50% Demand Case”); and has rerun the Base Case Prime, Base Case Prime Sensitivity, Alternative Case Prime, and Alternative Case Prime Sensitivity, and alternative tank size SENDOUT® model scenarios (provided in the responses to CLF Tech 1-2 and PLAN 5-4) to reflect the 50% Demand Case. The results of the requested analysis are summarized in Tables Staff 5-17.1 and Staff 5-17.2 below and the detailed SENDOUT® reports are provided in the following confidential attachments:

¹ The new Base Case Prime Scenario, which replaces Exhibit WRK/JMS-4, was provided as Attachment PLAN 5-4.1 in the response to PLAN 5-4.

Docket No. DG 17-198 Request No. Staff 5-17 (Revised)

- Confidential Attachment Staff 5-17.b.i.1 (Base Case Prime - 50% Demand Case)
- Confidential Attachment Staff 5-17.b.i.2 (Base Case Prime Sensitivity - 50% Demand Case)
- Confidential Attachment Staff 5-17.b.i.3 (Alternative Case Prime - 50% Demand Case)
- Confidential Attachment Staff 5-17.b.i.4 (Alternative Case Prime Sensitivity - 50% Demand Case)
- Confidential Attachment Staff 5-17.b.i.5 (Base Case Prime - 1.2 Bcf Tank - 50% Demand Case)
- Confidential Attachment Staff 5-17.b.i.6 (Base Case Prime - 1.5 Bcf Tank - 50% Demand Case)
- Confidential Attachment Staff 5-17.b.i.7 (Base Case Prime - 2.5 Bcf Tank - 50% Demand Case)

Table Staff 5-17.1: EnergyNorth SENDOUT® Model Runs - “Prime 50% Demand Case”

Resource Planning Scenario	Granite Bridge LNG	Propane Facilities	Resource Mix Results			Total System Cost (\$000)	Comparison to Base Case Prime (\$000)
			Dawn (Dth/day)	Repsol (Dth/day)	ENGIE (Dth/day)		
Base Case Prime	2.0 Bcf	No	750	0	0	\$2,432,811	\$ -
Base Case Prime Sensitivity	2.0 Bcf	Yes	750	0	0	\$2,433,441	\$ 630
Alternative Case Prime	No	No	90	85,220	1,430	\$2,559,274	\$ 126,463
Alternative Case Prime Sensitivity	No	Yes	16,990	26,830	7,000	\$2,398,127	\$ (34,684)

Table Staff 5-17.2: EnergyNorth SENDOUT® Model Runs - LNG Tank Size Scenarios - “Prime 50% Demand Case”

Resource Planning Scenario	Granite Bridge LNG	Propane Facilities	Resource Mix Results			Total System Cost (\$000)	Comparison to 2.0 Bcf Tank (\$000)
			Dawn (Dth/day)	Repsol (Dth/day)	ENGIE (Dth/day)		
Base Case Prime	2.0 Bcf	No	750	0	0	\$2,432,811	\$ -
Base Case Prime	1.2 Bcf	No	750	0	0	\$2,429,949	\$ (2,862)
Base Case Prime	1.5 Bcf	No	750	0	0	\$2,437,749	\$ 4,938
Base Case Prime	2.5 Bcf	No	750	0	0	\$2,512,361	\$ 79,550

- ii. The Company has rerun its Base Case Prime, Base Case Prime Sensitivity, Alternative Case Prime, and Alternative Case Prime Sensitivity, and alternative tank size SENDOUT® model scenarios (provided in the responses to CLF Tech 1-2 and PLAN 5-4) to reflect the “Low Case” (i.e., no Sales and Marketing adjustment in the existing service territory). The results of the requested analysis are summarized in Tables Staff 5-17.3 and Staff 5-17.4 below and the detailed SENDOUT® reports are provided in the following confidential attachments:

- Confidential Attachment Staff 5-17.b.ii.1 (Base Case Prime - Low Case)

Docket No. DG 17-198 Request No. Staff 5-17 (Revised)

- Confidential Attachment Staff 5-17.b.ii.2 (Base Case Prime Sensitivity - Low Case)
- Confidential Attachment Staff 5-17.b.ii.3 (Alternative Case Prime - Low Case)
- Confidential Attachment Staff 5-17.b.ii.4 (Alternative Case Prime Sensitivity - Low Case)
- Confidential Attachment Staff 5-17.b.ii.5 (Base Case Prime - 1.2 Bcf Tank - Low Case)
- Confidential Attachment Staff 5-17.b.ii.6 (Base Case Prime - 1.5 Bcf Tank - Low Case)
- Confidential Attachment Staff 5-17.b.ii.7 (Base Case Prime - 2.5 Bcf Tank - Low Case)

Table Staff 5-17.3: EnergyNorth SENDOUT® Model Runs - “Prime Low Case”

Resource Planning Scenario	Granite Bridge LNG	Propane Facilities	Resource Mix Results			Total System Cost (\$000)	Comparison to Base Case Prime
			Dawn (Dth/day)	Repsol (Dth/day)	ENGIE (Dth/day)		
Base Case Prime	2.0 Bcf	No	0	0	0	\$2,398,051	\$ -
Base Case Prime Sensitivity	2.0 Bcf	Yes	0	0	0	\$2,398,681	\$ 630
Alternative Case Prime	No	No	0	81,710	1,500	\$2,510,605	\$ 112,554
Alternative Case Prime Sensitivity	No	Yes	16,590	23,710	7,000	\$2,353,467	\$ (44,584)

Table Staff 5-17.4: EnergyNorth SENDOUT® Model Runs - LNG Tank Size Scenarios - “Prime Low Case”

Resource Planning Scenario	Granite Bridge LNG	Propane Facilities	Resource Mix Results			Total System Cost (\$000)	Comparison to 2.0 Bcf Tank (\$000)
			Dawn (Dth/day)	Repsol (Dth/day)	ENGIE (Dth/day)		
Base Case Prime	2.0 Bcf	No	0	0	0	\$2,398,051	\$ -
Base Case Prime	1.2 Bcf	No	0	0	0	\$2,393,523	\$ (4,528)
Base Case Prime	1.5 Bcf	No	0	0	0	\$2,402,325	\$ 4,274
Base Case Prime	2.5 Bcf	No	0	0	0	\$2,477,642	\$ 79,591

The SENDOUT® results summarized in Tables Staff 5-17.3 and Staff 5-17.4 above continue to demonstrate the resiliency of the Base Case Prime portfolio (which includes the 2.0 Bcf Granite Bridge LNG facility) to adjust to various scenarios. Specifically, the Base Case Prime scenario (i.e., with the inclusion of the Granite Bridge Project) results in a total cost that is over \$112 million less than the total portfolio cost of the Alternative Case Prime scenario.

- c. As discussed in the response to part a. above, and demonstrated in the Company’s response to OCA 2-88R, when making any adjustments to the fixed costs of any resource in the SENDOUT® model that is not part of a Resource Mix option, the overall portfolio cost changes only by the difference in the change to the fixed cost of the resource being adjusted. As such, any combination which includes an increase in the capital costs of the Granite Bridge Pipeline and LNG facility would effectively be equivalent to an increase

Docket No. DG 17-198 Request No. Staff 5-17 (Revised)

in the total portfolio cost by the magnitude of the requested increase to the Granite Bridge Pipeline and LNG facility.

- i. Please see the response to part a.i. above.
 - ii. Please see the response to part a.ii. above.
 - iii. The results of the requested analysis, using the “50% Demand Case,” and assuming a 25% increase in the capital costs for the Granite Bridge Pipeline and LNG facility are provided in Revised Attachment Staff 5-17.c.xlsx.
 - iv. The results of the requested analysis, using the “50% Demand Case,” and assuming a 50% increase in the capital costs for the Granite Bridge Pipeline and LNG facility are provided in Revised Attachment Staff 5-17.c.xlsx.
 - v. The results of the requested analysis, using the “Low Case,” and assuming a 25% increase in the capital costs for the Granite Bridge Pipeline and LNG facility are provided in Revised Attachment Staff 5-17.c.xlsx.
 - vi. Please note, as written this data request is the same as part c.iv; however, the Company assumes this data request was asking for an increase of 50% in capital cost and no Sales and Marketing adjustment. Therefore, the results of the requested analysis, using the “Low Case,” and assuming a 50% increase in the capital costs for the Granite Bridge Pipeline and LNG facility are provided in Revised Attachment Staff 5-17.c.xlsx.
 - vii. Please see the response to part b.i. above.
 - viii. Please see the response to part b.ii. above.
- d. For ease of reference, the Company has developed Revised Attachment Staff 5-17.d.xlsx, which provides the requested information for the following scenarios developed to-date:
- Response to CLF Tech 1-2
 - Response to OCA 6-3
 - Response to Staff 5-17.a
 - Response to Staff 5-17.b.i
 - Response to Staff 5-17.b.ii
 - Response to Staff 5-17.c

Note that the comparison begins in 2021–2022 as that is the anticipated in-service date of the Granite Bridge Pipeline. In addition, with respect to the unit costs (\$/Dth) provided in Revised Attachment Staff 5-17.d.xlsx, the Company notes that the actual/projected weighted average cost-of-gas rate for 2017–2018 is approximately \$6.86/Dth. Applying the weighted average cost-of-gas rate to the average annual residential customer usage of 78 Dth results in a total annual customer cost of approximately \$535.08.² This annual

² The annual customer cost is exclusive of the distribution charge, LDAC and customer charge which are detailed in the Company’s response to Staff 2-72. These distribution related charges are assumed to remain constant for all scenarios as the proposed Granite Bridge Pipeline and Granite Bridge LNG facility costs are included as cost-of-gas components in the SENDOUT® model.

Docket No. DG 17-198 Request No. Staff 5-17 (Revised)

customer cost should be used for comparative purposes in determining current customer cost impact relative to each of the SENDOUT® scenarios requested.

Confidential Attachment Staff 5-17.b.i.1 through Confidential Attachment Staff 5-17.b.i.7 and Confidential Attachment Staff 5-17.b.ii.1 through Confidential Attachment Staff 5-17.b.ii.7 contain third-party pricing information that is “confidential, commercial, or financial information” that is protected from disclosure by RSA 91-A:5, IV. The Commission granted confidential treatment to similar information in Order No. 26,166 (Aug. 1, 2018). Therefore, pursuant to that statute and Puc 203.08(d), the Company has a good faith basis to seek confidential treatment of this information and will submit a motion seeking confidential treatment prior to the final hearing in this docket.

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities

DG 17-198

Petition to Approve Firm Supply and Transportation Agreements and the
Granite Bridge Project

Staff Technical Session Data Requests - Set 1

Date Request Received: 5/30/18
Request No. Staff Tech 1-3

Date of Response: 6/13/18
Respondent: Francisco C. DaFonte

REQUEST:

With respect to the Technical Session Day 2 discussion of engineering completion for the proposed pipeline and LNG projects, please provide the following:

- a) Percent of design and engineering reported by the project manager as complete as of the time of the estimate of construction costs used in preparation of the Company's application in Docket No. DG 17-198; and
- b) Percent of design and engineering reported by the project manager as complete as of the present time.

RESPONSE:

- a) As stated in the Company's response to OCA 1-9, the first step in the development of any construction project is to perform a conceptual engineering study to determine the feasibility and preliminary cost estimate of the proposed project. Both the Granite Bridge Pipeline and the Granite Bridge LNG conceptual cost estimates were developed based on fully completed preliminary design work performed by the Company's expert engineering consultants. Further, as stated in the Company's responses to OCA 1-34 and Staff 1-19, the Company was able to validate the cost estimates for the Granite Bridge Pipeline and the Granite Bridge LNG facility through the use of the Handy Whitman Index on actual historical costs of similar pipeline and LNG projects and then reproduce those costs at prices prevailing at the current time.
- b) Following the conceptual engineering study detailed in part a) above, the next step is for the Company to develop a more detailed engineering design for the Granite Bridge Pipeline and Granite Bridge LNG projects. The engineering design is refined based upon environmental, surveying, and geotechnical investigation of the proposed route, within the New Hampshire Department of Transportation ("NHDOT") right-of-way. That is, the proposed Granite Bridge Pipeline route and the placement of the Granite Bridge LNG tank and appurtenant facilities is further defined based on environmental, geotechnical and route survey considerations. In the case of the Granite Bridge Pipeline project, the Company will be submitting a 30% completed engineering and design pipeline route to the NHDOT for their review and comment, which is expected to be in July or August of

Docket No. DG 17-198 Request No. Staff Tech 1-3

2018. The Company, and its expert consultants, have had numerous meetings with the NHDOT to date. The Company plans to continue to work collaboratively with the NHDOT on the refinement of the route within the right-of-way, leading up to its application with the New Hampshire Site Evaluation Committee (“NHSEC”) in late 2018 or early 2019. The conceptual engineering and preliminary route design already provided to the NHDOT is not expected to change significantly and, therefore, the cost estimate used by the Company to evaluate the economics of the project should not change materially. The engineering firm currently working to finalize the route design, CHI Engineering, together with the Company’s environmental permitting consultants, VHB, will obtain necessary permitting and develop the construction requirements. This work will help to further inform the cost estimates for the Granite Bridge Pipeline. However, the Company will not have final cost estimates until it solicits bids for final engineering, procurement, and construction (“EPC”) services, which is expected to occur following the submittal of the application for approval of the Granite Bridge Project with the NHSEC.

Similarly, the Company’s Owners Engineer for the Granite Bridge LNG facility, Sanborn Head, is working with VHB to finalize the necessary permitting for the proposed site of the LNG facility. Sanborn Head will continue to refine the design basis for the Granite Bridge LNG facility. This work will help to further inform the cost estimates for the Granite Bridge LNG facility but as with the Granite Bridge Pipeline, the Company will not have final cost estimates until it solicits bids for EPC services, which is also expected to occur following the submittal of the application for approval of the Granite Bridge Project with the NHSEC.

All that said, the design engineering services are approximately 10-15% complete. The Owners Engineering services are approximately 5-10% complete.

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DG 17-198

Petition to Approve Firm Supply and Transportation Agreements and the
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OCA Data Requests - Set 1

Date Request Received: 3/22/18
Request No. OCA 1-9

Date of Response: 4/5/18
Respondent: Francisco C. DaFonte

REQUEST:

Direct Testimony of Ms. Fleck and Mr. DaFonte: Bates page 17, lines 13-15.

- a. Did the Company solicit estimates from other consulting companies or construction contractors?
- b. If the response to part a. is in the negative, please explain why.
- c. If the response to part a. is in the affirmative, please provide those estimates.

RESPONSE:

- a. The first step in the development of any construction project is to perform a conceptual engineering study to determine the feasibility and preliminary cost estimate of the proposed project. As with all of its large construction projects, the Company selects an engineering firm to perform the conceptual engineering and feasibility study so that there isn't a duplication of effort and costs that would be borne by Liberty's customers. As such, the Company solicited bids from several engineering firms to perform the conceptual engineering for the Granite Bridge Pipeline and selected CHA Consulting, Inc. ("CHA") to perform that work. The Company has recently conducted a subsequent solicitation for bids to perform the design engineering for the Granite Bridge Pipeline. The design engineering firm will finalize the pipeline route, obtain necessary permitting, and develop the construction requirements. However, the Company will not have final cost estimates until it solicits bids for final engineering, procurement, and construction ("EPC") services.

As with the process outlined above, a conceptual engineering and feasibility study was conducted by engineering firm Sanborn, Head & Associates ("Sanborn Head") for the proposed Granite Bridge LNG facility. Once the conceptual design of the LNG facility was developed by Sanborn Head, a cost estimate for the LNG facility was developed. The LNG facility cost estimate was further reviewed by an LNG facility construction firm for reasonableness.

Docket No. DG 17-198 Request No. OCA 1-9

The Company is currently in the process of conducting a solicitation of bids for Owner's Engineering Services for the purpose of further refining and finalizing the LNG facility design and soliciting bids for EPC services.

In both cases, the Company will not solicit bids from EPC contractors until such time as it has received all the necessary federal and state permits and approvals from the various agencies and regulatory bodies including the New Hampshire Public Utilities Commission ("NHPUC") and the New Hampshire Site Evaluation Committee ("NHSEC").

- b. Please see the response to OCA 1-9(a) above.
- c. Please see the response to OCA 1-9(a) above.

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DG 17-198

Petition to Approve Firm Supply and Transportation Agreements and the
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OCA Data Requests - Set 1

Date Request Received: 3/22/18
Request No. OCA 1-30

Date of Response: 4/5/18
Respondent: Timothy S. Lyons

REQUEST:

Direct Testimony of Mr. Lyons: Bates page 81, lines 12-13. Please provide Exhibits TSL-2, TSL-3 and TSL-4 with the income taxes based on the recently passed tax reform legislation.

RESPONSE:

Please refer to workpaper ‘Confidential Attachment OCA 1-30.xlsm,’ which contains the proprietary model developed by ScottMadden, Inc.

The workpaper Confidential Attachment OCA 1-30.xlsm reflects two changes from workpaper ‘Confidential Attachment OCA 1-20.xlsm:’

- A decrease in the Federal Income Tax rate from 34.00 percent (used in workpaper Confidential Attachment OCA 1-20.xlsm) to 21.00 percent to reflect the Tax Cuts and Jobs Act signed into law on December 22, 2017.
- A modification to the tax depreciation schedule for the Granite Bridge LNG facility to reflect the Modified Accelerated Cost Recovery System (“MACRS”) table that provides for a recovery period of 15 years for LNG facilities.¹ The workpaper Confidential Attachment OCA 1-20.xlsm utilized a recovery period of 20 years based on gas utility distribution facilities. Please refer to Table B-2 below for the recovery periods.

¹ <https://taxmap.irs.gov/taxmap/graphics/13081f39.htm>

Docket No. DG 17-198 Request No. OCA 1-30

Table B-2: Table of Class Lives and Recovery Period²

Asset class	Description of assets included	Class Life (in years)	Recovery Periods (in years)	
			GDS (MACRS)	ADS
49.21	Gas Utility Distribution Facilities: Includes gas water heaters and gas conversion equipment installed by utility on customers' premises on a rental basis.	35	20	35
49.221	Gas Utility Manufactured Gas Production Plants: Includes assets used in the manufacture of gas having chemical and/or physical properties which do not permit complete interchangeability with domestic natural gas. Does not include gas-producing systems and related systems used in waste reduction and resource recovery plants which are elsewhere classified.	30	20	30
49.222	Gas Utility Substitute Natural Gas (SNG) Production Plant (naphtha or lighter hydrocarbon feedstocks): Includes assets used in the catalytic conversion of feedstocks or naphtha or lighter hydrocarbons to a gaseous fuel which is completely interchangeable with domestic natural gas.	14	7	14
49.223	Substitute Natural Gas – Coal Gasification: Includes assets used in the manufacture and production of pipeline quality gas from coal using the basic Lurgi process with advanced methanation. Includes all process plant equipment and structures used in this coal gasification process and all utility assets such as cooling systems, water supply and treatment facilities, and assets used in the production and distribution of electricity and steam for use by the taxpayer in a gasification plant and attendant coal mining site processes but not for assets used in the production and distribution of electricity and steam for sale to others. Also includes all other related land improvements. Does not include assets used in the direct mining and treatment of coal prior to the gasification process itself.	18	10	18
49.23	Natural Gas Production Plant	14	7	14
49.24	Gas Utility Trunk Pipelines and Related Storage Facilities: Excluding initial clearing and grading land improvements as specified in Rev. Rul. 72-40.	22	15	22
49.25	Liquefied Natural Gas Plant: Includes assets used in the liquefaction, storage, and regasification of natural gas including loading and unloading connections, instrumentation equipment and controls, pumps, vaporizers and odorizers, tanks, and related land improvements. Also includes pipeline interconnections with gas transmission lines and distribution systems and marine terminal facilities.	22	15	22

Confidential Attachment OCA 1-30.xlsm contains proprietary information of the Company's consultant, ScottMadden, Inc., that is protected from disclosure as "commercial" information pursuant to RSA 91-A:5, IV. Specifically, ScottMadden has developed and refined these spreadsheet files for use in its business and ScottMadden's competitive position would be harmed if other firms had unrestricted access to these files. Therefore, pursuant to Puc 203.08(d), the Company has a good faith basis to seek confidential treatment of this information and will submit a motion seeking confidential treatment prior to the final hearing in this docket. Confidential Attachment OCA 1-30.xlsm is being provided in electronic working spreadsheet (Microsoft Excel) format to OCA, Staff, and those non-competitive entities granted intervenor status who sign a Confidentiality Agreement. Redacted versions will not be provided.

² *Ibid.*

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities

DG 17-198

Petition to Approve Firm Supply and Transportation Agreements and the
Granite Bridge Project

OCA Data Requests - Set 1

Date Request Received: 3/22/18
Request No. OCA 1-34

Date of Response: 4/5/18
Respondent: Francisco C. DaFonte

REQUEST:

Direct Testimony of Mr. Lyons: Bates page 89, lines 5-7.

- a. Please provide the details behind the estimate of the initial capital cost. Furnish all documents that relate to CHA's estimation.
- b. Has the Company conducted any updated estimation after its petition was filed? If so please provide the estimate and supporting documentation.

RESPONSE:

- a. As described in the Company's response to OCA 1-9, CHA Consulting, Inc. ("CHA") performed the conceptual engineering design for the Granite Bridge Pipeline and provided a detailed cost estimate of approximately \$89 million as shown in Attachment OCA 1-34.a.1.xls.

In addition to the cost estimate provided by CHA, the Company performed its own cost estimate based on its actual costs to construct a similar high pressure (750 psig) 16-inch diameter pipeline to serve the AES Londonderry generating facility back in 2001. While that pipeline was only 2.8 miles in length, it also included a regulator station tie-in with the TGP Concord Lateral as well as a "smart pig" launcher and receiver similar to what would be included for the Granite Bridge Pipeline. The actual cost estimates for the AES Londonderry pipeline are provided in the "2001 Detailed Estimate" tab of Attachment OCA 1-34.a.2.xls. Since these costs were from 2001, the Company used the Handy-Whitman Index to take actual historical costs and reproduce those costs at prices prevailing at the current time. Separate indices are published for the electric, gas, and water industries. These are used by regulatory bodies, utilities, service companies, valuation engineers, as well as insurance companies. The Handy-Whitman calculation is provided in the "Granite Bridge Handy Whitman" tab of Attachment OCA 1-34.a.2.xls and the Handy-Whitman Index itself is provided in the "Handy Whitman Cost Index" tab of Attachment OCA 1-34.a.2.xls. The resulting conversion calculation results in a cost estimate for the Granite Bridge Pipeline of approximately \$102 million.

Docket No. DG 17-198 Request No. OCA 1-34

The cost difference between the two estimating approaches is \$13 million. The Company determined that the more conservative Handy-Whitman calculation was the more appropriate cost estimate to use in its analyses until such time as it conducts its design engineering and solicitation for a final cost to build estimate from engineering, procurement, and construction (“EPC”) contractors.

- b. The Company has not conducted any updated estimates since its petition was filed.

REDACTED

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities

DG 17-198

Petition to Approve Firm Supply and Transportation Agreements and the
Granite Bridge Project

OCA Data Requests - Set 1

Date Request Received: 3/22/18
Request No. OCA 1-36

Date of Response: 4/5/18
Respondent: James M. Stephens

REQUEST:

Direct Testimony of Mr. Lyons: Bates page 91, lines 8-17.

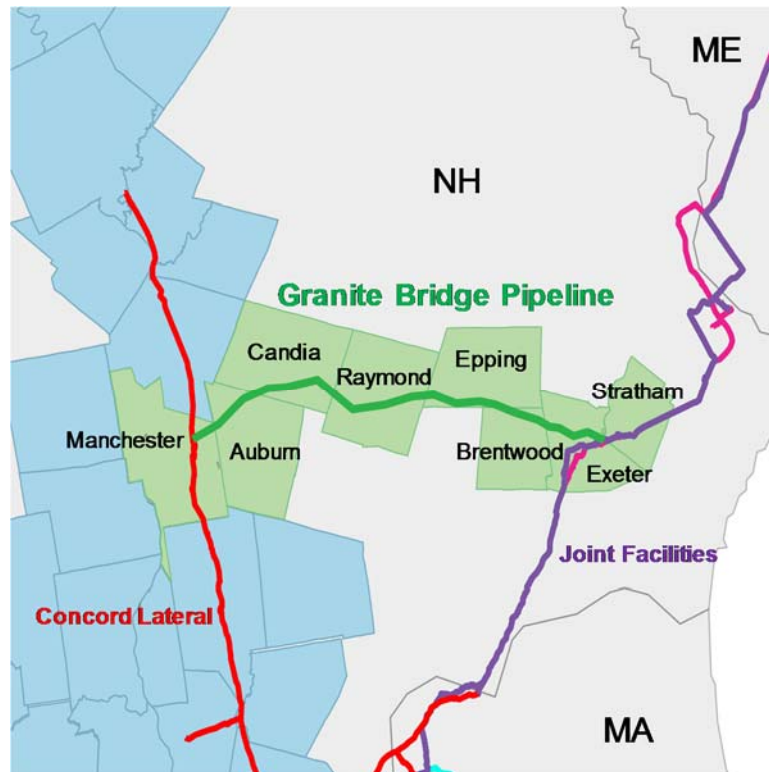
- a. Your testimony describes the Company's analysis of supply options, noting that Liberty calculated a unit cost for the Granite Bridge pipeline by dividing the levelized annual cost by the annual capacity, so as to facilitate an "apples to apples" comparison with other available sources of supply (in particular the TGP Concord Lateral Expansion project discussed in the Company's testimony). Do you agree with this approach as adopted by the Company?
- b. If the answer to part a. is yes, please explain why it suffices to compare only the per unit transportation cost (as specifically measured by the Company) to determine that the Granite Bridge Pipeline is more cost-effective overall than the TGP Concord Lateral expansion.

RESPONSE:

- a. As discussed in the testimony of Messrs. Killeen and Stephens, the Company evaluated two pipeline delivery options that could provide incremental gas supply to its service territory. One option for increased natural gas deliveries was an expansion of the existing Tennessee Gas Pipeline Company, LLC ("TGP") lateral to Concord, New Hampshire ("TGP Concord Lateral"), which currently is the only pipeline available to deliver natural gas supplies to the EnergyNorth service area.¹ The second option to deliver incremental gas supplies to EnergyNorth is the development of the Granite Bridge Pipeline, which as a new pipeline project, would serve as a second feed to the Company. As shown by the illustrative map below, the Granite Bridge Pipeline would originate at the Joint Facilities of Portland Natural Gas Transmission System ("PNGTS") and Maritimes and Northeast Pipeline ("M&NE"), traverse Route 101, which was designated as one of the state's Energy Infrastructure Corridors, and connect to the TGP Concord Lateral in the Manchester area.

¹ As noted in the testimony of Messrs. Killeen and Stephens, the town of Berlin is served directly by PNGTS, while the remaining EnergyNorth customers are served by the TGP Concord Lateral.

Docket No. DG 17-198 Request No. OCA 1-36 (Redacted)



To evaluate the expansion of the TGP Concord Lateral, the Company had discussions with TGP. Pursuant to those confidential discussions, the Company received an estimate of the capital costs and indicative rates for an expansion of approximately 75,000 Dth per day on the TGP Concord Lateral. Specifically, the daily rates provided by TGP to EnergyNorth for expanding the TGP Concord Lateral ranged from \$[REDACTED] to \$[REDACTED] per Dth.

To develop a comparable rate for service on the Granite Bridge Pipeline, the Company used a multi-step process to develop a levelized cost of service and resulting daily rate estimate of approximately \$0.47 per Dth. To maintain the “apples to apples” comparison the rate on the Granite Bridge Pipeline is based on a maximum daily volume of 75,000 Dth per day even though the facilities can support approximately 150,000 Dth per day.

Therefore, the Company relied on TGP to provide an estimate of the daily rate for an expansion of the TGP Concord Lateral and, using a detailed modeling approach, developed a daily rate for the Granite Bridge Pipeline thus allowing the rates to be compared on an “apples to apples” basis. This approach is reasonable and appropriate as discussed on Bates 177-178.

- b. While a comparison of the rate to expand the TGP Concord Lateral to the rate to develop the Granite Bridge Pipeline is appropriate as discussed in my response to OCA 1-36.a, the Company also reviewed the qualitative benefits of the Granite Bridge Pipeline as shown in the testimony of Messrs. Killeen and Stephens. Specifically, on Bates 178-181 the Company outlines several qualitative benefits of the Granite Bridge Pipeline. It is my understanding that the Company relied on the totality of the analysis (i.e., both

Docket No. DG 17-198 Request No. OCA 1-36 (Redacted)

quantitative and qualitative) to conclude that the Granite Bridge Pipeline was the preferred delivery option.

Finally, the upstream costs to provide service on the TGP Mainline (i.e., service from points upstream of Dracut) to the Company, as well as the price index associated with TGP Mainline expansion were reviewed resulting in that path not being considered for further evaluation. Specifically, as stated on Bates 185-186:

The Tennessee Mainline path was not included as a short-listed option for two primary reasons. First, the Tennessee Mainline is fully subscribed for capacity from west-to-east (e.g., from Wright, New York to Dracut, Massachusetts or EnergyNorth city-gates). Incremental capacity on the Tennessee Mainline associated with volumes originating at Wright or other points west of Dracut, would require incremental facilities on the Tennessee Mainline, which would be costly as evidenced by the estimated daily rate to expand the TGP Concord Lateral discussed above, or would require a greenfield expansion, such as the canceled TGP NED project.

Second, the PNGTS path provides access to the Dawn Hub, which is one of the more liquid natural gas trading points in North America, while the Tennessee Mainline path would originate at points west of Dracut, Massachusetts, such as Wright, New York. Although the Wright point may become more liquid if incremental gas pipeline capacity is constructed to Wright, it is considered a less liquid point today especially when compared to the Dawn Hub. As a result, the PNGTS path was the preferred pipeline option relative to a Tennessee Mainline option.

The shaded information above (redacted in the public version) is pricing information that is “confidential, commercial, or financial information” and thus is protected from disclosure by RSA 91-A:5, IV. TGP provided the information to the Company expressly under the terms of a non-disclosure agreement. Therefore, pursuant to that statute and Puc 203.08(d), the Company has a good faith basis to seek confidential treatment of this information and will submit a motion seeking confidential treatment prior to the final hearing in this docket.

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities

DG 17-198

Petition to Approve Firm Supply and Transportation Agreements and the
Granite Bridge Project

OCA Data Requests - Set 1

Date Request Received: 3/22/18
Request No. OCA 1-38

Date of Response: 4/5/18
Respondent: Francisco C. DaFonte

REQUEST:

Direct Testimony of Mr. Lyons: Bates page 92, lines 15-18.

- a. Please provide the details behind the estimated construction and engineering cost. Furnish all documents that relate to Sanborn Head's estimation.
- b. Has the Company conducted any updated estimation after its petition was filed? If so please provide the estimate and supporting documentation.

RESPONSE:

- a. The Company engaged the services of Sanborn, Head and Associates, Inc. ("Sanborn Head") to help identify a suitable site for the location of the proposed Granite Bridge LNG facility, and to provide a budgetary estimate to construct the proposed facility. Principals of Sanborn Head provided engineering services and were the Owner's Engineer for Yankee Gas, when it constructed the only full containment LNG facility in New England, in 2007 (i.e., the Waterbury, Connecticut LNG facility).

The Waterbury, Connecticut LNG facility is similar in facility functionality and layout to the proposed Granite Bridge LNG facility. Sanborn Head has also been recently engaged in relevant projects for other confidential clients. Given their extensive experience and expertise, the Company determined that Sanborn Head was well suited to provide the most accurate budgetary estimate to construct the proposed Granite Bridge LNG facility in advance of entering the preliminary engineering phase of the Granite Bridge project.

Attachment OCA 1-38.1 is the detailed budgetary cost estimate prepared by Sanborn Head in conjunction with Liberty. Attachment OCA 1-38.2 is a memo from Sanborn Head documenting the basis for the assumptions used in developing the budgetary cost estimates.

The Company believes that this cost estimate is appropriate to use for the purposes of conducting the overall economic analyses of the Granite Bridge Project relative to other supply alternatives. More detailed and refined cost estimates will be provided when the Company conducts its design engineering and solicitation for a final cost to build proposals from engineering, procurement, and construction ("EPC") contractors.

Docket No. DG 17-198 Request No. OCA 1-38

b. No.



Opinion of Probable Construction Cost

Client:	Liberty Utilities
Project:	Granite Bridge Proposed LNG Facility
Project Number:	4135.00
Revision Date:	10/3/2017

		Preliminary Cost Estimate	
	Liquefaction (MMscfd)	8	
	Storage (BCF)	2	
	Vaporization (MMscfd)	150	
ITEM	DESCRIPTION	Full Containment	Basis
1	Project Development - General		
a	Site Evaluation/assessment	\$ 235,000	LU/SH estimate based on prior project development work
b	Land Option	\$ 25,000	LU negotiated land option
c	Preliminary Design	\$ 200,000	SH Estimate
d	Community/Government Outreach	\$ 230,000	LU estimate based on prior project development experience
e	EPC RFP & Detailed Construction Estimate	\$ 250,000	LU/SH estimate based on prior project development work
f	SEC Filing/Permitting	\$ 1,260,000	LU estimate
	Project Development Subtotal	\$ 2,200,000	
2	LNG Plant		
a	Pretreatment/Liquefaction System (Nitrogen Closed Loop)	\$ 30,000,000	SH budgetary pricing from recent project development experience
	Gas Pretreatment System		included in Item 2a
	Nitrogen Makeup System		Included in Item 2a
	Gas Turbine Adder for Liquefaction System		No adder included; electric driven nitrogen compressor is proposed
b	Storage Tank (Field Erected with Foundation)	\$ 87,700,000	Multiple EPC contractors provided high level budgetary tank pricing; one EPC contractor provided refined budgetary pricing based upon being provided site-specific conditions; this budgetary price used in Item 2b NOTE: This pricing include 2-in tank LNG pumps and one spare pump tube
c	LNG Truck Loading Station (Including Truck Scales)	\$ 1,700,000	SH budgetary estimate from recent project development experience
d	Boiloff & Tailgas Handling System	\$ 2,500,000	SH budgetary estimate from recent project development experience
e	Booster Compressor	\$ -	Feed gas compressor not anticipated to be needed based on proposed feed gas supply pressure
f	Mechanical & Piping Systems	\$ 2,700,000	Estimate of cost to install interconnecting piping systems throughout the facility
g	Security, Electrical, Instrumentation & Control Systems	\$ 1,500,000	SH budgetary estimate from recent project development experience
h	Fire Water Storage Tank & Pumps	\$ 1,700,000	SH budgetary estimate from recent project development experience
i	Other Materials (Including Operating Spares)	\$ 1,800,000	Liberty and SH budgetary estimate from recent project development experience
j	Buildings (Erected Less Foundations & Electrical)	\$ 700,000	Estimate based on 2,300 SF of buildings, \$300/SF
k	Civil, Foundations & Piping Installation (Labor)	\$ 3,500,000	Labor estimated at 2% of LNG Plant subtotal
l	Electrical Construction Services (Labor)	\$ 1,800,000	Labor estimated at 1% of LNG Plant subtotal
m	Final Site Grading and Surface Treatment (Labor & Materials)	\$ 600,000	Liberty budgetary estimate from recent project development
n	Vaporization (Shell and Tube, 50% redundancy)	\$ 12,000,000	Includes building to house glycol heating/pumping system; SH budgetary pricing from recent project development experience
o	Electric generator for boil off (incremental)		Considered a placeholder for future value engineering
	LNG Plant Subtotal	\$ 148,200,000	
3	Land Development		
a	Access Road Installation	\$ 500,000	Estimate of portion of roadway to service LNG Facility downstream of the proposed M&R station
b	Site Preparation (Clearing & Rough Grading)	\$ 2,000,000	Liberty and Sanborn Head estimate based on prior project experience
c	Additional Drainage and Ledge Removal	\$ 400,000	Allowance
d	Utilities to Site (Electric, Water & Communications)	\$ 1,300,000	Liberty estimate based on prior project experience
e	Land: Plant Site (140 Acres)	\$ 4,000,000	Liberty negotiated land acquisition price
	Land Acquisition & Development Subtotal	\$ 8,200,000	
4	EPC Services		
a	Owner's Construction Oversight	\$ 3,200,000	Liberty and SH budgetary estimate from recent project development experience
	EPC Services Subtotal	\$ 3,200,000	
	Subtotal	\$ 161,800,000	
	Contingency 15%	\$ 23,666,250	
	Overheads	\$ 16,206,990	
	TOTAL	\$ 201,673,240	
	O&M	\$ 3,092,000	



MEMORANDUM

To: Chico DaFonte
From: Mike Nicoloro, Joan Fontaine
File: 4135.00
Date: March 30, 2018
Re: **Budgetary Pricing Commentary**
Granite Bridge LNG Facility
Epping, NH

Sanborn, Head & Associates, Inc. (Sanborn Head) has prepared this memorandum to document the basis for the cost line items in the Granite Bridge cost spreadsheet for the proposed 2 BCF storage tank, 150 MMSCFD vaporization, and 8 MMSCFD liquefaction facility that was developed by Liberty Utilities and Sanborn Head and submitted to the New Hampshire Public Utilities Commission (NH PUC) in December 2017. Liberty Utilities has received questions from the NH PUC, one of which is requesting the basis for budgetary pricing line items. The attached spreadsheet provides a brief statement for each line item in the spreadsheet.

Assumptions and aspects of the approach not specifically included in the spreadsheet are detailed below.

1. An odorization system is assumed to be provided as part of the metering and regulating system design.
2. There is adequate electric infrastructure available to service the facility.
3. There is adequate water supply to service the facility.
4. The budgetary pricing was based upon:
 - a. Budgetary pricing furnished by three reputable LNG EPC contractors.
 - b. Sanborn Head & Liberty Utilities budgetary estimates from recent project development experience.
5. This budgetary pricing is intended to primarily focus on major components (i.e., storage tank, liquefaction, vaporization) that make up the largest cost for the facility.
6. Facility design has not been performed at this juncture. However, a high-level design basis and a conceptual facility layout for the major components has been performed to validate that the facility can meet the siting requirements set forth in Title 49 CFR 193 and NFPA 59A.

JMF/MAN: jmf

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities

DG 17-198

Petition to Approve Firm Supply and Transportation Agreements and the
Granite Bridge Project

OCA Data Requests - Set 2

Date Request Received: 4/5/18
Request No. OCA 2-46

Date of Response: 5/9/18
Respondent: Francisco C. DaFonte

REQUEST:

Direct Testimony of Mr. Killeen and Mr. Stephens: Bates page 175, lines 9-10. Regarding expansion of existing facilities on the Tennessee system, please provide a copy of all correspondence between Liberty Utilities and TGP, and any internal documents that track the discussions that Liberty Utilities had with TGP.

RESPONSE:

Please see Confidential Attachment OCA 2-46.

The material marked as confidential in Confidential Attachment OCA 2-46 consists of the TGP pricing and closely related terms for which the Company sought protective treatment in the Motion for Protective Order filed at the outset of this docket. This information was provided to the Company on condition of confidentiality and TGP has declined to authorize public disclosure. The statutory basis for confidentiality is RSA 91-A:5, IV, which protects “confidential, commercial, or financial information,” especially of a third party.

Therefore, pursuant to that statute and Puc 203.08(d), the Company has a good faith basis to seek confidential treatment of this information and will submit a motion seeking confidential treatment prior to the final hearing in this docket.

Chico DaFonte

From: Stringer, Alison G <Alison_Stringer@kindermorgan.com>
Sent: Tuesday, April 04, 2017 4:51 PM
To: Chico DaFonte
Cc: Stokdyk, Michael A (Mike)
Subject: RE: TGP LDC Expansion - Follow-up Con Call

Thanks Chico. Let's do 10:30 EST/9:30 CST. I'll send out a meeting notice to hold it on the calendar.

From: Chico DaFonte [mailto:Chico.DaFonte@libertyutilities.com]
Sent: Tuesday, April 04, 2017 2:19 PM
To: Stringer, Alison G
Cc: Stokdyk, Michael A (Mike)
Subject: RE: TGP LDC Expansion - Follow-up Con Call

[This email message was received from the Internet and came from outside of Kinder Morgan]

Alison,

9-11 ET works as well as any time after 3:00.

Chico DaFonte | Liberty Utilities (New Hampshire) | Vice President, Energy Procurement
P: 603-216-3531 | C: 508-868-2271 | E: Chico.DaFonte@libertyutilities.com

From: Stringer, Alison G [mailto:Alison_Stringer@kindermorgan.com]
Sent: Tuesday, April 04, 2017 2:44 PM
To: Chico DaFonte <Chico.DaFonte@libertyutilities.com>
Cc: Stokdyk, Michael A (Mike) <Mike_Stokdyk@kindermorgan.com>
Subject: RE: TGP LDC Expansion - Follow-up Con Call

Chico – do you have time for a call tomorrow morning? Just wanted to follow-up on your email below....let me know some dates/times that work for you.

From: Chico DaFonte [mailto:Chico.DaFonte@libertyutilities.com]
Sent: Thursday, March 30, 2017 11:53 AM
To: Stringer, Alison G
Cc: Sculley, Coralie; Troutman, H Preston (Preston); Stokdyk, Michael A (Mike)
Subject: RE: TGP LDC Expansion - Follow-up Con Call

[This email message was received from the Internet and came from outside of Kinder Morgan]

Alison,

Thank you for the indicative rates. I wish they were lower but I understand the construction issues. While we are going to proceed with our lateral I would like to have the ability to contract with TGP for expansion volumes. My question would be whether we could execute a PA with a condition precedent that allows us to opt out after 12 months or upon receiving necessary approvals on the lateral. I understand it seems open ended but the timing should fall in line with the other LDCs in terms of making the necessary filings and receiving an order. To be clear, we would be filing for approval

of our own lateral but the Commission could rule against the lateral and in favor of the TGP alternative but it would be an order nonetheless. Let me know your thoughts.

Regards,

Chico DaFonte | Liberty Utilities (New Hampshire) | Vice President, Energy Procurement
P: 603-216-3531 | C: 508-868-2271 | E: Chico.DaFonte@libertyutilities.com

From: Stringer, Alison G [mailto:Alison_Stringer@kindermorgan.com]
Sent: Tuesday, March 28, 2017 6:12 PM
To: Chico DaFonte <Chico.DaFonte@libertyutilities.com>
Cc: Sculley, Coralie <Coralie_Sculley@kindermorgan.com>; Troutman, H Preston (Preston) <Preston_Troutman@kindermorgan.com>; Stokdyk, Michael A (Mike) <Mike_Stokdyk@kindermorgan.com>
Subject: RE: TGP LDC Expansion - Follow-up Con Call

Hi Chico,

Hope all is well. In response to your email below, attached are indicative facilities costs and associated rates based on your guidance related to the allocation of the deliveries.

Please review and let me know if you have questions or would like to discuss further.

Thanks!
Alison

From: Chico DaFonte [<mailto:Chico.DaFonte@libertyutilities.com>]
Sent: Thursday, March 09, 2017 7:33 AM
To: Troutman, H Preston (Preston)
Cc: Stringer, Alison G; Sculley, Coralie
Subject: TGP LDC Expansion - Follow-up Con Call

[This email message was received from the Internet and came from outside of Kinder Morgan]

Preston,

Following up on last week's meeting, I would like to get a cost estimate from TGP for an expansion of the Concord Lateral to accommodate an incremental 75,000 Dth/d of capacity. For cost estimate purposes you can assume an allocation of the new deliveries proportional to our historical usage at our existing meters. If it helps lower the cost by redistributing some of our existing capacity to other meters I would also like to know that cost. I envision that we could enter into a PA with an additional condition Precedent for us that allows for us to terminate within a specified period of time by which we would know whether we are moving forward with our own lateral. I would estimate that date to be 6-9 months from the effective date of the PA. Let me know if you have any questions or would like to discuss further.

Regards,

Chico DaFonte | Liberty Utilities (New Hampshire) | Vice President, Energy Procurement
P: 603-216-3531 | C: 508-868-2271 | E: Chico.DaFonte@libertyutilities.com

REDACTED
Docket No. DG 17-198
Attachment OCA 2-46
Page 3 of 22

THIS PAGE HAS BEEN REDACTED IN ITS ENTIRETY

Chico DaFonte

From: Stringer, Alison G <Alison_Stringer@kindermorgan.com>
Sent: Thursday, February 23, 2017 8:18 PM
To: 'Liz Arangio (Elizabeth.Arangio@us.ngrid.com)'; 'John Allocca (John.allocca@nationalgrid.com)'; 'Culliford, Nancy G. (Marketing)'; 'Samara Jaffe (Samara.Jaffe@nationalgrid.com)'; Chico DaFonte; 'John P. Rudiak (jrudiak@ctgcorp.com)'; 'Jennifer Boucher (jboucher@berkshiregas.com)'; 'Anthony (Tony) Contrino (acontrino@wgeld.org)'; 'MPranaitis@ctgcorp.com'; 'Mike Anderson - Nisource Gas Distribution (mdanderson@nisource.com)'; 'Edna Karanian (edna.karanian@eversource.com)'; 'eric.soderman@eversource.com'; Peter Eichler
Cc: Troutman, H Preston (Preston); Palmer Jr, Henry M (Milton); Piczak, Christopher T (Todd); Sculley, Coralie
Subject: TGP LDC Expansion - Follow-up Con Call

Good Evening,

It was great to see each of you last week. We appreciated the positive dialogue and feedback we received from the group. To further our discussions, we'd like to schedule a con call with the group sometime next week. TGP has been working diligently since we last met to develop a regulatory approach and structure that will meet the needs of all parties involved. Specifically, we'd like to share our thoughts related to the open season process, binding agreements, and overall timing.

The preferred days to target on our end would probably be Tuesday, Wednesday or Thursday.....Wednesday at 1 pm CST/2 pm EST could work well. Please take a look at your schedules and let us know what day/times would work best for each of you.

Thanks!

Alison Stringer

TGP Business Development, Manager

713-420-5176 (work)

281-814-7361 (cell)

AOL IM: agm5402

Tennessee Gas appreciates your business!



Chico DaFonte

From: Stringer, Alison G <Alison_Stringer@kindermorgan.com>
Sent: Monday, November 28, 2016 12:31 PM
To: Chico DaFonte
Cc: Sculley, Coralie
Subject: TGP Concord Lateral Follow-up and Holiday Event

Morning Chico,

Hope you had a great Thanksgiving! I wanted to circle back regarding our conversations related to the Concord Lateral and possible transport. We are continuing to look at it, but are running a little behind schedule from a timing perspective due to the holidays. Mike Stokdyk and I discussed with Coralie recently to bring her in-the-loop since she is your Account Manager. Because this would involve the potential for new transport as well as discussion around your existing transport portfolio, it's going to make sense for Coralie to take the lead on this issue. I'll help out where needed in a supporting role.

Coralie and I also wanted to just touch base to see if you will be attending the TGP Holiday Event next week on December 7. We are trying to get a final headcount today if at all possible. Would love for you to attend, so let us know your thoughts as soon as you can.

Thanks!

Alison Stringer

TGP Business Development, Manager

713-420-5176 (work)

281-814-7361 (cell)

AOL IM: agm5402

Tennessee Gas appreciates your business!



Chico DaFonte

From: Stringer, Alison G <Alison_Stringer@kindermorgan.com>
Sent: Tuesday, November 08, 2016 3:52 PM
To: Chico DaFonte
Cc: Stokdyk, Michael A (Mike)
Subject: RE: Concord Lateral Follow-up

Sounds good Chico....will send out a meeting notice and con call info.

From: Chico DaFonte [mailto:Chico.DaFonte@libertyutilities.com]
Sent: Tuesday, November 08, 2016 2:32 PM
To: Stringer, Alison G
Cc: Stokdyk, Michael A (Mike)
Subject: RE: Concord Lateral Follow-up

[This email message was received from the Internet and came from outside of Kinder Morgan]

Alison,

I haven't heard back from our engineering folks but let's plan to have a call at 3:00 EST on Thursday.

Regards,

Chico DaFonte | [Liberty Utilities \(New Hampshire\)](#) | Vice President, Energy Procurement
P: 603-216-3531 | C: 508-868-2271 | E: Chico.DaFonte@libertyutilities.com

From: Stringer, Alison G [mailto:Alison_Stringer@kindermorgan.com]
Sent: Tuesday, November 08, 2016 12:10 PM
To: Chico DaFonte <Chico.DaFonte@libertyutilities.com>
Cc: Stokdyk, Michael A (Mike) <Mike_Stokdyk@kindermorgan.com>
Subject: Concord Lateral Follow-up

Morning Chico,

Mike and I wanted to schedule a follow-up call with you to further discuss the build over to the Concord Lateral around Manchester. Right now, Thursday afternoon or Friday morning looks to be the best time from our end. Let us know your preference. Also, feel free to pull in someone from your Engineering/System Planning group as Mike will be discussing some of the hydraulic modelling that he has looked at on our end.

Thanks!

Alison Stringer
TGP Business Development, Manager
713-420-5176 (work)
281-814-7361 (cell)
AOL IM: agm5402
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Company, L.L.C.
a Kinder Morgan company

Chico DaFonte

From: Stringer, Alison G <Alison_Stringer@kindermorgan.com>
Sent: Tuesday, September 13, 2016 5:08 PM
To: Chico DaFonte
Cc: Troutman, H Preston (Preston)
Subject: FW: TGP LDC Group Meeting - Follow-up

Hi Chico,

Hope all is well. Per my email below, I wanted to circle back and see if you have any additional feedback to share relative to your receipt/delivery combinations, volumes, and timing. Please let us know your thoughts or feel free to call if it would be easier to discuss by phone.

Thanks!
Alison

From: Stringer, Alison G
Sent: Thursday, September 08, 2016 12:42 PM
To: John P. Rudiak (jrudiak@ctgcorp.com); Karen Zink (kzink@berkshiregas.com); Jennifer Boucher (jboucher@berkshiregas.com); Anthony (Tony) Contrino (acontrino@wgeld.org); Liz Arangio (Elizabeth.Arangio@us.ngrid.com); Mike Anderson - Nisource Gas Distribution (mdanderson@nisource.com); Elizabeth.Arangio@nationalgrid.com; F. Chico DaFonte (chico.dafonte@libertyutilities.com)
Cc: Watson, Kimberly; Troutman, H Preston (Preston); Sculley, Coralie
Subject: TGP LDC Group Meeting - Follow-up

Good Afternoon,

Hope your week is going well. I wanted to briefly follow-up with the group on a few items:

- We did not specifically discuss during our meeting on August 31st, but it would be helpful if each of you could provide your preferred in-service date for the expansion capacity that is under discussion. This will simply allow us to better understand your need and desired timing.
- We also look forward to hearing back from you regarding your desired volumes as well as receipt/delivery point combinations by tomorrow afternoon (September 9). This will allow our team to better define the required facilities, develop PM quality estimates, and ultimately provide you with refined project rates in a timely manner.
- From our end, we kicked-off the process of developing draft PAs this week and intend to have a draft ready for the group to review by September 16. We also intend to begin working with our Regulatory and Legal groups early next week to discuss and develop a preliminary filing strategy.

Please reach out if you have any questions or would like to discuss further. We look forward to hearing back from each of you.

Thanks!

Alison Stringer
TGP Business Development, Manager
713-420-5176 (work)
281-814-7361 (cell)
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Chico DaFonte

From: Stringer, Alison G <Alison_Stringer@kindermorgan.com>
Sent: Thursday, September 01, 2016 4:11 PM
To: Chico DaFonte
Subject: FW: TGP EnergyNorth/Liberty Expansion
Attachments: Energy North Liberty Scenarios 082516 EXTERNAL.pdf

Hi Chico,

It was great to see you yesterday in Boston.....I wanted to go ahead and re-send the attached just to be sure you have it. As always, let us know if you have questions/concerns.

Thanks!
Alison

From: Stringer, Alison G
Sent: Thursday, August 25, 2016 12:47 PM
To: F. Chico DaFonte (chico.dafonte@libertyutilities.com)
Cc: Troutman, H Preston (Preston); Sculley, Coralie
Subject: TGP EnergyNorth/Liberty Expansion

Afternoon Chico,

Hope all is well. Attached is a revised summary of expansion scenarios for Liberty based on our recent discussions. Please review and let us know if you have any questions or would like to discuss further.

We look forward to seeing you next week in Boston.

Thanks!

Alison Stringer
TGP Business Development, Manager
713-420-5176 (work)
281-814-7361 (cell)



REDACTED
Docket No. DG 17-198
Attachment OCA 2-46
Page 11 of 22

THIS PAGE HAS BEEN REDACTED IN ITS ENTIRETY

Chico DaFonte

From: Stringer, Alison G <Alison_Stringer@kindermorgan.com>
Sent: Thursday, August 25, 2016 1:47 PM
To: Chico DaFonte
Cc: Troutman, H Preston (Preston); Sculley, Coralie
Subject: TGP EnergyNorth/Liberty Expansion
Attachments: Energy North Liberty Scenarios 082516 EXTERNAL.pdf

Follow Up Flag: Flag for follow up
Flag Status: Flagged

Afternoon Chico,

Hope all is well. Attached is a revised summary of expansion scenarios for Liberty based on our recent discussions. Please review and let us know if you have any questions or would like to discuss further.

We look forward to seeing you next week in Boston.

Thanks!

Alison Stringer
TGP Business Development, Manager
713-420-5176 (work)
281-814-7361 (cell)



REDACTED

Docket No. DG 17-198

Attachment OCA 2-46

Page 13 of 22

THIS PAGE HAS BEEN REDACTED IN ITS ENTIRETY

Chico DaFonte

From: Stringer, Alison G <Alison_Stringer@kindermorgan.com>
Sent: Thursday, August 18, 2016 4:43 PM
To: Chico DaFonte
Cc: Troutman, H Preston (Preston); Sculley, Coralie
Subject: TGP Liberty Deliveries

Importance: High

Afternoon Chico,

Hope all is well. Based on your recent feedback, we have finalized the required expansion facilities and associated costs for Liberty's desired deliveries on the Concord Lateral. We'd like to go ahead and schedule a quick con call to review these items with you in advance of our meeting on August 31st. Could you be available for a call tomorrow or early next week to discuss?

Let me know what date/time would work best for you and I will arrange a con call.

Thanks!

Alison Stringer

TGP Business Development, Manager
713-420-5176 (work)
281-814-7361 (cell)
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Chico DaFonte

From: Stringer, Alison G <Alison_Stringer@kindermorgan.com>
Sent: Friday, August 05, 2016 11:14 AM
To: Chico DaFonte
Subject: RE: TGP Liberty Deliveries

Morning Chico,

I will visit with our planning engineer (Mike Stokdyk) to see if we can come up with some optimal receipt volume at ENGIE that would result in the lowest rate for you guys. Mike is going to be out on vacation for the next week so I will visit with him about this when he returns. My understanding is that additional facilities are required in order move volumes from ENGIE up to your deliveries on the Concord Lateral (but let me verify that's accurate for existing business as well as incremental business). Specifically, I believe it is looping on our 200-2 mainline that is contributing the increased capital costs and thus the increased rate. A Dracut receipt is just much closer in proximity to your deliveries and thus requires less facilities....primarily facilities on the Concord and Nashua Lateral only.

I appreciate the continued feedback to assist us in refining these scenarios for you guys. Let me know if you have additional questions/concerns.

Thanks!
Alison

From: Chico DaFonte [mailto:Chico.DaFonte@libertyutilities.com]
Sent: Thursday, August 04, 2016 7:47 PM
To: Stringer, Alison G
Subject: Re: TGP Liberty Deliveries

Alison,

If I'm simply moving my receipt point from Dracut, I would think that the billing determinants would bring down the rate unless, the additional 25,000 requires additional facilities at ENGIE? Is there an optimal receipt volume at ENGIE that would create the lowest rate? Let me know your thoughts.

Regards,

F. Chico DaFonte
Cell: 508 868-2271

ATTENTION: This message and all attachments are PRIVATE, and may contain information that is CONFIDENTIAL and PRIVILEGED. If you received this message in error, please notify sender by reply e-mail and delete the message immediately.

Sent from my iPad

On Aug 4, 2016, at 5:52 PM, Stringer, Alison G <Alison_Stringer@kindermorgan.com> wrote:

Chico,

Already received some feedback from our planning engineer as he is looking at the hydraulics for ENGIE sourced supplies for both the base and incremental business. The approximate uptick in rates is [REDACTED] [REDACTED] Given this, would you still like us to assume the 25K/d of ENGIE sourced supply on your existing business as well as the 25K/d of ENGIE sourced supply for your incremental business? Or would you rather revert back to Dracut for some or all of the incremental volumes?

Thanks!

Alison

From: Chico DaFonte [<mailto:Chico.DaFonte@libertyutilities.com>]
Sent: Thursday, August 04, 2016 2:52 PM
To: Stringer, Alison G
Subject: RE: TGP Liberty Deliveries

Alison,

I would take the volumes from Londonderry (we don't really have much market there) and move them to Laconia/Concord where we have more growth. Also, could you look at moving 25,000 of existing Dracut receipts to ENGIE?

Thanks!

F. Chico DaFonte | Liberty Utilities

Vice President, Energy Procurement
P: 603-216-3531 | C: 508-868-2271
E: chico.dafonte@libertyutilities.com
15 Buttrick Road, Londonderry, NH 03053

<image001.png>

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From: Stringer, Alison G [<mailto:Alison.Stringer@kindermorgan.com>]
Sent: Thursday, August 04, 2016 3:31 PM
To: Chico DaFonte <Chico.DaFonte@libertyutilities.com>
Subject: RE: TGP Liberty Deliveries

Chico,

We were assuming all 50,000 Dth/d was incremental to your existing business. We can definitely look at the possibility of moving your existing Dracut receipts to ENGIE. Do you want us to look at moving all 50K/d of the existing Dracut receipts to ENGIE or just a portion? Beyond that, what incremental volume do you want us to assume and how would you like to allocate between ENGIE and Dracut?

Regarding the delivery point allocations, we utilized the last round of feedback as a starting point (attached). My understanding is that we arrived at that allocation by doing some internal analysis of your currently contracted TQ by meter as well as current flow levels at each meter, and then tried to project where you would need the incremental volumes the most. This time we just took the original

allocation and tweaked it by sourcing the 29,317 Dth/d to Nashua from both ENGIE (25,000 Dth/d) and Dracut (4,317 Dth/d) .

Let me know your thoughts or feel free to call to discuss.

Thanks!
Alison

From: Chico DaFonte [<mailto:Chico.DaFonte@libertyutilities.com>]
Sent: Thursday, August 04, 2016 1:49 PM
To: Stringer, Alison G
Subject: RE: TGP Liberty Deliveries

Alison,

Is the 50,000 all incremental capacity? Can you also look at the possibility of moving our existing Dracut receipts to ENGIE? Lastly, how did you do the allocations on your delivery points?

Thanks!

F. Chico DaFonte | Liberty Utilities
Vice President, Energy Procurement
P: 603-216-3531 | C: 508-868-2271
E: chico.dafonte@libertyutilities.com
15 Buttrick Road, Londonderry, NH 03053

<image001.png>

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From: Stringer, Alison G [mailto:Alison_Stringer@kindermorgan.com]
Sent: Thursday, August 04, 2016 12:35 PM
To: Chico DaFonte <Chico.DaFonte@libertyutilities.com>
Subject: TGP Liberty Deliveries
Importance: High

Morning Chico,

It was great to see you yesterday in Boston. We appreciated the dialogue and feedback received from each of the LDC participants. As discussed, I wanted to follow-up and ensure that we have correctly laid out your desired receipt and deliveries below (also attached in excel). We made some assumptions as to how you would want to allocate the deliveries across your city gates and also how you would want to split the receipts between Engie/Distrigas and Dracut.

Please review and let me know if there are any changes you would like us to make. We can certainly discuss by phone as well if it would be easier.

EnergyNorth (Liberty)

Facilities/LDC	Receipts	Deliveries	TQ
-----------------------	-----------------	-------------------	-----------

Concord			
EnergyNorth	Engie	Nashua	25,000
EnergyNorth	Dracut	Suncook	1,768
EnergyNorth	Dracut	Manchester	8,696
EnergyNorth	Dracut	Londonderry	10,220
EnergyNorth	Dracut	Nashua	4,317
Total			50,001

Thanks!

Alison Stringer

TGP Business Development, Manager

713-420-5176 (work)

281-814-7361 (cell)

AOL IM: agm5402

<image002.jpg>

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Chico DaFonte

From: Stringer, Alison G <Alison_Stringer@kindermorgan.com>
Sent: Thursday, August 04, 2016 3:31 PM
To: Chico DaFonte
Subject: RE: TGP Liberty Deliveries
Attachments: EnergyNorth Summary 5-26-16.pdf

Chico,

We were assuming all 50,000 Dth/d was incremental to your existing business. We can definitely look at the possibility of moving your existing Dracut receipts to ENGIE. Do you want us to look at moving all 50K/d of the existing Dracut receipts to ENGIE or just a portion? Beyond that, what incremental volume do you want us to assume and how would you like to allocate between ENGIE and Dracut?

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Let me know your thoughts or feel free to call to discuss.

Thanks!
Alison

From: Chico DaFonte [mailto:Chico.DaFonte@libertyutilities.com]
Sent: Thursday, August 04, 2016 1:49 PM
To: Stringer, Alison G
Subject: RE: TGP Liberty Deliveries

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Thanks!

F. Chico DaFonte | Liberty Utilities
Vice President, Energy Procurement
P: 603-216-3531 | C: 508-868-2271
E: chico.dafonte@libertyutilities.com
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From: Stringer, Alison G [<mailto:Alison.Stringer@kindermorgan.com>]
Sent: Thursday, August 04, 2016 12:35 PM
To: Chico DaFonte <Chico.DaFonte@libertyutilities.com>
Subject: TGP Liberty Deliveries
Importance: High

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EnergyNorth (Liberty)

Facilities/LDC	Receipts	Deliveries	TQ
Concord			
EnergyNorth	Engie	Nashua	25,000
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EnergyNorth	Dracut	Manchester	8,696
EnergyNorth	Dracut	Londonderry	10,220
EnergyNorth	Dracut	Nashua	4,317
Total			50,001

Thanks!

Alison Stringer

TGP Business Development, Manager
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EnergyNorth (Liberty)

Facilities/LDC	Meters	NED Volume	Existing Dracut K Volume	Alternative Project Volume	Path Rate
Concord- Dracut Receipt					
EnergyNorth	Suncook	0	0	1,768	
EnergyNorth	Manchester	12,000	12,000	8,696	
EnergyNorth	Londonderry	0	0	10,220	
EnergyNorth	Nashua	8,000	8,000	29,317	
EnergyNorth	Laconia	30,000	30,000	0	NA
EnergyNorth	W. Nashua	65,000	0	0	NA
	Total	115,000	50,000	50,001	

Facilities	Ball-Park (\$-MM)*	Total Thruput (Dth/d)	Segment Rate (\$/Dth/d)
		50,000	
		50,000	
		50,000	
Meters Upgrades- need to verify meter capacities	<u>\$0.0</u>		

*All capital estimates are preliminary and subject to verification by Project Management.

EnergyNorth (Liberty)

Facilities/LDC	Receipts	Deliveries	TQ
Concord			
EnergyNorth	Engie	Nashua	25,000
EnergyNorth	Dracut	Suncook	1,768
EnergyNorth	Dracut	Manchester	8,696
EnergyNorth	Dracut	Londonderry	10,220
EnergyNorth	Dracut	Nashua	4,317
		Total	50,001

REVISED

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities

DG 17-198

Petition to Approve Firm Supply and Transportation Agreements and the
Granite Bridge Project

OCA Data Requests - Set 2

Date Request Received: 4/5/18
Request No. OCA 2-79

Date of Response: 5/23/18
Respondent: James M. Stephens
Kim N. Dao

REQUEST:

Direct Testimony of Mr. Killeen and Mr. Stephens: Bates page 192, lines 1-5. Please provide the Dracut-focused data discussed in lines 1-5 in live EXCEL format, and furnish all relevant worksheets/workpapers that inform the pricing data.

RESPONSE:

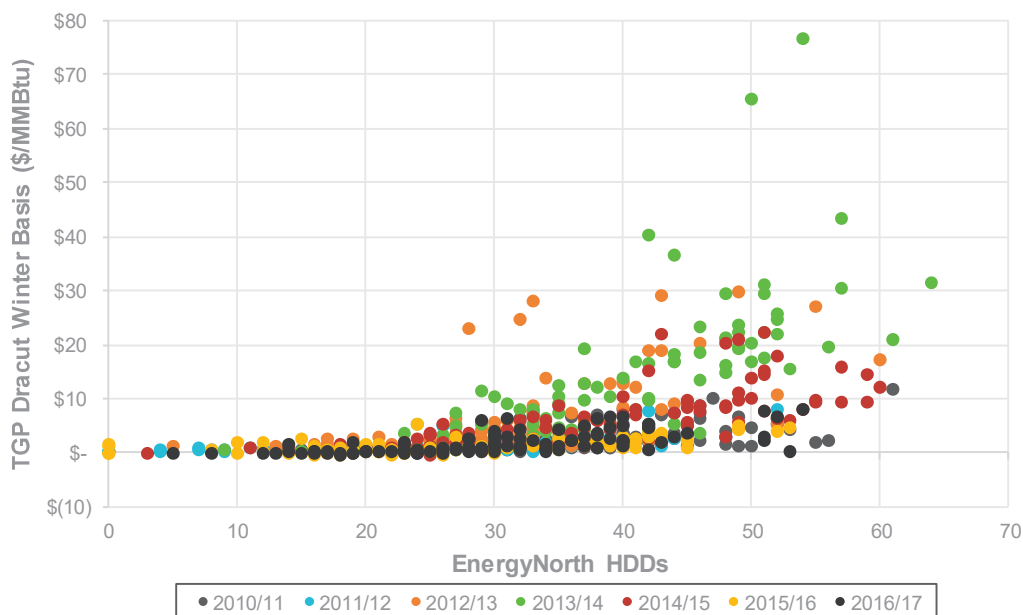
As discussed in the responses to OCA 2-72 and Staff 2-53, the New England natural gas prices, as represented by the TGP Dracut price index, have exhibited higher price levels and more volatility relative to the Dawn and Henry Hub price indices over the winters of 2009/10 through 2017/18. Given the variability of TGP Dracut daily pricing in the winter period (i.e., the time when the Company is experiencing high demand for heating from its residential and commercial customers), a daily price string for TGP Dracut was developed for the winter period using the Palisades @Risk software.

The @Risk software performs risk analysis using a Monte Carlo simulation method, which results in a distribution of possible outcomes and probability of occurrence. Specifically, a Monte Carlo simulation analysis consists of the following two distinct operations based on the statistical relationships of the underlying data: (1) values are selected based on the probability distribution functions defined in the input cells of the specified model (i.e., sampling); and (2) recalculates (i.e., draws) using a new set of sampled values with each recalculation (i.e., draw) called an "iteration." The @RISK software then generates output distributions by consolidating the output values from all of the iterations.

In this case, the @Risk software was used to analyze and model the relationship between winter weather and the daily TGP Dracut to Henry Hub basis differential. The scatterplot below (see Figure OCA 2-79.1) illustrates the relationship between weather, using actual heating degree days ("HDDs") for EnergyNorth's service territory, and winter basis differentials between TGP Dracut and Henry Hub, using proprietary daily pricing data from S&P Global Market Intelligence, over the seven winters from 2010/11 through 2016/17 (excluding weekends and holidays).

Docket No. DG 17-198 Request No. OCA 2-79 (Revised)

Figure OCA 2-79.1



As shown by Figure OCA 2-79.1, once the HDD level approaches or exceeds 20 HDDs, the probability of a high TGP Dracut basis value significantly increases. Therefore, days that have colder weather are also likely to have higher and more volatile TGP Dracut basis differentials.

The historical relationship between daily weather and the TGP Dracut basis differentials was different across each of the winter months (i.e., November, December, January, February, and March). By way of example, there were a total of 716 observations in the analysis period with 180 observations that exceeded 40 HDDs, of which 2, 27, 68, 60, and 23 occurred in November, December, January, February, and March, respectively. Stated differently, based on the actual daily winter data over the 2010/11 through 2016/17 time period, there is a chance of having an HDD greater than 40 in December, January, February, or March; however, there is a higher probability of having an HDD greater than 40 in January or February as compared to December or March. In addition to the various probabilities of occurrence, the TGP Dracut basis value for an HDD greater than 40 varies by individual month. Specifically, the average TGP Dracut basis value for an HDD greater than 40 was approximately \$9.15, \$11.47, \$11.20, and \$10.00 per MMBtu for December, January, February, and March, respectively. In other words, an HDD of greater than 40 in January will likely result in a higher TGP Dracut basis value than in March. As a result, models for each individual winter month were developed using the following approach:

- First, for each winter month, a distribution formula for (1) weather was defined using a normal distribution, and (2) TGP Dracut basis was defined using a lognormal distribution where values are positively skewed and exhibit high kurtosis values (i.e., level of outlier observations). Figure OCA 2-79.2 below is the distribution of weather data for January, while Figure OCA 2-79.3 is the distribution of TGP Dracut basis data for January, which illustrates the normal distribution of weather observations and the skewed, high kurtosis distribution of the TGP Dracut basis data.

Docket No. DG 17-198 Request No. OCA 2-79 (Revised)

- Second, the relationship (i.e., correlation) between weather and daily TGP Dracut basis was defined and modeled for each winter month. Figure OCA 2-79.4 below illustrates the historical weather and TGP Dracut basis differentials for January.
- Finally, a Monte Carlo simulation with 100,000 iterations was performed based on the defined distribution formulas for each winter month. The simulation run resulted in 100,000 basis observations across a range of HDDs for each winter month. Figure OCA 2-79.5 is a scatterplot of the simulation results (i.e., 100,000 observations) for January.

Please see the worksheet tab for each individual winter month and the “Results 100,000 Iterations” worksheet provided in Confidential Attachment OCA 2-79.xlsx. Please note that the @Risk software uses special formulas; and without the @Risk add-in, Excel cannot interpret the @Risk formulas and, therefore, the formulas are shown as errors.

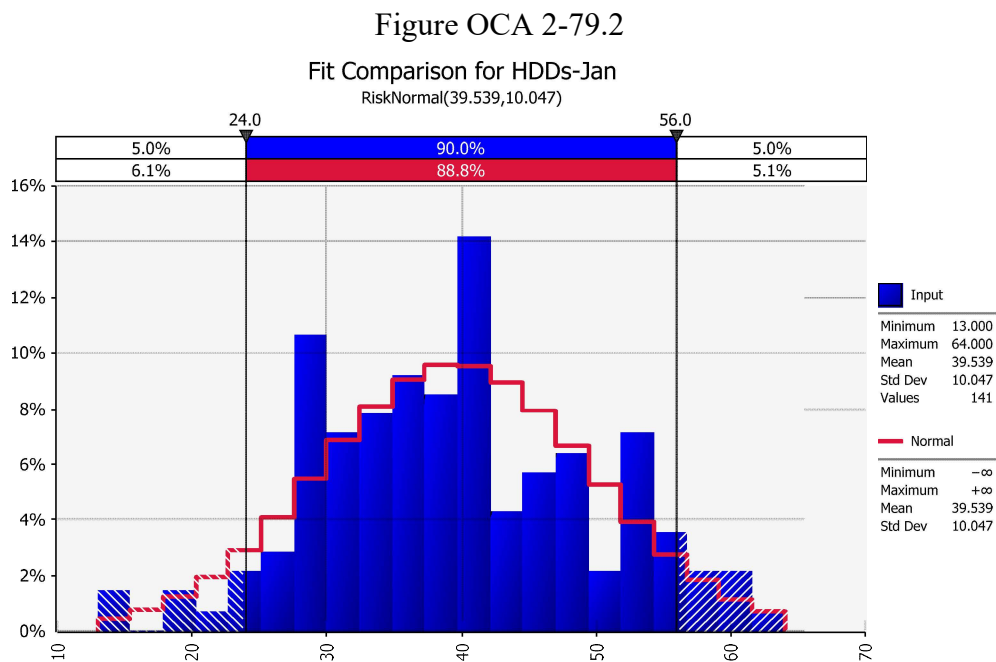


Figure OCA 2-79.3

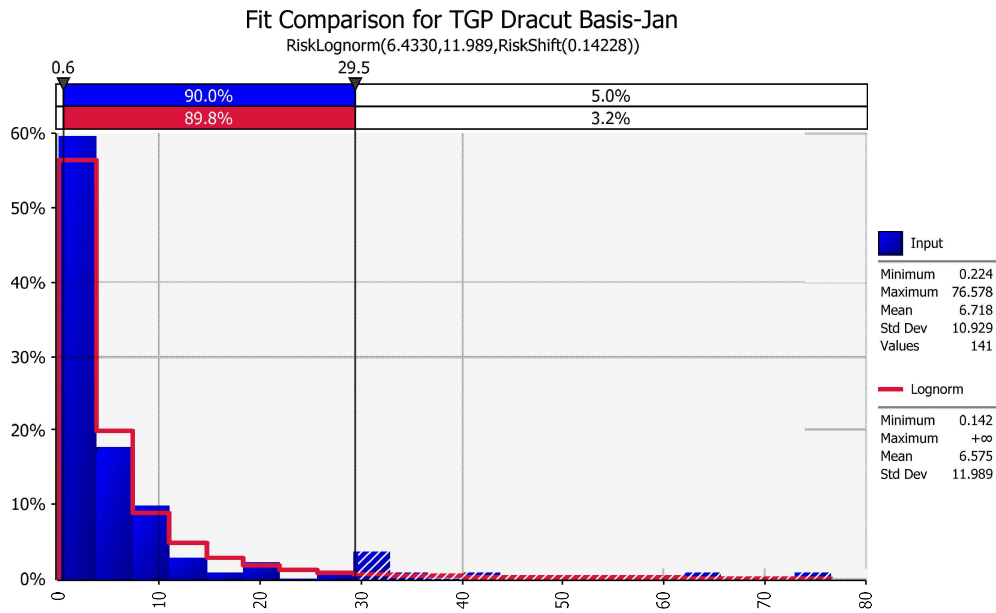
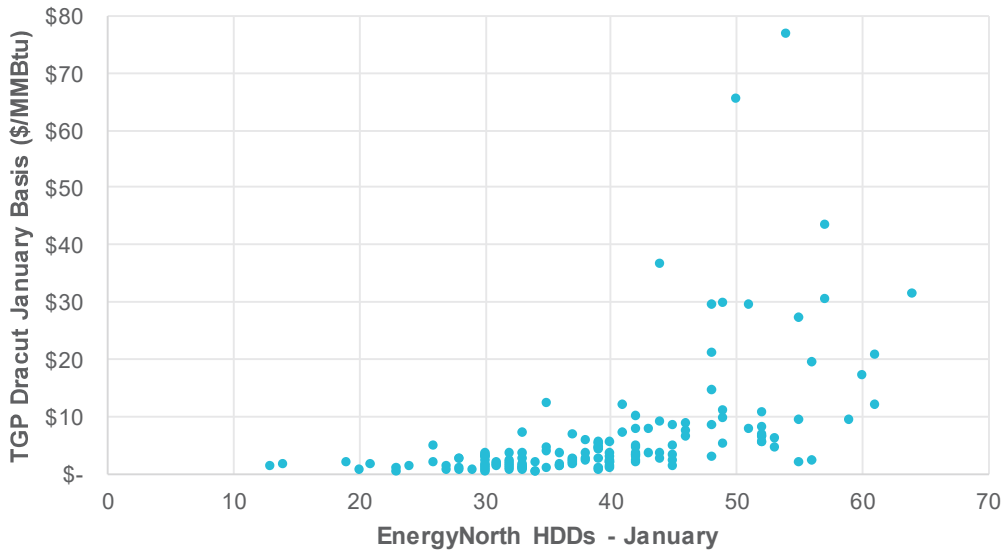


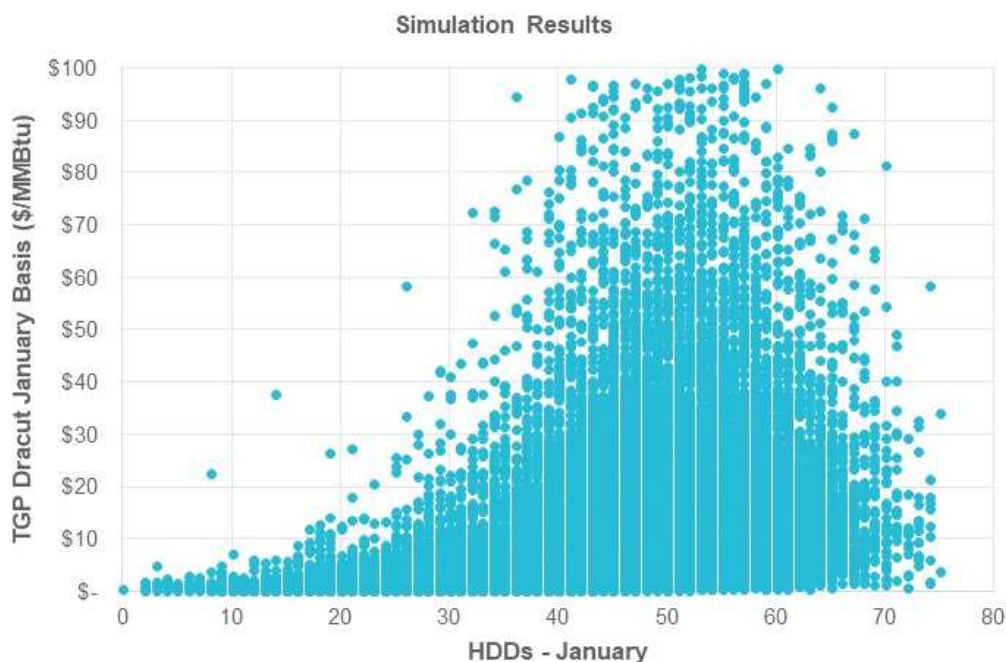
Figure OCA 2-79.4

Historical Data (2010/11 - 2016/17)



Docket No. DG 17-198 Request No. OCA 2-79 (Revised)

Figure OCA 2-79.5



From the @Risk simulation runs (i.e., 100,000 basis observations), the average TGP Dracut basis differential at each HDD level was calculated for each winter month (provided in the “Results Summary” worksheet of Confidential Attachment OCA 2-79.xlsx). For example, Table OCA 2-79 summarizes the simulation results for each winter month at a 49 HDD level.

Table OCA 2-79

HDDs = 49	November	December	January	February	March
Number of Observations	42	638	2,535	2,002	644
Average TGP Dracut Basis	\$3.77	\$8.90	\$11.73	\$15.38	\$8.58

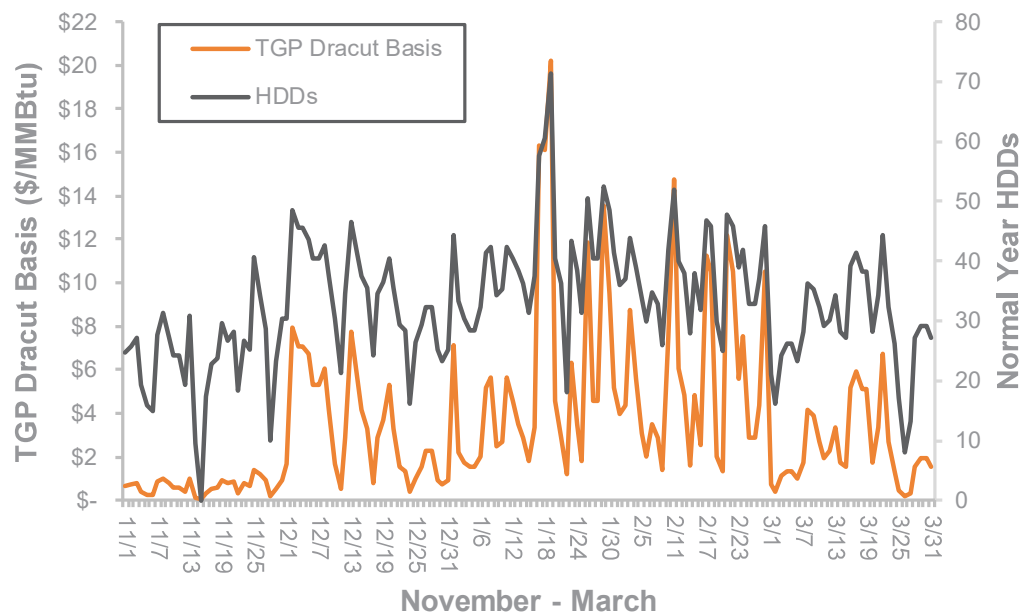
As shown by Table OCA 2-79, the probability of occurrence and average TGP Dracut basis is specific to the winter month. Specifically, there is a higher probability of having 49 HDDs in January (i.e., 2,535 out of 100,000 observations, or approximately 2.5% of the observations) as compared to March (i.e., 644 out of 100,000 observations, or approximately 0.6% of the observations). In addition, a 49 HDD in January has a higher TGP Dracut basis value than a 49 HDD in March (i.e., an average TGP Dracut basis of \$11.73 per MMBtu in January compared to \$8.58 per MMBtu in March).

Next, using the daily weather conditions (i.e., Normal Year HDDs) as defined in the Company’s demand forecast model, a daily TGP Dracut basis was defined for the Normal Year which shows variation in daily TGP Dracut basis for the winter period (provided in the “TGP Dracut” worksheet of Confidential Attachment OCA 2-79.xlsx). However, since the @Risk simulations were based on historical TGP Dracut basis and weather, and the forward TGP Dracut basis

Docket No. DG 17-198 Request No. OCA 2-79 (Revised)

values are lower than historical values, the @Risk results were calibrated (i.e., reduced) to the average monthly forward TGP Dracut basis values for the 10 forward years as of August 18, 2017, from S&P Global Market Intelligence (provided in the “S&P Global” worksheet of Confidential Attachment OCA 2-79.xlsx). The resulting daily TGP Dracut basis under EnergyNorth’s Normal Year weather conditions is illustrated in Figure OCA 2-79.6 below and provided in the “TGP Dracut” worksheet of Confidential Attachment OCA 2-79.xlsx. This daily price string provides a more informative modeling assumption for the winter TGP Dracut basis and was used in the Company’s SENDOUT® model.

Figure OCA 2-79.6



Finally, as discussed on Bates 192R of the Direct Testimony of William R. Killeen and James M. Stephens, the summer prices for Dracut supplies were based on the monthly closing prices on August 18, 2017, from S&P Global Market Intelligence as provided in the “S&P Global” worksheet of Confidential Attachment OCA 2-79.xlsx.

Confidential Attachment OCA 2-79.xlsx contains third party confidential pricing information that is governed by a non-disclosure agreement with Liberty, and which is presumed confidential pursuant to Puc 201.06(a)(11). Even though that rule does not specifically apply here, it is an indication of the Commission’s understanding that such pricing information is confidential. It is also “confidential, commercial, or financial information” that warrants protection under RSA 91-A:5, IV. The third parties have not authorized the Company to release this information. Similar information is the subject of the motion for confidential treatment filed by the Company at the outset of this docket. Therefore, pursuant to that statute and Puc 203.08(d), the Company has a good faith basis to seek confidential treatment of this information and will submit a motion seeking confidential treatment prior to the final hearing in this docket.

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities

DG 17-198

Petition to Approve Firm Supply and Transportation Agreements and the
Granite Bridge Project

Conservation Law Foundation Technical Session Data Requests - Set 1

Date Request Received: 6/1/18
Request No. CLF Tech 1-2

Date of Response: 6/27/18
Respondent: William R. Killeen
James M. Stephens
Adam Perry

REQUEST:

Please see Staff Data Requests - Set 2, Request No. Staff 2-78, a, b, c, d and e.

Please respond the questions about projections of customer and usage growth.

RESPONSE:

Please see Attachment CLF Tech 1-2.1, which contains the “Comprehensive Response” referred to in the responses to several other requests in this docket, and Attachment CLF Tech 1-2.2.

Detailed Review of EnergyNorth's Demand Forecast
Docket Nos. DG 17-152 and DG 17-198

I. Executive Summary

Pursuant to the May 23, 2018, technical session in Docket No. DG 17-152 and the May 24, 2018, technical session in Docket No. DG 17-198, the Company has undertaken a detailed review of its forecasted customer additions and how those estimated customer additions are integrated into the results of the econometric models (together defined herein as the Demand Forecast). The Company's detailed review resulted in the modification of certain assumptions related to the out-of-model adjustments used to produce the Demand Forecast, including:

- The customers of Concord Steam Corporation ("Concord Steam") were included in the estimate of customer additions for the existing service territory and have now been removed from the forecasted additions for the existing service territory. These customer additions are included as an out-of-model adjustment.
- The forecasted customer additions in Windham and Pelham were included in the estimate of customer additions in the existing service territory and have now been removed from the forecasted additions for the existing service territory. These customer additions are included as an out-of-model adjustment.
- The overall number of customer additions has been reduced to reflect more recent information, specifically:
 - In the initial filing, the Company included a 400-unit development in Windham; however, subsequent to the filing, the project has been reduced and is currently indefinitely delayed. As such, the project and the 400 units were removed from the forecasted customer additions for Windham and Pelham.
 - The forecasted customer additions for the potential franchise areas (i.e., Epping, Candia, and Raymond) were determined to be too high and have been lowered. Specifically, the initial filing assumed a total of 244 customers per year from the potential franchise areas, which was reduced to a total of 120 customers per year.
 - The forecasted customer composition for the potential franchise areas (i.e., the allocation between residential and commercial and industrial ("C&I") customers) resulted in a disproportionate number of commercial customer additions; specifically, the C&I customer allocation of 60% was corrected to be consistent with the Company's actual recent experience where 20% of the customer additions are C&I customers (as reflected in the residential and C&I customer additions data for 2016 and 2017 provided in the response to Staff 3-13 in Docket No. DG 17-152).¹ In addition, the 20% is consistent with the assumed C&I customer allocation for customers added in the existing service territory and in Windham and Pelham.
 - The Company also addressed a timing issue with respect to the start date for the initial customers from the potential franchise areas. The start date for these customers was delayed to better reflect the timing of the Granite Bridge Pipeline.
- For modeling purposes, certain formulas and calculations were simplified. For example, the approach to allocate the annual customer additions from the Sales and Marketing forecast to

¹ For ease of reference, all Company responses referred to in this detailed review are provided as Attachment Staff Tech 1-7.2.

monthly customer additions was simplified, which also corrected an error regarding monthly customer additions.

- The assumption regarding natural gas consumption for Innovative Natural Gas, LLC (“iNATGAS”) has been updated to reflect the actual usage information from this past winter.

As a result of these modifications to the Demand Forecast, the Company’s forecast of natural gas demand has been slightly reduced as illustrated in Table 1 below.

Table 1: Updated Demand Forecast Results (Dth)

Split-Year	Original Demand Forecast			Updated Demand Forecast		
	Normal Year	Design Year	Design Day	Normal Year	Design Year	Design Day
2017/2018	15,634,082	16,901,795	156,822	14,640,845	15,833,870	157,848
2018/2019	16,075,247	17,376,013	160,989	15,235,354	16,449,392	164,571
2019/2020	16,575,525	17,944,792	164,640	15,648,467	16,923,283	167,643
2020/2021	17,000,558	18,367,180	168,934	16,150,273	17,414,989	168,942
2021/2022	17,527,589	18,933,736	173,917	16,585,278	17,881,953	174,618
2022/2023	18,071,614	19,519,884	179,382	17,864,174	19,198,013	184,000
2023/2024	18,638,472	20,168,391	184,432	18,354,074	19,760,680	188,352
2024/2025	19,009,173	20,530,513	188,856	18,660,183	20,055,937	192,033
2025/2026	19,416,449	20,969,502	192,933	19,008,442	20,431,417	195,542
2026/2027	19,788,597	21,371,088	196,785	19,318,284	20,765,901	198,777
2027/2028	20,198,023	21,852,258	199,954	19,659,031	21,169,792	201,364
2028/2029	20,471,958	22,107,358	203,491	19,872,063	21,362,731	204,235
2029/2030	20,798,293	22,459,424	206,790	20,136,752	21,648,299	206,906
2030/2031	21,108,206	22,794,033	210,016	20,392,048	21,924,085	209,593
2031/2032	21,476,694	23,234,556	212,972	20,701,897	22,297,494	212,031
2032/2033	21,678,072	23,409,030	215,843	20,858,981	22,428,427	214,448
2033/2034	21,960,444	23,713,995	218,828	21,075,945	22,663,122	216,822
2034/2035	22,227,307	24,002,078	221,631	21,269,443	22,872,418	218,944
2035/2036	22,564,042	24,410,287	224,148	21,516,836	23,180,235	220,704
2036/2037	22,742,621	24,558,141	226,863	21,618,013	23,249,243	222,599
2037/2038	23,007,564	24,844,142	229,590	21,798,963	23,444,867	224,511
CAGR (17/18 - 21/22)	2.9%	2.9%	2.6%	3.2%	3.1%	2.6%
CAGR (17/18 - 37/38)	2.0%	1.9%	1.9%	2.0%	2.0%	1.8%

As shown in Table 1, based on the changes to the Demand Forecast discussed above, the Company is forecasting Normal Year and Design Year demand to increase at a compound annual growth rate (“CAGR”) of approximately 2.0% and Design Day demand to increase at a CAGR of 1.8% over the 2017/18 to 2037/38 time period, which is similar to the growth in the Company’s initial filing, the pace of growth in recent years, and well within the estimates of natural gas demand growth of other local distribution companies in the New England region (as provided in the responses to Staff 3-2 in Docket No. DG 17-152 and Staff 2-30 in Docket No. DG 17-198).

The inclusion of changes to the Demand Forecast, although slightly lowering the expected demand, does not alter the primary conclusions documented by the Company in Docket Nos. DG 17-152 and DG 17-198, specifically:

- The customer additions and associated volume from the econometric model do not capture the Company’s focus on customer growth in New Hampshire;
- An adjustment to the results of the econometric model is warranted and supported by the recent level of customer additions, access to new and potential franchise areas, and the regulatory programs approved by the Commission, none of which are captured in the historical data; and
- An adjustment based on information developed by the Sales and Marketing team, as well as the experience and judgment of that team, is a reasonable approach to estimate the level of adjustment to the results of the econometric model.

In addition, the Company reviewed the implications of changes to the forecasted customer additions on its SENDOUT® resource portfolio optimization analysis, as initially filed in Docket No. DG 17-198 and in the responses to OCA 2-86 and OCA 2-106R in Docket No. DG 17-198. Specifically, the revised Demand Forecast was uploaded into the SENDOUT® model for an assessment of the Company’s gas supply portfolio; and, based on the results of that analysis, coupled with the non-price factors discussed in the various Company submissions in Docket Nos. DG 17-152 and DG 17-198, the Company concludes that the Granite Bridge Project, as outlined in Docket No. DG 17-198, continues to be the best cost option for the customers of EnergyNorth. As shown by Tables 2 and 3 below, the results of the SENDOUT® model continue to support the Granite Bridge Project as the best cost option to meet the demand requirements of EnergyNorth’s customers.

Table 2: EnergyNorth SENDOUT® Model Runs - “Prime Revised”²

Resource Planning Scenario	Granite Bridge LNG	Propane Facilities	Resource Mix Results			Total System Cost (\$000)	Comparison to Base Case Prime
			Dawn (Dth/day)	Repsol (Dth/day)	ENGIE (Dth/day)		
Base Case Prime	2.0 Bcf	No	7,920	0	0	\$2,645,295	\$ -
Base Case Prime Sensitivity	2.0 Bcf	Yes	7,920	0	0	\$2,645,925	\$ 630
Alternative Case Prime	No	No	3,080	104,920	360	\$2,850,073	\$ 204,778
Alternative Case Prime Sensitivity	No	Yes	15,040	50,370	7,000	\$2,667,144	\$ 21,849

Table 3: EnergyNorth SENDOUT® Model Runs - LNG Tank Size Scenarios - “Prime Revised”

Resource Planning Scenario	Granite Bridge LNG	Propane Facilities	Resource Mix Results			Total System Cost (\$000)	Comparison to 2.0 Bcf Tank (\$000)
			Dawn (Dth/day)	Repsol (Dth/day)	ENGIE (Dth/day)		
Base Case Prime	2.0 Bcf	No	7,920	0	0	\$2,645,295	\$ -
Base Case Prime	1.2 Bcf	No	7,920	0	470	\$2,651,792	\$ 6,497
Base Case Prime	1.5 Bcf	No	7,920	0	0	\$2,653,873	\$ 8,578
Base Case Prime	2.5 Bcf	No	7,920	0	0	\$2,724,443	\$ 79,148

As shown in Tables 2 and 3, the Resource Mix results (i.e., volumes for the various resources) and the Total System Costs across all scenarios are slightly lower than the results shown in the initial filing in Docket No. DG 17-198 and in the responses to OCA 2-86 and OCA 2-106R in Docket No. DG 17-198. However, the Total System Cost of the Base Case Prime (which includes the 2.0 Bcf Granite Bridge LNG facility) is

² The SENDOUT® model runs denoted as “Prime” reflect the impact of the Tax Cuts and Jobs Act on the proposed Granite Bridge Project infrastructure revenue requirement.

approximately \$2.645 billion over the analysis period and continues to be the lowest total cost of the resource planning scenarios and LNG tank size scenarios analyzed. The Alternative Case Prime resource planning scenario, which excludes the Granite Bridge LNG facility, results in a total system cost of approximately \$2.850 billion over the analysis period, which is nearly \$205 million more than the Base Case Prime scenario. The results shown in Tables 2 and 3 are consistent with the Company's prior analysis, and continue to support the conclusions regarding the Granite Bridge Pipeline and 2.0 Bcf Granite Bridge LNG facility.

II. Historical Customer Additions

In response to certain data requests in Docket Nos. DG 17-152 (e.g., CLF 1-9, Staff 2-4, and Staff 3-13) and DG 17-198 (e.g., Attachment OCA 1-12.b and CLF 1-8), the Company provided information with respect to historical customer additions. To be as responsive as possible to the specific data requests, the information provided by the Company was derived from several different internal data sources, each of which used different time periods, which best responded to the specific request. However, the use of various data sources and time periods in response to specific data requests has resulted in the need to reconcile the historical customer additions information submitted in Docket Nos. DG 17-152 and DG 17-198.

First, to be as consistent as possible with past submissions of long-term demand forecasts, the Company relied on an analytical framework and approach that has been used, vetted, and approved in several regulatory filings at the Commission. The use of a consistent framework across proceedings facilitates the comparison of results across those proceedings (e.g., please see Staff 1-11 in Docket No. DG 17-152, which asked the Company to compare the demand estimate for 2017 as produced in Docket Nos. DG 13-313 and DG 17-152). As such, for the development of the econometric models used by the Company in Docket Nos. DG 17-152 and DG 17-198, the Company used Customer Equivalent Bill data for the August 2010 to April 2017 period as the metric to represent customer numbers by segment (e.g., residential and C&I).³ Customer Equivalent Bill data is the same customer metric used in the 2013 LCIRP in Docket No. DG 13-313, EnergyNorth's cost of gas submissions, and the Northeast Energy Direct ("NED") contract filing in Docket No. DG 14-380. Second, in response to certain data requests for historical customer additions, the Company relied on a new customer relationship management system (i.e., the ZOHO system)⁴ used by its Sales and Marketing team, rather than the Customer Equivalent Bill data. Lastly, Company responses to certain data requests provided information for calendar years, while other responses provided information for different 12-month periods (e.g., April to March or November to October).

To reconcile the various information provided in the numerous data requests received by the Company with respect to historical customer additions, please find in Table 4 below a comparison of historical customer additions using the Customer Equivalent Bill metric and the annual customer additions from the ZOHO system.

³ Please see Bates 014 of the Company's 2017 LCIRP filed in Docket No. DG 17-152.

⁴ The ZOHO system was implemented by the Company on May 30, 2014.

Table 4: Historical Customer Additions Comparison

Year	Customer Equivalent Bill ⁵	ZOHO Customer Additions ⁶	Difference	Percent Difference
2014	1,178	1,199	(21)	(1.8%)
2015	1,770	1,784	(14)	(0.8%)
2016	1,531	1,588	(57)	(3.6%)
2017	1,733	1,708	25	1.5%
Total	6,212	6,279	(67)	(1.1%)
Average	1,553	1,570	(17)	(1.1%)
Average (excluding 2014)	1,678	1,693	(15)	(0.9%)

As shown in Table 4 above, the use of Customer Equivalent Bill data results in a total of 6,212 customer additions over the 2014⁷ to 2017 period, which compares to the total of 6,279 customer additions using the ZOHO system. The difference between the two data sources is 67 customer additions, or approximately 1.1%. Using the average customer additions over the 2014 to 2017 period results in 1,553 annual additions based on Customer Equivalent Bill data and 1,570 customer additions from the ZOHO system, or a difference of 17 customers. Therefore, a comparison of the calendar year customer additions using the Customer Equivalent Bill data (i.e., the dependent variable in the customer equations of the econometric models) is for all intents and purposes equivalent to the annual customer additions data from the ZOHO system used by the Sales and Marketing team.

III. Need for a Sales and Marketing Adjustment

During the May 23, 2018, and May 24, 2018, technical sessions, there were discussions regarding the need for an adjustment to the customer additions results from the Company's econometric model. Although the Company has provided support in its responses to various data requests in both Docket No. DG 17-152 and DG 17-198, a summary of the rationale supporting an adjustment to the econometric model results is warranted. The Company has provided the following primary reasons in support of an adjustment to the customer additions forecasted by the econometric model: (i) the actual customer additions in the existing service territory, particularly the recent trends; (ii) the customer opportunity in the new and potential

⁵ To accurately compare Equivalent Bill data to the data from the ZOHO system, the Company used calendarized values and selected an appropriate reference month (i.e., December) for the Equivalent Bill data and compared that to the year-end customer count from the ZOHO system. There is a slight difference between the reported ZOHO customer count and the number of such customers from the Equivalent Bill data due to certain issues including duplication and a mis-recording of the service start date. Please note that the customer additions data provided in Figure 16 of the Direct Testimony of William R. Killeen and James M. Stephens in Docket No. DG 17-198 (see Bates 151R) were based on annual Customer Equivalent Bill data for the year-ending in March and not calendar year data.

⁶ Please note, in preparation of this response, the Company noted a discrepancy in the information provided in the responses to CLF 1-9, Staff 2-4, and Staff 3-13 in Docket No. DG 17-152 compared to the information provided in the responses to OCA 1-12 and CLF 1-8 in Docket No. DG 17-198. Although the ZOHO system was used to develop all these responses, the extraction parameters were not consistent thus resulting in a different number of historical customer additions. The historical customer additions data as provided in the responses to OCA 1-12 and CLF 1-8 in Docket No. DG 17-198 uses the appropriate extraction parameters and should replace the historical customer additions information provided in the responses to CLF 1-9, Staff 2-4, and Staff 3-13 in Docket No. DG 17-152.

⁷ Please note that the ZOHO system was placed on-line in late May 2014 so the information for that year reflects a partial year and, as such, the Customer Equivalent Bill data was presented on a similar basis.

franchise areas; (iii) the expansion of the Sales and Marketing team; (iv) innovative growth programs; and (v) past Commission precedent.

As a preliminary matter, there is academic support for adjusting econometric models to reflect information that is not otherwise captured in the historical data but is relevant to the accuracy of the forecast. For example, Michael Intriligator discusses the use of “add factors” (out-of-model adjustments) in *Econometric Models, Techniques, & Applications*:

The add factors are based on judgments of factors not explicitly included in the model. For example, in a macroeconomic model there may be no explicit account taken of strike activity, but if major union contracts are expiring and a strike appears likely in the forecast period, the forecasts of production should be appropriately revised downward. Many other factors may not have been included in the model because their occurrence is rare or because data are difficult to obtain, but this does not mean that they must be overlooked in formulating a forecast. Indeed, it would be inappropriate to ignore relevant considerations simply because they were omitted from the model. In this sense forecasting with an econometric model is not simply a mechanical exercise but rather a blending of objective and subjective considerations. The subjective considerations embodied in the add factors, general improve significantly on the accuracy of the forecasts made with an econometric model.⁸

The factors discussed below show that the Company’s recent activities and new programs will continue to promote customer growth above that found in the historical data, which supports the use of an out-of-model adjustment to appropriately reflect that information.

First, for the existing service territory, the actual or historical customer additions using Customer Equivalent Bill data is greater than the forecasted customer additions from the econometric model. Specifically, the forecast of customer additions from the econometric model results in approximately 1,180 customer additions per year for the existing service territory. However, as shown by Table 4 above, using the Customer Equivalent Bill data over the 2014 to 2017 period results in approximately 1,550 customer additions per year; and, if the partial customer additions results from 2014 are excluded, the annual customer additions over the 2015 to 2017 period for the existing service territory average approximately 1,700 customers per year.⁹ Therefore, the actual customer additions information and experience in the existing service territory supports an adjustment to the customer addition results from the econometric model.

Second, in addition to the customer numbers shown in Table 4, Concord Steam has discontinued service and the Company received franchise approval for the towns of Windham and Pelham; and plans to file for approval of the potential franchise areas that would include the towns of Epping, Raymond, and Candia. None of the customers associated with the Concord Steam conversion and potential customers in the new or potential franchise areas are included in the results of the econometric model and should be considered as exogenous to the econometric model and, therefore, support the use of an adjustment to customer additions.

Third, the Company has continued to focus on growth and providing more customers with the option to choose natural gas as their fuel. As discussed in the responses to Staff 2-4 and Staff 3-13 in Docket No. DG 17-152, the Company has expanded its Sales and Marketing team by six full time equivalents (“FTEs”). These employees reside and are active in their local communities and provide “feet on the ground” with

⁸ Michael D. Intriligator, *Econometric Models, Techniques, & Applications*, at 516-517.

⁹ An analysis of the information from the ZOHO system produces similar historical customer additions over the 2014 to 2017 and 2015 to 2017 time periods.

respect to participating in business organizations and town activities. This increase in number of Sales and Marketing employees and the local presence of those employees supports an adjustment to the results of the econometric models.

Fourth, the Company has proposed and received approval from the Commission for innovative expansion plans, such as revisions to the contribution-in-aid-of-construction policy (e.g., including the assumption that 60% of customers located along a main extension will take service) and the Managed Expansion Program (“MEP”) approved by the Commission in August 2016. The MEP not only provides a mechanism to unitize expansion costs and collect those expenses over time, but also provides the Company an opportunity to install service lines for any end use application during the construction of a main, thus positioning the Company to add load from an existing customer. Stated differently, the Company, under MEP, can provide a service line to a customer for an end use application, such as water heating, and thus natural gas is a fuel choice for that customer when their existing heating equipment fails or needs to be replaced. Please see the response to Staff Tech 1-3 in Docket No. DG 17-152, which discusses the customer additions associated with MEP. In addition, the Company (1) eliminated the \$900 flat fee for a new residential customer, (2) allowed for no-cost service connections of heating customers within 100 feet of an existing natural gas main, (3) allowed for no-cost service connections of non-heating customers within 100 feet if they commit to taking service prior to a main extension or replacement, and (4) lowered the level of revenue justification required for main and service extensions.

Fifth, the use of adjustments to improve the results of an econometric model have been presented to, and approved by, the Commission. By way of example, in the NED proceeding (i.e., Docket No. DG 14-380), the Company adjusted the results of the econometric model to reflect three markets that were exogenous to the results of the econometric model; specifically, the Company included adjustments for: (i) potential volumes to Keene, NH, as an incremental market; (ii) reverse migration of capacity exempt customers, reflecting recent market trends; and (iii) incremental volumes for iNATGAS, a new, large customer in the existing service territory. Similar to the NED proceeding, the Company in Docket Nos. DG 17-152 and DG 17-198 has adjusted the results of the econometric model to reflect incremental markets (e.g., the new and potential franchise areas), recent market trends (e.g., actual level of customer additions), and incremental volume (e.g., iNATGAS).

IV. Out-of-Model Adjustments

As discussed above, the Company has provided support for certain adjustments to the results of the econometric models. The calculated values and expected saturation levels for each of those adjustments (i.e., incremental customer additions in the existing service territory, incremental customers from new or potential franchise areas, and iNATGAS) are provided below.

First, with respect to the existing service territory, the Company has adjusted the results of the econometric models to reflect the recent historical customer additions, the investment by the Company in growth (i.e., incremental Sales and Marketing staff), and the approval of innovative programs (e.g., MEP). As such, the econometric models forecast of approximately 1,180 customers per year has been adjusted to approximately 1,625 customers per year,¹⁰ which is aligned with the average customer additions over the 2015 to 2017 period (see Table 4 above). In addition, the Company has relied on the same transition schedule to the results of the econometric model for the period from 2023 to 2038 as originally filed.¹¹ As shown by Table

¹⁰ Represents an average of the customer additions for the existing service territory over the forecast period.

¹¹ The transition period is discussed on Bates 154R of the Direct Testimony of William R. Killeen and James M. Stephens in Docket No. DG 17-198, and further detailed in the response to Staff 2-62 in Docket No. DG 17-198.

5 below, the Company's forecast of new residential and C&I customers in the existing service territory results in saturation levels in 2038 that are reasonable.

Second, regarding the new franchise areas (i.e., Windham and Pelham) and the potential franchise areas (i.e., Epping, Candia, and Raymond), the Company has adjusted the results of the econometric models to reflect customer additions in these areas as these towns were exogenous to the econometric model results. The Company will leverage its larger Sales and Marketing team and the approved, innovative regulatory programs to achieve the forecasted customer additions. As shown by Table 5 below, the Company's forecast of new residential and C&I customers in the new and potential franchise areas results in saturation levels in 2038 that are reasonable.

Table 5: Saturation Levels in 2038

	Residential¹²	C&I¹³	Total
Existing Service Territory	51%	84%	54%
New Franchise Areas (Windham/Pelham)	10%	20%	11%
Potential Franchise Areas (Epping /Candia/Raymond)	18%	40%	21%

Lastly, the Company adjusted the results of the econometric models to reflect the recent actual usage and contractual arrangements associated with iNATGAS, which were approved by the Commission in Docket No. DG 14-091 and reaffirmed by the Commission in the NED proceeding in Docket No. DG 14-380. At the time of the Company's initial filing in Docket Nos. DG 17-152 and DG 17-198, the Company understood the natural gas usage of iNATGAS to be minimal. Specifically, the Company in its initial filing assumed iNATGAS would consume 20 Dth on design day and approximately 1 Dth on every other day. However, this past winter iNATGAS consumed 4,251 Dth on its peak day, which supports an adjustment to the volumes used in the Company's initial filing. The Company's revised assumption for iNATGAS volumes based on the contractual arrangements and actual usage by iNATGAS is summarized in Table 6.

¹² To calculate the residential saturation levels, the Company increased the number of residential customer prospects from ICF using certain information from Moody's (i.e., increased by the growth rate of the Total Households variable). Please see the response to Staff 2-4 in Docket No. DG 17-152 and the responses to Staff 1-8 and Staff 1-9 in Docket No. DG 17-198 for certain ICF customer prospect data.

¹³ To calculate the C&I saturation levels, the Company increased the number of commercial customer prospects from ICF using certain information from Moody's (i.e., increased by the growth rate of the Total Employment variable). Please see the response to Staff 2-4 in Docket No. DG 17-152 and the responses to Staff 1-8 and Staff 1-9 in Docket No. DG 17-198 for certain ICF customer prospect data. Please note that the total number of commercial customer prospects from ICF is conservative when compared to data from the U.S. Census Bureau, thus resulting in C&I saturation rates that are higher than rates based on data from the U.S. Census Bureau.

Table 6: iNATGAS Volumes (Dth)

Split Year	Annual Volume	Design Day
2017/18	266	20
2018/19	300,000	4,251
2019/20	300,000	4,251
2020/21	500,000	4,251
2021/22	500,000	4,251
2022/23	1,300,000	8,800
2023/24	1,300,000	8,800
2024/25	1,300,000	8,800
2025/26	1,300,000	8,800
2026/27	1,300,000	8,800
2027/28	1,300,000	8,800
2028/29	1,300,000	8,800
2029/30	1,300,000	8,800
2030/31	1,300,000	8,800
2031/32	1,300,000	8,800
2032/33	1,300,000	8,800
2033/34	1,300,000	8,800
2034/35	1,300,000	8,800
2035/36	1,300,000	8,800
2036/37	1,300,000	8,800
2037/38	1,300,000	8,800

SUPPLEMENTAL

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities

DG 17-198

Petition to Approve Firm Supply and Transportation Agreements and the
Granite Bridge Project

PLAN Data Requests - Set 1

Date Request Received: 5/29/18
Request No. PLAN 1-3

Date of Response: 10/12/18
Respondent: Francisco C. DaFonte

REQUEST:

Has EnergyNorth had any recent discussions with the owner/operator of the Granite Ridge power plant about using any of the TGP firm transportation capacity on the Concord Lateral that Granite Ridge currently has under contract? Please explain why EnergyNorth did not consider this as an option for increasing peak-period gas supply.

RESPONSE:

Liberty has had recent conversations with Calpine Corp. (“Calpine”), owners of the Granite Ridge power plant in Londonderry, New Hampshire. During the discussions, Calpine indicated that it cannot provide EnergyNorth with a peaking service using its firm capacity on the TGP Concord Lateral.

SUPPLEMENTAL RESPONSE:

For updated information with respect to the Company’s responses to PLAN 1-3 and PLAN 2-6, please see Confidential Attachment PLAN 1-3.1 and Confidential Attachment PLAN 1-3.2, which are the same as Confidential Attachment PLAN 2-6.1 and Confidential Attachment PLAN 2-6.2.

Confidential Attachment PLAN 1-3.2 is a preliminary agreement, and Confidential Attachment PLAN 1-3.1 is an explanation of that preliminary agreement and its effects on various aspects of this proceeding. The preliminary agreement is confidential in its entirety and portions of the explanation are confidential because they contain third party pricing information, contract terms that are extremely sensitive for the counter party, and because the terms have not been reduced into a final contract, all of which render the identified information “confidential, commercial, or financial information” that are protected from disclosure by RSA 91-A:5, IV. The Company anticipates that it will be able to provide a less redacted version of the confidential attachments once the final agreement is executed. Therefore, pursuant to Puc 203.08(d), the Company has a good faith basis to seek confidential treatment of Confidential Attachment PLAN 1-3.1 and Confidential Attachment PLAN 1-3.2 and will submit a motion seeking confidential treatment prior to the final hearing in this docket.

Docket No. DG 17-198 Request No. PLAN 1-3 (Supplemental)

Confidential Attachments PLAN 1-3.3 through Confidential Attachment PLAN 1-3.13 contain pricing information that is “confidential, commercial, or financial information” that is protected from disclosure by RSA 91-A:5, IV, and for which the Commission granted confidential treatment of similar information in Order No. 26,166 (Aug. 1, 2018). Therefore, pursuant to that authority and Puc 203.08(d), the Company has a good faith basis to seek confidential treatment of the information designated in Confidential Attachment PLAN 1-3.3 through Confidential Attachment PLAN 1-3.13 and will submit a motion confirming confidential treatment prior to the final hearing in this docket.

Updated Information Regarding Liberty Utilities' Responses to PLAN 1-3 and PLAN 2-6
Docket No. DG 17-198

Liberty Utilities (EnergyNorth Natural Gas) Corp. (“EnergyNorth” or the “Company”) provides the following updated information with respect to the Company’s responses to PLAN 1-3 and PLAN 2-6 in Docket No. DG 17-198. Specifically, the Company has entered into a Memorandum of Understanding (“MOU”) to provide Calpine Corporation (“Calpine”) with certain natural gas supply services for its Granite Ridge Energy Center (“GREC”) located in Londonderry, New Hampshire.

As detailed below, the Company’s Base Case Prime natural gas supply portfolio, which includes the proposed Granite Bridge Pipeline and the Granite Bridge LNG facility at a tank size of 2.0 Bcf, continues to be the optimal supply portfolio for the customers of EnergyNorth and allows the Company to meet long-term forecasted demand requirements at the best cost. Specifically, the additional analysis conducted by the Company continues to demonstrate that the Base Case Prime portfolio (i.e., including the Granite Bridge LNG facility with a 2.0 Bcf storage tank, and the Granite Bridge Pipeline with 150,000 Mcf per day of capacity) produces the least-cost portfolio for the customers of EnergyNorth. The natural gas supply service to Calpine, which is enabled by the Company’s Base Case Prime portfolio, provides the Company with a unique opportunity to receive [REDACTED] of annual capacity mitigation (i.e., portfolio optimization) revenues as an additional benefit to EnergyNorth’s customers. As a result, the MOU with Calpine enhances the financial benefits associated with the Base Case Prime portfolio for the customers, and also provides the Company with another mechanism to balance demand growth with portfolio resources with no loss of portfolio reliability, diversity, flexibility, or resiliency.

I. Background

Calpine is one of the largest owners, operators, and developers of natural gas-fired power generation facilities in the U.S., with approximately 80 power plants in operation or under construction that can generate approximately 26,000 megawatts (“MW”).¹ In the New England region, Calpine owns and operates over 2,000 MW of power generation facilities, including GREC, the Fore River Energy Center, and the Westbrook Energy Center.

The GREC commenced operations in March 2003 and was acquired by Calpine in February 2016. The facility, which is 100% owned by Calpine, can generate 745 MW of power utilizing two natural gas-fired combined cycle turbines.² The GREC is connected to the Tennessee Gas Pipeline Concord Lateral (“TGP Concord Lateral”), which would allow Calpine to utilize a natural gas supply service provided by the Company, as the volumes from the proposed Granite Bridge LNG facility would be delivered into the TGP Concord Lateral via the proposed Granite Bridge Pipeline.

II. Calpine MOU Overview

The MOU between the Company and Calpine describes the type of capacity release and gas supply service that the Company will provide to Calpine and the specific attributes of that service. While this section provides a summary of the MOU, please note that the entire MOU is provided as Confidential Attachment PLAN 1-3.2. It is important to note that under the MOU, Calpine will receive a firm winter capacity release and gas supply service from the Company and, therefore, Calpine is not in a position to provide a firm winter peaking service to the Company. Please see the Company’s responses to PLAN 1-3 and PLAN 2-6.

¹ Source: Calpine website, <http://www.calpine.com/>, accessed September 2018.

² Ibid.

As detailed in the MOU, the Company will provide to Calpine a firm winter capacity release and gas supply service that is available to Calpine [REDACTED]. The initial term of the service to Calpine is for [REDACTED] and will commence with the in-service date of the proposed Granite Bridge LNG facility and Granite Bridge Pipeline, which is estimated to be April of 2022. The firm winter capacity release and gas supply service between Calpine and the Company may be extended beyond the initial term by mutual agreement of the parties. The parameters of the firm winter capacity release and gas supply service to be provided to Calpine by the Company include LNG storage capacity (i.e., inventory space) of [REDACTED] and daily vaporization volume of up to [REDACTED], with an hourly maximum volume of [REDACTED].

With respect to the bundled price structure for the firm winter capacity release and gas supply service, the Company and Calpine have agreed to a [REDACTED].³ The [REDACTED] of the rate structure is [REDACTED] payment of [REDACTED], which is paid [REDACTED]. Stated differently, if Calpine [REDACTED], the customers of EnergyNorth will receive [REDACTED] per year. This structure, consisting of a [REDACTED], is similar to other capacity mitigation/portfolio optimization agreements that the Company has entered into where the counterparty to the transaction provides [REDACTED]. In this manner, the customers of EnergyNorth will receive [REDACTED], or [REDACTED] over the initial [REDACTED] term of the contract, [REDACTED] Calpine uses the bundled service.

The [REDACTED] of the rate structure is [REDACTED] used by Calpine, which is equal to [REDACTED].⁴ As such, for each MMBtu used by Calpine, it will [REDACTED], which includes the [REDACTED]. Said differently, the [REDACTED]. Under this [REDACTED] for the bundled service, the customers of EnergyNorth receive the benefit of the [REDACTED].

Lastly, should the Company and Calpine agree to certain interruptible transactions, which would be provided at the sole discretion of the Company, any incremental value for those interruptible transactions would be returned to the Company's customers, which is similar to other interruptible transaction revenue (i.e., another capacity mitigation transaction).

III. Benefits of the MOU with Calpine

The MOU between the Company and Calpine provides significant benefits to the customers of EnergyNorth, including:

- *Capacity mitigation/portfolio optimization value* – Since developing and constructing energy infrastructure is capital intensive with long lead times, utilities typically grow into the capacity

³ As outlined in the MOU with Calpine, there are certain options with respect to price structure, but for ease of presentation, this response focuses on a bundled service option. Should Calpine choose the unbundled service option, the [REDACTED] payment is [REDACTED]; however, the Company would also charge Calpine for [REDACTED] totaling approximately [REDACTED]. Therefore, the annual revenue under the bundled or unbundled price structure is approximately the same.

⁴ Alternatively, Calpine could opt for a bundled service whereby Calpine would [REDACTED] and pay the [REDACTED].

associated with the addition of new facilities, capacity, or supply to a portfolio. This short-term supply reserve in a portfolio is typically mitigated by capacity mitigation/portfolio optimization strategies and transactions. Similar to other portfolio optimization transactions, the [REDACTED] [REDACTED] paid by Calpine to the Company for the bundled service would be 100% credited to the customers of EnergyNorth. Therefore, the MOU with Calpine essentially provides [REDACTED] capacity mitigation structure for certain short-term supply reserve resulting from the inclusion of the proposed Granite Bridge Project to the EnergyNorth gas supply portfolio. The significant, and unique, benefit of this MOU is that the capacity mitigation benefit is [REDACTED] upon the completion of the proposed facilities. It is important to note that not all resource additions to a gas supply portfolio allow for capacity mitigation transactions. By way of example, some service providers specifically stipulate that the service may only be used to meet the needs of EnergyNorth's customers and cannot be remarketed. This type of restriction reduces the optionality of the gas supply portfolio and decreases the opportunities for the Company to mitigate the fixed costs of a portfolio with such a contract, thereby reducing benefits for customers.

- Reduction in the total cost of the Base Case Prime gas supply portfolio* – The [REDACTED] [REDACTED] results in a total value over the initial [REDACTED] term of [REDACTED], which lowers the total system costs of the Base Case Prime scenario analyzed by the Company (see Table 2 of Attachment CLF Tech 1-2.1). Although the customers receive the [REDACTED] [REDACTED] associated with the Calpine MOU [REDACTED], the Company, for modeling purposes, made the conservative assumption that Calpine would use the full volume in every year of the MOU. As a result of this assumption, the Company incurs approximately [REDACTED] of gas supply costs, reflecting increased utilization of other higher commodity cost resources in the portfolio. Therefore, under the conservative assumption that Calpine would use the full volume every year of the MOU, the net benefit to customers over the initial term of the MOU is \$24.2 million (i.e., [REDACTED]). The increase in benefit of \$24.2 million increases the spread in total system costs between the Base Case Prime and the Alternative Case Prime scenarios from \$204.8 million to \$229.0 million, or almost 12%. In addition, it is important to note that the Company may be able to extend the benefits of the Calpine MOU beyond the initial [REDACTED] term, which would provide an additional \$17.0 million of value to the customers of EnergyNorth (as discussed in Section IV below).
- Resiliency of the Base Case Prime gas supply portfolio* – Similar to the benefits outlined above, the [REDACTED] [REDACTED] associated with the Calpine MOU lowers the total system costs of the Base Case Prime - Low Case scenario and results in a net benefit of \$22.9 million to the customers of EnergyNorth (as discussed in Section IV below).⁵ In addition, in the low demand case, the Calpine MOU increases the spread between the Base Case Prime and Alternative Case Prime scenarios by 20%, to \$135.4 million. Stated differently, in a lower demand growth scenario, and with the inclusion of the Calpine MOU, the SENDOUT® results continue to demonstrate the resiliency of the Base Case Prime portfolio (which includes the 2.0 Bcf Granite Bridge LNG facility) to adjust to various demand scenarios. Similar to the Base Case Prime discussion above, the Company under the Base Case Prime – Low Case scenario could extend the Calpine MOU beyond the initial [REDACTED] term, thus providing additional benefits to the customers of EnergyNorth.

⁵ Similar to the modeling of the Base Case Prime scenario, the Company conservatively assumed that Calpine would use the full volume in every contract year in the Base Case Prime – Low Case scenario so the [REDACTED] [REDACTED] the cost of increased utilization of other resources.

- *Tank flexibility* – The MOU with Calpine allows the Company to achieve the economies of scale associated with a 2.0 Bcf storage tank for the proposed Granite Bridge LNG facility, while providing a flexible tank supply resource for EnergyNorth’s customers. Specifically, given the MOU with Calpine, the Company has developed a gas supply portfolio where the customers receive the benefit of a [REDACTED] storage tank initially, but over the longer term the customers receive the benefit of a 2.0 Bcf storage tank without having to pay the incremental cost to build another tank in the future. To better illustrate this point, the total system costs in the Base Case Prime, which includes the 2.0 Bcf storage tank, are approximately [REDACTED] lower cost than the [REDACTED] storage tank scenario (see Tables 2 and 3 of Attachment CLF Tech 1-2.1). However, a scenario with the 2.0 Bcf storage tank, and the Calpine winter capacity release and gas supply service, results in a total system cost that is [REDACTED] lower than the [REDACTED] Base Case Prime scenario (as discussed in Section IV below). Said differently, under the 2.0 Bcf storage tank scenario, coupled with the Calpine service, customers of EnergyNorth receive all the same long-term benefits of a physical 2.0 Bcf storage tank at a [REDACTED] savings (i.e., [REDACTED]).
- *Portfolio flexibility* – The MOU between Calpine and the Company provides EnergyNorth with another gas supply option to meet its forecasted demand requirements. Specifically, should the actual demand track the Company’s forecast of natural gas demand (see Table 1 of Attachment CLF Tech 1-2.1), then the Company could terminate the Calpine firm winter capacity release and gas supply service after the initial term [REDACTED]. However, should the Company’s demand growth track the “Low Demand Case” or “50% Demand Case” (see the response to Staff 5-17), the Company has the option to extend the Calpine arrangement, subject to mutual agreement, as one approach to manage the lower demand growth. In addition, the Company could consider extending the Calpine arrangement beyond the initial [REDACTED] term but at lower volume parameters, which would allow the Company to sculpt a volume with Calpine within the context of the Company’s actual demand growth.

IV. Updates to the Company’s Quantitative Analysis

In addition to the benefits discussed above, the Company has evaluated the incremental benefits associated with the Calpine MOU on a quantitative basis. Before describing those benefits, it should be noted that, first, the MOU with Calpine does not impact the Company’s demand forecast, so there are no adjustments to any assumptions with respect to forecasted demand. Second, there are no assumption changes associated with the proposed Granite Bridge Pipeline, as the MOU with Calpine does not affect the overall capacity of the Granite Bridge Pipeline. Third, all other assets in the Company’s gas supply portfolio associated with the respective scenarios are unchanged. With respect to the SENDOUT® modeling (i.e., the quantitative analysis), the Company has developed certain scenarios to assess the benefit of the MOU with Calpine by limiting assumption changes to the inventory level and vaporization capacity available to the Company and [REDACTED] (i.e., the bundled service). Specifically, the Company provides the following updates to certain data responses as noted below.

First, the Company has updated its 2.0 Bcf Base Case Prime scenario (as provided in Table 2 of Attachment CLF Tech 1-2.1) to reflect the inclusion of the Calpine MOU bundled service parameters outlined above (“Calpine Base Case Prime”). Specifically, the Calpine Base Case Prime scenario assumes:

- The customers of EnergyNorth receive the benefit of a [REDACTED] storage tank and Calpine receives a service for [REDACTED] for the [REDACTED] from [REDACTED], and then the Company has the full 2.0 Bcf storage tank to serve its customers for the remainder of the analysis period;
- The Company provides Calpine with [REDACTED] of daily vaporization capacity for the [REDACTED] time period;

- iii. Calpine utilizes its full volume under the service for the defined time period; and
- iv. The [REDACTED] over the initial term.

In addition, the Company modeled a sensitivity that reflects a [REDACTED] extension of the Calpine MOU (“Calpine Extension Case Prime”), which assumes that after the initial [REDACTED] term:

- i. The customers of EnergyNorth receive the benefit of a [REDACTED] storage tank and Calpine receives a service for [REDACTED] for [REDACTED] from [REDACTED], and then the Company has the full 2.0 Bcf storage tank to serve its customers for the remainder of the analysis period;
- ii. The Company provides Calpine with [REDACTED] of daily vaporization capacity for the [REDACTED] time period;
- iii. Calpine utilizes its full volume under the service for the defined time period; and
- iv. The [REDACTED] over the extension term.

The results of the analysis are presented in Table 1 below. For reference purposes, the Company has also included the results of the 2.0 Bcf Base Case Prime, Alternative Case Prime, 1.2 Bcf Base Case Prime, and 1.5 Bcf Base Case Prime scenarios (as provided in Tables 2 and 3 of Attachment CLF Tech 1-2.1) and uses the format of Table 9 from the Direct Testimony of William R. Killeen and James M. Stephens for ease of comparison.

Table 1: EnergyNorth SENDOUT® Model Runs - “Prime Revised”

Resource Planning Scenario	Reference - Confidential Attachment	Granite Bridge LNG	Propane Facilities	Resource Mix Results			Total System Cost (\$000)	Comparison to Calpine Base Case Prime (\$000)
				Dawn (Dth/day)	Repsol (Dth/day)	ENGIE (Dth/day)		
Calpine Base Case Prime	PLAN 1-3.3	2.0 Bcf	No	5,920	0	0	\$2,621,075	\$ -
Calpine Extension Case Prime	PLAN 1-3.4	2.0 Bcf	No	5,920	0	0	\$2,611,254	\$ (9,821)
Base Case Prime	PLAN 5-4.1	2.0 Bcf	No	7,920	0	0	\$2,645,295	\$ 24,220
Alternative Case Prime	PLAN 5-4.3	No	No	3,080	104,920	360	\$2,850,073	\$ 228,998
Base Case Prime	PLAN 5-4.5	1.2 Bcf	No	7,920	0	470	\$2,651,792	\$ 30,717
Base Case Prime	PLAN 5-4.6	1.5 Bcf	No	7,920	0	0	\$2,653,873	\$ 32,798

As discussed in Attachment CLF Tech 1-2.1, the Company’s Base Case Prime natural gas supply portfolio, which includes the Granite Bridge Pipeline and the 2.0 Bcf Granite Bridge LNG facility, continues to be the best cost option for the customers of EnergyNorth. As shown in Table 1 above, the MOU with Calpine provides additional financial benefits for the customers of EnergyNorth. Specifically, the inclusion of the firm winter capacity release and gas supply service for Calpine for the initial term of [REDACTED] provides \$24.2 million of benefit to the customers of EnergyNorth compared to the Base Case Prime scenario; and a [REDACTED] extension of the Calpine MOU would provide an additional benefit of \$9.8 million to customers (i.e., a total of \$34.0 million of benefit to customers compared to the Base Case Prime scenario). It is also important to note that the Calpine Base Case Prime and Calpine Extension Case Prime scenarios have a lower resource mix result for the Dawn resource (i.e., 5,920 Dth per day) compared to the Base Case Prime scenario (i.e., 7,920 Dth per day). The Calpine arrangement also increases the benefits relative to the Alternative Case Prime scenario by almost 12%. Lastly, the total system costs of the Calpine Base Case Prime scenario, which includes the 2.0 Bcf storage tank, is \$30.7 million lower than the 1.2 Bcf Base Case Prime scenario and \$32.8 million lower than the 1.5 Bcf Base Case Prime scenario.

Second, the Company has assessed the benefit of the Calpine MOU using the low demand case (“Low Case”), which reflects no Sales and Marketing adjustment in the existing service territory. Specifically, the Company has updated the 2.0 Bcf Base Case Prime – Low Case (as provided in Table Staff 5-17.3 of the

revised response to Staff 5-17) to reflect the Calpine MOU parameters (“Calpine Base Case Prime – Low Case”), and the Company has developed a sensitivity that reflects an extension of the Calpine MOU (“Calpine Extension Case Prime – Low Case”). Specifically, the Calpine Base Case Prime – Low Case scenario reflects the low demand case and assumes the bundled service parameters associated with the initial term of the Calpine MOU as outlined above for the Calpine Base Case Prime scenario; and the Calpine Extension Case Prime - Low Case reflects the low demand case and assumes that the firm winter capacity release and gas supply service for Calpine is extended through the end of the analysis period.

The results of the Calpine Base Case Prime – Low Case and the Calpine Extension Case Prime – Low Case are provided in Table 2 below. For reference purposes, the Company has also included the results of the 2.0 Bcf Base Case Prime – Low Case, Alternative Case Prime – Low Case, 1.2 Bcf Base Case Prime – Low Case, and 1.5 Bcf Base Case Prime – Low Case scenarios (as provided in Tables Staff 5-17.3 and 5-17.4 of the revised response to Staff 5-17) and uses the format of Table 9 from the Direct Testimony of William R. Killeen and James M. Stephens for ease of comparison.

Table 2: EnergyNorth SENDOUT® Model Runs - “Prime Low Case”

Resource Planning Scenario	Reference - Confidential Attachment	Granite Bridge LNG	Propane Facilities	Resource Mix Results			Total System Cost (\$000)	Comparison to Calpine Base Case Prime (\$000)
				Dawn (Dth/day)	Repsol (Dth/day)	ENGIE (Dth/day)		
Calpine Base Case Prime	PLAN 1-3.5	2.0 Bcf	No	0	0	0	\$2,375,170	\$ -
Calpine Extension Case Prime	PLAN 1-3.6	2.0 Bcf	No	0	0	0	\$2,331,291	\$ (43,879)
Base Case Prime	Staff 5-17.b.ii.1	2.0 Bcf	No	0	0	0	\$2,398,051	\$ 22,881
Alternative Case Prime	Staff 5-17.b.ii.3	No	No	0	81,710	1,500	\$2,510,605	\$ 135,435
Base Case Prime	Staff 5-17.b.ii.5	1.2 Bcf	No	0	0	0	\$2,393,523	\$ 18,353
Base Case Prime	Staff 5-17.b.ii.6	1.5 Bcf	No	0	0	0	\$2,402,325	\$ 27,155

As shown in Table 2 above, if actual demand growth tracks the low demand case, the inclusion of the firm winter capacity release and gas supply service for Calpine for the initial term of [REDACTED] provides \$22.9 million of benefit to the customers of EnergyNorth,⁶ and a full term extension of the Calpine MOU would provide an additional benefit of \$43.9 million to customers (i.e., a total of \$66.8 million of benefit to customers compared to the Base Case Prime scenario). In addition, the Calpine arrangement increases the benefits relative to the Alternative Case Prime - Low Case scenario by 20% to \$135.4 million. Finally, the Calpine Base Case Prime - Low Case, which includes a 2.0 Bcf storage tank and the inclusion of the firm winter capacity and gas supply service for Calpine, has a benefit of \$18.4 million when compared to the 1.2 Bcf Base Case Prime - Low Case scenario and a benefit of \$27.2 million when compared to the 1.5 Bcf Base Case Prime - Low Case scenario.

Third, the Company has assessed the impact of providing a firm winter capacity release and gas supply service to Calpine using the alternative tank sizes of 1.2 Bcf and 1.5 Bcf for the Granite Bridge LNG facility. Specifically, the Company has updated its 1.2 Bcf Base Case Prime and 1.5 Bcf Base Case Prime scenarios (as provided in Table 4 of Attachment CLF Tech 1-2.1) to reflect the inclusion of the bundled service parameters of the Calpine MOU (“Calpine 1.2 Bcf Base Case Prime” and “Calpine 1.5 Bcf Base Case

⁶ The Company has also assessed the benefits of the Calpine MOU using the “50% Demand Case” developed in response to Staff 5-17.b.i. Specifically, the Company has updated the 2.0 Bcf Base Case Prime – 50% Demand Case (as provided in Table Staff 5-17.1 of the revised response to Staff 5-17) to reflect the Calpine MOU parameters (“Calpine Base Case Prime – 50% Demand Case”) (see SENDOUT® results provided as Confidential Attachment PLAN 1-3.7). Consistent with the results provided in Tables 1 and 2, the Calpine Base Case Prime - 50% Demand Case provides \$24.3 million of benefit to customers compared to the 2.0 Bcf Base Case Prime - 50% Demand Case scenario.

Prime”). As modeled in SENDOUT®, the Calpine 1.2 Bcf Base Case Prime and Calpine 1.5 Bcf Base Case Prime scenarios assume:

- i. The customers of EnergyNorth receive the benefit of a [REDACTED] storage tank and Calpine receives a service for [REDACTED] for the initial [REDACTED] from [REDACTED], and then the Company has the full 1.2 Bcf storage tank to serve its customers for the remainder of the analysis period in the Calpine 1.2 Bcf Base Case Prime scenario; and the customers of EnergyNorth receive the benefit of a [REDACTED] storage tank and Calpine receives a service for [REDACTED] for the initial [REDACTED] from [REDACTED], and then the Company has the full 1.5 Bcf storage tank to serve its customers for the remainder of the analysis period in the Calpine 1.5 Bcf Base Case Prime scenario.
- ii. The Company provides Calpine with [REDACTED] of daily vaporization capacity for the [REDACTED] time period;
- iii. Calpine utilizes its full volume under the service for the defined time period; and
- iv. The [REDACTED].

In addition, the Company has updated its 1.2 Bcf Base Case Prime – Low Case and 1.5 Bcf Base Case Prime – Low Case scenarios (as provided in Table Staff 5-17.4 of the revised response to Staff 5-17) to reflect the parameters of the Calpine MOU (“Calpine 1.2 Bcf Base Case Prime – Low Case” “Calpine 1.5 Bcf Base Case Prime – Low Case”). The results of the Calpine 1.2 Bcf Base Case Prime, Calpine 1.5 Bcf Base Case Prime, Calpine 1.2 Bcf Base Case Prime – Low Case, and Calpine 1.5 Bcf Base Case Prime – Low Case scenarios are presented in Tables 3 and 4 below. For reference purposes, the Company has also included the Calpine 2.0 Bcf Base Case Prime, the 1.2 Bcf and 1.5 Bcf Base Case Prime scenarios (as provided in Table 4 of Attachment CLF Tech 1-2.1), the Calpine 2.0 Bcf Base Case Prime - Low Case, and the 1.2 Bcf and 1.5 Bcf Base Case Prime – Low Case scenarios (as provided in Table Staff 5-17.4 of the revised response to Staff 5-17), and uses the format of Table 9 from the Direct Testimony of William R. Killeen and James M. Stephens for ease of comparison.

Table 3: EnergyNorth SENDOUT® Model Runs - LNG Tank Size Scenarios - “Prime Revised”

Resource Planning Scenario	Reference - Confidential Attachment	Granite Bridge LNG	Propane Facilities	Resource Mix Results			Total System Cost (\$000)	Comparison to Calpine Base Case Prime (\$000)
				Dawn (Dth/day)	Repsol (Dth/day)	ENGIE (Dth/day)		
Calpine Base Case Prime	PLAN 1-3.3	2.0 Bcf	No	5,920	0	0	\$2,621,075	\$ -
Calpine Base Case Prime	PLAN 1-3.8	1.2 Bcf	No	7,920	0	1,770	\$2,646,630	\$ 25,555
Calpine Base Case Prime	PLAN 1-3.9	1.5 Bcf	No	7,920	0	260	\$2,641,209	\$ 20,134
Base Case Prime	PLAN 5-4.5	1.2 Bcf	No	7,920	0	470	\$2,651,792	\$ 30,717
Base Case Prime	PLAN 5-4.6	1.5 Bcf	No	7,920	0	0	\$2,653,873	\$ 32,798

Table 4: EnergyNorth SENDOUT® Model Runs - LNG Tank Size Scenarios - “Prime Low Case”

Resource Planning Scenario	Reference - Confidential Attachment	Granite Bridge LNG	Propane Facilities	Resource Mix Results			Total System Cost (\$000)	Comparison to Calpine Base Case Prime (\$000)
				Dawn (Dth/day)	Repsol (Dth/day)	ENGIE (Dth/day)		
Calpine Base Case Prime	PLAN 1-3.5	2.0 Bcf	No	0	0	0	\$2,375,170	\$ -
Calpine Base Case Prime	PLAN 1-3.10	1.2 Bcf	No	0	0	460	\$2,387,556	\$ 12,386
Calpine Base Case Prime	PLAN 1-3.11	1.5 Bcf	No	0	0	0	\$2,387,497	\$ 12,327
Base Case Prime	Staff 5-17.b.ii.5	1.2 Bcf	No	0	0	0	\$2,393,523	\$ 18,353
Base Case Prime	Staff 5-17.b.ii.6	1.5 Bcf	No	0	0	0	\$2,402,325	\$ 27,155

As shown in Table 3 above, using the Company’s revised demand forecast, the Calpine 2.0 Bcf Base Case Prime scenario is \$25.6 million lower in total system costs when compared to the Calpine 1.2 Bcf Base

Case Prime scenario and \$20.1 million lower when compared to the Calpine 1.5 Bcf Base Case Prime scenario. Similarly, as shown in Table 4, using the low demand forecast, the Calpine 2.0 Bcf Base Case Prime - Low Case is \$12.4 million lower in total system costs than the Calpine 1.2 Bcf Base Case Prime - Low Case and \$12.3 million lower than the Calpine 1.5 Bcf Base Case Prime - Low Case scenario.⁷ In addition, as stated previously, the Calpine 2.0 Bcf Base Case Prime scenarios using the Company's revised demand forecast and low demand forecast, are lower in total system costs than the 1.2 Bcf Base Case Prime scenarios (which exclude the service to Calpine) by \$30.7 million and \$18.4 million, respectively; and lower than the 1.5 Bcf Base Case Prime scenarios (which exclude the service to Calpine) by \$32.8 million and \$27.2 million, respectively.

As illustrated by the various analyses, the Company's Base Case Prime natural gas supply portfolio, which includes the Granite Bridge Pipeline and the Granite Bridge LNG facility (i.e., 2.0 Bcf storage tank), continues to be the optimal and least-cost supply portfolio for the customers of EnergyNorth. The inclusion of the benefits of the Calpine MOU further enhances the value of the Company's Base Case Prime natural gas supply portfolio and provides the Company with more options and another mechanism to balance demand and supply with no loss of portfolio reliability, diversity, flexibility, or resiliency.

Finally, the Company will update this response with the executed contract with Calpine that incorporates the final commercial terms outlined in the MOU with Calpine.

⁷ Using the 50% Demand Case forecast, the Calpine 2.0 Bcf Base Case Prime - 50% Demand Case is \$16.0 million and \$14.9 million lower in total system costs than the Calpine 1.2 Bcf Base Case Prime - 50% Demand Case (see SENDOUT® results provided as Confidential Attachment PLAN 1-3.12) and Calpine 1.5 Bcf Base Case Prime - 50% Demand Case scenarios (see SENDOUT® results provided as Confidential Attachment PLAN 1-3.13), respectively.

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Docket No. DG 17-198
Attachment PLAN 1-3.2
Page 1 of 3

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Docket No. DG 17-198
Attachment PLAN 1-3.2
Page 2 of 3

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REDACTED
Docket No. DG 17-198
Attachment PLAN 1-3.2
Page 3 of 3

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SUPPLEMENTAL

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities

DG 17-198

Petition to Approve Firm Supply and Transportation Agreements and the
Granite Bridge Project

PLAN Data Requests - Set 2

Date Request Received: 6/8/18
Request No. PLAN 2-6

Date of Response: 10/12/18
Respondent: Francisco C. DaFonte

REQUEST:

Please describe any proposals that Liberty made to the owners of the Granite Ridge generating plant within the last five years to use a portion of Granite Ridge's firm capacity on the Concord Lateral during peak periods (through capacity release, for example), and the results of any discussions.

RESPONSE:

The Company has not made any formal proposal to the owner of the Granite Ridge generating plant over the past 5 years, but has had various discussions with the owners as to the business requirements of the generating facility and whether a firm peaking service or capacity service could be provided to EnergyNorth. In all instances, the owners of the Granite Ridge generating plant indicated that they could not provide such a service.

SUPPLEMENTAL RESPONSE:

For updated information with respect to the Company's responses to PLAN 1-3 and PLAN 2-6, please see Confidential Attachment PLAN 2-6.1 and Confidential Attachment PLAN 2-6.2, which are the same as Confidential Attachment PLAN 1-3.1 and Confidential Attachment PLAN 1-3.2.

Confidential Attachment PLAN 2-6.2 is a preliminary agreement, and Confidential Attachment PLAN 2-6.1 is an explanation of that preliminary agreement and its effects on various aspects of this proceeding. The preliminary agreement is confidential in its entirety and portions of the explanation are confidential because they contain third party pricing information, contract terms that are extremely sensitive for the counter party, and because the terms have not been reduced into a final contract, all of which render the identified information "confidential, commercial, or financial information" that are protected from disclosure by RSA 91-A:5, IV. The Company anticipates that it will be able to provide a less redacted version of the confidential attachments once the final agreement is executed. Therefore, pursuant to Puc 203.08(d), the Company has a good faith basis to seek confidential treatment of Confidential Attachment PLAN 2-6.1 and Confidential Attachment PLAN 2-6.2 and will submit a motion seeking confidential treatment prior to the final hearing in this docket.

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:15:57

NOV 2018 thru OCT 2019

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	48	Transportation Cost	2117	JAN 19, 2019	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	164.57
Other Variable Cost	342	Carrying Cost	310			System Unserved	0.00
Total Variable	████	Other Variable Cost	0	Total Variable	2117	Total	164.57
		Total Variable	404				
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	2660	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	86685
						Total Revenue	0
						Net Cost	86685

Avg Cost of Served Demand 5.690 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.272 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	15235.4	0.0	15235.4	0.0	15235.4	15235.4	0.0	0	164.6	0.0
Total	15235.4	0.0	15235.4	0.0	15235.4	15235.4	0.0	0	164.6	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2339.8	18250.0	15910.2			3.0798	7206	0	7206	3.0798
ENGNiagara	910.8	1167.3	256.4			2.8024	2553	0	2553	2.8024
ENGPNGTS	289.4	365.0	75.6			3.3231	962	0	962	3.3231
ENGC3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6684.0	6690.4	6.4			2.1110	14110	0	14110	2.1110
DLiqWinter	250.0	250.0	0.0							
Dracut 20	2328.8	7315.4	4986.5			7.6278	17764	0	17764	7.6278
ENGC3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DLiqSummer	21.0	21.0	0.0							

NOV 2018 thru OCT 2019

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	713.9	2190.0	1476.1			3.2953	2353	0	2353	3.2953
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	786.6	10973.0	10186.4			9.7211	7647	0	7647	9.7211
Engie Combo	630.0	630.0	0.0							
DAWN5	334.7	651.2	316.5							
Total	15449.9									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	321.0	321.6	0	0.0	12	95	0.0	-1	126	120	-6
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	953	1017	64
ENGFSMA	1482	95	1770.4	1735.8	0	18.9	1498	96	0.0	16	2573	3080	507
ENGDominion	103	100	112.4	110.2	0	2.2	103	100	0.0	0	178	220	41
ENGNFG	671	100	720.9	715.2	0	5.7	671	100	5.6	0	1164	1391	227
ENGHON	246	100	237.2	237.2	0	0.0	246	100	0.0	0	427	488	61
GranBrdgLNG	0	N/A	0.0	0.0	0	0.0	0	N/A	0.0	0	0	0	0
Total	2591	N/A	3322.7	3280.9	0	26.8	2606	N/A	5.6	15	5422	6316	894

Transportation Summary										
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPProd	2339.8	0.0	2339.8	7882.5	5542.7	0	5043	0	5043	2.1554
ENGTGP2Stg	97.5	2.0	95.5	7882.5	7787.0	25	0	0	25	0.2572
ENGTGPLong	6076.0	0.0	6076.0	8698.1	2622.1	0	0	0	0	0.0000
ENGTGPBND	910.8	5.6	905.2	1139.5	234.3	78	267	0	345	0.3789
ENGTGPShort	2792.8	23.7	2769.0	10262.0	7492.9	315	2688	0	3002	1.0750
TrCanCharges	705.8	8.1	697.7	1477.2	779.5	0	698	0	698	0.9883
IroqCharges	697.7	4.3	693.4	1477.2	783.8	62	640	0	702	1.0057
ENGPNGTS	289.4	2.9	286.5	365.0	78.5	1	312	0	312	1.0793
ENGLNG	321.6	0.0	321.6	10950.0	10628.4	0	0	0	0	0.0000
ENGPropane	160.8	0.0	160.8	6335.0	6174.2	0	0	0	0	0.0000
ENGC3Truck	160.8	0.0	160.8	4380.0	4219.2	161	0	0	161	1.0000
Dracut 30	1120.7	2.4	1118.3	10950.0	9831.7	49	4388	0	4437	3.9592

3

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:15:57

NOV 2018 thru OCT 2019

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
UnionCharges	713.9	8.1	705.8	1477.2	771.3	0	140	0	140	0.1961
Dracut 20	2329.4	4.9	2324.5	7300.0	4975.5	101	1134	0	1235	0.5301
ENGTGPZ4	2242.3	62.5	2179.8	9125.0	6945.2	667	0	0	667	0.2976
Z4toTGPLH	3929.6	33.4	3896.2	7665.0	3768.8	443	0	0	443	0.1126
Z4toStg	2754.4	9.1	2745.3	7882.5	5137.2	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWNTCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	0.0	0.0	0.0	651.2	651.2	0	█	0	█	0.0000
DAWN5Dracut	334.7	0.0	334.7	651.2	316.5	10	0	0	10	0.0309
Total		167.1				2117	█		█	0.6503

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

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SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:15:57

NOV 2019 thru OCT 2020

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2148	JAN 19, 2020	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	167.64
Other Variable Cost	346	Carrying Cost	315			System Unserved	0.00
		Other Variable Cost	0			Total	167.64
Total Variable	██████	Total Variable	408	Total Variable	2148		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	2686	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	85092
						Total Revenue	0
						Net Cost	85092

Avg Cost of Served Demand 5.438 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.952 USD/DT
(Supply Cost/LDC Purchase)

Class	Demand Summary					Served	Unserved	Revenue	Peak Served	Peak Unserved
	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.					
ENGINormal	15648.5	0.0	15648.5	0.0	15648.5	15648.5	0.0	0	167.6	0.0
Total	15648.5	0.0	15648.5	0.0	15648.5	15648.5	0.0	0	167.6	0.0

Source	Supply Summary			Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
	Total Take	Max Take	Surplus							
ENGUSGC	2326.3	18300.0	15973.7			2.8332	6591	0	6591	2.8332
ENGNiagara	959.2	1170.5	211.3			2.3512	2255	0	2255	2.3512
ENGPNGTS	342.9	366.0	23.1			2.9378	1007	0	1007	2.9378
ENGC3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6694.2	6698.7	4.5			1.8996	12716	0	12716	1.8996
DLiqWinter	250.0	250.0	0.0							
Dracut 20	2197.7	7335.4	5137.7			7.6466	16805	0	16805	7.6466
ENGC3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DLiqSummer	21.0	21.0	0.0							

5/1

NOV 2019 thru OCT 2020

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	726.0	2196.0	1470.0			2.8725	2085	0	2085	2.8725
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	706.2	11003.1	10296.9			9.4660	6685	0	6685	9.4660
Engie Combo	630.0	630.0	0.0							
DAWN5	835.3	1622.1	786.9							
Total	15849.6									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	321.0	321.0	0	0.0	12	95	0.0	0	120	126	5
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1017	1043	26
ENGFSMA	1498	96	1762.8	1743.9	0	18.9	1498	96	0.0	0	3080	2829	-251
ENGDominion	103	100	111.7	109.5	0	2.2	103	100	0.0	0	220	204	-16
ENGNFG	671	100	720.9	715.2	0	5.7	671	100	5.6	0	1391	1279	-112
ENGHON	246	100	240.4	240.4	0	0.0	246	100	0.0	0	488	458	-30
GranBrdgLNG	0	N/A	0.0	0.0	0	0.0	0	N/A	0.0	0	0	0	0
Total	2606	N/A	3317.6	3290.9	0	26.7	2606	N/A	5.6	0	6316	5938	-378

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2326.3	0.0	2326.3	7904.1	5577.9	0	5043	0	5043	2.1680	
ENGTGP2Stg	94.1	1.9	92.2	7904.1	7812.0	24	0	0	24	0.2572	
ENGTGPLong	6078.0	0.0	6078.0	8719.7	2641.7	0	0	0	0	0.0000	
ENGTGPBND	959.2	5.9	953.2	1142.7	189.4	82	267	0	349	0.3641	
ENGTGPShort	2803.4	23.8	2779.6	10290.1	7510.5	316	2688	0	3003	1.0714	
TrCanCharges	717.7	8.3	709.5	1481.2	771.7	0	698	0	698	0.9720	
IroqCharges	709.5	4.4	705.1	1481.2	776.1	63	640	0	703	0.9905	
ENGPNGTS	342.9	3.4	339.4	366.0	26.6	1	312	0	312	0.9112	
ENGLNG	321.0	0.0	321.0	10980.0	10659.0	0	0	0	0	0.0000	
ENGPropane	160.8	0.0	160.8	6370.0	6209.2	0	0	0	0	0.0000	
ENGC3Truck	160.8	0.0	160.8	4392.0	4231.2	161	0	0	161	1.0000	
Dracut 30	1184.9	2.5	1182.4	10980.0	9797.6	51	4388	0	4440	3.7469	

501

NOV 2019 thru OCT 2020

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
UnionCharges	726.0	8.3	717.7	1481.2	763.5	0	140	0	140	0.1929
Dracut 20	2554.3	5.4	2548.9	7320.0	4771.1	111	1134	0	1245	0.4873
ENGTGPZ4	2232.2	62.2	2170.0	9150.0	6980.0	664	0	0	664	0.2976
Z4toTGPLH	3941.5	33.5	3908.0	7686.0	3778.0	444	0	0	444	0.1126
Z4toStg	2752.7	9.1	2743.6	7904.1	5160.5	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1064.0	484.0	19	0	0	19	0.0335
GranBrdgPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56821.5	56821.5	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2928.0	2928.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWNTCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	0.0	0.0	0.0	1622.1	1622.1	0	█	0	█	0.0000
DAWN5Dracut	835.3	0.0	835.3	1622.1	786.9	26	0	0	26	0.0309
Total		168.7				2148	█		█	0.6903

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:15:57

NOV 2020 thru OCT 2021

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2177	JAN 19, 2021	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	168.94
Other Variable Cost	349	Carrying Cost	299			System Unserved	0.00
		Other Variable Cost	0			Total	168.94
Total Variable	██████	Total Variable	393	Total Variable	2177		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	2711	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	86234
						Total Revenue	0
						Net Cost	86234

Avg Cost of Served Demand 5.339 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.876 USD/DT
(Supply Cost/LDC Purchase)

Class	Demand Summary					Served	Unserved	Revenue	Peak Served	Peak Unserved
	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.					
ENGINormal	16150.3	0.0	16150.3	0.0	16150.3	16150.3	0.0	0	168.9	0.0
Total	16150.3	0.0	16150.3	0.0	16150.3	16150.3	0.0	0	168.9	0.0

Source	Supply Summary			Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
	Total Take	Max Take	Surplus							
ENGUSGC	2319.6	18250.0	15930.4			2.6954	6252	0	6252	2.6954
ENGNiagara	1065.6	1167.3	101.7			2.2282	2374	0	2374	2.2282
ENGPNGTS	343.6	365.0	21.4			2.8407	976	0	976	2.8407
ENG3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6689.1	6690.4	1.3			1.8040	12067	0	12067	1.8040
DliqWinter	250.0	250.0	0.0			██████████	██████████	██████████	██████████	██████████
Dracut 20	2232.1	7315.4	5083.2			7.1550	15971	0	15971	7.1550
ENG3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DliqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:15:57

NOV 2020 thru OCT 2021

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	731.0	2190.0	1459.0			2.7187	1987	0	1987	2.7187
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	921.9	10973.0	10051.2			9.8690	9098	0	9098	9.8690
Engie Combo	630.0	630.0	0.0							
DAWN5	988.6	1825.0	836.4							
Total	16353.4									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	321.0	320.4	0	0.0	13	100	0.0	1	126	127	2
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1043	1043	0
ENGFSMA	1498	96	1765.0	1746.2	0	18.9	1498	96	0.0	0	2829	2669	-160
ENGDominion	103	100	110.3	108.1	0	2.2	103	100	0.0	0	204	195	-9
ENGNFG	671	100	720.9	715.2	0	5.7	671	100	5.6	0	1279	1218	-62
ENGHON	246	100	237.5	237.5	0	0.0	246	100	0.0	0	458	433	-25
GranBrdgLNG	0	N/A	0.0	0.0	0	0.0	0	N/A	0.0	0	0	0	0
Total	2606	N/A	3315.5	3288.2	0	26.7	2607	N/A	5.6	1	5938	5684	-254

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2319.6	0.0	2319.6	7882.5	5563.0	0	5043	0	5043	2.1742	
ENGTGP2Stg	94.2	1.9	92.2	7882.5	7790.3	24	0	0	24	0.2572	
ENGTGPLong	6068.5	0.0	6068.5	8698.1	2629.6	0	0	0	0	0.0000	
ENGTGPBND	1065.6	6.6	1059.0	1139.5	80.5	91	267	0	358	0.3362	
ENGTGPShort	2801.3	23.8	2777.5	10262.0	7484.5	316	2688	0	3003	1.0721	
TrCanCharges	722.7	8.3	714.4	1477.2	762.8	0	698	0	698	0.9652	
IroqCharges	714.4	4.4	710.0	1477.2	767.2	63	640	0	703	0.9843	
ENGPNGTS	343.6	3.4	340.2	365.0	24.8	1	312	0	312	0.9093	
ENGLNG	320.4	0.0	320.4	10950.0	10629.6	0	0	0	0	0.0000	
ENGPropane	160.8	0.0	160.8	6335.0	6174.2	0	0	0	0	0.0000	
ENGC3Truck	160.8	0.0	160.8	4380.0	4219.2	161	0	0	161	1.0000	
Dracut 30	1499.6	3.1	1496.4	10950.0	9453.6	65	4388	0	4453	2.9698	

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:15:57

NOV 2020 thru OCT 2021

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
UnionCharges	731.0	8.3	722.7	1477.2	754.4	0	140	0	140	0.1915
Dracut 20	2643.1	5.6	2637.5	7300.0	4662.5	115	1134	0	1248	0.4723
ENGTGPZ4	2225.4	62.0	2163.4	9125.0	6961.6	662	0	0	662	0.2976
Z4toTGPLH	3938.6	33.5	3905.1	7665.0	3759.9	444	0	0	444	0.1126
Z4toStg	2750.5	9.1	2741.5	7882.5	5141.1	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWNTCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	0.0	0.0	0.0	1825.0	1825.0	0	█	0	█	0.0000
DAWN5Dracut	988.6	0.0	988.6	1825.0	836.4	31	0	0	31	0.0309
Total		170.1				2177	█		█	0.6889

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:15:57

NOV 2021 thru OCT 2022

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	48	Transportation Cost	2201	JAN 19, 2022	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	174.62
Other Variable Cost	353	Carrying Cost	283			System Unserved	0.00
		Other Variable Cost	0			Total	174.62
Total Variable	████	Total Variable	377	Total Variable	2201		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	2738	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	87764
						Total Revenue	0
						Net Cost	87764

Avg Cost of Served Demand 5.298 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.870 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	16566.0	0.0	16566.0	0.0	16566.0	16566.0	0.0	0	174.6	0.0
Total	16566.0	0.0	16566.0	0.0	16566.0	16566.0	0.0	0	174.6	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2326.2	18250.0	15923.8			2.6639	6197	0	6197	2.6639
ENGNiagara	1083.5	1167.3	83.7			2.1993	2383	0	2383	2.1993
ENGPNGTS	346.4	365.0	18.6			2.8143	975	0	975	2.8143
ENG3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6689.6	6690.4	0.8			1.6727	11190	0	11190	1.6727
DLiqWinter	250.0	250.0	0.0							
Dracut 20	2423.1	7315.4	4892.2			7.3029	17696	0	17696	7.3029
ENG3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DLiqSummer	21.0	21.0	0.0							

104

NOV 2021 thru OCT 2022

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	742.0	2190.0	1448.0			2.6914	1997	0	1997	2.6914
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	1036.0	10973.0	9937.1			9.3251	9661	0	9661	9.3251
Engie Combo	630.0	630.0	0.0							
DAWN5	1061.2	1825.0	763.8							
Total	16769.9									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	321.0	321.0	0	0.0	13	100	0.0	0	127	128	1
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1043	1043	0
ENGFSMA	1498	96	1767.5	1748.6	0	18.9	1498	96	0.0	0	2669	2475	-194
ENGDominion	103	100	109.7	107.5	0	2.1	103	100	0.0	0	195	181	-14
ENGNFG	671	100	720.9	715.2	0	5.7	671	100	5.6	0	1218	1130	-88
ENGHON	246	100	236.1	236.1	0	0.0	246	100	0.0	0	433	403	-30
GranBrdgLNG	0	N/A	0.0	0.0	0	0.0	0	N/A	0.0	0	0	0	0
Total	2607	N/A	3315.9	3289.2	0	26.7	2607	N/A	5.6	0	5684	5359	-325

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2326.2	0.0	2326.2	7882.5	5556.3	0	5043	0	5043	2.1680	
ENGTGP2Stg	95.2	1.9	93.2	7882.5	7789.3	24	0	0	24	0.2572	
ENGTGPLong	6075.0	0.0	6075.0	8698.1	2623.1	0	0	0	0	0.0000	
ENGTGPBND	1083.5	6.7	1076.8	1139.5	62.7	92	267	0	360	0.3321	
ENGTGPShort	2801.7	23.8	2777.9	10262.0	7484.1	316	2688	0	3003	1.0719	
TrCanCharges	733.6	8.4	725.2	1477.2	752.0	0	698	0	698	0.9509	
IroqCharges	725.2	4.5	720.7	1477.2	756.5	64	640	0	704	0.9710	
ENGPNGTS	346.4	3.5	343.0	365.0	22.0	1	312	0	312	0.9019	
ENGLNG	321.0	0.0	321.0	10950.0	10629.0	0	0	0	0	0.0000	
ENGPropane	160.8	0.0	160.8	6335.0	6174.2	0	0	0	0	0.0000	
ENGC3Truck	160.8	0.0	160.8	4380.0	4219.2	161	0	0	161	1.0000	
Dracut 30	1576.7	3.3	1573.4	10950.0	9376.6	68	4388	0	4457	2.8266	

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:15:57

NOV 2021 thru OCT 2022

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
UnionCharges	742.0	8.5	733.6	1477.2	743.6	0	140	0	140	0.1887
Dracut 20	2943.6	6.2	2937.4	7300.0	4362.6	128	1134	0	1261	0.4286
ENGTGPZ4	2231.0	62.2	2168.9	9125.0	6956.1	664	0	0	664	0.2976
Z4toTGPLH	3939.7	33.5	3906.2	7665.0	3758.8	444	0	0	444	0.1126
Z4toStg	2749.9	9.1	2740.9	7882.5	5141.7	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWNTCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	0.0	0.0	0.0	1825.0	1825.0	0	█	0	█	0.0000
DAWN5Dracut	1061.2	0.0	1061.2	1825.0	763.8	33	0	0	33	0.0309
Total		171.6				2201	█		█	0.6779

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:15:57

NOV 2022 thru OCT 2023

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	██████	Transportation Cost	██████	JAN 19, 2023	
Penalty Cost	0	Withdrawal Cost	██████	Other Variable Cost	0	System Served	183.41
Other Variable Cost	328	Carrying Cost	██████			System Unserved	0.00
		Other Variable Cost	0			Total	183.41
Total Variable	██████	Total Variable	██████	Total Variable	██████		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	2670	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	126812
						Total Revenue	0
						Net Cost	126812

Avg Cost of Served Demand 7.126 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.838 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	17796.0	0.0	17796.0	0.0	17796.0	17796.0	0.0	0	183.4	0.0
Total	17796.0	0.0	17796.0	0.0	17796.0	17796.0	0.0	0	183.4	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2346.7	18250.0	15903.3			2.6911	6315	0	6315	2.6911
ENGNiagara	1146.6	1167.3	20.6			2.2416	2570	0	2570	2.2416
ENGPNGTS	351.0	365.0	14.0			2.8210	990	0	990	2.8210
ENG3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6690.4	6690.4	0.0			1.5680	10490	0	10490	1.5680
DLiqWinter	250.0	250.0	0.0							
Dracut 20	2889.1	7315.4	4426.2			6.7050	19372	0	19372	6.7050
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENG Dawn	1261.2	2190.0	928.8			2.5860	3261	0	3261	2.5860

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:15:57

NOV 2022 thru OCT 2023

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	1728.7	10973.0	9244.3			8.4878	14673	0	14673	8.4878
Engie Combo	630.0	630.0	0.0							
DAWN5	1819.0	1825.0	6.0							
Total	19204.5									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	332.9	332.9	0	0.0	13	100	0.0	0	128	106	-22
ENGPropane	77	100	91.7	168.5	0	0.0	0	0	0.0	-77	1043	160	-883
ENGFSMA	1498	96	1772.0	1753.0	0	19.0	1498	96	0.0	0	2475	2320	-155
ENGDominion	103	100	110.4	108.2	0	2.2	103	100	0.0	0	181	166	-15
ENGNFG	671	100	723.5	717.8	0	5.7	671	100	5.7	0	1130	1061	-69
ENGHON	246	100	234.9	234.9	0	0.0	246	100	0.0	0	403	378	-25
GranBrdgLNG	0	N/A											
Total	2607	N/A											

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	2346.7	0.0	2346.7	7882.5	5535.8	0	5043	0	5043	2.1491		
ENGTGP2Stg	103.5	2.1	101.4	7882.5	7781.2	27	0	0	27	0.2572		
ENGTGPLong	6089.1	0.0	6089.1	8698.1	2609.0	0	0	0	0	0.0000		
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185		
ENGTGPShort	2808.3	23.9	2784.4	10262.0	7477.6	316	2688	0	3004	1.0697		
TrCanCharges	1246.9	14.3	1232.5	1477.2	244.6	0	698	0	698	0.5595		
IroqCharges	1232.5	7.6	1224.9	1477.2	252.3	109	640	0	749	0.6078		
ENGPNGTS	351.0	3.5	347.5	365.0	17.5	1	312	0	312	0.8901		
ENGLNG	332.9	0.0	332.9	10950.0	10617.1	0	0	0	0	0.0000		
ENGPropane	168.5	0.0	168.5	6335.0	6166.5	0	0	0	0	0.0000		
ENGC3Truck	91.7	0.0	91.7	4380.0	4288.3	92	0	0	92	1.0000		
Dracut 30	2509.3	5.3	2504.0	10950.0	8446.0	109	4388	0	4497	1.7922		
UnionCharges	1261.2	14.4	1246.9	1477.2	230.3	0	140	0	140	0.1110		

501

NOV 2022 thru OCT 2023

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Dracut 20	2108.5	4.4	2104.1	7300.0	5195.9	92	1134	0	1225	0.5811
ENGTGPZ4	2243.2	62.5	2180.7	9125.0	6944.3	668	0	0	668	0.2976
Z4toTGPLH	3941.9	33.5	3908.4	7665.0	3756.6	444	0	0	444	0.1126
Z4toStg	2748.5	9.1	2739.4	7882.5	5143.1	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL				73000.0		0		0		
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101				56666.3			0	0		
LNGtoLNG	32.9	0.0	32.9	2920.0	2887.1	16	0	0	16	0.5000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWNTCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1819.0	0.0	1819.0	1825.0	6.0	56		0		
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total										

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

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SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:15:57

NOV 2023 thru OCT 2024

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	██████	Transportation Cost	██████	JAN 19, 2024	
Penalty Cost	0	Withdrawal Cost	██████	Other Variable Cost	0	System Served	187.62
Other Variable Cost	0	Carrying Cost	██████			System Unserved	0.00
		Other Variable Cost	0			Total	187.62
Total Variable	██████	Total Variable	██████	Total Variable	██████		
Demand/Reservation Co	0	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	0	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	118664
						Total Revenue	0
						Net Cost	118664

Avg Cost of Served Demand 6.490 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.058 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	18283.3	0.0	18283.3	0.0	18283.3	18283.3	0.0	0	187.6	0.0
Total	18283.3	0.0	18283.3	0.0	18283.3	18283.3	0.0	0	187.6	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2366.4	18300.0	15933.6			2.7627	6537	0	6537	2.7627
ENGNiagara	1149.8	1170.5	20.7			2.3388	2689	0	2689	2.3388
ENGPNGTS	356.7	366.0	9.3			2.9047	1036	0	1036	2.9047
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6698.7	6698.7	0.0			1.6985	11378	0	11378	1.6985
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	2622.6	7335.4	4712.8			5.2760	13837	0	13837	5.2760
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1282.3	2196.0	913.7			2.6636	3415	0	3415	2.6636

NOV 2023 thru OCT 2024

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	2255.1	11003.1	8748.0			5.7856	13047	0	13047	5.7856
Engie Combo	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DAWN5	1828.7	1830.0	1.3							
Total	18560.3									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	102.2	102.2	0	0.0	13	100	0.0	0	106	121	15
ENGFSMA	1498	96	1772.8	1753.8	0	19.0	1498	96	0.0	0	2320	2526	206
ENGDominion	103	100	112.2	110.0	0	2.2	103	100	0.0	0	166	180	14
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1061	1152	91
ENGHON	246	100	236.1	236.1	0	0.0	246	100	0.0	0	378	403	25
GranBrdgLNG													
Total													

Transportation Summary										
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPPProd	2366.4	0.0	2366.4	7904.1	5537.8	0	5043	0	5043	2.1312
ENGTGP2Stg	104.5	2.1	102.4	7904.1	7801.7	27	0	0	27	0.2572
ENGTGPLong	6112.5	0.0	6112.5	8719.7	2607.2	0	0	0	0	0.0000
ENGTGPBND	1149.8	7.1	1142.7	1142.7	0.0	98	267	0	365	0.3179
ENGTGPShort	2812.2	23.9	2788.3	10290.1	7501.8	317	2688	0	3004	1.0683
TrCanCharges	1267.7	14.6	1253.1	1481.2	228.1	0	698	0	698	0.5503
IroqCharges	1253.1	7.8	1245.3	1481.2	235.9	111	640	0	751	0.5993
ENGPNGTS	356.7	3.6	353.2	366.0	12.8	1	312	0	312	0.8758
ENGLNG	102.2	0.0	102.2	10980.0	10877.8	0	0	0	0	0.0000
ENGPropane	0.0	0.0	0.0	6370.0	6370.0	0	0	0	0	0.0000
ENGC3Truck	0.0	0.0	0.0	4392.0	4392.0	0	0	0	0	0.0000
Dracut 30	3532.2	7.4	3524.8	10980.0	7455.2	153	4388	0	4542	1.2858
UnionCharges	1282.3	14.6	1267.7	1481.2	213.5	0	140	0	140	0.1092
Dracut 20	1345.5	2.8	1342.7	7320.0	5977.3	58	1134	0	1192	0.8860

NOV 2023 thru OCT 2024

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2261.8	63.0	2198.8	9150.0	6951.2	673	0	0	673	0.2976
Z4toTGPLH	3947.2	33.6	3913.7	7686.0	3772.3	445	0	0	445	0.1126
Z4toStg	2751.5	9.1	2742.4	7904.1	5161.8	136	0	0	136	0.0495
Engie2CG	0.0	0.0	0.0	1064.0	1064.0	0	0	0	0	0.0000
GranBrdgPL				73200.0		0		0		
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000
LNGtoRT101				56821.5			0	0		
LNGtoLNG	102.2	0.0	102.2	2928.0	2825.8	51	0	0	51	0.5000
Engie2ENGLNG	0.0	0.0	0.0	50.0	50.0	0	0	0	0	0.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5CPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1828.7	0.0	1828.7	1830.0	1.3	57		0		
DAWN5Dracut	0.0	0.0	0.0	1830.0	1830.0	0	0	0	0	0.0000
Total										

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

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SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:15:57

NOV 2024 thru OCT 2025

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	██████	Transportation Cost	██████	JAN 19, 2025	
Penalty Cost	0	Withdrawal Cost	██████	Other Variable Cost	0	System Served	191.54
Other Variable Cost	0	Carrying Cost	██████			System Unserved	0.00
		Other Variable Cost	0			Total	191.54
Total Variable	██████	Total Variable	██████	Total Variable	██████		
Demand/Reservation Co	0	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	0	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	123119
						Total Revenue	0
						Net Cost	123119

Avg Cost of Served Demand 6.617 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.239 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	18605.3	0.0	18605.3	0.0	18605.3	18605.3	0.0	0	191.5	0.0
Total	18605.3	0.0	18605.3	0.0	18605.3	18605.3	0.0	0	191.5	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2354.9	18250.0	15895.1			2.8554	6724	0	6724	2.8554
ENGNiagara	1146.6	1167.3	20.6			2.4557	2816	0	2816	2.4557
ENGPNGTS	358.0	365.0	7.0			2.9827	1068	0	1068	2.9827
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			1.8482	12365	0	12365	1.8482
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	2772.0	7315.4	4543.4			5.3986	14965	0	14965	5.3986
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1294.7	2190.0	895.3			2.7619	3576	0	3576	2.7619

0.0

NOV 2024 thru OCT 2025

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0	0.0000
Dracut 30	2441.9	10973.0	8531.1			6.0026	14658	0	14658		6.0026
Engie Combo	0.0	0.0	0.0			0.0000	0	0	0	0	0.0000
DAWN5	1824.6	1825.0	0.4								
Total	18883.2										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	103.5	103.5	0	0.0	13	100	0.0	0	121	128	7
ENGFSMA	1498	96	1775.3	1756.3	0	19.0	1498	96	0.0	0	2526	2761	235
ENGDominion	103	100	110.4	108.2	0	2.2	103	100	0.0	0	180	196	16
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1152	1253	100
ENGHON	246	100	234.9	234.9	0	0.0	246	100	0.0	0	403	440	37
GranBrdgLNG													
Total													

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2354.9	0.0	2354.9	7882.5	5527.6	0	5043	0	5043		2.1416
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28		0.2572
ENGTGPLong	6093.5	0.0	6093.5	8698.1	2604.6	0	0	0	0		0.0000
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365		0.3185
ENGTGPShort	2811.8	23.9	2787.9	10262.0	7474.1	317	2688	0	3004		1.0685
TrCanCharges	1280.0	14.7	1265.2	1477.2	211.9	0	698	0	698		0.5450
IroqCharges	1265.2	7.8	1257.4	1477.2	219.8	112	640	0	752		0.5944
ENGPNGTS	358.0	3.6	354.4	365.0	10.6	1	312	0	312		0.8728
ENGLNG	103.5	0.0	103.5	10950.0	10846.5	0	0	0	0		0.0000
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0		0.0000
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0		0.0000
Dracut 30	3695.9	7.8	3688.2	10950.0	7261.8	160	4388	0	4549		1.2307
UnionCharges	1294.7	14.7	1280.0	1477.2	197.2	0	140	0	140		0.1081
Dracut 20	1518.0	3.2	1514.8	7300.0	5785.2	66	1134	0	1200		0.7903

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

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SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:15:57

NOV 2024 thru OCT 2025

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary										
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2247.7	62.6	2185.1	9125.0	6939.9	669	0	0	669	0.2976
Z4toTGPLH	3941.9	33.5	3908.4	7665.0	3756.6	444	0	0	444	0.1126
Z4toStg	2748.5	9.1	2739.4	7882.5	5143.1	136	0	0	136	0.0495
Engie2CG	0.0	0.0	0.0	1057.0	1057.0	0	0	0	0	0.0000
GranBrdgPL				73000.0		0		0		
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101				56666.3			0	0		
LNGtoLNG	103.5	0.0	103.5	2920.0	2816.5	52	0	0	52	0.5000
Engie2ENGLNG	0.0	0.0	0.0	50.0	50.0	0	0	0	0	0.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5CPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1824.6	0.0	1824.6	1825.0	0.4	56		0		
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total										

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:15:57

NOV 2025 thru OCT 2026

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	█	Injection Cost	█	Transportation Cost	█	JAN 19, 2026	
Penalty Cost	0	Withdrawal Cost	█	Other Variable Cost	0	System Served	194.99
Other Variable Cost	0	Carrying Cost	█			System Unserved	0.00
		Other Variable Cost	0			Total	194.99
Total Variable	█	Total Variable	█	Total Variable	█		
Demand/Reservation Co	0	Demand Cost	█	Demand Cost	█		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	0	Total Fixed	█	Total Fixed	█		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	█	Net Storage Cost	█	Net Trans Cost	█	Total Gas Cost	127962
						Total Revenue	0
						Net Cost	127962

Avg Cost of Served Demand 6.754 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.434 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	18947.4	0.0	18947.4	0.0	18947.4	18947.4	0.0	0	195.0	0.0
Total	18947.4	0.0	18947.4	0.0	18947.4	18947.4	0.0	0	195.0	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2356.1	18250.0	15893.9			2.9742	7007	0	7007	2.9742
ENGNiagara	1146.6	1167.3	20.6			2.5834	2962	0	2962	2.5834
ENGPNGTS	360.0	365.0	5.0			3.0768	1108	0	1108	3.0768
ENG3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.0008	13386	0	13386	2.0008
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3208.6	7315.4	4106.8			5.3341	17115	0	17115	5.3341
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENG3Dawn	1091.4	2190.0	1098.6			2.9058	3172	0	3172	2.9058

43

NOV 2025 thru OCT 2026

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	2542.3	10973.0	8430.7			6.3127	16049	0	16049	6.3127
Engie Combo	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DAWN5	1824.8	1825.0	0.2							
Total	19220.3									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	103.1	103.1	0	0.0	13	100	0.0	0	128	133	5
ENGFSMA	1498	96	1775.1	1756.1	0	19.0	1498	96	0.0	0	2761	2956	195
ENGDominion	103	100	110.4	108.2	0	2.2	103	100	0.0	0	196	212	16
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1253	1354	101
ENGHON	246	100	234.9	234.9	0	0.0	246	100	0.0	0	440	475	36
GranBrdgLNG													
Total													

Transportation Summary										
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPPProd	2356.1	0.0	2356.1	7882.5	5526.5	0	5043	0	5043	2.1406
ENGTGP2Stg	106.9	2.2	104.7	7882.5	7777.8	28	0	0	28	0.2572
ENGTGPLong	6094.9	0.0	6094.9	8698.1	2603.2	0	0	0	0	0.0000
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185
ENGTGPShort	2811.6	23.9	2787.7	10262.0	7474.3	317	2688	0	3004	1.0686
TrCanCharges	1079.0	12.4	1066.6	1477.2	410.5	0	698	0	698	0.6465
IroqCharges	1066.6	6.6	1060.0	1477.2	417.2	95	640	0	734	0.6885
ENGPNGTS	360.0	3.6	356.4	365.0	8.6	1	312	0	312	0.8679
ENGLNG	103.1	0.0	103.1	10950.0	10846.9	0	0	0	0	0.0000
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000
Dracut 30	4162.5	8.7	4153.7	10950.0	6796.3	181	4388	0	4569	1.0977
UnionCharges	1091.4	12.4	1079.0	1477.2	398.1	0	140	0	140	0.1283
Dracut 20	1588.4	3.3	1585.1	7300.0	5714.9	69	1134	0	1203	0.7571

4/4

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

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SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:15:57

NOV 2025 thru OCT 2026

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2249.1	62.7	2186.5	9125.0	6938.5	669	0	0	669	0.2976
Z4toTGPLH	3941.9	33.5	3908.4	7665.0	3756.6	444	0	0	444	0.1126
Z4toStg	2748.5	9.1	2739.4	7882.5	5143.1	136	0	0	136	0.0495
Engie2CG	0.0	0.0	0.0	1057.0	1057.0	0	0	0	0	0.0000
GranBrdgPL				73000.0		0		0		
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101				56666.3			0	0		
LNGtoLNG	103.1	0.0	103.1	2920.0	2816.9	52	0	0	52	0.5000
Engie2ENGLNG	0.0	0.0	0.0	50.0	50.0	0	0	0	0	0.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5CPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1824.8	0.0	1824.8	1825.0	0.2	56		0		
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total										

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:15:57

NOV 2026 thru OCT 2027

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	██████	Transportation Cost	██████	JAN 19, 2027	
Penalty Cost	0	Withdrawal Cost	██████	Other Variable Cost	0	System Served	198.17
Other Variable Cost	0	Carrying Cost	██████			System Unserved	0.00
		Other Variable Cost	0			Total	198.17
Total Variable	██████	Total Variable	██████	Total Variable	██████		
Demand/Reservation Co	0	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	0	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	132222
						Total Revenue	0
						Net Cost	132222

Avg Cost of Served Demand 6.868 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.597 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	19251.6	0.0	19251.6	0.0	19251.6	19251.6	0.0	0	198.2	0.0
Total	19251.6	0.0	19251.6	0.0	19251.6	19251.6	0.0	0	198.2	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2358.2	18250.0	15891.8			3.0656	7229	0	7229	3.0656
ENGNiagara	1146.6	1167.3	20.6			2.6881	3082	0	3082	2.6881
ENGPNGTS	360.0	365.0	5.0			3.1419	1131	0	1131	3.1419
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.1318	14262	0	14262	2.1318
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3122.5	7315.4	4192.9			5.6968	17788	0	17788	5.6968
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENG Dawn	1109.4	2190.0	1080.6			2.9934	3321	0	3321	2.9934

NOV 2026 thru OCT 2027

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	2913.1	10973.0	8059.9			6.1963	18051	0	18051	6.1963
Engie Combo	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DAWN5	1825.0	1825.0	0.0							
Total	19525.2									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	102.0	102.0	0	0.0	13	100	0.0	0	133	136	3
ENGFSMA	1498	96	1775.1	1756.1	0	19.0	1498	96	0.0	0	2956	3156	200
ENGDominion	103	100	109.8	107.6	0	2.1	103	100	0.0	0	212	226	14
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1354	1444	91
ENGHON	246	100	234.9	234.9	0	0.0	246	100	0.0	0	475	509	33
GranBrdgLNG													
Total													

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2358.2	0.0	2358.2	7882.5	5524.3	0	5043	0	5043	2.1386	
ENGTGP2Stg	106.9	2.2	104.7	7882.5	7777.8	28	0	0	28	0.2572	
ENGTGPLong	6097.5	0.0	6097.5	8698.1	2600.6	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2811.0	23.9	2787.1	10262.0	7474.9	317	2688	0	3004	1.0688	
TrCanCharges	1096.7	12.6	1084.1	1477.2	393.0	0	698	0	698	0.6361	
IroqCharges	1084.1	6.7	1077.4	1477.2	399.8	96	640	0	736	0.6789	
ENGPNGTS	360.0	3.6	356.4	365.0	8.6	1	312	0	312	0.8679	
ENGLNG	102.0	0.0	102.0	10950.0	10848.0	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	4207.2	8.8	4198.4	10950.0	6751.6	183	4388	0	4571	1.0865	
UnionCharges	1109.4	12.6	1096.7	1477.2	380.4	0	140	0	140	0.1262	
Dracut 20	1828.4	3.8	1824.5	7300.0	5475.5	79	1134	0	1213	0.6635	

NOV 2026 thru OCT 2027

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total	Fuel	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel	Net Cost	Average
	Flow	Consumed								
ENGTGPZ4	2251.3	62.7	2188.5	9125.0	6936.5	670	0	0	670	0.2976
Z4toTGPLH	3942.5	33.5	3909.0	7665.0	3756.0	444	0	0	444	0.1126
Z4toStg	2747.9	9.1	2738.8	7882.5	5143.7	136	0	0	136	0.0495
Engie2CG	0.0	0.0	0.0	1057.0	1057.0	0	0	0	0	0.0000
GranBrdgPL				73000.0		0		0		
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101				56666.3			0	0		
LNGtoLNG	102.0	0.0	102.0	2920.0	2818.0	51	0	0	51	0.5000
Engie2ENGLNG	0.0	0.0	0.0	50.0	50.0	0	0	0	0	0.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0		
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total										

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

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SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:15:57

NOV 2027 thru OCT 2028

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	██████	Transportation Cost	██████	JAN 19, 2028	
Penalty Cost	0	Withdrawal Cost	██████	Other Variable Cost	0	System Served	200.70
Other Variable Cost	0	Carrying Cost	██████			System Unserved	0.00
		Other Variable Cost	0			Total	200.70
Total Variable	██████	Total Variable	██████	Total Variable	██████		
Demand/Reservation Co	0	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	0	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	144845
						Total Revenue	0
						Net Cost	144845

Avg Cost of Served Demand 7.395 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.731 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	19586.6	0.0	19586.6	0.0	19586.6	19586.6	0.0	0	200.7	0.0
Total	19586.6	0.0	19586.6	0.0	19586.6	19586.6	0.0	0	200.7	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2419.5	18300.0	15880.5			3.1541	7631	0	7631	3.1541
ENGNiagara	1149.8	1170.5	20.7			2.7871	3205	0	3205	2.7871
ENGPNGTS	363.0	366.0	3.0			3.2230	1170	0	1170	3.2230
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6698.7	6698.7	0.0			2.2523	15087	0	15087	2.2523
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3818.8	7335.4	3516.6			5.4801	20927	0	20927	5.4801
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENG Dawn	1372.7	2196.0	823.3			3.0428	4177	0	4177	3.0428

NOV 2027 thru OCT 2028

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0	0.0000
Dracut 30	3042.4	11003.1	7960.7			6.3984	19466	0	19466		6.3984
Engie Combo	0.0	0.0	0.0			0.0000	0	0	0	0	0.0000
DAWN5	1830.0	1830.0	0.0								
Total	20694.9										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	100.4	100.4	0	0.0	13	100	0.0	0	136	144	7
ENGFSMA	1498	96	1775.3	1756.3	0	19.0	1498	96	0.0	0	3156	3369	213
ENGDominion	103	100	109.8	107.6	0	2.1	103	100	0.0	0	226	238	12
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1444	1533	89
ENGHON	246	100	233.7	233.7	0	0.0	246	100	0.0	0	509	539	31
GranBrdgLNG													
Total													

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2419.5	0.0	2419.5	7904.1	5484.6	0	5043	0	5043		2.0844
ENGTGP2Stg	107.1	2.2	105.0	7904.1	7799.2	28	0	0	28		0.2572
ENGTGPLong	6166.3	0.0	6166.3	8719.7	2553.4	0	0	0	0		0.0000
ENGTGPBND	1149.8	7.1	1142.7	1142.7	0.0	98	267	0	365		0.3179
ENGTGPShort	2810.1	23.9	2786.2	10290.1	7503.9	317	2688	0	3004		1.0691
TrCanCharges	1357.0	15.6	1341.4	1481.2	139.8	0	698	0	698		0.5141
IroqCharges	1341.4	8.3	1333.1	1481.2	148.1	119	640	0	759		0.5657
ENGPNGTS	363.0	3.6	359.4	366.0	6.6	1	312	0	312		0.8608
ENGLNG	100.4	0.0	100.4	10980.0	10879.6	0	0	0	0		0.0000
ENGPropane	0.0	0.0	0.0	6370.0	6370.0	0	0	0	0		0.0000
ENGC3Truck	0.0	0.0	0.0	4392.0	4392.0	0	0	0	0		0.0000
Dracut 30	4816.2	10.1	4806.1	10980.0	6173.9	209	4388	0	4597		0.9546
UnionCharges	1372.7	15.6	1357.0	1481.2	124.2	0	140	0	140		0.1020
Dracut 20	2045.0	4.3	2040.7	7320.0	5279.3	89	1134	0	1222		0.5978

084

NOV 2027 thru OCT 2028

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total		Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
	Flow	Fuel Consumed								
ENGTGPZ4	2312.4	64.4	2247.9	9150.0	6902.1	688	0	0	688	0.2976
Z4toTGPLH	3952.0	33.6	3918.4	7686.0	3767.6	445	0	0	445	0.1126
Z4toStg	2746.7	9.1	2737.6	7904.1	5166.5	136	0	0	136	0.0495
Engie2CG	0.0	0.0	0.0	1064.0	1064.0	0	0	0	0	0.0000
GranBrdgPL				73200.0		0		0		
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000
LNGtoRT101				56821.5			0	0		
LNGtoLNG	100.4	0.0	100.4	2928.0	2827.6	50	0	0	50	0.5000
Engie2ENGLNG	0.0	0.0	0.0	50.0	50.0	0	0	0	0	0.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5CPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1830.0	0.0	1830.0	1830.0	0.0	57		0		
DAWN5Dracut	0.0	0.0	0.0	1830.0	1830.0	0	0	0	0	0.0000
Total										

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

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Report 1 12:15:57

NOV 2028 thru OCT 2029

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	██████	Transportation Cost	██████	JAN 19, 2029	
Penalty Cost	0	Withdrawal Cost	██████	Other Variable Cost	0	System Served	203.52
Other Variable Cost	0	Carrying Cost	██████			System Unserved	0.00
		Other Variable Cost	0			Total	203.52
Total Variable	██████	Total Variable	██████	Total Variable	██████		
Demand/Reservation Co	0	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	0	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	141337
						Total Revenue	0
						Net Cost	141337

Avg Cost of Served Demand 7.140 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.483 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	19794.3	0.0	19794.3	0.0	19794.3	19794.3	0.0	0	203.5	0.0
Total	19794.3	0.0	19794.3	0.0	19794.3	19794.3	0.0	0	203.5	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2403.5	18250.0	15846.5			3.2080	7711	0	7711	3.2080
ENGNiagara	1146.6	1167.3	20.6			2.8226	3237	0	3237	2.8226
ENGPNGTS	364.0	365.0	1.0			3.2663	1189	0	1189	3.2663
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.2789	15247	0	15247	2.2789
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3489.9	7315.4	3825.5			4.7646	16628	0	16628	4.7646
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1369.7	2190.0	820.3			3.0803	4219	0	4219	3.0803

NOV 2028 thru OCT 2029

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	2814.1	10973.0	8158.9			5.7560	16198	0	16198	5.7560
Engie Combo	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DAWN5	1825.0	1825.0	0.0							
Total	20103.3									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	97.5	97.5	0	0.0	13	100	0.0	0	144	142	-2
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3369	3402	33
ENGDominion	103	100	111.6	109.4	0	2.2	103	100	0.0	0	238	241	3
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1533	1548	15
ENGHON	246	100	236.9	236.9	0	0.0	246	100	0.0	0	539	549	9
GranBrdgLNG													
Total													

Transportation Summary										
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPPProd	2403.5	0.0	2403.5	7882.5	5479.0	0	5043	0	5043	2.0983
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572
ENGTGPLong	6139.6	0.0	6139.6	8698.1	2558.5	0	0	0	0	0.0000
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185
ENGTGPShort	2813.0	23.9	2789.1	10262.0	7472.9	317	2688	0	3005	1.0681
TrCanCharges	1354.1	15.6	1338.5	1477.2	138.6	0	698	0	698	0.5152
IroqCharges	1338.5	8.3	1330.2	1477.2	146.9	119	640	0	759	0.5667
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584
ENGLNG	97.5	0.0	97.5	10950.0	10852.5	0	0	0	0	0.0000
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000
Dracut 30	4502.2	9.5	4492.8	10950.0	6457.2	195	4388	0	4584	1.0181
UnionCharges	1369.7	15.6	1354.1	1477.2	123.1	0	140	0	140	0.1022
Dracut 20	1801.8	3.8	1798.0	7300.0	5502.0	78	1134	0	1212	0.6726

NOV 2028 thru OCT 2029

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2296.4	64.0	2232.4	9125.0	6892.6	683	0	0	683	0.2976
Z4toTGPLH	3940.7	33.5	3907.2	7665.0	3757.8	444	0	0	444	0.1126
Z4toStg	2749.7	9.1	2740.6	7882.5	5141.9	136	0	0	136	0.0495
Engie2CG	0.0	0.0	0.0	1057.0	1057.0	0	0	0	0	0.0000
GranBrdgPL				73000.0		0		0		
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101				56666.3			0	0		
LNGtoLNG	97.5	0.0	97.5	2920.0	2822.5	49	0	0	49	0.5000
Engie2ENGLNG	0.0	0.0	0.0	50.0	50.0	0	0	0	0	0.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5CPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0		
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total										

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

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Report 1 12:15:57

NOV 2029 thru OCT 2030

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	██████	Transportation Cost	██████	JAN 19, 2030	
Penalty Cost	0	Withdrawal Cost	██████	Other Variable Cost	0	System Served	206.14
Other Variable Cost	0	Carrying Cost	██████			System Unserved	0.00
		Other Variable Cost	0			Total	206.14
Total Variable	██████	Total Variable	██████	Total Variable	██████		
Demand/Reservation Co	0	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	0	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	143641
						Total Revenue	0
						Net Cost	143641

Avg Cost of Served Demand 7.163 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.552 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20053.4	0.0	20053.4	0.0	20053.4	20053.4	0.0	0	206.1	0.0
Total	20053.4	0.0	20053.4	0.0	20053.4	20053.4	0.0	0	206.1	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2405.7	18250.0	15844.3			3.2401	7795	0	7795	3.2401
ENGNiagara	1146.6	1167.3	20.6			2.8509	3269	0	3269	2.8509
ENGPNGTS	364.0	365.0	1.0			3.2990	1201	0	1201	3.2990
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.3017	15399	0	15399	2.3017
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3543.9	7315.4	3771.5			4.8437	17166	0	17166	4.8437
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1370.1	2190.0	819.9			3.1110	4262	0	4262	3.1110

88

NOV 2029 thru OCT 2030

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0	0.0000
Dracut 30	3016.6	10973.0	7956.5			5.8256	17573	0	17573	5.8256	
Engie Combo	0.0	0.0	0.0			0.0000	0	0	0	0.0000	
DAWN5	1825.0	1825.0	0.0								
Total	20362.3										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	99.8	99.8	0	0.0	13	100	0.0	0	142	143	0
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3402	3435	33
ENGDominion	103	100	111.0	108.8	0	2.2	103	100	0.0	0	241	243	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1548	1563	15
ENGHON	246	100	236.9	236.9	0	0.0	246	100	0.0	0	549	555	6
GranBrdgLNG													
Total													

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2405.7	0.0	2405.7	7882.5	5476.9	0	5043	0	5043	2.0964	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6142.3	0.0	6142.3	8698.1	2555.8	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2812.4	23.9	2788.5	10262.0	7473.4	317	2688	0	3004	1.0683	
TrCanCharges	1354.5	15.6	1338.9	1477.2	138.3	0	698	0	698	0.5150	
IroqCharges	1338.9	8.3	1330.6	1477.2	146.6	119	640	0	759	0.5666	
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584	
ENGLNG	99.8	0.0	99.8	10950.0	10850.2	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	4553.4	9.6	4543.8	10950.0	6406.2	198	4388	0	4586	1.0072	
UnionCharges	1370.1	15.6	1354.5	1477.2	122.7	0	140	0	140	0.1022	
Dracut 20	2007.1	4.2	2002.9	7300.0	5297.1	87	1134	0	1221	0.6083	

984

NOV 2029 thru OCT 2030

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total	Fuel	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel	Net Cost	Average
	Flow	Consumed								
ENGTGPZ4	2298.5	64.1	2234.5	9125.0	6890.5	684	0	0	684	0.2976
Z4toTGPLH	3941.3	33.5	3907.8	7665.0	3757.2	444	0	0	444	0.1126
Z4toStg	2749.1	9.1	2740.0	7882.5	5142.5	136	0	0	136	0.0495
Engie2CG	0.0	0.0	0.0	1057.0	1057.0	0	0	0	0	0.0000
GranBrdgPL				73000.0		0		0		
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101				56666.3			0	0		
LNGtoLNG	99.8	0.0	99.8	2920.0	2820.2	50	0	0	50	0.5000
Engie2ENGLNG	0.0	0.0	0.0	50.0	50.0	0	0	0	0	0.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0		
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total										

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

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SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:15:57

NOV 2030 thru OCT 2031

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	██████	Transportation Cost	██████	JAN 19, 2031	
Penalty Cost	0	Withdrawal Cost	██████	Other Variable Cost	0	System Served	208.77
Other Variable Cost	0	Carrying Cost	██████			System Unserved	0.00
		Other Variable Cost	0			Total	208.77
Total Variable	██████	Total Variable	██████	Total Variable	██████		
Demand/Reservation Co	0	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	0	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	145999
						Total Revenue	0
						Net Cost	145999

Avg Cost of Served Demand 7.191 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.622 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20303.1	0.0	20303.1	0.0	20303.1	20303.1	0.0	0	208.8	0.0
Total	20303.1	0.0	20303.1	0.0	20303.1	20303.1	0.0	0	208.8	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2407.8	18250.0	15842.2			3.2724	7879	0	7879	3.2724
ENGNiagara	1146.6	1167.3	20.6			2.8794	3302	0	3302	2.8794
ENGPNGTS	364.0	365.0	1.0			3.3320	1213	0	1213	3.3320
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.3247	15553	0	15553	2.3247
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3686.6	7315.4	3628.8			4.9434	18224	0	18224	4.9434
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1370.4	2190.0	819.6			3.1421	4306	0	4306	3.1421

NOV 2030 thru OCT 2031

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0	0.0000
Dracut 30	3121.4	10973.0	7851.6			5.9188	18475	0	18475		5.9188
Engie Combo	0.0	0.0	0.0			0.0000	0	0	0	0	0.0000
DAWN5	1825.0	1825.0	0.0								
Total	20612.3										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	99.8	99.8	0	0.0	13	100	0.0	0	143	144	1
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3435	3469	34
ENGDominion	103	100	109.8	107.6	0	2.1	103	100	0.0	0	243	246	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1563	1578	15
ENGHON	246	100	236.9	236.9	0	0.0	246	100	0.0	0	555	560	5
GranBrdgLNG													
Total													

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2407.8	0.0	2407.8	7882.5	5474.8	0	5043	0	5043		2.0946
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28		0.2572
ENGTGPLong	6145.5	0.0	6145.5	8698.1	2552.6	0	0	0	0		0.0000
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365		0.3185
ENGTGPShort	2811.3	23.9	2787.4	10262.0	7474.6	317	2688	0	3004		1.0687
TrCanCharges	1354.8	15.6	1339.2	1477.2	137.9	0	698	0	698		0.5149
IroqCharges	1339.2	8.3	1330.9	1477.2	146.2	119	640	0	759		0.5664
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312		0.8584
ENGLNG	99.8	0.0	99.8	10950.0	10850.2	0	0	0	0		0.0000
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0		0.0000
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0		0.0000
Dracut 30	4629.3	9.7	4619.6	10950.0	6330.4	201	4388	0	4589		0.9914
UnionCharges	1370.4	15.6	1354.8	1477.2	122.3	0	140	0	140		0.1022
Dracut 20	2178.7	4.6	2174.1	7300.0	5125.9	95	1134	0	1228		0.5638

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:15:57

NOV 2030 thru OCT 2031

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2300.6	64.1	2236.5	9125.0	6888.5	685	0	0	685	0.2976
Z4toTGPLH	3942.5	33.5	3909.0	7665.0	3756.0	444	0	0	444	0.1126
Z4toStg	2747.9	9.1	2738.8	7882.5	5143.7	136	0	0	136	0.0495
Engie2CG	0.0	0.0	0.0	1057.0	1057.0	0	0	0	0	0.0000
GranBrdgPL				73000.0		0		0		
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101				56666.3			0	0		
LNGtoLNG	99.8	0.0	99.8	2920.0	2820.2	50	0	0	50	0.5000
Engie2ENGLNG	0.0	0.0	0.0	50.0	50.0	0	0	0	0	0.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0		
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total										

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:15:57

NOV 2031 thru OCT 2032

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	█	Injection Cost	█	Transportation Cost	█	JAN 19, 2032	
Penalty Cost	0	Withdrawal Cost	█	Other Variable Cost	0	System Served	211.15
Other Variable Cost	0	Carrying Cost	█			System Unserved	0.00
		Other Variable Cost	0			Total	211.15
Total Variable	█	Total Variable	█	Total Variable	█		
Demand/Reservation Co	0	Demand Cost	█	Demand Cost	█		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	0	Total Fixed	█	Total Fixed	█		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	█	Net Storage Cost	█	Net Trans Cost	█	Total Gas Cost	148726
						Total Revenue	0
						Net Cost	148726

Avg Cost of Served Demand 7.217 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.699 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20607.0	0.0	20607.0	0.0	20607.0	20607.0	0.0	0	211.2	0.0
Total	20607.0	0.0	20607.0	0.0	20607.0	20607.0	0.0	0	211.2	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2424.4	18300.0	15875.6			3.3056	8014	0	8014	3.3056
ENGNiagara	1149.8	1170.5	20.7			2.9089	3345	0	3345	2.9089
ENGPNGTS	365.0	366.0	1.0			3.3722	1231	0	1231	3.3722
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6698.7	6698.7	0.0			2.3485	15732	0	15732	2.3485
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3834.1	7335.4	3501.3			4.9805	19096	0	19096	4.9805
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
164-ENGDawn	1374.9	2196.0	821.1			3.1743	4364	0	4364	3.1743

NOV 2031 thru OCT 2032

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3240.2	11003.1	7762.9			6.1140	19811	0	19811	6.1140
Engie Combo	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DAWN5	1830.0	1830.0	0.0							
Total	20917.0									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	98.3	98.3	0	0.0	13	100	0.0	0	144	145	1
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3469	3503	34
ENGDominion	103	100	110.4	108.2	0	2.2	103	100	0.0	0	246	248	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1578	1593	15
ENGHON	246	100	235.8	235.8	0	0.0	246	100	0.0	0	560	566	5
GranBrdgLNG													
Total													

Transportation Summary										
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPPProd	2424.4	0.0	2424.4	7904.1	5479.8	0	5043	0	5043	2.0802
ENGTGP2Stg	107.1	2.2	105.0	7904.1	7799.2	28	0	0	28	0.2572
ENGTGPLong	6170.4	0.0	6170.4	8719.7	2549.3	0	0	0	0	0.0000
ENGTGPBND	1149.8	7.1	1142.7	1142.7	0.0	98	267	0	365	0.3179
ENGTGPShort	2810.8	23.9	2786.9	10290.1	7503.2	317	2688	0	3004	1.0688
TrCanCharges	1359.2	15.6	1343.6	1481.2	137.6	0	698	0	698	0.5132
IroqCharges	1343.6	8.3	1335.2	1481.2	146.0	119	640	0	759	0.5649
ENGPNGTS	365.0	3.7	361.3	366.0	4.7	1	312	0	312	0.8561
ENGLNG	98.3	0.0	98.3	10980.0	10881.7	0	0	0	0	0.0000
ENGPropane	0.0	0.0	0.0	6370.0	6370.0	0	0	0	0	0.0000
ENGC3Truck	0.0	0.0	0.0	4392.0	4392.0	0	0	0	0	0.0000
Dracut 30	4839.4	10.2	4829.2	10980.0	6150.8	210	4388	0	4598	0.9502
UnionCharges	1374.9	15.7	1359.2	1481.2	122.0	0	140	0	140	0.1018
Dracut 20	2234.9	4.7	2230.2	7320.0	5089.8	97	1134	0	1231	0.5507

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:15:57

NOV 2031 thru OCT 2032

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary										
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2317.2	64.6	2252.7	9150.0	6897.3	690	0	0	690	0.2976
Z4toTGPLH	3951.3	33.6	3917.7	7686.0	3768.3	445	0	0	445	0.1126
Z4toStg	2747.4	9.1	2738.3	7904.1	5165.8	136	0	0	136	0.0495
Engie2CG	0.0	0.0	0.0	1064.0	1064.0	0	0	0	0	0.0000
GranBrdgPL				73200.0		0		0		
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000
LNGtoRT101				56821.5			0	0		
LNGtoLNG	98.3	0.0	98.3	2928.0	2829.7	49	0	0	49	0.5000
Engie2ENGLNG	0.0	0.0	0.0	50.0	50.0	0	0	0	0	0.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1830.0	0.0	1830.0	1830.0	0.0	57		0		
DAWN5Dracut	0.0	0.0	0.0	1830.0	1830.0	0	0	0	0	0.0000
Total										

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

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Report 1 12:15:57

NOV 2032 thru OCT 2033

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	██████	Transportation Cost	██████	JAN 19, 2033	
Penalty Cost	0	Withdrawal Cost	██████	Other Variable Cost	0	System Served	213.52
Other Variable Cost	0	Carrying Cost	██████			System Unserved	0.00
		Other Variable Cost	0			Total	213.52
Total Variable	██████	Total Variable	██████	Total Variable	██████		
Demand/Reservation Co	0	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	0	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	150679
						Total Revenue	0
						Net Cost	150679

Avg Cost of Served Demand 7.259 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.766 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20758.9	0.0	20758.9	0.0	20758.9	20758.9	0.0	0	213.5	0.0
Total	20758.9	0.0	20758.9	0.0	20758.9	20758.9	0.0	0	213.5	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2412.7	18250.0	15837.3			3.3381	8054	0	8054	3.3381
ENGNiagara	1146.6	1167.3	20.6			2.9372	3368	0	3368	2.9372
ENGPNGTS	364.0	365.0	1.0			3.3990	1237	0	1237	3.3990
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.3715	15866	0	15866	2.3715
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3847.8	7315.4	3467.6			5.0868	19573	0	19573	5.0868
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1371.1	2190.0	818.9			3.2051	4395	0	4395	3.2051

NOV 2032 thru OCT 2033

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3410.3	10973.0	7562.7			6.1634	21019	0	21019	6.1634
Engie Combo	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DAWN5	1825.0	1825.0	0.0							
Total	21068.0									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	99.2	99.2	0	0.0	13	100	0.0	0	145	146	1
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3503	3537	34
ENGDominion	103	100	109.8	107.6	0	2.1	103	100	0.0	0	248	250	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1593	1608	15
ENGHON	246	100	234.6	234.6	0	0.0	246	100	0.0	0	566	571	6
GranBrdgLNG													
Total													

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2412.7	0.0	2412.7	7882.5	5469.8	0	5043	0	5043	2.0903	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6152.5	0.0	6152.5	8698.1	2545.5	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2809.0	23.9	2785.1	10262.0	7476.8	316	2688	0	3004	1.0694	
TrCanCharges	1355.5	15.6	1339.9	1477.2	137.2	0	698	0	698	0.5146	
IroqCharges	1339.9	8.3	1331.6	1477.2	145.5	119	640	0	759	0.5662	
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584	
ENGLNG	99.2	0.0	99.2	10950.0	10850.8	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	5059.0	10.6	5048.4	10950.0	5901.6	220	4388	0	4608	0.9108	
UnionCharges	1371.1	15.6	1355.5	1477.2	121.6	0	140	0	140	0.1021	
Dracut 20	2199.0	4.6	2194.4	7300.0	5105.6	95	1134	0	1229	0.5589	

56

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

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SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:15:57

NOV 2032 thru OCT 2033

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary										
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2305.6	64.3	2241.3	9125.0	6883.7	686	0	0	686	0.2976
Z4toTGPLH	3944.8	33.5	3911.2	7665.0	3753.8	444	0	0	444	0.1126
Z4toStg	2745.6	9.1	2736.6	7882.5	5146.0	136	0	0	136	0.0495
Engie2CG	0.0	0.0	0.0	1057.0	1057.0	0	0	0	0	0.0000
GranBrdgPL				73000.0		0		0		
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101				56666.3			0	0		
LNGtoLNG	99.2	0.0	99.2	2920.0	2820.8	50	0	0	50	0.5000
Engie2ENGLNG	0.0	0.0	0.0	50.0	50.0	0	0	0	0	0.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0		
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total										

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

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SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:15:57

NOV 2033 thru OCT 2034

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	█	Injection Cost	█	Transportation Cost	█	JAN 19, 2034	
Penalty Cost	0	Withdrawal Cost	█	Other Variable Cost	0	System Served	215.84
Other Variable Cost	0	Carrying Cost	█			System Unserved	0.00
		Other Variable Cost	0			Total	215.84
Total Variable	█	Total Variable	█	Total Variable	█		
Demand/Reservation Co	0	Demand Cost	█	Demand Cost	█		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	0	Total Fixed	█	Total Fixed	█		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	█	Net Storage Cost	█	Net Trans Cost	█	Total Gas Cost	153098
						Total Revenue	0
						Net Cost	153098

Avg Cost of Served Demand 7.301 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.842 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20970.2	0.0	20970.2	0.0	20970.2	20970.2	0.0	0	215.8	0.0
Total	20970.2	0.0	20970.2	0.0	20970.2	20970.2	0.0	0	215.8	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2414.5	18250.0	15835.5			3.3715	8140	0	8140	3.3715
ENGNiagara	1146.6	1167.3	20.6			2.9666	3402	0	3402	2.9666
ENGPNGTS	364.0	365.0	1.0			3.4330	1250	0	1250	3.4330
ENG3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.3952	16025	0	16025	2.3952
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3910.6	7315.4	3404.8			5.2255	20435	0	20435	5.2255
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
497 ENG Dawn	1371.2	2190.0	818.8			3.2372	4439	0	4439	3.2372

NOV 2033 thru OCT 2034

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3556.7	10973.0	7416.4			6.2368	22182	0	22182	6.2368
Engie Combo	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DAWN5	1825.0	1825.0	0.0							
Total	21279.0									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	99.2	99.2	0	0.0	13	100	0.0	0	146	147	1
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3537	3571	35
ENGDominion	103	100	109.2	107.0	0	2.1	103	100	0.0	0	250	253	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1608	1624	15
ENGHON	246	100	233.3	233.3	0	0.0	246	100	0.0	0	571	577	6
GranBrdgLNG													
Total													

Transportation Summary										
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPPProd	2414.5	0.0	2414.5	7882.5	5468.0	0	5043	0	5043	2.0887
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572
ENGTGPLong	6156.2	0.0	6156.2	8698.1	2541.9	0	0	0	0	0.0000
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185
ENGTGPShort	2807.1	23.9	2783.3	10262.0	7478.7	316	2688	0	3004	1.0701
TrCanCharges	1355.6	15.6	1340.0	1477.2	137.1	0	698	0	698	0.5146
IroqCharges	1340.0	8.3	1331.7	1477.2	145.5	119	640	0	759	0.5662
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584
ENGLNG	99.2	0.0	99.2	10950.0	10850.8	0	0	0	0	0.0000
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000
Dracut 30	5207.6	10.9	5196.6	10950.0	5753.4	226	4388	0	4614	0.8861
UnionCharges	1371.2	15.6	1355.6	1477.2	121.6	0	140	0	140	0.1021
Dracut 20	2259.7	4.7	2255.0	7300.0	5045.0	98	1134	0	1232	0.5451

864

NOV 2033 thru OCT 2034

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2307.3	64.3	2243.0	9125.0	6882.0	687	0	0	687	0.2976
Z4toTGPLH	3946.7	33.5	3913.1	7665.0	3751.9	445	0	0	445	0.1126
Z4toStg	2743.7	9.1	2734.7	7882.5	5147.9	136	0	0	136	0.0495
Engie2CG	0.0	0.0	0.0	1057.0	1057.0	0	0	0	0	0.0000
GranBrdgPL				73000.0		0		0		
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101				56666.3			0	0		
LNGtoLNG	99.2	0.0	99.2	2920.0	2820.8	50	0	0	50	0.5000
Engie2ENGLNG	0.0	0.0	0.0	50.0	50.0	0	0	0	0	0.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0		
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total										

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

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Report 1 12:15:57

NOV 2034 thru OCT 2035

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	██████	Transportation Cost	██████	JAN 19, 2035	
Penalty Cost	0	Withdrawal Cost	██████	Other Variable Cost	0	System Served	217.91
Other Variable Cost	0	Carrying Cost	██████			System Unserved	0.00
		Other Variable Cost	0			Total	217.91
Total Variable	██████	Total Variable	██████	Total Variable	██████		
Demand/Reservation Co	0	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	0	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	155419
						Total Revenue	0
						Net Cost	155419

Avg Cost of Served Demand 7.346 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.917 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21158.1	0.0	21158.1	0.0	21158.1	21158.1	0.0	0	217.9	0.0
Total	21158.1	0.0	21158.1	0.0	21158.1	21158.1	0.0	0	217.9	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2416.1	18250.0	15833.9			3.4051	8227	0	8227	3.4051
ENGNiagara	1146.6	1167.3	20.6			2.9963	3436	0	3436	2.9963
ENGPNGTS	364.0	365.0	1.0			3.4673	1262	0	1262	3.4673
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.4191	16185	0	16185	2.4191
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3972.9	7315.4	3342.4			5.3158	21119	0	21119	5.3158
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1371.3	2190.0	818.7			3.2695	4484	0	4484	3.2695

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NOV 2034 thru OCT 2035

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3679.7	10973.0	7293.3			6.3691	23437	0	23437	6.3691
Engie Combo	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DAWN5	1825.0	1825.0	0.0							
Total	21466.1									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	97.4	97.4	0	0.0	13	100	0.0	0	147	147	1
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3571	3606	35
ENGDominion	103	100	109.2	107.0	0	2.1	103	100	0.0	0	253	255	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1624	1639	16
ENGHON	246	100	232.2	232.2	0	0.0	246	100	0.0	0	577	582	6
GranBrdgLNG													
Total													

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2416.1	0.0	2416.1	7882.5	5466.5	0	5043	0	5043	2.0874	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6158.9	0.0	6158.9	8698.1	2539.2	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2806.0	23.9	2782.1	10262.0	7479.9	316	2688	0	3004	1.0705	
TrCanCharges	1355.7	15.6	1340.1	1477.2	137.1	0	698	0	698	0.5146	
IroqCharges	1340.1	8.3	1331.8	1477.2	145.4	119	640	0	759	0.5661	
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584	
ENGLNG	97.4	0.0	97.4	10950.0	10852.6	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	5248.1	11.0	5237.1	10950.0	5712.9	228	4388	0	4616	0.8796	
UnionCharges	1371.3	15.6	1355.7	1477.2	121.5	0	140	0	140	0.1021	
Dracut 20	2404.6	5.0	2399.6	7300.0	4900.4	104	1134	0	1238	0.5149	

105

NOV 2034 thru OCT 2035

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary										
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2308.9	64.4	2244.6	9125.0	6880.4	687	0	0	687	0.2976
Z4toTGPLH	3947.8	33.6	3914.3	7665.0	3750.7	445	0	0	445	0.1126
Z4toStg	2742.6	9.1	2733.5	7882.5	5149.0	136	0	0	136	0.0495
Engie2CG	0.0	0.0	0.0	1057.0	1057.0	0	0	0	0	0.0000
GranBrdgPL				73000.0		0		0		
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101				56666.3			0	0		
LNGtoLNG	97.4	0.0	97.4	2920.0	2822.6	49	0	0	49	0.5000
Engie2ENGLNG	0.0	0.0	0.0	50.0	50.0	0	0	0	0	0.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0		
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total										

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

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Report 1 12:15:57

NOV 2035 thru OCT 2036

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	██████	Transportation Cost	██████	JAN 19, 2036	
Penalty Cost	0	Withdrawal Cost	██████	Other Variable Cost	0	System Served	219.62
Other Variable Cost	0	Carrying Cost	██████			System Unserved	0.00
		Other Variable Cost	0			Total	219.62
Total Variable	██████	Total Variable	██████	Total Variable	██████		
Demand/Reservation Co	0	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	0	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	158189
						Total Revenue	0
						Net Cost	158189

Avg Cost of Served Demand 7.392 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.002 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21399.4	0.0	21399.4	0.0	21399.4	21399.4	0.0	0	219.6	0.0
Total	21399.4	0.0	21399.4	0.0	21399.4	21399.4	0.0	0	219.6	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2431.2	18300.0	15868.8			3.4397	8363	0	8363	3.4397
ENGNiagara	1149.8	1170.5	20.7			3.0270	3480	0	3480	3.0270
ENGPNGTS	365.0	366.0	1.0			3.5092	1281	0	1281	3.5092
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6698.7	6698.7	0.0			2.4439	16371	0	16371	2.4439
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	4122.4	7335.4	3213.0			5.4057	22284	0	22284	5.4057
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1375.5	2196.0	820.5			3.3031	4543	0	4543	3.3031

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NOV 2035 thru OCT 2036

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3734.5	11003.1	7268.6			6.5692	24533	0	24533	6.5692
Engie Combo	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DAWN5	1830.0	1830.0	0.0							
Total	21707.1									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	96.5	96.5	0	0.0	13	100	0.0	0	147	147	-0
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3606	3641	35
ENGDominion	103	100	109.2	107.0	0	2.1	103	100	0.0	0	255	258	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1639	1655	16
ENGHON	246	100	229.8	229.8	0	0.0	246	100	0.0	0	582	588	6
GranBrdgLNG													
Total													

Transportation Summary										
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPPProd	2431.2	0.0	2431.2	7904.1	5472.9	0	5043	0	5043	2.0744
ENGTGP2Stg	107.1	2.2	104.9	7904.1	7799.2	28	0	0	28	0.2572
ENGTGPLong	6184.2	0.0	6184.2	8719.7	2535.5	0	0	0	0	0.0000
ENGTGPBND	1149.8	7.1	1142.7	1142.7	0.0	98	267	0	365	0.3179
ENGTGPShort	2803.6	23.8	2779.8	10290.1	7510.3	316	2688	0	3003	1.0713
TrCanCharges	1359.8	15.6	1344.2	1481.2	137.0	0	698	0	698	0.5130
IroqCharges	1344.2	8.3	1335.8	1481.2	145.4	119	640	0	759	0.5647
ENGPNGTS	365.0	3.7	361.3	366.0	4.7	1	312	0	312	0.8561
ENGLNG	96.5	0.0	96.5	10980.0	10883.5	0	0	0	0	0.0000
ENGPropane	0.0	0.0	0.0	6370.0	6370.0	0	0	0	0	0.0000
ENGC3Truck	0.0	0.0	0.0	4392.0	4392.0	0	0	0	0	0.0000
Dracut 30	5416.1	11.4	5404.7	10980.0	5575.3	235	4388	0	4623	0.8536
UnionCharges	1375.5	15.7	1359.8	1481.2	121.4	0	140	0	140	0.1018
Dracut 20	2440.8	5.1	2435.7	7320.0	4884.3	106	1134	0	1240	0.5079

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

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SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:15:57

NOV 2035 thru OCT 2036

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary										
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2324.1	64.8	2259.3	9150.0	6890.7	692	0	0	692	0.2976
Z4toTGPLH	3958.5	33.6	3924.8	7686.0	3761.2	446	0	0	446	0.1126
Z4toStg	2740.2	9.0	2731.2	7904.1	5173.0	136	0	0	136	0.0495
Engie2CG	0.0	0.0	0.0	1064.0	1064.0	0	0	0	0	0.0000
GranBrdgPL				73200.0		0		0		
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000
LNGtoRT101				56821.5			0	0		
LNGtoLNG	96.5	0.0	96.5	2928.0	2831.5	48	0	0	48	0.5000
Engie2ENGLNG	0.0	0.0	0.0	50.0	50.0	0	0	0	0	0.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1830.0	0.0	1830.0	1830.0	0.0	57		0		
DAWN5Dracut	0.0	0.0	0.0	1830.0	1830.0	0	0	0	0	0.0000
Total										

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:15:57

NOV 2036 thru OCT 2037

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	████	Transportation Cost	████	JAN 19, 2037	
Penalty Cost	0	Withdrawal Cost	████	Other Variable Cost	0	System Served	221.46
Other Variable Cost	0	Carrying Cost	████			System Unserved	0.00
		Other Variable Cost	0			Total	221.46
Total Variable	████	Total Variable	████	Total Variable	████		
Demand/Reservation Co	0	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	0	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	159995
						Total Revenue	0
						Net Cost	159995

Avg Cost of Served Demand 7.443 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.068 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21495.4	0.0	21495.4	0.0	21495.4	21495.4	0.0	0	221.5	0.0
Total	21495.4	0.0	21495.4	0.0	21495.4	21495.4	0.0	0	221.5	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2418.2	18250.0	15831.8			3.4735	8400	0	8400	3.4735
ENGNiagara	1146.6	1167.3	20.6			3.0565	3505	0	3505	3.0565
ENGPNGTS	364.0	365.0	1.0			3.5370	1287	0	1287	3.5370
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.4678	16510	0	16510	2.4678
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	4122.7	7315.4	3192.6			5.5101	22717	0	22717	5.5101
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1371.4	2190.0	818.6			3.3353	4574	0	4574	3.3353

NOV 2036 thru OCT 2037

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3864.0	10973.0	7109.1			6.6332	25630	0	25630	6.6332
Engie Combo	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DAWN5	1825.0	1825.0	0.0							
Total	21802.3									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	94.9	94.9	0	0.0	13	100	0.0	0	147	148	1
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3641	3677	36
ENGDominion	103	100	109.2	107.0	0	2.1	103	100	0.0	0	258	260	2
ENGNFG	671	100	727.6	721.9	0	5.7	671	100	5.7	0	1655	1671	16
ENGHON	246	100	228.6	228.6	0	0.0	246	100	0.0	0	588	594	6
GranBrdgLNG													
Total													

Transportation Summary										
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPPProd	2418.2	0.0	2418.2	7882.5	5464.4	0	5043	0	5043	2.0856
ENGTGP2Stg	111.1	2.3	108.9	7882.5	7773.7	29	0	0	29	0.2572
ENGTGPLong	6160.5	0.0	6160.5	8698.1	2537.5	0	0	0	0	0.0000
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185
ENGTGPShort	2806.3	23.9	2782.4	10262.0	7479.5	316	2688	0	3004	1.0704
TrCanCharges	1355.7	15.6	1340.2	1477.2	137.0	0	698	0	698	0.5145
IroqCharges	1340.2	8.3	1331.8	1477.2	145.3	119	640	0	759	0.5661
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584
ENGLNG	94.9	0.0	94.9	10950.0	10855.1	0	0	0	0	0.0000
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000
Dracut 30	5457.1	11.5	5445.6	10950.0	5504.4	237	4388	0	4625	0.8476
UnionCharges	1371.4	15.6	1355.7	1477.2	121.4	0	140	0	140	0.1021
Dracut 20	2529.6	5.3	2524.3	7300.0	4775.7	110	1134	0	1243	0.4916

NOV 2036 thru OCT 2037

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total		Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
	Flow	Fuel Consumed								
ENGTGPZ4	2307.1	64.3	2242.8	9125.0	6882.2	687	0	0	687	0.2976
Z4toTGPLH	3951.4	33.6	3917.8	7665.0	3747.2	445	0	0	445	0.1126
Z4toStg	2739.0	9.0	2730.0	7882.5	5152.6	136	0	0	136	0.0495
Engie2CG	0.0	0.0	0.0	1057.0	1057.0	0	0	0	0	0.0000
GranBrdgPL				73000.0		0		0		
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101				56666.3			0	0		
LNGtoLNG	94.9	0.0	94.9	2920.0	2825.1	47	0	0	47	0.5000
Engie2ENGLNG	0.0	0.0	0.0	50.0	50.0	0	0	0	0	0.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0		
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total										

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

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SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:15:57

NOV 2037 thru OCT 2038

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	██████	Transportation Cost	██████	JAN 19, 2038	
Penalty Cost	0	Withdrawal Cost	██████	Other Variable Cost	0	System Served	223.32
Other Variable Cost	0	Carrying Cost	██████			System Unserved	0.00
		Other Variable Cost	0			Total	223.32
Total Variable	██████	Total Variable	██████	Total Variable	██████		
Demand/Reservation Co	0	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	0	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	162527
						Total Revenue	0
						Net Cost	162527

Avg Cost of Served Demand 7.500 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.151 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21670.7	0.0	21670.7	0.0	21670.7	21670.7	0.0	0	223.3	0.0
Total	21670.7	0.0	21670.7	0.0	21670.7	21670.7	0.0	0	223.3	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2418.9	18250.0	15831.1			3.5082	8486	0	8486	3.5082
ENGNiagara	1146.6	1167.3	20.6			3.0871	3540	0	3540	3.0871
ENGPNGTS	364.0	365.0	1.0			3.5723	1300	0	1300	3.5723
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.4924	16675	0	16675	2.4924
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	4351.6	7315.4	2963.8			5.5364	24092	0	24092	5.5364
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1371.4	2190.0	818.6			3.3686	4620	0	4620	3.3686

NOV 2037 thru OCT 2038

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3809.1	10973.0	7164.0			6.9284	26391	0	26391	6.9284
Engie Combo	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DAWN5	1825.0	1825.0	0.0							
Total	21976.9									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	94.0	94.0	0	0.0	13	100	0.0	0	148	149	1
ENGFSMA	1498	96	1775.5	1756.5	0	19.0	1498	96	0.0	0	3677	3713	36
ENGDominion	103	100	109.5	107.3	0	2.1	103	100	0.0	0	260	263	3
ENGNFG	671	100	727.1	721.4	0	5.7	671	100	5.7	0	1671	1687	16
ENGHON	246	100	227.6	227.6	0	0.0	246	100	0.0	0	594	600	6
GranBrdgLNG													
Total													

Transportation Summary										
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPPProd	2418.9	0.0	2418.9	7882.5	5463.6	0	5043	0	5043	2.0849
ENGTGP2Stg	112.7	2.3	110.4	7882.5	7772.1	29	0	0	29	0.2572
ENGTGPLong	6160.5	0.0	6160.5	8698.1	2537.6	0	0	0	0	0.0000
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185
ENGTGPShort	2807.1	23.9	2783.2	10262.0	7478.8	316	2688	0	3004	1.0701
TrCanCharges	1355.7	15.6	1340.2	1477.2	137.0	0	698	0	698	0.5145
IroqCharges	1340.2	8.3	1331.8	1477.2	145.3	119	640	0	759	0.5661
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584
ENGLNG	94.0	0.0	94.0	10950.0	10856.0	0	0	0	0	0.0000
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000
Dracut 30	5616.8	11.8	5605.0	10950.0	5345.0	244	4388	0	4632	0.8247
UnionCharges	1371.4	15.6	1355.7	1477.2	121.4	0	140	0	140	0.1021
Dracut 20	2543.8	5.3	2538.5	7300.0	4761.5	110	1134	0	1244	0.4891

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NOV 2037 thru OCT 2038

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2306.2	64.3	2241.9	9125.0	6883.1	686	0	0	686	0.2976
Z4toTGPLH	3952.2	33.6	3918.6	7665.0	3746.4	445	0	0	445	0.1126
Z4toStg	2738.2	9.0	2729.2	7882.5	5153.3	136	0	0	136	0.0495
Engie2CG	0.0	0.0	0.0	1057.0	1057.0	0	0	0	0	0.0000
GranBrdgPL				73000.0		0		0		
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101				56666.3			0	0		
LNGtoLNG	94.0	0.0	94.0	2920.0	2826.0	47	0	0	47	0.5000
Engie2ENGLNG	0.0	0.0	0.0	50.0	50.0	0	0	0	0	0.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5CPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0		
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total										

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

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Report 1 12:15:57

NOV 2038 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	██████	Transportation Cost	██████	JAN 19, 2039	
Penalty Cost	0	Withdrawal Cost	██████	Other Variable Cost	0	System Served	225.31
Other Variable Cost	0	Carrying Cost	██████			System Unserved	0.00
		Other Variable Cost	0			Total	225.31
Total Variable	██████	Total Variable	██████	Total Variable	██████		
Demand/Reservation Co	0	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	0	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	157641
						Total Revenue	0
						Net Cost	157641

Avg Cost of Served Demand 7.213 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.325 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21855.0	0.0	21855.0	0.0	21855.0	21855.0	0.0	0	225.3	0.0
Total	21855.0	0.0	21855.0	0.0	21855.0	21855.0	0.0	0	225.3	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2402.0	18250.0	15848.0			3.5454	8516	0	8516	3.5454
ENGNiagara	1146.6	1167.3	20.6			3.1179	3575	0	3575	3.1179
ENGPNGTS	364.0	365.0	1.0			3.6081	1313	0	1313	3.6081
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.5174	16842	0	16842	2.5174
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3152.3	7315.4	4163.1			6.5384	20611	0	20611	6.5384
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	951.1	2190.0	1238.9			3.4867	3316	0	3316	3.4867

NOV 2038 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3726.8	10973.0	7246.2			7.3144	27259	0	27259	7.3144
Engie Combo	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DAWN5	1825.0	1825.0	0.0							
Total	20258.2									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	91.8	92.5	0	0.0	12	95	0.0	-1	149	152	3
ENGFSMA	1498	96	1759.7	1756.5	0	18.8	1482	95	0.0	-16	3713	3710	-3
ENGDominion	103	100	109.8	107.6	0	2.1	103	100	0.0	0	263	264	1
ENGNFG	671	100	726.5	720.8	0	5.7	671	100	5.7	0	1687	1707	20
ENGHON	246	100	231.7	231.7	0	0.0	246	100	0.0	0	600	607	7
GranBrdgLNG													
Total													

Transportation Summary										
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPPProd	2402.0	0.0	2402.0	7882.5	5480.5	0	5043	0	5043	2.0996
ENGTGP2Stg	114.1	2.3	111.7	7882.5	7770.8	29	0	0	29	0.2572
ENGTGPLong	6155.9	0.0	6155.9	8698.1	2542.2	0	0	0	0	0.0000
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185
ENGTGPShort	2810.9	23.9	2787.0	10262.0	7475.0	317	2688	0	3004	1.0688
TrCanCharges	940.2	10.8	929.4	1477.2	547.7	0	698	0	698	0.7419
IroqCharges	929.4	5.8	923.7	1477.2	553.5	82	640	0	722	0.7771
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584
ENGLNG	92.5	0.0	92.5	10950.0	10857.5	0	0	0	0	0.0000
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000
Dracut 30	4439.0	9.3	4429.6	10950.0	6520.4	193	4388	0	4581	1.0320
UnionCharges	951.1	10.8	940.2	1477.2	536.9	0	140	0	140	0.1472
Dracut 20	2440.1	5.1	2435.0	7300.0	4865.0	106	1134	0	1240	0.5080

NOV 2038 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total		Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
	Flow	Fuel Consumed								
ENGTGPZ4	2288.0	63.8	2224.2	9125.0	6900.8	681	0	0	681	0.2976
Z4toTGPLH	3965.4	33.7	3931.7	7665.0	3733.3	447	0	0	447	0.1126
Z4toStg	2725.0	9.0	2716.0	7882.5	5166.5	135	0	0	135	0.0495
Engie2CG	0.0	0.0	0.0	1057.0	1057.0	0	0	0	0	0.0000
GranBrdgPL				73000.0		0		0		
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101				56666.3			0	0		
LNGtoLNG	91.8	0.0	91.8	2920.0	2828.2	46	0	0	46	0.5000
Engie2ENGLNG	0.0	0.0	0.0	50.0	50.0	0	0	0	0	0.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5TCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0		
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total										

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

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SENDOUT® Version 14.1.1 REP 1z 11-Mar-2019
Report 1z 12:15:57

NOV 2018 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████████	Injection Cost	████████	Transportation Cost	████████	JAN 19, 2039	
Penalty Cost	0	Withdrawal Cost	████████	Other Variable Cost	0	System Served	225.31
Other Variable Cost	1719	Carrying Cost	████████			System Unserved	0.00
		Other Variable Cost	0			Total	225.31
Total Variable	████████	Total Variable	████████	Total Variable	████████		
Demand/Reservation Co	████████	Demand Cost	████████	Demand Cost	████████		
Other Fixed Cost	13464	Other Fixed Cost	20435	Other Fixed Cost	0		
Total Fixed	████████	Total Fixed	████████	Total Fixed	████████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████████	Net Storage Cost	████████	Net Trans Cost	████████	Total Gas Cost	2796648
						Total Revenue	0
						Net Cost	2796648

Avg Cost of Served Demand 6.886 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.776 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	406135.6	0.0	406135.6	0.0	406135.6	406135.6	0.0	0	225.3	0.0
Total	406135.6	0.0	406135.6	0.0	406135.6	406135.6	0.0	0	225.3	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	50068.6	383500.0	333431.4			3.1412	157275	0	157275	3.1412
ENGNiagara	23524.6	24528.7	1004.1			2.7353	64346	0	64346	2.7353
ENGPNGTS	7477.0	7670.0	193.0			3.2349	24187	0	24187	3.2349
ENGC3Winter	458.7	1926.6	1467.9			15.0000	6881	0	6881	15.0000
ENG-Z4	140526.9	140539.9	13.0			2.1594	303459	0	303459	2.1594
DLiqWinter	1250.0	1250.0	0.0							
Dracut 20	69650.1	153722.8	84072.7			5.6595	394184	0	394184	5.6595
ENGC3Summer	276.4	1962.6	1686.2			10.0000	2764	0	2764	10.0000
DLiqSummer	84.0	84.0	0.0							

NOV 2018 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	24992.7	46020.0	21027.3			3.0755	76866	0	76866	3.0755
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	56347.7	230584.2	174236.6			6.5938	371543	0	371543	6.5938
Engie Combo	3150.0	3150.0	0.0							
DAWN5	34256.7	36968.3	2711.5							
Total	412063.4									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	3196.4	3197.0	0	0.0	12	95	0.0	-1	126	152	26
ENGPropane	77	100	735.1	811.9	0	0.0	0	0	0.0	-77	953	160	-793
ENGFSMA	1482	95	37207.0	36808.9	0	398.1	1482	95	0.0	0	2573	3710	1137
ENGDominion	103	100	2315.3	2270.1	0	45.1	103	100	0.0	0	178	264	86
ENGNFG	671	100	15196.9	15076.9	0	120.1	671	100	119.1	0	1164	1707	543
ENGHON	246	100	4924.9	4924.9	0	0.0	246	100	0.0	0	427	607	179
GranBrdgLNG	0	N/A											
Total	2591	N/A											

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	50068.6	0.0	50068.6	165641.3	115572.7	0	105908	0	105908	2.1153	
ENGTGP2Stg	2212.1	45.2	2166.9	165641.3	163474.5	569	0	0	569	0.2572	
ENGTGPLong	128677.8	0.0	128677.8	182768.0	54090.2	0	0	0	0	0.0000	
ENGTGPBND	23524.6	145.9	23378.8	23945.7	567.0	2008	5614	0	7622	0.3240	
ENGTGPShort	58961.7	501.2	58460.5	215642.1	157181.6	6641	56441	0	63082	1.0699	
TrCanCharges	24708.0	284.1	24423.9	31040.5	6616.6	0	14649	0	14649	0.5929	
IroqCharges	24423.9	151.4	24272.4	31040.5	6768.0	2168	13435	0	15602	0.6388	
ENGPNGTS	7477.0	74.8	7402.2	7670.0	267.8	13	6548	0	6561	0.8775	
ENGLNG	3197.0	0.0	3197.0	230100.0	226903.0	0	0	0	0	0.0000	
ENGPropane	811.9	0.0	811.9	133210.0	132398.1	0	0	0	0	0.0000	
ENGC3Truck	735.1	0.0	735.1	92040.0	91304.9	735	0	0	735	1.0000	
Dracut 30	83273.1	174.9	83098.3	230100.0	147001.7	3615	92155	0	95770	1.1501	

Scen 1520 2.0 Bcf BC Supp Customer Benefit Guarantee
- Draw 0

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SENDOUT® Version 14.1.1 REP 1z 11-Mar-2019
Report 1z (Continued) 12:15:57

NOV 2018 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary										
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
UnionCharges	24992.7	284.7	24708.0	31040.5	6332.5	0	2940	0	2940	0.1176
Dracut 20	45944.3	96.5	45847.8	153400.0	107552.2	1994	23807	0	25802	0.5616
ENGTGPZ4	47856.5	1333.8	46522.7	191750.0	145227.3	14241	0	0	14241	0.2976
Z4toTGPH	82859.4	704.3	82155.1	161070.0	78914.9	9333	0	0	9333	0.1126
Z4toStg	57667.5	190.3	57477.2	165641.3	108164.1	2857	0	0	2857	0.0495
Engie2CG	2900.0	0.0	2900.0	22232.0	19332.0	97	0	0	97	0.0335
GranBrdgPL				1241800.0		0		0		
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	158800.0	158800.0	0	0	0	0	0.0000
LNGtoRT101				1190767.5			0	0		
LNGtoLNG	1612.4	0.0	1612.4	61360.0	59747.6	806	0	0	806	0.5000
Engie2ENGLNG	250.0	0.0	250.0	1050.0	800.0	250	0	0	250	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN2CPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	31037.1	0.0	31037.1	36968.3	5931.2	959		0		
DAWN5Dracut	3219.7	0.0	3219.7	36968.3	33748.6	99	0	0	99	0.0309
Total										

RESOURCE MIX RESULTS

Units: MDT

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	Contract	Start Date	End Date	Min Level	Max Level	Result MDQ
	-----	-----	-----	-----	-----	-----
Supplies	DAWN	NOV 2022	OCT 2039	0.00	150.00	0.00
	Repsol 40	NOV 2022	OCT 2039	0.00	150.00	0.00
	Engie Combo	NOV 2023	OCT 2039	0.00	7.00	0.00

	Contract	Start Date	End Date	Min Level	Max Level	Result MDQ
	-----	-----	-----	-----	-----	-----
Segments	Repsol to101	NOV 2021	OCT 2039	0.00	150.00	0.00
	Dawn2Dracut	NOV 2021	OCT 2039	0.00	150.00	0.00
	DAWNTCPL	NOV 2021	OCT 2039	0.00	150.00	0.00
	PNGTS2RT101	NOV 2021	OCT 2039	0.00	150.00	0.00

Scen 1522 AC Supplemental
- Draw 0

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SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:51:42

NOV 2018 thru OCT 2019

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2117	JAN 19, 2019	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	164.57
Other Variable Cost	339	Carrying Cost	313			System Unserved	0.00
		Other Variable Cost	0			Total	164.57
Total Variable	██████	Total Variable	407	Total Variable	2117		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	2660	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	86685
						Total Revenue	0
						Net Cost	86685

Avg Cost of Served Demand 5.690 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.272 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	15235.4	0.0	15235.4	0.0	15235.4	15235.4	0.0	0	164.6	0.0
Total	15235.4	0.0	15235.4	0.0	15235.4	15235.4	0.0	0	164.6	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2339.8	18250.0	15910.2			3.0798	7206	0	7206	3.0798
ENGNiagara	910.8	1167.3	256.4			2.8024	2553	0	2553	2.8024
ENGPNGTS	289.4	365.0	75.6			3.3231	962	0	962	3.3231
ENGC3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6684.0	6690.4	6.4			2.1110	14110	0	14110	2.1110
DLiqWinter	250.0	250.0	0.0							
Dracut 20	2269.1	7315.4	5046.2			7.6283	17310	0	17310	7.6283
ENGC3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DLiqSummer	21.0	21.0	0.0							

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2018 thru OCT 2019

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	713.9	2190.0	1476.1			3.2953	2353	0	2353	3.2953
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	846.3	10973.0	10126.8			9.5720	8101	0	8101	9.5720
Engie Combo	630.0	630.0	0.0							
DAWN5	334.7	651.2	316.5							
Total	15449.9									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	321.0	321.6	0	0.0	12	95	0.0	-1	126	129	3
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	953	1043	90
ENGFSMA	1482	95	1770.4	1735.8	0	18.9	1498	96	0.0	16	2573	3080	507
ENGDominion	103	100	112.4	110.2	0	2.2	103	100	0.0	0	178	220	41
ENGNFG	671	100	720.9	715.2	0	5.7	671	100	5.6	0	1164	1391	227
ENGHON	246	100	237.2	237.2	0	0.0	246	100	0.0	0	427	488	61
Total	2591	97	3322.7	3280.9	0	26.8	2606	98	5.6	15	5422	6351	929

Transportation Summary													
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost			
ENGTGPProd	2339.8	0.0	2339.8	7882.5	5542.7	0	5043	0	5043	2.1554			
ENGTGP2Stg	97.5	2.0	95.5	7882.5	7787.0	25	0	0	25	0.2572			
ENGTGPLong	6076.0	0.0	6076.0	8698.1	2622.1	0	0	0	0	0.0000			
ENGTGPBND	910.8	5.6	905.2	1139.5	234.3	78	267	0	345	0.3789			
ENGTGPShort	2792.8	23.7	2769.0	10262.0	7492.9	315	2688	0	3002	1.0750			
TrCanCharges	705.8	8.1	697.7	1477.2	779.5	0	698	0	698	0.9883			
IroqCharges	697.7	4.3	693.4	1477.2	783.8	62	640	0	702	1.0057			
ENGPNGTS	289.4	2.9	286.5	365.0	78.5	1	312	0	312	1.0793			
ENGLNG	321.6	0.0	321.6	9307.5	8985.9	0	0	0	0	0.0000			
ENGPropane	160.8	0.0	160.8	6335.0	6174.2	0	0	0	0	0.0000			
ENGC3Truck	160.8	0.0	160.8	4380.0	4219.2	161	0	0	161	1.0000			
Dracut 30	1311.7	2.8	1308.9	10950.0	9641.1	57	4388	0	4445	3.3889			
UnionCharges	713.9	8.1	705.8	1477.2	771.3	0	140	0	140	0.1961			

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2018 thru OCT 2019

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Dracut 20	2138.4	4.5	2133.9	7300.0	5166.1	93	1134	0	1227	0.5736
ENGTGPZ4	2242.3	62.5	2179.8	9125.0	6945.2	667	0	0	667	0.2976
Z4toTGPLH	3929.6	33.4	3896.2	7665.0	3768.8	443	0	0	443	0.1126
Z4toStg	2754.4	9.1	2745.3	7882.5	5137.2	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWNTCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	0.0	0.0	0.0	651.2	651.2	0	█	0	█	0.0000
DAWN5Dracut	334.7	0.0	334.7	651.2	316.5	10	0	0	10	0.0309
Total		167.1				2117	█		█	0.6503

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:51:42

NOV 2019 thru OCT 2020

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2148	JAN 19, 2020	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	167.64
Other Variable Cost	340	Carrying Cost	315			System Unserved	0.00
Total Variable	██████	Other Variable Cost	0	Total Variable	2148	Total	167.64
		Total Variable	409				
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	2686	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	85087
						Total Revenue	0
						Net Cost	85087

Avg Cost of Served Demand 5.437 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.951 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	15648.5	0.0	15648.5	0.0	15648.5	15648.5	0.0	0	167.6	0.0
Total	15648.5	0.0	15648.5	0.0	15648.5	15648.5	0.0	0	167.6	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2326.3	18300.0	15973.7			2.8332	6591	0	6591	2.8332
ENGNiagara	959.2	1170.5	211.3			2.3512	2255	0	2255	2.3512
ENGPNGTS	342.9	366.0	23.1			2.9378	1007	0	1007	2.9378
ENGC3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6694.2	6698.7	4.5			1.8996	12716	0	12716	1.8996
DLiqWinter	250.0	250.0	0.0							
Dracut 20	2187.7	7335.4	5147.7			7.5988	16624	0	16624	7.5988
ENGC3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DLiqSummer	21.0	21.0	0.0							

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2019 thru OCT 2020

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	726.0	2196.0	1470.0			2.8725	2085	0	2085	2.8725
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	716.2	11003.1	10286.9			9.5868	6866	0	6866	9.5868
Engie Combo	630.0	630.0	0.0							
DAWN5	835.3	1622.1	786.9							
Total	15849.6									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	321.0	321.0	0	0.0	12	95	0.0	0	129	126	-4
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1043	1043	0
ENGFSMA	1498	96	1762.8	1743.9	0	18.9	1498	96	0.0	0	3080	2829	-251
ENGDominion	103	100	111.7	109.5	0	2.2	103	100	0.0	0	220	204	-16
ENGNFG	671	100	720.9	715.2	0	5.7	671	100	5.6	0	1391	1279	-112
ENGHON	246	100	240.4	240.4	0	0.0	246	100	0.0	0	488	458	-30
Total	2606	98	3317.6	3290.9	0	26.7	2606	98	5.6	0	6351	5938	-413

Transportation Summary													
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost			
ENGTGPProd	2326.3	0.0	2326.3	7904.1	5577.9	0	5043	0	5043	2.1680			
ENGTGP2Stg	94.1	1.9	92.2	7904.1	7812.0	24	0	0	24	0.2572			
ENGTGPLong	6078.0	0.0	6078.0	8719.7	2641.7	0	0	0	0	0.0000			
ENGTGPBND	959.2	5.9	953.2	1142.7	189.4	82	267	0	349	0.3641			
ENGTGPShort	2803.4	23.8	2779.6	10290.1	7510.5	316	2688	0	3003	1.0714			
TrCanCharges	717.7	8.3	709.5	1481.2	771.7	0	698	0	698	0.9720			
IroqCharges	709.5	4.4	705.1	1481.2	776.1	63	640	0	703	0.9905			
ENGPNGTS	342.9	3.4	339.4	366.0	26.6	1	312	0	312	0.9112			
ENGLNG	321.0	0.0	321.0	9333.0	9012.0	0	0	0	0	0.0000			
ENGPropane	160.8	0.0	160.8	6370.0	6209.2	0	0	0	0	0.0000			
ENGC3Truck	160.8	0.0	160.8	4392.0	4231.2	161	0	0	161	1.0000			
Dracut 30	1375.0	2.9	1372.1	10980.0	9607.9	60	4388	0	4448	3.2349			
UnionCharges	726.0	8.3	717.7	1481.2	763.5	0	140	0	140	0.1929			

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2019 thru OCT 2020

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Dracut 20	2364.2	5.0	2359.2	7320.0	4960.8	103	1134	0	1236	0.5229
ENGTGPZ4	2232.2	62.2	2170.0	9150.0	6980.0	664	0	0	664	0.2976
Z4toTGPLH	3941.5	33.5	3908.0	7686.0	3778.0	444	0	0	444	0.1126
Z4toStg	2752.7	9.1	2743.6	7904.1	5160.5	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1064.0	484.0	19	0	0	19	0.0335
GranBrdgPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56821.5	56821.5	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2928.0	2928.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWNTCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	0.0	0.0	0.0	1622.1	1622.1	0	█	0	█	0.0000
DAWN5Dracut	835.3	0.0	835.3	1622.1	786.9	26	0	0	26	0.0309
Total		168.7				2148	█		█	0.6903

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:51:42

NOV 2020 thru OCT 2021

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	48	Transportation Cost	2177	JAN 19, 2021	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	168.94
Other Variable Cost	340	Carrying Cost	299			System Unserved	0.00
		Other Variable Cost	0			Total	168.94
Total Variable	████	Total Variable	393	Total Variable	2177		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	2711	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	86224
						Total Revenue	0
						Net Cost	86224

Avg Cost of Served Demand 5.339 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.875 USD/DT
(Supply Cost/LDC Purchase)

Class	Demand Summary					Served	Unserved	Revenue	Peak Served	Peak Unserved
	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.					
ENGINormal	16150.3	0.0	16150.3	0.0	16150.3	16150.3	0.0	0	168.9	0.0
Total	16150.3	0.0	16150.3	0.0	16150.3	16150.3	0.0	0	168.9	0.0

Source	Supply Summary			Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
	Total Take	Max Take	Surplus							
ENGUSGC	2319.6	18250.0	15930.4			2.6954	6252	0	6252	2.6954
ENGNiagara	1065.6	1167.3	101.7			2.2282	2374	0	2374	2.2282
ENGPNGTS	343.6	365.0	21.4			2.8407	976	0	976	2.8407
ENGC3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6689.1	6690.4	1.3			1.8040	12067	0	12067	1.8040
DLiqWinter	250.0	250.0	0.0			██████████	██████████	██████████	██████████	██████████
Dracut 20	2259.6	7315.4	5055.8			7.4425	16817	0	16817	7.4425
ENGC3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████

25

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2020 thru OCT 2021

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	731.0	2190.0	1459.0			2.7187	1987	0	1987	2.7187
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	894.4	10973.0	10078.6			9.2261	8252	0	8252	9.2261
Engie Combo	630.0	630.0	0.0							
DAWN5	988.6	1825.0	836.4							
Total	16353.4									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	321.0	320.4	0	0.0	13	100	0.0	1	126	126	0
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1043	1043	0
ENGFSMA	1498	96	1765.0	1746.2	0	18.9	1498	96	0.0	0	2829	2669	-160
ENGDominion	103	100	110.3	108.1	0	2.2	103	100	0.0	0	204	195	-9
ENGNFG	671	100	720.9	715.2	0	5.7	671	100	5.6	0	1279	1218	-62
ENGHON	246	100	237.5	237.5	0	0.0	246	100	0.0	0	458	433	-25
Total	2606	98	3315.5	3288.2	0	26.7	2607	98	5.6	1	5938	5683	-255

Transportation Summary													
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost			
ENGTGPProd	2319.6	0.0	2319.6	7882.5	5563.0	0	5043	0	5043	2.1742			
ENGTGP2Stg	94.2	1.9	92.2	7882.5	7790.3	24	0	0	24	0.2572			
ENGTGPLong	6068.5	0.0	6068.5	8698.1	2629.6	0	0	0	0	0.0000			
ENGTGPBND	1065.6	6.6	1059.0	1139.5	80.5	91	267	0	358	0.3362			
ENGTGPShort	2801.3	23.8	2777.5	10262.0	7484.5	316	2688	0	3003	1.0721			
TrCanCharges	722.7	8.3	714.4	1477.2	762.8	0	698	0	698	0.9652			
IroqCharges	714.4	4.4	710.0	1477.2	767.2	63	640	0	703	0.9843			
ENGPNGTS	343.6	3.4	340.2	365.0	24.8	1	312	0	312	0.9093			
ENGLNG	320.4	0.0	320.4	9307.5	8987.1	0	0	0	0	0.0000			
ENGPropane	160.8	0.0	160.8	6335.0	6174.2	0	0	0	0	0.0000			
ENGC3Truck	160.8	0.0	160.8	4380.0	4219.2	161	0	0	161	1.0000			
Dracut 30	1803.3	3.8	1799.5	10950.0	9150.5	78	4388	0	4467	2.4769			
UnionCharges	731.0	8.3	722.7	1477.2	754.4	0	140	0	140	0.1915			

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2020 thru OCT 2021

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Dracut 20	2339.3	4.9	2334.4	7300.0	4965.6	102	1134	0	1235	0.5280
ENGTGPZ4	2225.4	62.0	2163.4	9125.0	6961.6	662	0	0	662	0.2976
Z4toTGPLH	3938.6	33.5	3905.1	7665.0	3759.9	444	0	0	444	0.1126
Z4toStg	2750.5	9.1	2741.5	7882.5	5141.1	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWNTCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	0.0	0.0	0.0	1825.0	1825.0	0	█	0	█	0.0000
DAWN5Dracut	988.6	0.0	988.6	1825.0	836.4	31	0	0	31	0.0309
Total		170.1				2177	█		█	0.6889

NOV 2021 thru OCT 2022

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2131	JAN 19, 2022	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	174.62
Other Variable Cost	340	Carrying Cost	243			System Unserved	0.00
		Other Variable Cost	0			Total	174.62
Total Variable	██████	Total Variable	337	Total Variable	2131		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	2738	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	86879
						Total Revenue	0
						Net Cost	86879

Avg Cost of Served Demand 5.244 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.842 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	16566.0	0.0	16566.0	0.0	16566.0	16566.0	0.0	0	174.6	0.0
Total	16566.0	0.0	16566.0	0.0	16566.0	16566.0	0.0	0	174.6	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2326.1	18250.0	15923.9			2.6639	6197	0	6197	2.6639
ENGNiagara	1083.5	1167.3	83.7			2.1993	2383	0	2383	2.1993
ENGPNGTS	346.4	365.0	18.6			2.8143	975	0	975	2.8143
ENGC3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6689.6	6690.4	0.8			1.6727	11190	0	11190	1.6727
DLiqWinter	250.0	250.0	0.0							
Dracut 20	2296.1	7315.4	5019.3			7.3937	16976	0	16976	7.3937
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
DLiqSummer	21.0	21.0	0.0							

NOV 2021 thru OCT 2022

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	742.0	2190.0	1448.0			2.6914	1997	0	1997	2.6914
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	1154.9	10973.0	9818.2			8.9260	10308	0	10308	8.9260
Engie Combo	630.0	630.0	0.0							
DAWN5	1061.2	1825.0	763.8							
Total	16692.5									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	321.0	321.6	0	0.0	12	95	0.0	-1	126	123	-2
ENGPropane	77	100	91.7	168.5	0	0.0	0	0	0.0	-77	1043	160	-883
ENGFSMA	1498	96	1767.4	1748.4	0	18.9	1498	96	0.0	0	2669	2475	-194
ENGDominion	103	100	109.7	107.5	0	2.1	103	100	0.0	0	195	181	-14
ENGNFG	671	100	720.9	715.2	0	5.7	671	100	5.6	0	1218	1130	-88
ENGHON	246	100	236.1	236.1	0	0.0	246	100	0.0	0	433	403	-30
Total	2607	98	3246.7	3297.4	0	26.7	2530	95	5.6	-77	5683	4472	-1211

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	2326.1	0.0	2326.1	7882.5	5556.4	0	5043	0	5043	2.1681		
ENGTGP2Stg	95.1	1.9	93.1	7882.5	7789.4	24	0	0	24	0.2572		
ENGTGPLong	6075.0	0.0	6075.0	8698.1	2623.1	0	0	0	0	0.0000		
ENGTGPBND	1083.5	6.7	1076.8	1139.5	62.7	92	267	0	360	0.3321		
ENGTGPShort	2801.6	23.8	2777.8	10262.0	7484.2	316	2688	0	3003	1.0720		
TrCanCharges	733.5	8.4	725.1	1477.2	752.1	0	698	0	698	0.9510		
IroqCharges	725.1	4.5	720.6	1477.2	756.5	64	640	0	704	0.9710		
ENGPNGTS	346.4	3.5	343.0	365.0	22.0	1	312	0	312	0.9019		
ENGLNG	321.6	0.0	321.6	9307.5	8985.9	0	0	0	0	0.0000		
ENGPropane	168.5	0.0	168.5	6335.0	6166.5	0	0	0	0	0.0000		
ENGC3Truck	91.7	0.0	91.7	4380.0	4288.3	92	0	0	92	1.0000		
Dracut 30	1860.2	3.9	1856.3	10950.0	9093.7	81	4388	0	4469	2.4024		
UnionCharges	742.0	8.5	733.5	1477.2	743.6	0	140	0	140	0.1887		

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2021 thru OCT 2022

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Dracut 20	2651.9	5.6	2646.3	7300.0	4653.7	115	1134	0	1249	0.4709
ENGTGPZ4	2231.0	62.2	2168.9	9125.0	6956.1	664	0	0	664	0.2976
Z4toTGPLH	3939.7	33.5	3906.2	7665.0	3758.8	444	0	0	444	0.1126
Z4toStg	2749.9	9.1	2740.9	7882.5	5141.7	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWNTCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	0.0	0.0	0.0	1825.0	1825.0	0	█	0	█	0.0000
DAWN5Dracut	1061.2	0.0	1061.2	1825.0	763.8	33	0	0	33	0.0309
Total		171.5				2131	█		█	0.6771

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:51:42

NOV 2022 thru OCT 2023

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	1889	JAN 19, 2023	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	183.41
Other Variable Cost	28	Carrying Cost	198			System Unserved	0.00
		Other Variable Cost	0			Total	183.41
Total Variable	██████	Total Variable	292	Total Variable	1889		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	130190
						Total Revenue	0
						Net Cost	130190

Avg Cost of Served Demand 7.316 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.969 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	17796.0	0.0	17796.0	0.0	17796.0	17796.0	0.0	0	183.4	0.0
Total	17796.0	0.0	17796.0	0.0	17796.0	17796.0	0.0	0	183.4	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2344.9	18250.0	15905.1			2.6913	6311	0	6311	2.6913
ENGNiagara	1129.3	1167.3	38.0			2.2438	2534	0	2534	2.2438
ENGPNGTS	304.9	365.0	60.1			2.3828	726	0	726	2.3828
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			1.5680	10490	0	10490	1.5680
Dracut 20	967.6	7315.4	6347.7			4.1683	4033	0	4033	4.1683
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
DLiqSummer	21.0	21.0	0.0			████████	████████	████████	████████	████████
ENGDawn	779.0	2190.0	1411.0			2.7035	2106	0	2106	2.7035

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2022 thru OCT 2023

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0.0000	
Repsol 40	4135.4	4135.4	0.0								
Dracut 30	348.9	10973.0	10624.1			3.1893	1113	0	1113	3.1893	
Engie Combo	46.1	46.1	0.0								
DAWN5	1362.9	1825.0	462.1								
Total	18130.4										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	55.1	55.1	0	0.0	12	95	0.0	0	123	124	0
ENGFSMA	1498	96	1777.1	1758.0	0	19.0	1498	96	0.0	0	2475	2318	-157
ENGDominion	103	100	114.2	111.9	0	2.2	103	100	0.0	0	181	165	-16
ENGNFG	671	100	723.5	717.8	0	5.7	671	100	5.7	0	1130	1061	-69
ENGHON	246	100	237.6	237.6	0	0.0	246	100	0.0	0	403	376	-27
Total	2530	98	2907.4	2880.4	0	27.0	2530	98	5.7	0	4472	4203	-269

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2344.9	0.0	2344.9	7882.5	5537.6	0	5043	0	5043	2.1507	
ENGTGP2Stg	98.4	2.0	96.4	7882.5	7786.2	25	0	0	25	0.2572	
ENGTGPLong	6075.9	0.0	6075.9	8698.1	2622.2	0	0	0	0	0.0000	
ENGTGPBND	1129.3	7.0	1122.3	1139.5	17.2	96	267	0	364	0.3221	
ENGTGPShort	2819.6	24.0	2795.7	10262.0	7466.3	318	2688	0	3005	1.0658	
TrCanCharges	770.1	8.9	761.2	1477.2	715.9	0	698	0	698	0.9059	
IroqCharges	761.2	4.7	756.5	1477.2	720.6	68	640	0	707	0.9292	
ENGPNGTS	304.9	3.0	301.8	365.0	63.2	1	312	0	312	1.0246	
ENGLNG	55.1	0.0	55.1	9307.5	9252.4	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	1015.5	2.1	1013.4	10950.0	9936.6	44	4388	0	4432	4.3646	
UnionCharges	779.0	8.9	770.1	1477.2	707.1	0	140	0	140	0.1797	
Dracut 20	301.0	0.6	300.4	7300.0	6999.6	13	1134	0	1147	3.8093	
ENGTGPZ4	2246.6	62.6	2183.9	9125.0	6941.1	669	0	0	669	0.2976	

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2022 thru OCT 2023

Cost and Flow Summary

Units: MDT, USD (000)

=====										
Transportation Summary										
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Z4toTGPLH	3925.4	33.4	3892.0	7665.0	3773.0	442	0	0	442	0.1126
Z4toStg	2765.0	9.1	2755.9	7882.5	5126.6	137	0	0	137	0.0495
Engie2CG	12.0	0.0	12.0	1057.0	1045.0	0	0	0	0	0.0335
GranBrdgPL	5374.2	11.3	5362.9	73000.0	67637.1	0	█	0	█	█
Repsol to101	4135.4	124.1	4011.3	36603.3	32592.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	34.1	0.0	34.1	50.0	15.9	34	0	0	34	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN2CPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1362.9	0.0	1362.9	1825.0	462.1	42	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		301.7				1889	█		█	█

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:51:42

NOV 2023 thru OCT 2024

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	1915	JAN 19, 2024	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	187.62
Other Variable Cost	28	Carrying Cost	208			System Unserved	0.00
		Other Variable Cost	0			Total	187.62
Total Variable	██████	Total Variable	302	Total Variable	1915		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	134263
						Total Revenue	0
						Net Cost	134263

Avg Cost of Served Demand 7.343 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.055 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	18283.3	0.0	18283.3	0.0	18283.3	18283.3	0.0	0	187.6	0.0
Total	18283.3	0.0	18283.3	0.0	18283.3	18283.3	0.0	0	187.6	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2362.2	18300.0	15937.8			2.7627	6526	0	6526	2.7627
ENGNiagara	1136.5	1170.5	34.0			2.3404	2660	0	2660	2.3404
ENGPNGTS	306.0	366.0	60.0			2.4513	750	0	750	2.4513
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6698.7	6698.7	0.0			1.6985	11378	0	11378	1.6985
Dracut 20	1133.1	7335.4	6202.3			4.5885	5199	0	5199	4.5885
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENGDawn	794.2	2196.0	1401.8			2.7741	2203	0	2203	2.7741

204

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2023 thru OCT 2024

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54900.0	54900.0			0.0000	0	0	0	0.0000	
Repsol 40	4135.4	4135.4	0.0								
Dracut 30	556.6	11003.1	10446.5			3.6714	2043	0	2043	3.6714	
Engie Combo	46.1	46.1	0.0								
DAWN5	1429.8	1830.0	400.2								
Total	18619.6										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	55.2	55.2	0	0.0	12	95	0.0	0	124	127	3
ENGFSMA	1498	96	1776.1	1757.1	0	19.0	1498	96	0.0	0	2318	2521	203
ENGDominion	103	100	115.0	112.7	0	2.2	103	100	0.0	0	165	179	14
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1061	1152	92
ENGHON	246	100	240.1	240.1	0	0.0	246	100	0.0	0	376	403	27
Total	2530	98	2910.1	2883.2	0	27.0	2530	98	5.7	0	4203	4542	339

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2362.2	0.0	2362.2	7904.1	5541.9	0	5043	0	5043	2.1350	
ENGTGP2Stg	104.5	2.1	102.4	7904.1	7801.7	27	0	0	27	0.2572	
ENGTGPLong	6098.4	0.0	6098.4	8719.7	2621.3	0	0	0	0	0.0000	
ENGTGPBND	1136.5	7.0	1129.5	1142.7	13.2	97	267	0	364	0.3206	
ENGTGPShort	2822.3	24.0	2798.3	10290.1	7491.8	318	2688	0	3006	1.0649	
TrCanCharges	785.2	9.0	776.1	1481.2	705.1	0	698	0	698	0.8885	
IroqCharges	776.1	4.8	771.3	1481.2	709.9	69	640	0	709	0.9130	
ENGPNGTS	306.0	3.1	302.9	366.0	63.1	1	312	0	312	1.0208	
ENGLNG	55.2	0.0	55.2	9333.0	9277.8	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6370.0	6370.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4392.0	4392.0	0	0	0	0	0.0000	
Dracut 30	1177.5	2.5	1175.0	10980.0	9805.0	51	4388	0	4439	3.7702	
UnionCharges	794.2	9.0	785.2	1481.2	696.0	0	140	0	140	0.1763	
Dracut 20	512.2	1.1	511.1	7320.0	6808.9	22	1134	0	1156	2.2567	
ENGTGPZ4	2257.7	62.9	2194.8	9150.0	6955.2	672	0	0	672	0.2976	

525

NOV 2023 thru OCT 2024

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary										
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Z4toTGPLH	3937.1	33.5	3903.6	7686.0	3782.4	443	0	0	443	0.1126
Z4toStg	2761.6	9.1	2752.5	7904.1	5151.6	137	0	0	137	0.0495
Engie2CG	11.9	0.0	11.9	1064.0	1052.1	0	0	0	0	0.0335
GranBrdgPL	5441.1	11.4	5429.7	73200.0	67770.3	0	█	0	█	█
Repsol to101	4135.4	124.1	4011.3	36703.6	32692.3	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56821.5	56821.5	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2928.0	2928.0	0	0	0	0	0.0000
Engie2ENGLNG	34.2	0.0	34.2	50.0	15.8	34	0	0	34	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN2CPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1429.8	0.0	1429.8	1830.0	400.2	44	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1830.0	1830.0	0	0	0	0	0.0000
Total		303.7				1915	█		█	█

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:51:42

NOV 2024 thru OCT 2025

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	█	Injection Cost	48	Transportation Cost	1926	JAN 19, 2025	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	191.54
Other Variable Cost	28	Carrying Cost	227			System Unserved	0.00
		Other Variable Cost	0			Total	191.54
Total Variable	█	Total Variable	322	Total Variable	1926		
Demand/Reservation Co	█	Demand Cost	█	Demand Cost	█		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	█	Total Fixed	█	Total Fixed	█		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	█	Net Storage Cost	█	Net Trans Cost	█	Total Gas Cost	138194
						Total Revenue	0
						Net Cost	138194

Avg Cost of Served Demand 7.428 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.175 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	18605.3	0.0	18605.3	0.0	18605.3	18605.3	0.0	0	191.5	0.0
Total	18605.3	0.0	18605.3	0.0	18605.3	18605.3	0.0	0	191.5	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2352.2	18250.0	15897.8			2.8554	6716	0	6716	2.8554
ENGNiagara	1135.8	1167.3	31.5			2.4569	2791	0	2791	2.4569
ENGPNGTS	307.0	365.0	58.0			2.5435	781	0	781	2.5435
ENG3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			1.8482	12365	0	12365	1.8482
Dracut 20	1366.7	7315.4	5948.7			4.8585	6640	0	6640	4.8585
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
DLiqSummer	21.0	21.0	0.0			█	█	█	█	█
ENG Dawn	796.4	2190.0	1393.6			2.8661	2283	0	2283	2.8661

NOV 2024 thru OCT 2025

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0.0000	
Repsol 40	4135.4	4135.4	0.0								
Dracut 30	612.3	10973.0	10360.7			3.9532	2421	0	2421	3.9532	
Engie Combo	46.1	46.1	0.0								
DAWN5	1478.7	1825.0	346.3								
Total	18942.0										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	55.1	55.1	0	0.0	12	95	0.0	0	127	130	4
ENGFSMA	1498	96	1777.9	1758.9	0	19.0	1498	96	0.0	0	2521	2757	236
ENGDominion	103	100	114.2	111.9	0	2.2	103	100	0.0	0	179	195	16
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1152	1258	105
ENGHON	246	100	239.5	239.5	0	0.0	246	100	0.0	0	403	440	37
Total	2530	98	2910.4	2883.4	0	27.0	2530	98	5.7	0	4542	4940	398

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2352.2	0.0	2352.2	7882.5	5530.3	0	5043	0	5043	2.1440	
ENGTGP2Stg	106.2	2.2	104.0	7882.5	7778.6	27	0	0	27	0.2572	
ENGTGPLong	6080.0	0.0	6080.0	8698.1	2618.1	0	0	0	0	0.0000	
ENGTGPBND	1135.8	7.0	1128.7	1139.5	10.8	97	267	0	364	0.3207	
ENGTGPShort	2822.7	24.0	2798.7	10262.0	7463.3	318	2688	0	3006	1.0648	
TrCanCharges	787.3	9.1	778.3	1477.2	698.9	0	698	0	698	0.8860	
IroqCharges	778.3	4.8	773.4	1477.2	703.7	69	640	0	709	0.9108	
ENGPNGTS	307.0	3.1	303.9	365.0	61.1	1	312	0	312	1.0175	
ENGLNG	55.1	0.0	55.1	9307.5	9252.4	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	1431.7	3.0	1428.7	10950.0	9521.3	62	4388	0	4450	3.1085	
UnionCharges	796.4	9.1	787.3	1477.2	689.8	0	140	0	140	0.1758	
Dracut 20	547.3	1.1	546.1	7300.0	6753.9	24	1134	0	1157	2.1149	
ENGTGPZ4	2246.1	62.6	2183.5	9125.0	6941.5	668	0	0	668	0.2976	

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2024 thru OCT 2025

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Z4toTGPLH	3930.0	33.4	3896.6	7665.0	3768.4	443	0	0	443	0.1126
Z4toStg	2760.4	9.1	2751.3	7882.5	5131.2	137	0	0	137	0.0495
Engie2CG	12.0	0.0	12.0	1057.0	1045.0	0	0	0	0	0.0335
GranBrdgPL	5490.0	11.5	5478.5	73000.0	67521.5	0	█	0	█	█
Repsol to101	4135.4	124.1	4011.3	36603.3	32592.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	34.1	0.0	34.1	50.0	15.9	34	0	0	34	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN2CPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1478.7	0.0	1478.7	1825.0	346.3	46	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		304.1				1926	█		█	█

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:51:42

NOV 2025 thru OCT 2026

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	█	Injection Cost	48	Transportation Cost	1941	JAN 19, 2026	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	194.99
Other Variable Cost	29	Carrying Cost	248			System Unserved	0.00
		Other Variable Cost	0			Total	194.99
Total Variable	█	Total Variable	342	Total Variable	1941		
Demand/Reservation Co	█	Demand Cost	█	Demand Cost	█		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	█	Total Fixed	█	Total Fixed	█		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	█	Net Storage Cost	█	Net Trans Cost	█	Total Gas Cost	142535
						Total Revenue	0
						Net Cost	142535

Avg Cost of Served Demand 7.523 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.307 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	18947.4	0.0	18947.4	0.0	18947.4	18947.4	0.0	0	195.0	0.0
Total	18947.4	0.0	18947.4	0.0	18947.4	18947.4	0.0	0	195.0	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2353.4	18250.0	15896.6			2.9741	6999	0	6999	2.9741
ENGNiagara	1137.2	1167.3	30.1			2.5845	2939	0	2939	2.5845
ENGPNGTS	309.0	365.0	56.0			2.6441	817	0	817	2.6441
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.0008	13386	0	13386	2.0008
Dracut 20	1479.4	7315.4	5836.0			5.1347	7596	0	7596	5.1347
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
DLiqSummer	21.0	21.0	0.0			█	█	█	█	█
ENGDawn	803.3	2190.0	1386.7			2.9806	2394	0	2394	2.9806

26

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2025 thru OCT 2026

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0	0.0000
Repsol 40	4135.4	4135.4	0.0								
Dracut 30	784.0	10973.0	10189.1			4.2832	3358	0	3358	4.2832	
Engie Combo	46.1	46.1	0.0								
DAWN5	1525.9	1825.0	299.1								
Total	19285.1										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	55.1	55.1	0	0.0	12	95	0.0	0	130	134	4
ENGFSMA	1498	96	1777.7	1758.7	0	19.0	1498	96	0.0	0	2757	2980	223
ENGDominion	103	100	114.4	112.2	0	2.2	103	100	0.0	0	195	209	14
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1258	1365	107
ENGHON	246	100	239.5	239.5	0	0.0	246	100	0.0	0	440	478	38
Total	2530	98	2910.4	2883.5	0	27.0	2530	98	5.7	0	4940	5327	387

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2353.4	0.0	2353.4	7882.5	5529.1	0	5043	0	5043	2.1430	
ENGTGP2Stg	106.2	2.2	104.0	7882.5	7778.5	27	0	0	27	0.2572	
ENGTGPLong	6081.2	0.0	6081.2	8698.1	2616.9	0	0	0	0	0.0000	
ENGTGPBND	1137.2	7.1	1130.2	1139.5	9.4	97	267	0	364	0.3204	
ENGTGPShort	2822.7	24.0	2798.7	10262.0	7463.3	318	2688	0	3006	1.0648	
TrCanCharges	794.1	9.1	785.0	1477.2	692.2	0	698	0	698	0.8784	
IroqCharges	785.0	4.9	780.1	1477.2	697.0	70	640	0	709	0.9037	
ENGPNGTS	309.0	3.1	305.9	365.0	59.1	1	312	0	312	1.0109	
ENGLNG	55.1	0.0	55.1	9307.5	9252.4	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	1729.2	3.6	1725.5	10950.0	9224.5	75	4388	0	4463	2.5812	
UnionCharges	803.3	9.1	794.1	1477.2	683.0	0	140	0	140	0.1743	
Dracut 20	534.2	1.1	533.1	7300.0	6766.9	23	1134	0	1157	2.1656	
ENGTGPZ4	2247.2	62.6	2184.6	9125.0	6940.4	669	0	0	669	0.2976	

112

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2025 thru OCT 2026

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Z4toTGPLH	3930.0	33.4	3896.6	7665.0	3768.4	443	0	0	443	0.1126
Z4toStg	2760.4	9.1	2751.3	7882.5	5131.2	137	0	0	137	0.0495
Engie2CG	12.0	0.0	12.0	1057.0	1045.0	0	0	0	0	0.0335
GranBrdgPL	5537.3	11.6	5525.6	73000.0	67474.4	0	█	0	█	█
Repsol to101	4135.4	124.1	4011.3	36603.3	32592.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	34.1	0.0	34.1	50.0	15.9	34	0	0	34	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN2CPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1525.9	0.0	1525.9	1825.0	299.1	47	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		305.0				1941	█		█	█

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:51:42

NOV 2026 thru OCT 2027

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	1952	JAN 19, 2027	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	198.17
Other Variable Cost	29	Carrying Cost	264			System Unserved	0.00
		Other Variable Cost	0			Total	198.17
Total Variable	██████	Total Variable	358	Total Variable	1952		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	146276
						Total Revenue	0
						Net Cost	146276

Avg Cost of Served Demand 7.598 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.413 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	19251.6	0.0	19251.6	0.0	19251.6	19251.6	0.0	0	198.2	0.0
Total	19251.6	0.0	19251.6	0.0	19251.6	19251.6	0.0	0	198.2	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2356.5	18250.0	15893.5			3.0655	7224	0	7224	3.0655
ENGNiagara	1138.2	1167.3	29.1			2.6891	3061	0	3061	2.6891
ENGPNGTS	360.0	365.0	5.0			3.1419	1131	0	1131	3.1419
ENG3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.1318	14262	0	14262	2.1318
Dracut 20	1630.9	7315.4	5684.5			5.1967	8475	0	8475	5.1967
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENG Dawn	808.8	2190.0	1381.2			3.0676	2481	0	2481	3.0676

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2026 thru OCT 2027

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0	0.0000
Repsol 40	4135.4	4135.4	0.0								
Dracut 30	838.8	10973.0	10134.3			4.7130	3953	0	3953	4.7130	
Engie Combo	46.1	46.1	0.0								
DAWN5	1564.5	1825.0	260.5								
Total	19590.6										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	55.1	55.1	0	0.0	12	95	0.0	0	134	137	3
ENGFSMA	1498	96	1777.7	1758.7	0	19.0	1498	96	0.0	0	2980	3184	204
ENGDominion	103	100	114.4	112.2	0	2.2	103	100	0.0	0	209	224	15
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1365	1454	89
ENGHON	246	100	239.5	239.5	0	0.0	246	100	0.0	0	478	512	34
Total	2530	98	2910.4	2883.5	0	27.0	2530	98	5.7	0	5327	5671	344

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2356.5	0.0	2356.5	7882.5	5526.0	0	5043	0	5043	2.1401	
ENGTGP2Stg	106.2	2.2	104.0	7882.5	7778.5	27	0	0	27	0.2572	
ENGTGPLong	6084.2	0.0	6084.2	8698.1	2613.9	0	0	0	0	0.0000	
ENGTGPBND	1138.2	7.1	1131.1	1139.5	8.4	97	267	0	364	0.3202	
ENGTGPShort	2822.7	24.0	2798.7	10262.0	7463.3	318	2688	0	3006	1.0648	
TrCanCharges	799.6	9.2	790.4	1477.2	686.7	0	698	0	698	0.8724	
IroqCharges	790.4	4.9	785.5	1477.2	691.6	70	640	0	710	0.8981	
ENGPNGTS	360.0	3.6	356.4	365.0	8.6	1	312	0	312	0.8679	
ENGLNG	55.1	0.0	55.1	9307.5	9252.4	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	1760.0	3.7	1756.3	10950.0	9193.7	76	4388	0	4465	2.5367	
UnionCharges	808.8	9.2	799.6	1477.2	677.5	0	140	0	140	0.1731	
Dracut 20	709.6	1.5	708.1	7300.0	6591.9	31	1134	0	1164	1.6411	
ENGTGPZ4	2250.3	62.7	2187.6	9125.0	6937.4	670	0	0	670	0.2976	

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2026 thru OCT 2027

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Z4toTGPLH	3930.0	33.4	3896.6	7665.0	3768.4	443	0	0	443	0.1126
Z4toStg	2760.4	9.1	2751.3	7882.5	5131.2	137	0	0	137	0.0495
Engie2CG	12.0	0.0	12.0	1057.0	1045.0	0	0	0	0	0.0335
GranBrdgPL	5575.9	11.7	5564.1	73000.0	67435.9	0	█	0	█	█
Repsol to101	4135.4	124.1	4011.3	36603.3	32592.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	34.1	0.0	34.1	50.0	15.9	34	0	0	34	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN2CPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1564.5	0.0	1564.5	1825.0	260.5	48	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		306.3				1952	█		█	█

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:51:42

NOV 2027 thru OCT 2028

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	1971	JAN 19, 2028	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	200.70
Other Variable Cost	29	Carrying Cost	282			System Unserved	0.00
		Other Variable Cost	0			Total	200.70
Total Variable	██████	Total Variable	376	Total Variable	1971		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	150041
						Total Revenue	0
						Net Cost	150041

Avg Cost of Served Demand 7.660 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.509 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	19586.6	0.0	19586.6	0.0	19586.6	19586.6	0.0	0	200.7	0.0
Total	19586.6	0.0	19586.6	0.0	19586.6	19586.6	0.0	0	200.7	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2372.3	18300.0	15927.7			3.1577	7491	0	7491	3.1577
ENGNiagara	1142.3	1170.5	28.1			2.7879	3185	0	3185	2.7879
ENGPNGTS	363.0	366.0	3.0			3.2230	1170	0	1170	3.2230
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6698.7	6698.7	0.0			2.2523	15087	0	15087	2.2523
Dracut 20	1711.1	7335.4	5624.3			5.3497	9154	0	9154	5.3497
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENGDawn	819.0	2196.0	1377.0			3.1544	2583	0	2583	3.1544

NOV 2027 thru OCT 2028

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54900.0	54900.0			0.0000	0	0	0	0	0.0000
Repsol 40	4135.4	4135.4	0.0								
Dracut 30	971.5	11003.1	10031.6			5.0241	4881	0	4881	5.0241	
Engie Combo	46.1	46.1	0.0								
DAWN5	1646.6	1830.0	183.4								
Total	19927.0										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	55.2	55.2	0	0.0	12	95	0.0	0	137	141	4
ENGFSMA	1498	96	1777.9	1758.9	0	19.0	1498	96	0.0	0	3184	3368	184
ENGDominion	103	100	115.1	112.9	0	2.2	103	100	0.0	0	224	241	17
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1454	1534	80
ENGHON	246	100	240.5	240.5	0	0.0	246	100	0.0	0	512	543	31
Total	2530	98	2912.6	2885.6	0	27.0	2530	98	5.7	0	5671	5987	316

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2372.3	0.0	2372.3	7904.1	5531.8	0	5043	0	5043	2.1259	
ENGTGP2Stg	107.1	2.2	105.0	7904.1	7799.2	28	0	0	28	0.2572	
ENGTGPLong	6105.8	0.0	6105.8	8719.7	2613.9	0	0	0	0	0.0000	
ENGTGPBND	1142.3	7.1	1135.2	1142.7	7.4	98	267	0	365	0.3194	
ENGTGPShort	2824.7	24.0	2800.7	10290.1	7489.4	318	2688	0	3006	1.0641	
TrCanCharges	809.7	9.3	800.4	1481.2	680.8	0	698	0	698	0.8616	
IroqCharges	800.4	5.0	795.4	1481.2	685.8	71	640	0	711	0.8881	
ENGPNGTS	363.0	3.6	359.4	366.0	6.6	1	312	0	312	0.8608	
ENGLNG	55.2	0.0	55.2	9333.0	9277.8	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6370.0	6370.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4392.0	4392.0	0	0	0	0	0.0000	
Dracut 30	1910.1	4.0	1906.1	10980.0	9073.9	83	4388	0	4471	2.3409	
UnionCharges	819.0	9.3	809.7	1481.2	671.5	0	140	0	140	0.1710	
Dracut 20	772.5	1.6	770.8	7320.0	6549.2	34	1134	0	1167	1.5110	
ENGTGPZ4	2265.2	63.1	2202.1	9150.0	6947.9	674	0	0	674	0.2976	

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2027 thru OCT 2028

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary										
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Z4toTGPLH	3937.2	33.5	3903.7	7686.0	3782.3	443	0	0	443	0.1126
Z4toStg	2761.5	9.1	2752.4	7904.1	5151.8	137	0	0	137	0.0495
Engie2CG	11.9	0.0	11.9	1064.0	1052.1	0	0	0	0	0.0335
GranBrdgPL	5658.0	11.9	5646.1	73200.0	67553.9	0	█	0	█	█
Repsol to101	4135.4	124.1	4011.3	36703.6	32692.3	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56821.5	56821.5	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2928.0	2928.0	0	0	0	0	0.0000
Engie2ENGLNG	34.2	0.0	34.2	50.0	15.8	34	0	0	34	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN2CPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1646.6	0.0	1646.6	1830.0	183.4	51	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1830.0	1830.0	0	0	0	0	0.0000
Total		307.8				1971	█		█	█

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:51:42

NOV 2028 thru OCT 2029

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	1976	JAN 19, 2029	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	203.52
Other Variable Cost	30	Carrying Cost	291			System Unserved	0.00
		Other Variable Cost	0			Total	203.52
Total Variable	██████	Total Variable	385	Total Variable	1976		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	152158
						Total Revenue	0
						Net Cost	152158

Avg Cost of Served Demand 7.687 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.557 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	19794.3	0.0	19794.3	0.0	19794.3	19794.3	0.0	0	203.5	0.0
Total	19794.3	0.0	19794.3	0.0	19794.3	19794.3	0.0	0	203.5	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2361.3	18250.0	15888.7			3.2122	7585	0	7585	3.2122
ENGNiagara	1140.0	1167.3	27.2			2.8235	3219	0	3219	2.8235
ENGPNGTS	362.0	365.0	3.0			3.2528	1178	0	1178	3.2528
ENG3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.2789	15247	0	15247	2.2789
Dracut 20	1792.2	7315.4	5523.2			5.3841	9649	0	9649	5.3841
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENG Dawn	820.8	2190.0	1369.2			3.1961	2623	0	2623	3.1961

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2028 thru OCT 2029

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary												
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost		
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0	0.0000	
Repsol 40	4135.4	4135.4	0.0									
Dracut 30	1108.5	10973.0	9864.5			5.3384	5918	0	5918	5.3384		
Engie Combo	46.1	46.1	0.0									
DAWN5	1657.1	1825.0	167.9									
Total	20134.8											

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	55.1	55.1	0	0.0	12	95	0.0	0	141	143	2
ENGFSMA	1498	96	1776.7	1757.7	0	19.0	1498	96	0.0	0	3368	3400	32
ENGDominion	103	100	114.6	112.3	0	2.2	103	100	0.0	0	241	243	3
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1534	1548	14
ENGHON	246	100	239.4	239.4	0	0.0	246	100	0.0	0	543	551	8
Total	2530	98	2909.5	2882.6	0	27.0	2530	98	5.7	0	5987	6046	58

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2361.3	0.0	2361.3	7882.5	5521.2	0	5043	0	5043	2.1358	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6089.8	0.0	6089.8	8698.1	2608.3	0	0	0	0	0.0000	
ENGTGPBND	1140.0	7.1	1133.0	1139.5	6.6	97	267	0	365	0.3198	
ENGTGPShort	2821.8	24.0	2797.8	10262.0	7464.2	318	2688	0	3006	1.0651	
TrCanCharges	811.4	9.3	802.1	1477.2	675.1	0	698	0	698	0.8597	
IroqCharges	802.1	5.0	797.1	1477.2	680.0	71	640	0	711	0.8863	
ENGPNGTS	362.0	3.6	358.4	365.0	6.6	1	312	0	312	0.8631	
ENGLNG	55.1	0.0	55.1	9307.5	9252.4	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENG3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	2114.2	4.4	2109.7	10950.0	8840.3	92	4388	0	4480	2.1191	
UnionCharges	820.8	9.3	811.4	1477.2	665.7	0	140	0	140	0.1706	
Dracut 20	786.5	1.7	784.9	7300.0	6515.1	34	1134	0	1168	1.4848	
ENGTGPZ4	2254.2	62.8	2191.4	9125.0	6933.6	671	0	0	671	0.2976	

07

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2028 thru OCT 2029

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Z4toTGPLH	3931.8	33.4	3898.4	7665.0	3766.6	443	0	0	443	0.1126
Z4toStg	2758.6	9.1	2749.5	7882.5	5133.1	137	0	0	137	0.0495
Engie2CG	12.0	0.0	12.0	1057.0	1045.0	0	0	0	0	0.0335
GranBrdgPL	5668.4	11.9	5656.5	73000.0	67343.5	0	█	0	█	█
Repsol to101	4135.4	124.1	4011.3	36603.3	32592.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	34.1	0.0	34.1	50.0	15.9	34	0	0	34	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN2CPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1657.1	0.0	1657.1	1825.0	167.9	51	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		307.9				1976	█		█	█

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:51:42

NOV 2029 thru OCT 2030

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	█	Injection Cost	48	Transportation Cost	1989	JAN 19, 2030	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	206.14
Other Variable Cost	30	Carrying Cost	293			System Unserved	0.00
		Other Variable Cost	0			Total	206.14
Total Variable	█	Total Variable	388	Total Variable	1989		
Demand/Reservation Co	█	Demand Cost	█	Demand Cost	█		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	█	Total Fixed	█	Total Fixed	█		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	█	Net Storage Cost	█	Net Trans Cost	█	Total Gas Cost	154372
						Total Revenue	0
						Net Cost	154372

Avg Cost of Served Demand 7.698 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.594 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20053.4	0.0	20053.4	0.0	20053.4	20053.4	0.0	0	206.1	0.0
Total	20053.4	0.0	20053.4	0.0	20053.4	20053.4	0.0	0	206.1	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2364.1	18250.0	15885.9			3.2442	7670	0	7670	3.2442
ENGNiagara	1140.7	1167.3	26.6			2.8516	3253	0	3253	2.8516
ENGPNGTS	362.0	365.0	3.0			3.2853	1189	0	1189	3.2853
ENG3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.3017	15399	0	15399	2.3017
Dracut 20	1987.8	7315.4	5327.6			5.4157	10765	0	10765	5.4157
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
DLiqSummer	21.0	21.0	0.0			█	█	█	█	█
ENG Dawn	826.9	2190.0	1363.1			3.2261	2668	0	2668	3.2261

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2029 thru OCT 2030

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0.0000	
Repsol 40	4135.4	4135.4	0.0								
Dracut 30	1148.2	10973.0	9824.9			5.6093	6440	0	6440	5.6093	
Engie Combo	46.1	46.1	0.0								
DAWN5	1672.2	1825.0	152.8								
Total	20394.7										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	55.1	55.1	0	0.0	12	95	0.0	0	143	144	1
ENGFSMA	1498	96	1776.7	1757.7	0	19.0	1498	96	0.0	0	3400	3433	33
ENGDominion	103	100	114.6	112.3	0	2.2	103	100	0.0	0	243	242	-1
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1548	1566	17
ENGHON	246	100	239.4	239.4	0	0.0	246	100	0.0	0	551	557	6
Total	2530	98	2909.5	2882.6	0	27.0	2530	98	5.7	0	6046	6102	56

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2364.1	0.0	2364.1	7882.5	5518.4	0	5043	0	5043	2.1333	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6092.4	0.0	6092.4	8698.1	2605.7	0	0	0	0	0.0000	
ENGTGPBND	1140.7	7.1	1133.6	1139.5	5.9	97	267	0	365	0.3197	
ENGTGPShort	2821.8	24.0	2797.8	10262.0	7464.2	318	2688	0	3006	1.0651	
TrCanCharges	817.5	9.4	808.1	1477.2	669.1	0	698	0	698	0.8533	
IroqCharges	808.1	5.0	803.1	1477.2	674.1	72	640	0	711	0.8804	
ENGPNGTS	362.0	3.6	358.4	365.0	6.6	1	312	0	312	0.8631	
ENGLNG	55.1	0.0	55.1	9307.5	9252.4	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	2094.4	4.4	2090.0	10950.0	8860.0	91	4388	0	4479	2.1386	
UnionCharges	826.9	9.4	817.5	1477.2	659.7	0	140	0	140	0.1693	
Dracut 20	1041.5	2.2	1039.3	7300.0	6260.7	45	1134	0	1179	1.1319	
ENGTGPZ4	2256.9	62.9	2194.0	9125.0	6931.0	672	0	0	672	0.2976	

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2029 thru OCT 2030

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Z4toTGPLH	3931.8	33.4	3898.4	7665.0	3766.6	443	0	0	443	0.1126
Z4toStg	2758.6	9.1	2749.5	7882.5	5133.1	137	0	0	137	0.0495
Engie2CG	12.0	0.0	12.0	1057.0	1045.0	0	0	0	0	0.0335
GranBrdgPL	5683.5	11.9	5671.6	73000.0	67328.4	0	█	0	█	█
Repsol to101	4135.4	124.1	4011.3	36603.3	32592.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	34.1	0.0	34.1	50.0	15.9	34	0	0	34	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1672.2	0.0	1672.2	1825.0	152.8	52	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		308.7				1989	█		█	█

Scen 1522 AC Supplemental
- Draw 0

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SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:51:42

NOV 2030 thru OCT 2031

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2001	JAN 19, 2031	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	208.77
Other Variable Cost	30	Carrying Cost	297			System Unserved	0.00
		Other Variable Cost	0			Total	208.77
Total Variable	██████	Total Variable	391	Total Variable	2001		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	156598
						Total Revenue	0
						Net Cost	156598

Avg Cost of Served Demand 7.713 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.633 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20303.1	0.0	20303.1	0.0	20303.1	20303.1	0.0	0	208.8	0.0
Total	20303.1	0.0	20303.1	0.0	20303.1	20303.1	0.0	0	208.8	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2366.7	18250.0	15883.3			3.2765	7755	0	7755	3.2765
ENGNiagara	1141.3	1167.3	25.9			2.8800	3287	0	3287	2.8800
ENGPNGTS	362.0	365.0	3.0			3.3182	1201	0	1201	3.3182
ENG3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.3247	15553	0	15553	2.3247
Dracut 20	2008.1	7315.4	5307.3			5.4659	10976	0	10976	5.4659
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENG Dawn	846.0	2190.0	1344.0			3.2517	2751	0	2751	3.2517

5/5

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2030 thru OCT 2031

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0	0.0000
Repsol 40	4135.4	4135.4	0.0								
Dracut 30	1343.3	10973.0	9629.8			5.8320	7834	0	7834	5.8320	
Engie Combo	46.1	46.1	0.0								
DAWN5	1685.2	1825.0	139.8								
Total	20645.5										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	55.1	55.1	0	0.0	12	95	0.0	0	144	145	1
ENGFSMA	1498	96	1776.7	1757.7	0	19.0	1498	96	0.0	0	3433	3466	33
ENGDominion	103	100	114.0	111.7	0	2.2	103	100	0.0	0	242	244	1
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1566	1583	17
ENGHON	246	100	237.1	237.1	0	0.0	246	100	0.0	0	557	562	5
Total	2530	98	2906.6	2879.6	0	27.0	2530	98	5.7	0	6102	6160	58

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2366.7	0.0	2366.7	7882.5	5515.8	0	5043	0	5043	2.1309	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6097.9	0.0	6097.9	8698.1	2600.2	0	0	0	0	0.0000	
ENGTGPBND	1141.3	7.1	1134.2	1139.5	5.3	97	267	0	365	0.3196	
ENGTGPShort	2818.9	24.0	2794.9	10262.0	7467.1	318	2688	0	3005	1.0661	
TrCanCharges	836.3	9.6	826.7	1477.2	650.4	0	698	0	698	0.8341	
IroqCharges	826.7	5.1	821.6	1477.2	655.6	73	640	0	713	0.8626	
ENGPNGTS	362.0	3.6	358.4	365.0	6.6	1	312	0	312	0.8631	
ENGLNG	55.1	0.0	55.1	9307.5	9252.4	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	2234.8	4.7	2230.1	10950.0	8719.9	97	4388	0	4485	2.0071	
UnionCharges	846.0	9.6	836.3	1477.2	640.8	0	140	0	140	0.1655	
Dracut 20	1116.6	2.3	1114.2	7300.0	6185.8	48	1134	0	1182	1.0587	
ENGTGPZ4	2259.6	63.0	2196.6	9125.0	6928.4	672	0	0	672	0.2976	

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2030 thru OCT 2031

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary										
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Z4toTGPLH	3934.8	33.4	3901.3	7665.0	3763.7	443	0	0	443	0.1126
Z4toStg	2755.6	9.1	2746.5	7882.5	5136.0	137	0	0	137	0.0495
Engie2CG	12.0	0.0	12.0	1057.0	1045.0	0	0	0	0	0.0335
GranBrdgPL	5696.6	12.0	5684.6	73000.0	67315.4	0	█	0	█	█
Repsol to101	4135.4	124.1	4011.3	36603.3	32592.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	34.1	0.0	34.1	50.0	15.9	34	0	0	34	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1685.2	0.0	1685.2	1825.0	139.8	52	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		309.8				2001	█		█	█

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:51:42

NOV 2031 thru OCT 2032

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2020	JAN 19, 2032	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	211.15
Other Variable Cost	30	Carrying Cost	301			System Unserved	0.00
		Other Variable Cost	0			Total	211.15
Total Variable	██████	Total Variable	395	Total Variable	2020		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	159103
						Total Revenue	0
						Net Cost	159103

Avg Cost of Served Demand 7.721 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.669 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20607.0	0.0	20607.0	0.0	20607.0	20607.0	0.0	0	211.2	0.0
Total	20607.0	0.0	20607.0	0.0	20607.0	20607.0	0.0	0	211.2	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2383.8	18300.0	15916.2			3.3095	7889	0	7889	3.3095
ENGNiagara	1145.0	1170.5	25.4			2.9095	3332	0	3332	2.9095
ENGPNGTS	363.0	366.0	3.0			3.3583	1219	0	1219	3.3583
ENG3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6698.7	6698.7	0.0			2.3485	15732	0	15732	2.3485
Dracut 20	2118.5	7335.4	5216.9			5.4870	11624	0	11624	5.4870
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENG Dawn	872.4	2196.0	1323.6			3.2774	2859	0	2859	3.2774

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2031 thru OCT 2032

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54900.0	54900.0			0.0000	0	0	0	0	0.0000
Repsol 40	4135.4	4135.4	0.0								
Dracut 30	1466.9	11003.1	9536.2			6.0951	8941	0	8941	6.0951	
Engie Combo	46.1	46.1	0.0								
DAWN5	1700.5	1830.0	129.5								
Total	20951.3										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	55.2	55.2	0	0.0	12	95	0.0	0	145	147	1
ENGFSMA	1498	96	1775.9	1756.9	0	19.0	1498	96	0.0	0	3466	3501	34
ENGDominion	103	100	114.0	111.7	0	2.2	103	100	0.0	0	244	246	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1583	1597	15
ENGHON	246	100	237.9	237.9	0	0.0	246	100	0.0	0	562	567	6
Total	2530	98	2906.7	2879.8	0	26.9	2530	98	5.7	0	6160	6218	58

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2383.8	0.0	2383.8	7904.1	5520.3	0	5043	0	5043	2.1156	
ENGTGP2Stg	107.1	2.2	105.0	7904.1	7799.2	28	0	0	28	0.2572	
ENGTGPLong	6122.8	0.0	6122.8	8719.7	2596.9	0	0	0	0	0.0000	
ENGTGPBND	1145.0	7.1	1137.9	1142.7	4.7	98	267	0	365	0.3188	
ENGTGPShort	2818.9	24.0	2794.9	10290.1	7495.2	318	2688	0	3005	1.0661	
TrCanCharges	862.4	9.9	852.5	1481.2	628.7	0	698	0	698	0.8089	
IroqCharges	852.5	5.3	847.2	1481.2	634.0	76	640	0	715	0.8392	
ENGPNGTS	363.0	3.6	359.4	366.0	6.6	1	312	0	312	0.8608	
ENGLNG	55.2	0.0	55.2	9333.0	9277.8	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6370.0	6370.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4392.0	4392.0	0	0	0	0	0.0000	
Dracut 30	2374.6	5.0	2369.6	10980.0	8610.4	103	4388	0	4491	1.8915	
UnionCharges	872.4	9.9	862.4	1481.2	618.8	0	140	0	140	0.1605	
Dracut 20	1210.8	2.5	1208.2	7320.0	6111.8	53	1134	0	1186	0.9797	
ENGTGPZ4	2276.7	63.5	2213.2	9150.0	6936.8	677	0	0	677	0.2976	

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2031 thru OCT 2032

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Z4toTGPLH	3943.1	33.5	3909.6	7686.0	3776.4	444	0	0	444	0.1126
Z4toStg	2755.6	9.1	2746.5	7904.1	5157.6	137	0	0	137	0.0495
Engie2CG	11.9	0.0	11.9	1064.0	1052.1	0	0	0	0	0.0335
GranBrdgPL	5711.9	12.0	5699.9	73200.0	67500.1	0	█	0	█	█
Repsol to101	4135.4	124.1	4011.3	36703.6	32692.3	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56821.5	56821.5	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2928.0	2928.0	0	0	0	0	0.0000
Engie2ENGLNG	34.2	0.0	34.2	50.0	15.8	34	0	0	34	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1700.5	0.0	1700.5	1830.0	129.5	53	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1830.0	1830.0	0	0	0	0	0.0000
Total		311.7				2020	█		█	█

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1
Report 1

NOV 2032 thru OCT 2033

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2024	JAN 19, 2033	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	213.52
Other Variable Cost	31	Carrying Cost	304			System Unserved	0.00
		Other Variable Cost	0			Total	213.52
Total Variable	██████	Total Variable	398	Total Variable	2024		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	160914
						Total Revenue	0
						Net Cost	160914

Avg Cost of Served Demand 7.752 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.714 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20758.9	0.0	20758.9	0.0	20758.9	20758.9	0.0	0	213.5	0.0
Total	20758.9	0.0	20758.9	0.0	20758.9	20758.9	0.0	0	213.5	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2373.5	18250.0	15876.5			3.3419	7932	0	7932	3.3419
ENGNiagara	1142.3	1167.3	24.9			2.9378	3356	0	3356	2.9378
ENGPNGTS	362.0	365.0	3.0			3.3849	1225	0	1225	3.3849
ENG3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.3715	15866	0	15866	2.3715
Dracut 20	2159.9	7315.4	5155.5			5.5797	12051	0	12051	5.5797
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENG Dawn	886.6	2190.0	1303.4			3.3032	2929	0	2929	3.3032

105

NOV 2032 thru OCT 2033

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0	0.0000
Repsol 40	4135.4	4135.4	0.0								
Dracut 30	1581.8	10973.0	9391.3			6.2158	9832	0	9832	6.2158	
Engie Combo	46.1	46.1	0.0								
DAWN5	1704.5	1825.0	120.5								
Total	21103.5										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	55.1	55.1	0	0.0	12	95	0.0	0	147	148	1
ENGFSMA	1498	96	1775.9	1756.9	0	19.0	1498	96	0.0	0	3501	3535	34
ENGDominion	103	100	113.4	111.2	0	2.2	103	100	0.0	0	246	249	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1597	1613	15
ENGHON	246	100	236.7	236.7	0	0.0	246	100	0.0	0	567	573	5
Total	2530	98	2904.8	2877.9	0	26.9	2530	98	5.7	0	6218	6277	59

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2373.5	0.0	2373.5	7882.5	5509.1	0	5043	0	5043	2.1249	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6106.2	0.0	6106.2	8698.1	2591.8	0	0	0	0	0.0000	
ENGTGPBND	1142.3	7.1	1135.3	1139.5	4.3	98	267	0	365	0.3194	
ENGTGPShort	2817.1	23.9	2793.2	10262.0	7468.8	317	2688	0	3005	1.0667	
TrCanCharges	876.5	10.1	866.4	1477.2	610.7	0	698	0	698	0.7959	
IroqCharges	866.4	5.4	861.1	1477.2	616.1	77	640	0	717	0.8271	
ENGPNGTS	362.0	3.6	358.4	365.0	6.6	1	312	0	312	0.8631	
ENGLNG	55.1	0.0	55.1	9307.5	9252.4	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	2468.3	5.2	2463.1	10950.0	8486.9	107	4388	0	4495	1.8213	
UnionCharges	886.6	10.1	876.5	1477.2	600.6	0	140	0	140	0.1579	
Dracut 20	1273.3	2.7	1270.6	7300.0	6029.4	55	1134	0	1189	0.9338	
ENGTGPZ4	2266.3	63.2	2203.2	9125.0	6921.8	674	0	0	674	0.2976	

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2032 thru OCT 2033

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary										
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Z4toTGPLH	3936.6	33.5	3903.1	7665.0	3761.9	443	0	0	443	0.1126
Z4toStg	2753.8	9.1	2744.8	7882.5	5137.8	136	0	0	136	0.0495
Engie2CG	12.0	0.0	12.0	1057.0	1045.0	0	0	0	0	0.0335
GranBrdgPL	5715.9	12.0	5703.9	73000.0	67296.1	0	█	0	█	█
Repsol to101	4135.4	124.1	4011.3	36603.3	32592.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	34.1	0.0	34.1	50.0	15.9	34	0	0	34	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1704.5	0.0	1704.5	1825.0	120.5	53	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		312.0				2024	█		█	█

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:51:42

NOV 2033 thru OCT 2034

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2034	JAN 19, 2034	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	215.84
Other Variable Cost	31	Carrying Cost	308			System Unserved	0.00
		Other Variable Cost	0			Total	215.84
Total Variable	██████	Total Variable	402	Total Variable	2034		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	163069
						Total Revenue	0
						Net Cost	163069

Avg Cost of Served Demand 7.776 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.757 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20970.2	0.0	20970.2	0.0	20970.2	20970.2	0.0	0	215.8	0.0
Total	20970.2	0.0	20970.2	0.0	20970.2	20970.2	0.0	0	215.8	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2376.6	18250.0	15873.4			3.3751	8021	0	8021	3.3751
ENGNiagara	1142.7	1167.3	24.6			2.9671	3391	0	3391	2.9671
ENGPNGTS	362.0	365.0	3.0			3.4187	1238	0	1238	3.4187
ENG3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.3952	16025	0	16025	2.3952
Dracut 20	2163.3	7315.4	5152.1			5.6509	12225	0	12225	5.6509
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENG Dawn	904.6	2190.0	1285.4			3.3304	3013	0	3013	3.3304

264

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2033 thru OCT 2034

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0.0000	
Repsol 40	4135.4	4135.4	0.0								
Dracut 30	1761.9	10973.0	9211.2			6.3530	11193	0	11193	6.3530	
Engie Combo	46.1	46.1	0.0								
DAWN5	1711.9	1825.0	113.1								
Total	21315.8										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	55.1	55.1	0	0.0	12	95	0.0	0	148	149	2
ENGFSMA	1498	96	1775.3	1756.3	0	19.0	1498	96	0.0	0	3535	3570	35
ENGDominion	103	100	113.4	111.2	0	2.2	103	100	0.0	0	249	251	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1613	1628	15
ENGHON	246	100	237.3	237.3	0	0.0	246	100	0.0	0	573	578	6
Total	2530	98	2904.8	2877.9	0	26.9	2530	98	5.7	0	6277	6337	60

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2376.6	0.0	2376.6	7882.5	5506.0	0	5043	0	5043	2.1221	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6109.3	0.0	6109.3	8698.1	2588.8	0	0	0	0	0.0000	
ENGTGPBND	1142.7	7.1	1135.6	1139.5	3.9	98	267	0	365	0.3193	
ENGTGPShort	2817.1	23.9	2793.2	10262.0	7468.8	317	2688	0	3005	1.0667	
TrCanCharges	894.3	10.3	884.0	1477.2	593.1	0	698	0	698	0.7800	
IroqCharges	884.0	5.5	878.5	1477.2	598.6	78	640	0	718	0.8124	
ENGPNGTS	362.0	3.6	358.4	365.0	6.6	1	312	0	312	0.8631	
ENGLNG	55.1	0.0	55.1	9307.5	9252.4	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	2714.1	5.7	2708.4	10950.0	8241.6	118	4388	0	4506	1.6603	
UnionCharges	904.6	10.3	894.3	1477.2	582.9	0	140	0	140	0.1548	
Dracut 20	1211.1	2.5	1208.6	7300.0	6091.4	53	1134	0	1186	0.9795	
ENGTGPZ4	2269.4	63.3	2206.2	9125.0	6918.8	675	0	0	675	0.2976	

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2033 thru OCT 2034

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Z4toTGPLH	3936.6	33.5	3903.1	7665.0	3761.9	443	0	0	443	0.1126
Z4toStg	2753.8	9.1	2744.8	7882.5	5137.8	136	0	0	136	0.0495
Engie2CG	12.0	0.0	12.0	1057.0	1045.0	0	0	0	0	0.0335
GranBrdgPL	5723.2	12.0	5711.2	73000.0	67288.8	0	█	0	█	█
Repsol to101	4135.4	124.1	4011.3	36603.3	32592.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	34.1	0.0	34.1	50.0	15.9	34	0	0	34	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN2CPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1711.9	0.0	1711.9	1825.0	113.1	53	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		313.0				2034	█		█	█

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:51:42

NOV 2034 thru OCT 2035

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2044	JAN 19, 2035	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	217.91
Other Variable Cost	31	Carrying Cost	311			System Unserved	0.00
		Other Variable Cost	0			Total	217.91
Total Variable	██████	Total Variable	405	Total Variable	2044		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	165117
						Total Revenue	0
						Net Cost	165117

Avg Cost of Served Demand 7.804 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.801 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21158.1	0.0	21158.1	0.0	21158.1	21158.1	0.0	0	217.9	0.0
Total	21158.1	0.0	21158.1	0.0	21158.1	21158.1	0.0	0	217.9	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2379.4	18250.0	15870.6			3.4087	8110	0	8110	3.4087
ENGNiagara	1143.0	1167.3	24.2			2.9967	3425	0	3425	2.9967
ENGPNGTS	362.0	365.0	3.0			3.4529	1250	0	1250	3.4529
ENG3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.4191	16185	0	16185	2.4191
Dracut 20	2259.5	7315.4	5055.9			5.5150	12461	0	12461	5.5150
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
DLiqSummer	21.0	21.0	0.0							
ENG Dawn	920.4	2190.0	1269.6			3.3589	3091	0	3091	3.3589

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2034 thru OCT 2035

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary												
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost		
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0	0.0000	
Repsol 40	4135.4	4135.4	0.0									
Dracut 30	1829.6	10973.0	9143.4			6.7752	12396	0	12396	6.7752		
Engie Combo	46.1	46.1	0.0									
DAWN5	1717.8	1825.0	107.2									
Total	21504.6											

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	55.1	55.1	0	0.0	12	95	0.0	0	149	151	1
ENGFSMA	1498	96	1775.3	1756.3	0	19.0	1498	96	0.0	0	3570	3605	35
ENGDominion	103	100	112.8	110.6	0	2.2	103	100	0.0	0	251	254	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1628	1643	15
ENGHON	246	100	237.3	237.3	0	0.0	246	100	0.0	0	578	584	6
Total	2530	98	2904.2	2877.3	0	26.9	2530	98	5.7	0	6337	6397	60

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2379.4	0.0	2379.4	7882.5	5503.2	0	5043	0	5043	2.1196	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6112.6	0.0	6112.6	8698.1	2585.5	0	0	0	0	0.0000	
ENGTGPBND	1143.0	7.1	1135.9	1139.5	3.6	98	267	0	365	0.3192	
ENGTGPShort	2816.5	23.9	2792.6	10262.0	7469.4	317	2688	0	3005	1.0669	
TrCanCharges	909.9	10.5	899.4	1477.2	577.7	0	698	0	698	0.7667	
IroqCharges	899.4	5.6	893.9	1477.2	583.3	80	640	0	720	0.8000	
ENGPNGTS	362.0	3.6	358.4	365.0	6.6	1	312	0	312	0.8631	
ENGLNG	55.1	0.0	55.1	9307.5	9252.4	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	2696.1	5.7	2690.4	10950.0	8259.6	117	4388	0	4505	1.6711	
UnionCharges	920.4	10.5	909.9	1477.2	567.3	0	140	0	140	0.1521	
Dracut 20	1393.1	2.9	1390.1	7300.0	5909.9	60	1134	0	1194	0.8572	
ENGTGPZ4	2272.2	63.3	2208.9	9125.0	6916.1	676	0	0	676	0.2976	

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2034 thru OCT 2035

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Z4toTGPLH	3937.2	33.5	3903.7	7665.0	3761.3	443	0	0	443	0.1126
Z4toStg	2753.2	9.1	2744.2	7882.5	5138.4	136	0	0	136	0.0495
Engie2CG	12.0	0.0	12.0	1057.0	1045.0	0	0	0	0	0.0335
GranBrdgPL	5729.1	12.0	5717.1	73000.0	67282.9	0	█	0	█	█
Repsol to101	4135.4	124.1	4011.3	36603.3	32592.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	34.1	0.0	34.1	50.0	15.9	34	0	0	34	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN2CPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1717.8	0.0	1717.8	1825.0	107.2	53	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		313.9				2044	█		█	█

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:51:42

NOV 2035 thru OCT 2036

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2060	JAN 19, 2036	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	219.62
Other Variable Cost	32	Carrying Cost	314			System Unserved	0.00
		Other Variable Cost	0			Total	219.62
Total Variable	██████	Total Variable	408	Total Variable	2060		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	167419
						Total Revenue	0
						Net Cost	167419

Avg Cost of Served Demand 7.824 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.841 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21399.4	0.0	21399.4	0.0	21399.4	21399.4	0.0	0	219.6	0.0
Total	21399.4	0.0	21399.4	0.0	21399.4	21399.4	0.0	0	219.6	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2395.2	18300.0	15904.8			3.4431	8247	0	8247	3.4431
ENGNiagara	1146.5	1170.5	24.0			3.0275	3471	0	3471	3.0275
ENGPNGTS	363.0	366.0	3.0			3.4947	1269	0	1269	3.4947
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6698.7	6698.7	0.0			2.4439	16371	0	16371	2.4439
Dracut 20	2316.3	7335.4	5019.1			5.7770	13381	0	13381	5.7770
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENGDawn	940.6	2196.0	1255.4			3.3885	3187	0	3187	3.3885

NO

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2035 thru OCT 2036

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary												
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost		
DAWN	0.0	54900.0	54900.0			0.0000	0	0	0	0	0.0000	
Repsol 40	4135.4	4135.4	0.0									
Dracut 30	1956.5	11003.1	9046.6			6.6660	13042	0	13042	6.6660		
Engie Combo	46.1	46.1	0.0									
DAWN5	1728.1	1830.0	101.9									
Total	21747.5											

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	55.2	55.2	0	0.0	12	95	0.0	0	151	152	1
ENGFSMA	1498	96	1775.3	1756.3	0	19.0	1498	96	0.0	0	3605	3640	36
ENGDominion	103	100	113.4	111.2	0	2.2	103	100	0.0	0	254	256	3
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1643	1659	15
ENGHON	246	100	237.3	237.3	0	0.0	246	100	0.0	0	584	590	6
Total	2530	98	2905.0	2878.0	0	26.9	2530	98	5.7	0	6397	6457	61

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2395.2	0.0	2395.2	7904.1	5508.9	0	5043	0	5043	2.1055	
ENGTGP2Stg	107.1	2.2	105.0	7904.1	7799.2	28	0	0	28	0.2572	
ENGTGPLong	6135.6	0.0	6135.6	8719.7	2584.1	0	0	0	0	0.0000	
ENGTGPBND	1146.5	7.1	1139.4	1142.7	3.3	98	267	0	365	0.3185	
ENGTGPShort	2817.1	23.9	2793.2	10290.1	7496.9	317	2688	0	3005	1.0667	
TrCanCharges	929.9	10.7	919.2	1481.2	562.0	0	698	0	698	0.7502	
IroqCharges	919.2	5.7	913.5	1481.2	567.7	82	640	0	721	0.7847	
ENGPNGTS	363.0	3.6	359.4	366.0	6.6	1	312	0	312	0.8608	
ENGLNG	55.2	0.0	55.2	9333.0	9277.8	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6370.0	6370.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4392.0	4392.0	0	0	0	0	0.0000	
Dracut 30	2883.3	6.1	2877.2	10980.0	8102.8	125	4388	0	4513	1.5654	
UnionCharges	940.6	10.7	929.9	1481.2	551.3	0	140	0	140	0.1488	
Dracut 20	1389.5	2.9	1386.6	7320.0	5933.4	60	1134	0	1194	0.8593	
ENGTGPZ4	2288.1	63.8	2224.3	9150.0	6925.7	681	0	0	681	0.2976	

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2035 thru OCT 2036

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Z4toTGPLH	3944.9	33.5	3911.3	7686.0	3774.7	444	0	0	444	0.1126
Z4toStg	2753.8	9.1	2744.8	7904.1	5159.4	136	0	0	136	0.0495
Engie2CG	11.9	0.0	11.9	1064.0	1052.1	0	0	0	0	0.0335
GranBrdgPL	5739.5	12.1	5727.4	73200.0	67472.6	0	█	0	█	█
Repsol to101	4135.4	124.1	4011.3	36703.6	32692.3	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56821.5	56821.5	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2928.0	2928.0	0	0	0	0	0.0000
Engie2ENGLNG	34.2	0.0	34.2	50.0	15.8	34	0	0	34	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1728.1	0.0	1728.1	1830.0	101.9	53	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1830.0	1830.0	0	0	0	0	0.0000
Total		315.5				2060	█		█	█

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:51:42

NOV 2036 thru OCT 2037

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	█	Injection Cost	48	Transportation Cost	2061	JAN 19, 2037	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	221.46
Other Variable Cost	32	Carrying Cost	318			System Unserved	0.00
		Other Variable Cost	0			Total	221.46
Total Variable	█	Total Variable	412	Total Variable	2061		
Demand/Reservation Co	█	Demand Cost	█	Demand Cost	█		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	█	Total Fixed	█	Total Fixed	█		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	█	Net Storage Cost	█	Net Trans Cost	█	Total Gas Cost	169011
						Total Revenue	0
						Net Cost	169011

Avg Cost of Served Demand 7.863 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.888 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21495.4	0.0	21495.4	0.0	21495.4	21495.4	0.0	0	221.5	0.0
Total	21495.4	0.0	21495.4	0.0	21495.4	21495.4	0.0	0	221.5	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2383.6	18250.0	15866.4			3.4768	8287	0	8287	3.4768
ENGNiagara	1143.6	1167.3	23.6			3.0569	3496	0	3496	3.0569
ENGPNGTS	362.0	365.0	3.0			3.5223	1275	0	1275	3.5223
ENG3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.4678	16510	0	16510	2.4678
Dracut 20	2338.4	7315.4	4977.0			5.8426	13662	0	13662	5.8426
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
DLiqSummer	21.0	21.0	0.0			█	█	█	█	█
ENG Dawn	950.4	2190.0	1239.6			3.4175	3248	0	3248	3.4175

23

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2036 thru OCT 2037

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0	0.0000
Repsol 40	4135.4	4135.4	0.0								
Dracut 30	2044.4	10973.0	8928.7			6.7842	13869	0	13869	6.7842	
Engie Combo	46.1	46.1	0.0								
DAWN5	1728.3	1825.0	96.7								
Total	21843.6										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	55.1	55.1	0	0.0	12	95	0.0	0	152	154	2
ENGFSMA	1498	96	1775.1	1756.1	0	19.0	1498	96	0.0	0	3640	3676	36
ENGDominion	103	100	112.8	110.6	0	2.2	103	100	0.0	0	256	259	2
ENGNFG	671	100	728.2	722.5	0	5.8	671	100	5.7	0	1659	1675	17
ENGHON	246	100	236.4	236.4	0	0.0	246	100	0.0	0	590	595	5
Total	2530	98	2907.5	2880.6	0	26.9	2530	98	5.7	0	6457	6519	61

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2383.6	0.0	2383.6	7882.5	5498.9	0	5043	0	5043	2.1158	
ENGTGP2Stg	111.7	2.3	109.4	7882.5	7773.1	29	0	0	29	0.2572	
ENGTGPLong	6113.4	0.0	6113.4	8698.1	2584.7	0	0	0	0	0.0000	
ENGTGPBND	1143.6	7.1	1136.5	1139.5	3.0	98	267	0	365	0.3191	
ENGTGPShort	2819.8	24.0	2795.8	10262.0	7466.2	318	2688	0	3005	1.0658	
TrCanCharges	939.6	10.8	928.7	1477.2	548.4	0	698	0	698	0.7425	
IroqCharges	928.7	5.8	923.0	1477.2	554.2	82	640	0	722	0.7776	
ENGPNGTS	362.0	3.6	358.4	365.0	6.6	1	312	0	312	0.8631	
ENGLNG	55.1	0.0	55.1	9307.5	9252.4	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENG3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	2812.3	5.9	2806.4	10950.0	8143.6	122	4388	0	4510	1.6038	
UnionCharges	950.4	10.8	939.6	1477.2	537.6	0	140	0	140	0.1473	
Dracut 20	1570.4	3.3	1567.1	7300.0	5732.9	68	1134	0	1202	0.7653	
ENGTGPZ4	2271.9	63.3	2208.6	9125.0	6916.4	676	0	0	676	0.2976	

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2036 thru OCT 2037

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Z4toTGPLH	3938.3	33.5	3904.9	7665.0	3760.1	444	0	0	444	0.1126
Z4toStg	2752.1	9.1	2743.0	7882.5	5139.6	136	0	0	136	0.0495
Engie2CG	12.0	0.0	12.0	1057.0	1045.0	0	0	0	0	0.0335
GranBrdgPL	5739.6	12.1	5727.6	73000.0	67272.4	0	█	0	█	█
Repsol to101	4135.4	124.1	4011.3	36603.3	32592.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	34.1	0.0	34.1	50.0	15.9	34	0	0	34	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5CPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1728.3	0.0	1728.3	1825.0	96.7	53	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		315.5				2061	█		█	█

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:51:42

NOV 2037 thru OCT 2038

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2070	JAN 19, 2038	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	223.32
Other Variable Cost	32	Carrying Cost	321			System Unserved	0.00
		Other Variable Cost	0			Total	223.32
Total Variable	██████	Total Variable	416	Total Variable	2070		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	171075
						Total Revenue	0
						Net Cost	171075

Avg Cost of Served Demand 7.894 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.934 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21670.7	0.0	21670.7	0.0	21670.7	21670.7	0.0	0	223.3	0.0
Total	21670.7	0.0	21670.7	0.0	21670.7	21670.7	0.0	0	223.3	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2385.7	18250.0	15864.3			3.5114	8377	0	8377	3.5114
ENGNiagara	1143.9	1167.3	23.3			3.0874	3532	0	3532	3.0874
ENGPNGTS	363.4	365.0	1.6			3.5678	1296	0	1296	3.5678
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.4924	16675	0	16675	2.4924
Dracut 20	2429.1	7315.4	4886.3			5.7952	14077	0	14077	5.7952
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENGDawn	966.3	2190.0	1223.7			3.4471	3331	0	3331	3.4471

9/2

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2037 thru OCT 2038

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0	0.0000
Repsol 40	4135.4	4135.4	0.0								
Dracut 30	2105.2	10973.0	8867.9			7.0714	14886	0	14886	7.0714	
Engie Combo	46.1	46.1	0.0								
DAWN5	1733.2	1825.0	91.8								
Total	22019.7										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	55.1	55.1	0	0.0	12	95	0.0	0	154	155	1
ENGFSMA	1498	96	1776.5	1757.5	0	19.0	1498	96	0.0	0	3676	3711	35
ENGDominion	103	100	112.2	110.0	0	2.2	103	100	0.0	0	259	261	2
ENGNFG	671	100	728.2	722.5	0	5.8	671	100	5.7	0	1675	1692	17
ENGHON	246	100	237.1	237.1	0	0.0	246	100	0.0	0	595	601	6
Total	2530	98	2909.0	2882.1	0	26.9	2530	98	5.7	0	6519	6580	62

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2385.7	0.0	2385.7	7882.5	5496.8	0	5043	0	5043	2.1139	
ENGTGP2Stg	113.9	2.3	111.5	7882.5	7771.0	29	0	0	29	0.2572	
ENGTGPLong	6114.0	0.0	6114.0	8698.1	2584.1	0	0	0	0	0.0000	
ENGTGPBND	1143.9	7.1	1136.8	1139.5	2.7	98	267	0	365	0.3190	
ENGTGPShort	2821.3	24.0	2797.3	10262.0	7464.7	318	2688	0	3005	1.0653	
TrCanCharges	955.3	11.0	944.3	1477.2	532.8	0	698	0	698	0.7302	
IroqCharges	944.3	5.9	938.5	1477.2	538.7	84	640	0	724	0.7662	
ENGPNGTS	363.4	3.6	359.7	365.0	5.3	1	312	0	312	0.8599	
ENGLNG	55.1	0.0	55.1	9307.5	9252.4	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENG3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	3083.3	6.5	3076.8	10950.0	7873.2	134	4388	0	4522	1.4667	
UnionCharges	966.3	11.0	955.3	1477.2	521.8	0	140	0	140	0.1449	
Dracut 20	1451.0	3.0	1447.9	7300.0	5852.1	63	1134	0	1197	0.8247	
ENGTGPZ4	2271.9	63.3	2208.5	9125.0	6916.5	676	0	0	676	0.2976	

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2037 thru OCT 2038

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
Z4toTGPLH	3938.9	33.5	3905.5	7665.0	3759.5	444	0	0	444	0.1126	
Z4toStg	2751.5	9.1	2742.4	7882.5	5140.2	136	0	0	136	0.0495	
Engie2CG	12.0	0.0	12.0	1057.0	1045.0	0	0	0	0	0.0335	
GranBrdgPL	5744.5	12.1	5732.5	73000.0	67267.5	0	█	0	█	█	
Repsol to101	4135.4	124.1	4011.3	36603.3	32592.0	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000	
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000	
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000	
Engie2ENGLNG	34.1	0.0	34.1	50.0	15.9	34	0	0	34	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	1733.2	0.0	1733.2	1825.0	91.8	54	█	0	█	█	
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000	
Total		316.4				2070	█		█	█	

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:51:42

NOV 2038 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2079	JAN 19, 2039	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	225.31
Other Variable Cost	33	Carrying Cost	323			System Unserved	0.00
		Other Variable Cost	0			Total	225.31
Total Variable	██████	Total Variable	417	Total Variable	2079		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	173218
						Total Revenue	0
						Net Cost	173218

Avg Cost of Served Demand 7.926 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.985 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21855.0	0.0	21855.0	0.0	21855.0	21855.0	0.0	0	225.3	0.0
Total	21855.0	0.0	21855.0	0.0	21855.0	21855.0	0.0	0	225.3	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2387.4	18250.0	15862.6			3.5463	8467	0	8467	3.5463
ENGNiagara	1144.3	1167.3	23.0			3.1183	3568	0	3568	3.1183
ENGPNGTS	364.0	365.0	1.0			3.6081	1313	0	1313	3.6081
ENG3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.5174	16842	0	16842	2.5174
Dracut 20	2526.1	7315.4	4789.3			5.9431	15013	0	15013	5.9431
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENG Dawn	967.3	2190.0	1222.7			3.4815	3368	0	3368	3.4815

6/2

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2038 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0.0000	
Repsol 40	4135.4	4135.4	0.0								
Dracut 30	2168.7	10973.0	8804.3			7.1539	15515	0	15515	7.1539	
Engie Combo	46.1	46.1	0.0								
DAWN5	1738.2	1825.0	86.8								
Total	22188.8										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	54.9	54.9	0	0.0	12	95	0.0	0	155	157	1
ENGFSMA	1498	96	1759.9	1756.7	0	18.8	1482	95	0.0	-16	3711	3709	-2
ENGDominion	103	100	112.2	110.0	0	2.2	103	100	0.0	0	261	264	3
ENGNFG	671	100	728.2	722.5	0	5.8	671	100	5.7	0	1692	1708	15
ENGHON	246	100	239.7	239.7	0	0.0	246	100	0.0	0	601	607	6
Total	2530	98	2895.0	2883.8	0	26.8	2514	97	5.7	-16	6580	6604	23

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2387.4	0.0	2387.4	7882.5	5495.2	0	5043	0	5043	2.1125	
ENGTGP2Stg	115.8	2.4	113.4	7882.5	7769.1	30	0	0	30	0.2572	
ENGTGPLong	6129.4	0.0	6129.4	8698.1	2568.7	0	0	0	0	0.0000	
ENGTGPBND	1144.3	7.1	1137.2	1139.5	2.4	98	267	0	365	0.3190	
ENGTGPShort	2823.1	24.0	2799.2	10262.0	7462.8	318	2688	0	3006	1.0646	
TrCanCharges	956.3	11.0	945.3	1477.2	531.9	0	698	0	698	0.7295	
IroqCharges	945.3	5.9	939.4	1477.2	537.7	84	640	0	724	0.7655	
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584	
ENGLNG	54.9	0.0	54.9	9307.5	9252.6	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	3116.9	6.5	3110.3	10950.0	7839.7	135	4388	0	4524	1.4513	
UnionCharges	967.3	11.0	956.3	1477.2	520.9	0	140	0	140	0.1447	
Dracut 20	1577.9	3.3	1574.6	7300.0	5725.4	68	1134	0	1202	0.7619	
ENGTGPZ4	2271.6	63.3	2208.3	9125.0	6916.7	676	0	0	676	0.2976	

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:51:42

NOV 2038 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total	Fuel	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
	Flow	Consumed								
Z4toTGPLH	3954.8	33.6	3921.1	7665.0	3743.9	445	0	0	445	0.1126
Z4toStg	2735.6	9.0	2726.6	7882.5	5155.9	136	0	0	136	0.0495
Engie2CG	12.2	0.0	12.2	1057.0	1044.8	0	0	0	0	0.0335
GranBrdgPL	5749.5	12.1	5737.4	73000.0	67262.6	0	█	0	█	█
Repsol to101	4135.4	124.1	4011.3	36603.3	32592.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	33.9	0.0	33.9	50.0	16.1	34	0	0	34	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN2CPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1738.2	0.0	1738.2	1825.0	86.8	54	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		316.9				2079	█		█	█

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1z 07-Mar-2019
Report 1z 18:51:42

NOV 2018 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████████	Injection Cost	1006	Transportation Cost	42525	JAN 19, 2039	
Penalty Cost	0	Withdrawal Cost	971	Other Variable Cost	0	System Served	225.31
Other Variable Cost	1872	Carrying Cost	5979			System Unserved	0.00
		Other Variable Cost	0			Total	225.31
Total Variable	████████	Total Variable	7956	Total Variable	42525		
Demand/Reservation Co	████████	Demand Cost	████████	Demand Cost	████████		
Other Fixed Cost	12401	Other Fixed Cost	20435	Other Fixed Cost	0		
Total Fixed	████████	Total Fixed	████████	Total Fixed	████████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████████	Net Storage Cost	████████	Net Trans Cost	████████	Total Gas Cost	2978425
						Total Revenue	0
						Net Cost	2978425

Avg Cost of Served Demand 7.334 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.342 USD/DT
(Supply Cost/LDC Purchase)

Class	Demand Summary					Served	Unserved	Revenue	Peak Served	Peak Unserved
	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.					
ENGINormal	406135.6	0.0	406135.6	0.0	406135.6	406135.6	0.0	0	225.3	0.0
Total	406135.6	0.0	406135.6	0.0	406135.6	406135.6	0.0	0	225.3	0.0

Source	Supply Summary			Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
	Total Take	Max Take	Surplus							
ENGUSGC	49610.7	383500.0	333889.3			3.1415	155853	0	155853	3.1415
ENGNiagara	23412.0	24528.7	1116.7			2.7363	64063	0	64063	2.7363
ENGPNGTS	7259.5	7670.0	410.5			3.1612	22949	0	22949	3.1612
ENGC3Winter	367.0	1926.6	1559.6			15.0000	5505	0	5505	15.0000
ENG-Z4	140526.9	140539.9	13.0			2.1594	303459	0	303459	2.1594
DLiqWinter	1000.0	1000.0	0.0							
Dracut 20	41400.4	153722.8	112322.4			5.9108	244710	0	244710	5.9108
ENGC3Summer	207.3	1962.6	1755.3			10.0000	2073	0	2073	10.0000
DLiqSummer	441.0	441.0	0.0							

NOV 2018 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
ENGDawn	17615.9	46020.0	28404.1			3.1529	55541	0	55541	3.1529	
DAWN	0.0	931350.0	931350.0			0.0000	0	0	0	0.0000	
Repsol 40	70301.6	70301.6	0.0								
Dracut 30	26238.6	230584.2	204345.6			6.5233	171162	0	171162	6.5233	
Engie Combo	3303.8	3303.8	0.0								
DAWN5	31005.2	36968.3	5963.1								
Total	412689.8										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	2221.1	2221.7	0	0.0	12	95	0.0	-1	126	157	31
ENGPropane	77	100	574.3	651.0	0	0.0	0	0	0.0	-77	953	160	-793
ENGFSMA	1482	95	37249.3	36850.7	0	398.6	1482	95	0.0	0	2573	3709	1136
ENGDominion	103	100	2378.4	2332.0	0	46.4	103	100	0.0	0	178	264	85
ENGNFG	671	100	15200.3	15080.2	0	120.1	671	100	119.1	0	1164	1708	544
ENGHON	246	100	5003.2	5003.2	0	0.0	246	100	0.0	0	427	607	179
Total	2591	97	62626.6	62138.9	0	565.0	2514	94	119.1	-77	5422	6604	1182

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	49610.7	0.0	49610.7	165641.3	116030.6	0	105908	0	105908	2.1348		
ENGTGP2Stg	2207.9	45.1	2162.7	165641.3	163478.6	568	0	0	568	0.2572		
ENGTGPLong	128046.5	0.0	128046.5	182768.0	54721.5	0	0	0	0	0.0000		
ENGTGPBND	23412.0	145.2	23266.9	23945.7	678.9	1999	5614	0	7612	0.3251		
ENGTGPShort	59147.0	502.7	58644.3	215642.1	156997.8	6662	56441	0	63103	1.0669		
TrCanCharges	17415.2	200.3	17214.9	31040.5	13825.5	0	14649	0	14649	0.8412		
IroqCharges	17214.9	106.7	17108.2	31040.5	13932.3	1528	13435	0	14962	0.8692		
ENGPNGTS	7259.5	72.6	7186.9	7670.0	483.1	13	6548	0	6561	0.9038		
ENGLNG	2221.7	0.0	2221.7	195585.0	193363.3	0	0	0	0	0.0000		
ENGPropane	651.0	0.0	651.0	133210.0	132559.0	0	0	0	0	0.0000		
ENG3Truck	574.3	0.0	574.3	92040.0	91465.7	574	0	0	574	1.0000		
Dracut 30	43966.5	92.3	43874.2	230100.0	186225.8	1909	92155	0	94063	2.1394		
UnionCharges	17615.9	200.6	17415.2	31040.5	13625.3	0	2940	0	2940	0.1669		

Scen 1522 AC Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1z 07-Mar-2019
Report 1z (Continued) 18:51:42

NOV 2018 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Dracut 20	26892.2	56.5	26835.8	153400.0	126564.2	1167	23807	0	24975	0.9287
ENGTGPZ4	47402.9	1321.2	46081.7	191750.0	145668.3	14106	0	0	14106	0.2976
Z4toTGPLH	82667.5	702.7	81964.8	161070.0	79105.2	9311	0	0	9311	0.1126
Z4toStg	57859.4	190.9	57668.5	165641.3	107972.8	2866	0	0	2866	0.0495
Engie2CG	2523.7	0.0	2523.7	22232.0	19708.3	85	0	0	85	0.0335
GranBrdgPL	95978.0	201.6	95776.5	1241800.0	1146023.5	0	█	0	█	█
Repsol to101	70301.6	2109.0	68192.5	622658.0	554465.5	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	158800.0	158800.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	1190767.5	1190767.5	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	61360.0	61360.0	0	0	0	0	0.0000
Engie2ENGLNG	780.1	0.0	780.1	1050.0	269.9	780	0	0	780	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWNTCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	27785.5	0.0	27785.5	36968.3	9182.8	859	█	0	█	█
DAWN5Dracut	3219.7	0.0	3219.7	36968.3	33748.6	99	0	0	99	0.0309
Total		5947.5				42525	█		█	█

RESOURCE MIX RESULTS

Units: MDT

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	Contract	Start Date	End Date	Min Level	Max Level	Result MDQ
	-----	-----	-----	-----	-----	-----
Supplies	DAWN	NOV 2022	OCT 2039	0.00	150.00	150.00
	Repsol 40	NOV 2022	OCT 2039	0.00	150.00	103.38
	Engie Combo	NOV 2022	OCT 2039	0.00	7.00	0.51

	Contract	Start Date	End Date	Min Level	Max Level	Result MDQ
	-----	-----	-----	-----	-----	-----
Segments	Repsol to101	NOV 2022	OCT 2039	0.00	150.00	100.28
	Dawn2Dracut	NOV 2022	OCT 2039	0.00	150.00	0.00
	DAWNTCPL	NOV 2022	OCT 2039	0.00	150.00	0.00
	PNGTS2RT101	NOV 2022	OCT 2039	0.00	150.00	0.00

Scen 1516 ACS Supplemental
- Draw 0

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SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:56:18

NOV 2018 thru OCT 2019

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2117	JAN 19, 2019	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	164.57
Other Variable Cost	339	Carrying Cost	313			System Unserved	0.00
		Other Variable Cost	0			Total	164.57
Total Variable	██████	Total Variable	407	Total Variable	2117		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	2660	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	86685
						Total Revenue	0
						Net Cost	86685

Avg Cost of Served Demand 5.690 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.272 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	15235.4	0.0	15235.4	0.0	15235.4	15235.4	0.0	0	164.6	0.0
Total	15235.4	0.0	15235.4	0.0	15235.4	15235.4	0.0	0	164.6	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2339.8	18250.0	15910.2			3.0798	7206	0	7206	3.0798
ENGNiagara	910.8	1167.3	256.4			2.8024	2553	0	2553	2.8024
ENGPNGTS	289.4	365.0	75.6			3.3231	962	0	962	3.3231
ENGC3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6684.0	6690.4	6.4			2.1110	14110	0	14110	2.1110
DLiqWinter	250.0	250.0	0.0							
Dracut 20	2344.4	7315.4	4971.0			7.6924	18034	0	18034	7.6924
ENGC3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DLiqSummer	21.0	21.0	0.0							

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2018 thru OCT 2019

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	713.9	2190.0	1476.1			3.2953	2353	0	2353	3.2953
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	771.0	10973.0	10202.0			9.5667	7376	0	7376	9.5667
Engie Combo	630.0	630.0	0.0							
DAWN5	334.7	651.2	316.5							
Total	15449.9									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	321.0	321.6	0	0.0	12	95	0.0	-1	126	131	5
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	953	1043	90
ENGFSMA	1482	95	1770.4	1735.8	0	18.9	1498	96	0.0	16	2573	3080	507
ENGDominion	103	100	112.4	110.2	0	2.2	103	100	0.0	0	178	220	41
ENGNFG	671	100	720.9	715.2	0	5.7	671	100	5.6	0	1164	1391	227
ENGHON	246	100	237.2	237.2	0	0.0	246	100	0.0	0	427	488	61
Total	2591	97	3322.7	3280.9	0	26.8	2606	98	5.6	15	5422	6352	931

Transportation Summary													
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost			
ENGTGPProd	2339.8	0.0	2339.8	7882.5	5542.7	0	5043	0	5043	2.1554			
ENGTGP2Stg	97.5	2.0	95.5	7882.5	7787.0	25	0	0	25	0.2572			
ENGTGPLong	6076.0	0.0	6076.0	8698.1	2622.1	0	0	0	0	0.0000			
ENGTGPBND	910.8	5.6	905.2	1139.5	234.3	78	267	0	345	0.3789			
ENGTGPShort	2792.8	23.7	2769.0	10262.0	7492.9	315	2688	0	3002	1.0750			
TrCanCharges	705.8	8.1	697.7	1477.2	779.5	0	698	0	698	0.9883			
IroqCharges	697.7	4.3	693.4	1477.2	783.8	62	640	0	702	1.0057			
ENGPNGTS	289.4	2.9	286.5	365.0	78.5	1	312	0	312	1.0793			
ENGLNG	321.6	0.0	321.6	9307.5	8985.9	0	0	0	0	0.0000			
ENGPropane	160.8	0.0	160.8	6335.0	6174.2	0	0	0	0	0.0000			
ENGC3Truck	160.8	0.0	160.8	4380.0	4219.2	161	0	0	161	1.0000			
Dracut 30	847.7	1.8	845.9	10950.0	10104.1	37	4388	0	4425	5.2202			
UnionCharges	713.9	8.1	705.8	1477.2	771.3	0	140	0	140	0.1961			

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2018 thru OCT 2019

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Dracut 20	2602.4	5.5	2596.9	7300.0	4703.1	113	1134	0	1247	0.4790
ENGTGPZ4	2242.3	62.5	2179.8	9125.0	6945.2	667	0	0	667	0.2976
Z4toTGPLH	3929.6	33.4	3896.2	7665.0	3768.8	443	0	0	443	0.1126
Z4toStg	2754.4	9.1	2745.3	7882.5	5137.2	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWNTCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	0.0	0.0	0.0	651.2	651.2	0	█	0	█	0.0000
DAWN5Dracut	334.7	0.0	334.7	651.2	316.5	10	0	0	10	0.0309
Total		167.1				2117	█		█	0.6503

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:56:18

NOV 2019 thru OCT 2020

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2148	JAN 19, 2020	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	167.64
Other Variable Cost	340	Carrying Cost	315			System Unserved	0.00
		Other Variable Cost	0			Total	167.64
Total Variable	██████	Total Variable	409	Total Variable	2148		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	2686	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	85087
						Total Revenue	0
						Net Cost	85087

Avg Cost of Served Demand 5.437 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.951 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	15648.5	0.0	15648.5	0.0	15648.5	15648.5	0.0	0	167.6	0.0
Total	15648.5	0.0	15648.5	0.0	15648.5	15648.5	0.0	0	167.6	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2326.3	18300.0	15973.7			2.8332	6591	0	6591	2.8332
ENGNiagara	959.2	1170.5	211.3			2.3512	2255	0	2255	2.3512
ENGPNGTS	342.9	366.0	23.1			2.9378	1007	0	1007	2.9378
ENGC3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6694.2	6698.7	4.5			1.8996	12716	0	12716	1.8996
DLiqWinter	250.0	250.0	0.0							
Dracut 20	2247.8	7335.4	5087.6			7.5821	17043	0	17043	7.5821
ENGC3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DLiqSummer	21.0	21.0	0.0							

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2019 thru OCT 2020

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	726.0	2196.0	1470.0			2.8725	2085	0	2085	2.8725
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	656.1	11003.1	10347.0			9.8261	6447	0	6447	9.8261
Engie Combo	630.0	630.0	0.0							
DAWN5	835.3	1622.1	786.9							
Total	15849.6									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	321.0	321.0	0	0.0	12	95	0.0	0	131	126	-4
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1043	1043	0
ENGFSMA	1498	96	1762.8	1743.9	0	18.9	1498	96	0.0	0	3080	2829	-251
ENGDominion	103	100	111.7	109.5	0	2.2	103	100	0.0	0	220	204	-16
ENGNFG	671	100	720.9	715.2	0	5.7	671	100	5.6	0	1391	1279	-112
ENGHON	246	100	240.4	240.4	0	0.0	246	100	0.0	0	488	458	-30
Total	2606	98	3317.6	3290.9	0	26.7	2606	98	5.6	0	6352	5939	-413

Transportation Summary													
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost			
ENGTGPProd	2326.3	0.0	2326.3	7904.1	5577.9	0	5043	0	5043	2.1680			
ENGTGP2Stg	94.1	1.9	92.2	7904.1	7812.0	24	0	0	24	0.2572			
ENGTGPLong	6078.0	0.0	6078.0	8719.7	2641.7	0	0	0	0	0.0000			
ENGTGPBND	959.2	5.9	953.2	1142.7	189.4	82	267	0	349	0.3641			
ENGTGPShort	2803.4	23.8	2779.6	10290.1	7510.5	316	2688	0	3003	1.0714			
TrCanCharges	717.7	8.3	709.5	1481.2	771.7	0	698	0	698	0.9720			
IroqCharges	709.5	4.4	705.1	1481.2	776.1	63	640	0	703	0.9905			
ENGPNGTS	342.9	3.4	339.4	366.0	26.6	1	312	0	312	0.9112			
ENGLNG	321.0	0.0	321.0	9333.0	9012.0	0	0	0	0	0.0000			
ENGPropane	160.8	0.0	160.8	6370.0	6209.2	0	0	0	0	0.0000			
ENGC3Truck	160.8	0.0	160.8	4392.0	4231.2	161	0	0	161	1.0000			
Dracut 30	983.7	2.1	981.7	10980.0	9998.3	43	4388	0	4431	4.5043			
UnionCharges	726.0	8.3	717.7	1481.2	763.5	0	140	0	140	0.1929			

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2019 thru OCT 2020

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Dracut 20	2755.4	5.8	2749.7	7320.0	4570.3	120	1134	0	1253	0.4548
ENGTGPZ4	2232.2	62.2	2170.0	9150.0	6980.0	664	0	0	664	0.2976
Z4toTGPLH	3941.5	33.5	3908.0	7686.0	3778.0	444	0	0	444	0.1126
Z4toStg	2752.7	9.1	2743.6	7904.1	5160.5	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1064.0	484.0	19	0	0	19	0.0335
GranBrdgPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56821.5	56821.5	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2928.0	2928.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	0.0	0.0	0.0	1622.1	1622.1	0	█	0	█	0.0000
DAWN5Dracut	835.3	0.0	835.3	1622.1	786.9	26	0	0	26	0.0309
Total		168.7				2148	█		█	0.6903

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:56:18

NOV 2020 thru OCT 2021

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2177	JAN 19, 2021	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	168.94
Other Variable Cost	340	Carrying Cost	299			System Unserved	0.00
		Other Variable Cost	0			Total	168.94
Total Variable	██████	Total Variable	393	Total Variable	2177		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	2711	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	86224
						Total Revenue	0
						Net Cost	86224

Avg Cost of Served Demand 5.339 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.875 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	16150.3	0.0	16150.3	0.0	16150.3	16150.3	0.0	0	168.9	0.0
Total	16150.3	0.0	16150.3	0.0	16150.3	16150.3	0.0	0	168.9	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2319.6	18250.0	15930.4			2.6954	6252	0	6252	2.6954
ENGNiagara	1065.6	1167.3	101.7			2.2282	2374	0	2374	2.2282
ENGPNGTS	343.6	365.0	21.4			2.8407	976	0	976	2.8407
ENGC3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6689.1	6690.4	1.3			1.8040	12067	0	12067	1.8040
DLiqWinter	250.0	250.0	0.0							
Dracut 20	2219.2	7315.4	5096.2			7.5053	16656	0	16656	7.5053
ENGC3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DLiqSummer	21.0	21.0	0.0							

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2020 thru OCT 2021

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	731.0	2190.0	1459.0			2.7187	1987	0	1987	2.7187
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	934.8	10973.0	10038.2			8.9998	8413	0	8413	8.9998
Engie Combo	630.0	630.0	0.0							
DAWN5	988.6	1825.0	836.4							
Total	16353.4									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	321.0	320.4	0	0.0	13	100	0.0	1	126	126	-0
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1043	1043	0
ENGFSMA	1498	96	1765.0	1746.2	0	18.9	1498	96	0.0	0	2829	2669	-160
ENGDominion	103	100	110.3	108.1	0	2.2	103	100	0.0	0	204	195	-9
ENGNFG	671	100	720.9	715.2	0	5.7	671	100	5.6	0	1279	1218	-62
ENGHON	246	100	237.5	237.5	0	0.0	246	100	0.0	0	458	433	-25
Total	2606	98	3315.5	3288.2	0	26.7	2607	98	5.6	1	5939	5683	-256

Transportation Summary													
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost			
ENGTGPProd	2319.6	0.0	2319.6	7882.5	5563.0	0	5043	0	5043	2.1742			
ENGTGP2Stg	94.2	1.9	92.2	7882.5	7790.3	24	0	0	24	0.2572			
ENGTGPLong	6068.5	0.0	6068.5	8698.1	2629.6	0	0	0	0	0.0000			
ENGTGPBND	1065.6	6.6	1059.0	1139.5	80.5	91	267	0	358	0.3362			
ENGTGPShort	2801.3	23.8	2777.5	10262.0	7484.5	316	2688	0	3003	1.0721			
TrCanCharges	722.7	8.3	714.4	1477.2	762.8	0	698	0	698	0.9652			
IroqCharges	714.4	4.4	710.0	1477.2	767.2	63	640	0	703	0.9843			
ENGPNGTS	343.6	3.4	340.2	365.0	24.8	1	312	0	312	0.9093			
ENGLNG	320.4	0.0	320.4	9307.5	8987.1	0	0	0	0	0.0000			
ENGPropane	160.8	0.0	160.8	6335.0	6174.2	0	0	0	0	0.0000			
ENGC3Truck	160.8	0.0	160.8	4380.0	4219.2	161	0	0	161	1.0000			
Dracut 30	1214.3	2.5	1211.7	10950.0	9738.3	53	4388	0	4441	3.6574			
UnionCharges	731.0	8.3	722.7	1477.2	754.4	0	140	0	140	0.1915			

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2020 thru OCT 2021

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Dracut 20	2928.4	6.1	2922.2	7300.0	4377.8	127	1134	0	1261	0.4305
ENGTGPZ4	2225.4	62.0	2163.4	9125.0	6961.6	662	0	0	662	0.2976
Z4toTGPLH	3938.6	33.5	3905.1	7665.0	3759.9	444	0	0	444	0.1126
Z4toStg	2750.5	9.1	2741.5	7882.5	5141.1	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	0.0	0.0	0.0	1825.0	1825.0	0	█	0	█	0.0000
DAWN5Dracut	988.6	0.0	988.6	1825.0	836.4	31	0	0	31	0.0309
Total		170.1				2177	█		█	0.6889

NOV 2021 thru OCT 2022

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2201	JAN 19, 2022	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	174.62
Other Variable Cost	340	Carrying Cost	283			System Unserved	0.00
		Other Variable Cost	0			Total	174.62
Total Variable	██████	Total Variable	376	Total Variable	2201		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	2738	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	87807
						Total Revenue	0
						Net Cost	87807

Avg Cost of Served Demand 5.300 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.873 USD/DT
(Supply Cost/LDC Purchase)

Class	Demand Summary					Served	Unserved	Revenue	Peak Served	Peak Unserved
	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.					
ENGINormal	16566.0	0.0	16566.0	0.0	16566.0	16566.0	0.0	0	174.6	0.0
Total	16566.0	0.0	16566.0	0.0	16566.0	16566.0	0.0	0	174.6	0.0

Source	Supply Summary			Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
	Total Take	Max Take	Surplus							
ENGUSGC	2326.1	18250.0	15923.9			2.6639	6197	0	6197	2.6639
ENGNiagara	1083.5	1167.3	83.7			2.1993	2383	0	2383	2.1993
ENGPNGTS	346.4	365.0	18.6			2.8143	975	0	975	2.8143
ENG3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6689.6	6690.4	0.8			1.6727	11190	0	11190	1.6727
DliqWinter	250.0	250.0	0.0							
Dracut 20	2260.0	7315.4	5055.3			7.5933	17161	0	17161	7.5933
ENG3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DliqSummer	21.0	21.0	0.0							

NOV 2021 thru OCT 2022

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	742.0	2190.0	1448.0			2.6914	1997	0	1997	2.6914
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	1198.6	10973.0	9774.4			8.5530	10252	0	10252	8.5530
Engie Combo	630.0	630.0	0.0							
DAWN5	1061.2	1825.0	763.8							
Total	16769.3									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	321.0	321.6	0	0.0	12	95	0.0	-1	126	124	-2
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1043	1043	0
ENGFSMA	1498	96	1767.4	1748.4	0	18.9	1498	96	0.0	0	2669	2475	-194
ENGDominion	103	100	109.7	107.5	0	2.1	103	100	0.0	0	195	181	-14
ENGNFG	671	100	720.9	715.2	0	5.7	671	100	5.6	0	1218	1130	-88
ENGHON	246	100	236.1	236.1	0	0.0	246	100	0.0	0	433	403	-30
Total	2607	98	3315.8	3289.7	0	26.7	2606	98	5.6	-1	5683	5356	-328

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	2326.1	0.0	2326.1	7882.5	5556.4	0	5043	0	5043	2.1681		
ENGTGP2Stg	95.1	1.9	93.1	7882.5	7789.4	24	0	0	24	0.2572		
ENGTGPLong	6075.0	0.0	6075.0	8698.1	2623.1	0	0	0	0	0.0000		
ENGTGPBND	1083.5	6.7	1076.8	1139.5	62.7	92	267	0	360	0.3321		
ENGTGPShort	2801.6	23.8	2777.8	10262.0	7484.2	316	2688	0	3003	1.0720		
TrCanCharges	733.5	8.4	725.1	1477.2	752.1	0	698	0	698	0.9510		
IroqCharges	725.1	4.5	720.6	1477.2	756.5	64	640	0	704	0.9710		
ENGPNGTS	346.4	3.5	343.0	365.0	22.0	1	312	0	312	0.9019		
ENGLNG	321.6	0.0	321.6	9307.5	8985.9	0	0	0	0	0.0000		
ENGPropane	160.8	0.0	160.8	6335.0	6174.2	0	0	0	0	0.0000		
ENGC3Truck	160.8	0.0	160.8	4380.0	4219.2	161	0	0	161	1.0000		
Dracut 30	1493.7	3.1	1490.6	10950.0	9459.4	65	4388	0	4453	2.9812		
UnionCharges	742.0	8.5	733.5	1477.2	743.6	0	140	0	140	0.1887		

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2021 thru OCT 2022

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
Dracut 20	3026.1	6.4	3019.7	7300.0	4280.3	131	1134	0	1265	0.4181	
ENGTGPZ4	2231.0	62.2	2168.9	9125.0	6956.1	664	0	0	664	0.2976	
Z4toTGPLH	3939.7	33.5	3906.2	7665.0	3758.8	444	0	0	444	0.1126	
Z4toStg	2749.9	9.1	2740.9	7882.5	5141.7	136	0	0	136	0.0495	
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335	
GranBrdgPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000	
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000	
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000	
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	0.0	0.0	0.0	1825.0	1825.0	0	█	0	█	0.0000	
DAWN5Dracut	1061.2	0.0	1061.2	1825.0	763.8	33	0	0	33	0.0309	
Total		171.6				2201	█		█	0.6779	

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:56:18

NOV 2022 thru OCT 2023

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2023	JAN 19, 2023	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	183.41
Other Variable Cost	28	Carrying Cost	258			System Unserved	0.00
		Other Variable Cost	0			Total	183.41
Total Variable	██████	Total Variable	353	Total Variable	2023		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	118168
						Total Revenue	0
						Net Cost	118168

Avg Cost of Served Demand 6.640 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.308 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	17796.0	0.0	17796.0	0.0	17796.0	17796.0	0.0	0	183.4	0.0
Total	17796.0	0.0	17796.0	0.0	17796.0	17796.0	0.0	0	183.4	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2344.9	18250.0	15905.1			2.6913	6311	0	6311	2.6913
ENGNiagara	1129.3	1167.3	38.0			2.2438	2534	0	2534	2.2438
ENGPNGTS	350.9	365.0	14.1			2.8213	990	0	990	2.8213
ENG3Winter	3.5	91.7	88.2			15.0000	53	0	53	15.0000
ENG-Z4	6690.4	6690.4	0.0			1.5680	10490	0	10490	1.5680
Dracut 20	1627.3	7315.4	5688.0			4.5942	7476	0	7476	4.5942
ENG3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DliqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENG Dawn	778.4	2190.0	1411.6			2.7034	2104	0	2104	2.7034

NOV 2022 thru OCT 2023

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0.0000	
Repsol 40	2437.5	2437.5	0.0								
Dracut 30	640.8	10973.0	10332.2			4.2853	2746	0	2746	4.2853	
Engie Combo	630.0	630.0	0.0								
DAWN5	1355.3	1825.0	469.7								
Total	18078.3										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	56.1	56.1	0	0.0	12	95	0.0	0	124	124	-0
ENGPropane	77	100	72.6	72.6	0	0.0	77	100	0.0	0	1043	987	-56
ENGFSMA	1498	96	1773.3	1754.3	0	19.0	1498	96	0.0	0	2475	2318	-157
ENGDominion	103	100	114.6	112.3	0	2.2	103	100	0.0	0	181	165	-16
ENGNFG	671	100	723.5	717.8	0	5.7	671	100	5.7	0	1130	1061	-69
ENGHON	246	100	238.2	238.2	0	0.0	246	100	0.0	0	403	377	-26
Total	2606	98	2978.3	2951.4	0	26.9	2606	98	5.7	0	5356	5031	-324

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2344.9	0.0	2344.9	7882.5	5537.7	0	5043	0	5043	2.1508	
ENGTGP2Stg	103.4	2.1	101.2	7882.5	7781.3	27	0	0	27	0.2572	
ENGTGPLong	6078.6	0.0	6078.6	8698.1	2619.5	0	0	0	0	0.0000	
ENGTGPBND	1129.3	7.0	1122.3	1139.5	17.2	96	267	0	364	0.3221	
ENGTGPShort	2817.0	23.9	2793.0	10262.0	7469.0	317	2688	0	3005	1.0667	
TrCanCharges	769.5	8.8	760.6	1477.2	716.5	0	698	0	698	0.9066	
IroqCharges	760.6	4.7	755.9	1477.2	721.2	68	640	0	707	0.9298	
ENGPNGTS	350.9	3.5	347.3	365.0	17.7	1	312	0	312	0.8905	
ENGLNG	56.1	0.0	56.1	9307.5	9251.4	0	0	0	0	0.0000	
ENGPropane	72.6	0.0	72.6	6335.0	6262.4	0	0	0	0	0.0000	
ENGC3Truck	72.6	0.0	72.6	4380.0	4307.4	73	0	0	73	1.0000	
Dracut 30	1208.7	2.5	1206.1	10950.0	9743.9	52	4388	0	4441	3.6741	
UnionCharges	778.4	8.9	769.5	1477.2	707.7	0	140	0	140	0.1799	
Dracut 20	1059.5	2.2	1057.2	7300.0	6242.8	46	1134	0	1180	1.1135	

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2022 thru OCT 2023

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary										
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2241.5	62.5	2179.0	9125.0	6946.0	667	0	0	667	0.2976
Z4toTGPLH	3933.0	33.4	3899.6	7665.0	3765.4	443	0	0	443	0.1126
Z4toStg	2757.4	9.1	2748.3	7882.5	5134.2	137	0	0	137	0.0495
Engie2CG	594.9	0.0	594.9	1057.0	462.1	20	0	0	20	0.0335
GranBrdgPL	3719.7	7.8	3711.8	73000.0	69288.2	0	█	0	█	█
Repsol to101	2437.5	73.1	2364.4	21574.8	19210.4	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	35.1	0.0	35.1	50.0	14.9	35	0	0	35	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1355.3	0.0	1355.3	1825.0	469.7	42	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		249.7				2023	█		█	█

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:56:18

NOV 2023 thru OCT 2024

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2066	JAN 19, 2024	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	187.62
Other Variable Cost	28	Carrying Cost	266			System Unserved	0.00
		Other Variable Cost	0			Total	187.62
Total Variable	██████	Total Variable	361	Total Variable	2066		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	122553
						Total Revenue	0
						Net Cost	122553

Avg Cost of Served Demand 6.703 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.428 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	18283.3	0.0	18283.3	0.0	18283.3	18283.3	0.0	0	187.6	0.0
Total	18283.3	0.0	18283.3	0.0	18283.3	18283.3	0.0	0	187.6	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2361.6	18300.0	15938.4			2.7627	6524	0	6524	2.7627
ENGNiagara	1136.5	1170.5	34.0			2.3404	2660	0	2660	2.3404
ENGPNGTS	355.0	366.0	11.0			2.8980	1029	0	1029	2.8980
ENGC3Winter	6.6	91.7	85.1			15.0000	99	0	99	15.0000
ENG-Z4	6698.7	6698.7	0.0			1.6985	11378	0	11378	1.6985
Dracut 20	1781.6	7335.4	5553.8			4.9309	8785	0	8785	4.9309
ENGC3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENGDawn	794.2	2196.0	1401.8			2.7741	2203	0	2203	2.7741

NOV 2023 thru OCT 2024

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54900.0	54900.0			0.0000	0	0	0	0.0000	
Repsol 40	2437.5	2437.5	0.0								
Dracut 30	852.0	11003.1	10151.1			4.5223	3853	0	3853	4.5223	
Engie Combo	630.0	630.0	0.0								
DAWN5	1423.8	1830.0	406.2								
Total	18567.6										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	71.0	71.0	0	0.0	12	95	0.0	0	124	127	3
ENGPropane	77	100	75.7	75.7	0	0.0	77	100	0.0	0	987	992	5
ENGFSMA	1498	96	1773.5	1754.5	0	19.0	1498	96	0.0	0	2318	2521	203
ENGDominion	103	100	114.0	111.7	0	2.2	103	100	0.0	0	165	179	14
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1061	1153	92
ENGHON	246	100	238.4	238.4	0	0.0	246	100	0.0	0	377	403	26
Total	2606	98	2996.4	2969.5	0	26.9	2606	98	5.7	0	5031	5374	343

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2361.6	0.0	2361.6	7904.1	5542.6	0	5043	0	5043	2.1355	
ENGTGP2Stg	105.3	2.2	103.1	7904.1	7801.0	27	0	0	27	0.2572	
ENGTGPLong	6103.0	0.0	6103.0	8719.7	2616.7	0	0	0	0	0.0000	
ENGTGPBND	1136.5	7.0	1129.5	1142.7	13.2	97	267	0	364	0.3206	
ENGTGPShort	2817.1	23.9	2793.1	10290.1	7497.0	317	2688	0	3005	1.0667	
TrCanCharges	785.2	9.0	776.1	1481.2	705.1	0	698	0	698	0.8885	
IroqCharges	776.1	4.8	771.3	1481.2	709.9	69	640	0	709	0.9130	
ENGPNGTS	355.0	3.6	351.4	366.0	14.6	1	312	0	312	0.8801	
ENGLNG	71.0	0.0	71.0	9333.0	9262.0	0	0	0	0	0.0000	
ENGPropane	75.7	0.0	75.7	6370.0	6294.3	0	0	0	0	0.0000	
ENGC3Truck	75.7	0.0	75.7	4392.0	4316.3	76	0	0	76	1.0000	
Dracut 30	1466.6	3.1	1463.5	10980.0	9516.5	64	4388	0	4452	3.0356	
UnionCharges	794.2	9.0	785.2	1481.2	696.0	0	140	0	140	0.1763	
Dracut 20	1167.0	2.5	1164.5	7320.0	6155.5	51	1134	0	1184	1.0149	

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2023 thru OCT 2024

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2256.3	62.9	2193.4	9150.0	6956.6	671	0	0	671	0.2976
Z4toTGPLH	3943.1	33.5	3909.6	7686.0	3776.4	444	0	0	444	0.1126
Z4toStg	2755.6	9.1	2746.5	7904.1	5157.6	137	0	0	137	0.0495
Engie2CG	580.0	0.0	580.0	1064.0	484.0	19	0	0	19	0.0335
GranBrdgPL	3788.2	8.0	3780.2	73200.0	69419.8	0	█	0	█	█
Repsol to101	2437.5	73.1	2364.4	21633.9	19269.5	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56821.5	56821.5	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2928.0	2928.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1423.8	0.0	1423.8	1830.0	406.2	44	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1830.0	1830.0	0	0	0	0	0.0000
Total		251.7				2066	█		█	█

NOV 2024 thru OCT 2025

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2080	JAN 19, 2025	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	191.54
Other Variable Cost	28	Carrying Cost	287			System Unserved	0.00
		Other Variable Cost	0			Total	191.54
Total Variable	██████	Total Variable	381	Total Variable	2080		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	126771
						Total Revenue	0
						Net Cost	126771

Avg Cost of Served Demand 6.814 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.573 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	18605.3	0.0	18605.3	0.0	18605.3	18605.3	0.0	0	191.5	0.0
Total	18605.3	0.0	18605.3	0.0	18605.3	18605.3	0.0	0	191.5	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2351.6	18250.0	15898.4			2.8554	6715	0	6715	2.8554
ENGNiagara	1135.8	1167.3	31.5			2.4569	2791	0	2791	2.4569
ENGPNGTS	355.0	365.0	10.0			2.9668	1053	0	1053	2.9668
ENGC3Winter	9.5	91.7	82.2			15.0000	143	0	143	15.0000
ENG-Z4	6690.4	6690.4	0.0			1.8482	12365	0	12365	1.8482
Dracut 20	1971.4	7315.4	5343.9			5.2460	10342	0	10342	5.2460
ENGC3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DliqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENGDawn	796.4	2190.0	1393.6			2.8661	2283	0	2283	2.8661

NOV 2024 thru OCT 2025

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0.0000	
Repsol 40	2437.5	2437.5	0.0								
Dracut 30	951.4	10973.0	10021.6			4.6988	4470	0	4470	4.6988	
Engie Combo	630.0	630.0	0.0								
DAWN5	1471.5	1825.0	353.5								
Total	18890.6										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	71.0	70.4	0	0.0	13	100	0.0	1	127	133	7
ENGPropane	77	100	78.6	78.6	0	0.0	77	100	0.0	0	992	1006	14
ENGFSMA	1498	96	1775.3	1756.3	0	19.0	1498	96	0.0	0	2521	2757	236
ENGDominion	103	100	112.8	110.6	0	2.2	103	100	0.0	0	179	195	16
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1153	1258	105
ENGHON	246	100	237.3	237.3	0	0.0	246	100	0.0	0	403	439	36
Total	2606	98	2998.7	2971.2	0	26.9	2607	98	5.7	1	5374	5788	414

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2351.6	0.0	2351.6	7882.5	5531.0	0	5043	0	5043	2.1446	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6085.6	0.0	6085.6	8698.1	2612.5	0	0	0	0	0.0000	
ENGTGPBND	1135.8	7.0	1128.7	1139.5	10.8	97	267	0	364	0.3207	
ENGTGPShort	2816.5	23.9	2792.6	10262.0	7469.4	317	2688	0	3005	1.0669	
TrCanCharges	787.3	9.1	778.3	1477.2	698.9	0	698	0	698	0.8860	
IroqCharges	778.3	4.8	773.4	1477.2	703.7	69	640	0	709	0.9108	
ENGPNGTS	355.0	3.6	351.4	365.0	13.6	1	312	0	312	0.8801	
ENGLNG	70.4	0.0	70.4	9307.5	9237.1	0	0	0	0	0.0000	
ENGPropane	78.6	0.0	78.6	6335.0	6256.4	0	0	0	0	0.0000	
ENGC3Truck	78.6	0.0	78.6	4380.0	4301.4	79	0	0	79	1.0000	
Dracut 30	1784.1	3.7	1780.3	10950.0	9169.7	77	4388	0	4466	2.5031	
UnionCharges	796.4	9.1	787.3	1477.2	689.8	0	140	0	140	0.1758	
Dracut 20	1138.7	2.4	1136.4	7300.0	6163.6	49	1134	0	1183	1.0390	

50

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2024 thru OCT 2025

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2244.4	62.6	2181.9	9125.0	6943.1	668	0	0	668	0.2976
Z4toTGPLH	3937.2	33.5	3903.7	7665.0	3761.3	443	0	0	443	0.1126
Z4toStg	2753.2	9.1	2744.2	7882.5	5138.4	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	3835.9	8.1	3827.8	73000.0	69172.2	0	█	0	█	█
Repsol to101	2437.5	73.1	2364.4	21574.8	19210.4	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1471.5	0.0	1471.5	1825.0	353.5	45	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		252.1				2080	█		█	█

NOV 2025 thru OCT 2026

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	48	Transportation Cost	2097	JAN 19, 2026	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	194.99
Other Variable Cost	29	Carrying Cost	305			System Unserved	0.00
		Other Variable Cost	0			Total	194.99
Total Variable	████	Total Variable	400	Total Variable	2097		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	131356
						Total Revenue	0
						Net Cost	131356

Avg Cost of Served Demand 6.933 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.729 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	18947.4	0.0	18947.4	0.0	18947.4	18947.4	0.0	0	195.0	0.0
Total	18947.4	0.0	18947.4	0.0	18947.4	18947.4	0.0	0	195.0	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2353.1	18250.0	15896.9			2.9741	6998	0	6998	2.9741
ENGNiagara	1137.2	1167.3	30.1			2.5845	2939	0	2939	2.5845
ENGPNGTS	359.0	365.0	6.0			3.0696	1102	0	1102	3.0696
ENG3Winter	12.0	91.7	79.7			15.0000	180	0	180	15.0000
ENG-Z4	6690.4	6690.4	0.0			2.0008	13386	0	13386	2.0008
Dracut 20	2039.8	7315.4	5275.6			5.4529	11123	0	11123	5.4529
ENG3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENG3Dawn	803.3	2190.0	1386.7			2.9806	2394	0	2394	2.9806

NOV 2025 thru OCT 2026

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0.0000	
Repsol 40	2437.5	2437.5	0.0								
Dracut 30	1161.6	10973.0	9811.5			5.0771	5897	0	5897	5.0771	
Engie Combo	630.0	630.0	0.0								
DAWN5	1518.8	1825.0	306.2								
Total	19232.7										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	71.0	71.4	0	0.0	12	97	0.0	-0	133	135	2
ENGPropane	77	100	81.1	81.1	0	0.0	77	100	0.0	0	1006	1003	-2
ENGFSMA	1498	96	1775.1	1756.1	0	19.0	1498	96	0.0	0	2757	2980	223
ENGDominion	103	100	112.8	110.6	0	2.2	103	100	0.0	0	195	209	15
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1258	1366	108
ENGHON	246	100	237.3	237.3	0	0.0	246	100	0.0	0	439	477	38
Total	2607	98	3001.0	2974.5	0	26.9	2607	98	5.7	-0	5788	6171	383

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2353.1	0.0	2353.1	7882.5	5529.5	0	5043	0	5043	2.1433	
ENGTGP2Stg	106.9	2.2	104.7	7882.5	7777.8	28	0	0	28	0.2572	
ENGTGPLong	6087.2	0.0	6087.2	8698.1	2610.8	0	0	0	0	0.0000	
ENGTGPBND	1137.2	7.1	1130.2	1139.5	9.4	97	267	0	364	0.3204	
ENGTGPShort	2816.3	23.9	2792.4	10262.0	7469.6	317	2688	0	3005	1.0670	
TrCanCharges	794.1	9.1	785.0	1477.2	692.2	0	698	0	698	0.8784	
IroqCharges	785.0	4.9	780.1	1477.2	697.0	70	640	0	709	0.9037	
ENGPNGTS	359.0	3.6	355.4	365.0	9.6	1	312	0	312	0.8703	
ENGLNG	71.4	0.0	71.4	9307.5	9236.1	0	0	0	0	0.0000	
ENGPropane	81.1	0.0	81.1	6335.0	6253.9	0	0	0	0	0.0000	
ENGC3Truck	81.1	0.0	81.1	4380.0	4298.9	81	0	0	81	1.0000	
Dracut 30	2028.6	4.3	2024.3	10950.0	8925.7	88	4388	0	4476	2.2066	
UnionCharges	803.3	9.1	794.1	1477.2	683.0	0	140	0	140	0.1743	
Dracut 20	1172.7	2.5	1170.3	7300.0	6129.7	51	1134	0	1185	1.0101	

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2025 thru OCT 2026

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2246.2	62.6	2183.6	9125.0	6941.4	668	0	0	668	0.2976
Z4toTGPLH	3937.2	33.5	3903.7	7665.0	3761.3	443	0	0	443	0.1126
Z4toStg	2753.2	9.1	2744.2	7882.5	5138.4	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	3883.2	8.2	3875.0	73000.0	69125.0	0	█	0	█	█
Repsol to101	2437.5	73.1	2364.4	21574.8	19210.4	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1518.8	0.0	1518.8	1825.0	306.2	47	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		253.1				2097	█		█	█

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:56:18

NOV 2026 thru OCT 2027

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	█	Injection Cost	48	Transportation Cost	2120	JAN 19, 2027	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	198.17
Other Variable Cost	29	Carrying Cost	326			System Unserved	0.00
		Other Variable Cost	0			Total	198.17
Total Variable	█	Total Variable	420	Total Variable	2120		
Demand/Reservation Co	█	Demand Cost	█	Demand Cost	█		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	█	Total Fixed	█	Total Fixed	█		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	█	Net Storage Cost	█	Net Trans Cost	█	Total Gas Cost	135459
						Total Revenue	0
						Net Cost	135459

Avg Cost of Served Demand 7.036 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.863 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	19251.6	0.0	19251.6	0.0	19251.6	19251.6	0.0	0	198.2	0.0
Total	19251.6	0.0	19251.6	0.0	19251.6	19251.6	0.0	0	198.2	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2356.2	18250.0	15893.8			3.0655	7223	0	7223	3.0655
ENGNiagara	1138.2	1167.3	29.1			2.6891	3061	0	3061	2.6891
ENGPNGTS	360.0	365.0	5.0			3.1419	1131	0	1131	3.1419
ENG3Winter	21.5	91.7	70.3			15.0000	322	0	322	15.0000
ENG-Z4	6690.4	6690.4	0.0			2.1318	14262	0	14262	2.1318
Dracut 20	2113.4	7315.4	5202.0			5.6838	12012	0	12012	5.6838
ENG3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DLiqSummer	21.0	21.0	0.0			█	█	█	█	█
ENG Dawn	808.8	2190.0	1381.2			3.0676	2481	0	2481	3.0676

NOV 2026 thru OCT 2027

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0.0000	
Repsol 40	2437.5	2437.5	0.0								
Dracut 30	1336.8	10973.0	9636.2			5.2895	7071	0	7071	5.2895	
Engie Combo	630.0	630.0	0.0								
DAWN5	1555.0	1825.0	270.0								
Total	19537.8										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	97	71.0	71.3	0	0.0	12	95	0.0	-0	135	137	2
ENGPropane	77	100	90.6	90.6	0	0.0	77	100	0.0	0	1003	1036	32
ENGFSMA	1498	96	1775.1	1756.1	0	19.0	1498	96	0.0	0	2980	3183	203
ENGDominion	103	100	111.6	109.4	0	2.2	103	100	0.0	0	209	223	14
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1366	1457	91
ENGHON	246	100	236.1	236.1	0	0.0	246	100	0.0	0	477	510	33
Total	2607	98	3008.1	2981.4	0	26.9	2606	98	5.7	-0	6171	6546	375

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2356.2	0.0	2356.2	7882.5	5526.4	0	5043	0	5043	2.1404	
ENGTGP2Stg	106.9	2.2	104.7	7882.5	7777.8	28	0	0	28	0.2572	
ENGTGPLong	6092.6	0.0	6092.6	8698.1	2605.5	0	0	0	0	0.0000	
ENGTGPBND	1138.2	7.1	1131.1	1139.5	8.4	97	267	0	364	0.3202	
ENGTGPShort	2814.0	23.9	2790.0	10262.0	7471.9	317	2688	0	3005	1.0678	
TrCanCharges	799.6	9.2	790.4	1477.2	686.7	0	698	0	698	0.8724	
IroqCharges	790.4	4.9	785.5	1477.2	691.6	70	640	0	710	0.8981	
ENGPNGTS	360.0	3.6	356.4	365.0	8.6	1	312	0	312	0.8679	
ENGLNG	71.3	0.0	71.3	9307.5	9236.2	0	0	0	0	0.0000	
ENGPropane	90.6	0.0	90.6	6335.0	6244.4	0	0	0	0	0.0000	
ENGC3Truck	90.6	0.0	90.6	4380.0	4289.4	91	0	0	91	1.0000	
Dracut 30	2012.0	4.2	2007.8	10950.0	8942.2	87	4388	0	4476	2.2245	
UnionCharges	808.8	9.2	799.6	1477.2	677.5	0	140	0	140	0.1731	
Dracut 20	1438.2	3.0	1435.2	7300.0	5864.8	62	1134	0	1196	0.8317	

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2026 thru OCT 2027

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2249.3	62.7	2186.6	9125.0	6938.4	669	0	0	669	0.2976
Z4toTGPLH	3939.5	33.5	3906.1	7665.0	3758.9	444	0	0	444	0.1126
Z4toStg	2750.9	9.1	2741.8	7882.5	5140.8	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	3919.4	8.2	3911.2	73000.0	69088.8	0	█	0	█	█
Repsol to101	2437.5	73.1	2364.4	21574.8	19210.4	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1555.0	0.0	1555.0	1825.0	270.0	48	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		253.9				2120	█		█	█

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:56:18

NOV 2027 thru OCT 2028

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2156	JAN 19, 2028	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	200.70
Other Variable Cost	29	Carrying Cost	347			System Unserved	0.00
		Other Variable Cost	0			Total	200.70
Total Variable	██████	Total Variable	441	Total Variable	2156		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	139523
						Total Revenue	0
						Net Cost	139523

Avg Cost of Served Demand 7.123 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.982 USD/DT
(Supply Cost/LDC Purchase)

Class	Demand Summary					Served	Unserved	Revenue	Peak Served	Peak Unserved
	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.					
ENGINormal	19586.6	0.0	19586.6	0.0	19586.6	19586.6	0.0	0	200.7	0.0
Total	19586.6	0.0	19586.6	0.0	19586.6	19586.6	0.0	0	200.7	0.0

Source	Supply Summary			Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
	Total Take	Max Take	Surplus							
ENGUSGC	2372.3	18300.0	15927.7			3.1577	7491	0	7491	3.1577
ENGNiagara	1142.3	1170.5	28.1			2.7879	3185	0	3185	2.7879
ENGPNGTS	363.0	366.0	3.0			3.2230	1170	0	1170	3.2230
ENG3Winter	40.3	91.7	51.5			15.0000	604	0	604	15.0000
ENG-Z4	6698.7	6698.7	0.0			2.2523	15087	0	15087	2.2523
Dracut 20	2197.7	7335.4	5137.7			5.7854	12715	0	12715	5.7854
ENG3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENG Dawn	819.0	2196.0	1377.0			3.1544	2583	0	2583	3.1544

NOV 2027 thru OCT 2028

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54900.0	54900.0			0.0000	0	0	0	0.0000	
Repsol 40	2437.5	2437.5	0.0								
Dracut 30	1437.0	11003.1	9566.1			5.5973	8043	0	8043	5.5973	
Engie Combo	630.0	630.0	0.0								
DAWN5	1646.6	1830.0	183.4								
Total	19874.5										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	71.0	71.0	0	0.0	12	95	0.0	0	137	141	4
ENGPropane	77	100	109.4	109.4	0	0.0	77	100	0.0	0	1036	1040	5
ENGFSMA	1498	96	1775.3	1756.3	0	19.0	1498	96	0.0	0	3183	3368	185
ENGDominion	103	100	112.2	110.0	0	2.2	103	100	0.0	0	223	241	18
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1457	1536	80
ENGHON	246	100	236.1	236.1	0	0.0	246	100	0.0	0	510	541	31
Total	2606	98	3027.7	3000.8	0	26.9	2606	98	5.7	0	6546	6867	321

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2372.3	0.0	2372.3	7904.1	5531.8	0	5043	0	5043	2.1259	
ENGTGP2Stg	107.1	2.2	105.0	7904.1	7799.2	28	0	0	28	0.2572	
ENGTGPLong	6115.7	0.0	6115.7	8719.7	2604.0	0	0	0	0	0.0000	
ENGTGPBND	1142.3	7.1	1135.2	1142.7	7.4	98	267	0	365	0.3194	
ENGTGPShort	2814.8	23.9	2790.8	10290.1	7499.3	317	2688	0	3005	1.0675	
TrCanCharges	809.7	9.3	800.4	1481.2	680.8	0	698	0	698	0.8616	
IroqCharges	800.4	5.0	795.4	1481.2	685.8	71	640	0	711	0.8881	
ENGPNGTS	363.0	3.6	359.4	366.0	6.6	1	312	0	312	0.8608	
ENGLNG	71.0	0.0	71.0	9333.0	9262.0	0	0	0	0	0.0000	
ENGPropane	109.4	0.0	109.4	6370.0	6260.6	0	0	0	0	0.0000	
ENGC3Truck	109.4	0.0	109.4	4392.0	4282.6	109	0	0	109	1.0000	
Dracut 30	2119.5	4.5	2115.1	10980.0	8864.9	92	4388	0	4480	2.1138	
UnionCharges	819.0	9.3	809.7	1481.2	671.5	0	140	0	140	0.1710	
Dracut 20	1515.2	3.2	1512.0	7320.0	5808.0	66	1134	0	1199	0.7916	

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2027 thru OCT 2028

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2265.1	63.1	2202.0	9150.0	6948.0	674	0	0	674	0.2976
Z4toTGPLH	3947.2	33.6	3913.7	7686.0	3772.3	445	0	0	445	0.1126
Z4toStg	2751.5	9.1	2742.4	7904.1	5161.8	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1064.0	484.0	19	0	0	19	0.0335
GranBrdgPL	4011.0	8.4	4002.6	73200.0	69197.4	0	█	0	█	█
Repsol to101	2437.5	73.1	2364.4	21633.9	19269.5	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56821.5	56821.5	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2928.0	2928.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1646.6	0.0	1646.6	1830.0	183.4	51	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1830.0	1830.0	0	0	0	0	0.0000
Total		255.4				2156	█		█	█

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:56:18

NOV 2028 thru OCT 2029

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2181	JAN 19, 2029	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	203.52
Other Variable Cost	30	Carrying Cost	354			System Unserved	0.00
		Other Variable Cost	0			Total	203.52
Total Variable	██████	Total Variable	449	Total Variable	2181		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	142038
						Total Revenue	0
						Net Cost	142038

Avg Cost of Served Demand 7.176 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.054 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	19794.3	0.0	19794.3	0.0	19794.3	19794.3	0.0	0	203.5	0.0
Total	19794.3	0.0	19794.3	0.0	19794.3	19794.3	0.0	0	203.5	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2361.3	18250.0	15888.7			3.2122	7585	0	7585	3.2122
ENGNiagara	1140.0	1167.3	27.2			2.8235	3219	0	3219	2.8235
ENGPNGTS	362.0	365.0	3.0			3.2528	1178	0	1178	3.2528
ENG3Winter	60.8	91.7	30.9			15.1500	921	0	921	15.1500
ENG-Z4	6690.4	6690.4	0.0			2.2789	15247	0	15247	2.2789
Dracut 20	2295.3	7315.4	5020.1			5.8079	13331	0	13331	5.8079
ENG3Summer	69.1	93.5	24.4			10.1000	698	0	698	10.1000
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENG Dawn	820.8	2190.0	1369.2			3.1961	2623	0	2623	3.1961

NOV 2028 thru OCT 2029

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0.0000	
Repsol 40	2437.5	2437.5	0.0								
Dracut 30	1537.0	10973.0	9436.0			5.8925	9057	0	9057	5.8925	
Engie Combo	630.0	630.0	0.0								
DAWN5	1657.1	1825.0	167.9								
Total	20082.3										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	71.0	71.0	0	0.0	12	95	0.0	0	141	143	2
ENGPropane	77	100	129.9	129.9	0	0.0	77	100	0.0	0	1040	1052	12
ENGFSMA	1498	96	1775.3	1756.3	0	19.0	1498	96	0.0	0	3368	3400	32
ENGDominion	103	100	111.6	109.4	0	2.2	103	100	0.0	0	241	244	3
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1536	1550	13
ENGHON	246	100	236.1	236.1	0	0.0	246	100	0.0	0	541	550	9
Total	2606	98	3047.6	3020.7	0	26.9	2606	98	5.7	0	6867	6939	71

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2361.3	0.0	2361.3	7882.5	5521.2	0	5043	0	5043	2.1358	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6097.4	0.0	6097.4	8698.1	2600.7	0	0	0	0	0.0000	
ENGTGPBND	1140.0	7.1	1133.0	1139.5	6.6	97	267	0	365	0.3198	
ENGTGPShort	2814.2	23.9	2790.3	10262.0	7471.7	317	2688	0	3005	1.0677	
TrCanCharges	811.4	9.3	802.1	1477.2	675.1	0	698	0	698	0.8597	
IroqCharges	802.1	5.0	797.1	1477.2	680.0	71	640	0	711	0.8863	
ENGPNGTS	362.0	3.6	358.4	365.0	6.6	1	312	0	312	0.8631	
ENGLNG	71.0	0.0	71.0	9307.5	9236.5	0	0	0	0	0.0000	
ENGPropane	129.9	0.0	129.9	6335.0	6205.1	0	0	0	0	0.0000	
ENGC3Truck	129.9	0.0	129.9	4380.0	4250.1	130	0	0	130	1.0000	
Dracut 30	2382.2	5.0	2377.2	10950.0	8572.8	103	4388	0	4492	1.8856	
UnionCharges	820.8	9.3	811.4	1477.2	665.7	0	140	0	140	0.1706	
Dracut 20	1450.1	3.0	1447.0	7300.0	5853.0	63	1134	0	1197	0.8252	

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2028 thru OCT 2029

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2254.2	62.8	2191.4	9125.0	6933.6	671	0	0	671	0.2976
Z4toTGPLH	3939.5	33.5	3906.1	7665.0	3758.9	444	0	0	444	0.1126
Z4toStg	2750.9	9.1	2741.8	7882.5	5140.8	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	4021.4	8.4	4013.0	73000.0	68987.0	0	█	0	█	█
Repsol to101	2437.5	73.1	2364.4	21574.8	19210.4	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1657.1	0.0	1657.1	1825.0	167.9	51	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		255.5				2181	█		█	█

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:56:18

NOV 2029 thru OCT 2030

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2207	JAN 19, 2030	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	206.14
Other Variable Cost	30	Carrying Cost	358			System Unserved	0.00
		Other Variable Cost	0			Total	206.14
Total Variable	██████	Total Variable	452	Total Variable	2207		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	144592
						Total Revenue	0
						Net Cost	144592

Avg Cost of Served Demand 7.210 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.113 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20053.4	0.0	20053.4	0.0	20053.4	20053.4	0.0	0	206.1	0.0
Total	20053.4	0.0	20053.4	0.0	20053.4	20053.4	0.0	0	206.1	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2364.1	18250.0	15885.9			3.2442	7670	0	7670	3.2442
ENGNiagara	1140.7	1167.3	26.6			2.8516	3253	0	3253	2.8516
ENGPNGTS	362.0	365.0	3.0			3.2853	1189	0	1189	3.2853
ENG3Winter	75.4	91.7	16.3			15.3015	1154	0	1154	15.3015
ENG-Z4	6690.4	6690.4	0.0			2.3017	15399	0	15399	2.3017
Dracut 20	2378.3	7315.4	4937.1			5.9140	14065	0	14065	5.9140
ENG3Summer	69.1	93.5	24.4			10.2010	705	0	705	10.2010
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENG Dawn	826.9	2190.0	1363.1			3.2261	2668	0	2668	3.2261

NOV 2029 thru OCT 2030

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0.0000	
Repsol 40	2437.5	2437.5	0.0								
Dracut 30	1675.7	10973.0	9297.3			6.0179	10085	0	10085	6.0179	
Engie Combo	630.0	630.0	0.0								
DAWN5	1671.0	1825.0	154.0								
Total	20342.1										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	71.0	71.0	0	0.0	12	95	0.0	0	143	144	1
ENGPropane	77	100	144.5	144.5	0	0.0	77	100	0.0	0	1052	1062	10
ENGFSMA	1498	96	1775.3	1756.3	0	19.0	1498	96	0.0	0	3400	3433	33
ENGDominion	103	100	111.6	109.4	0	2.2	103	100	0.0	0	244	244	0
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1550	1566	16
ENGHON	246	100	236.1	236.1	0	0.0	246	100	0.0	0	550	556	6
Total	2606	98	3062.3	3035.4	0	26.9	2606	98	5.7	0	6939	7004	66

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2364.1	0.0	2364.1	7882.5	5518.4	0	5043	0	5043	2.1333	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6100.1	0.0	6100.1	8698.1	2598.0	0	0	0	0	0.0000	
ENGTGPBND	1140.7	7.1	1133.6	1139.5	5.9	97	267	0	365	0.3197	
ENGTGPShort	2814.2	23.9	2790.3	10262.0	7471.7	317	2688	0	3005	1.0677	
TrCanCharges	817.5	9.4	808.1	1477.2	669.1	0	698	0	698	0.8533	
IroqCharges	808.1	5.0	803.1	1477.2	674.1	72	640	0	711	0.8804	
ENGPNGTS	362.0	3.6	358.4	365.0	6.6	1	312	0	312	0.8631	
ENGLNG	71.0	0.0	71.0	9307.5	9236.5	0	0	0	0	0.0000	
ENGPropane	144.5	0.0	144.5	6335.0	6190.5	0	0	0	0	0.0000	
ENGC3Truck	144.5	0.0	144.5	4380.0	4235.5	145	0	0	145	1.0000	
Dracut 30	2481.0	5.2	2475.8	10950.0	8474.2	108	4388	0	4496	1.8122	
UnionCharges	826.9	9.4	817.5	1477.2	659.7	0	140	0	140	0.1693	
Dracut 20	1573.0	3.3	1569.7	7300.0	5730.3	68	1134	0	1202	0.7641	

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2029 thru OCT 2030

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPZ4	2256.9	62.9	2194.0	9125.0	6931.0	672	0	0	672	0.2976	
Z4toTGPLH	3939.5	33.5	3906.1	7665.0	3758.9	444	0	0	444	0.1126	
Z4toStg	2750.9	9.1	2741.8	7882.5	5140.8	136	0	0	136	0.0495	
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335	
GranBrdgPL	4035.3	8.5	4026.9	73000.0	68973.1	0		0			
Repsol to101	2437.5	73.1	2364.4	21574.8	19210.4	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000	
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000	
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000	
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	1671.0	0.0	1671.0	1825.0	154.0	52		0			
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000	
Total		256.2				2207					

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:56:18

NOV 2030 thru OCT 2031

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2235	JAN 19, 2031	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	208.77
Other Variable Cost	30	Carrying Cost	361			System Unserved	0.00
		Other Variable Cost	0			Total	208.77
Total Variable	██████	Total Variable	455	Total Variable	2235		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	147202
						Total Revenue	0
						Net Cost	147202

Avg Cost of Served Demand 7.250 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.176 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20303.1	0.0	20303.1	0.0	20303.1	20303.1	0.0	0	208.8	0.0
Total	20303.1	0.0	20303.1	0.0	20303.1	20303.1	0.0	0	208.8	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2366.7	18250.0	15883.3			3.2765	7755	0	7755	3.2765
ENGNiagara	1141.3	1167.3	25.9			2.8800	3287	0	3287	2.8800
ENGPNGTS	362.0	365.0	3.0			3.3182	1201	0	1201	3.3182
ENG3Winter	91.7	91.7	0.0			15.4545	1418	0	1418	15.4545
ENG-Z4	6690.4	6690.4	0.0			2.3247	15553	0	15553	2.3247
Dracut 20	2441.2	7315.4	4874.2			5.9232	14460	0	14460	5.9232
ENG3Summer	69.1	93.5	24.4			10.3030	712	0	712	10.3030
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENG Dawn	838.7	2190.0	1351.3			3.2544	2729	0	2729	3.2544

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NOV 2030 thru OCT 2031

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0.0000	
Repsol 40	2437.5	2437.5	0.0								
Dracut 30	1817.8	10973.0	9155.2			6.3012	11454	0	11454	6.3012	
Engie Combo	630.0	630.0	0.0								
DAWN5	1685.2	1825.0	139.8								
Total	20592.7										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	71.0	71.0	0	0.0	12	95	0.0	0	144	145	1
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1062	1072	10
ENGFSMA	1498	96	1775.3	1756.3	0	19.0	1498	96	0.0	0	3433	3466	33
ENGDominion	103	100	110.4	108.2	0	2.2	103	100	0.0	0	244	244	0
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1566	1584	18
ENGHON	246	100	234.9	234.9	0	0.0	246	100	0.0	0	556	561	5
Total	2606	98	3076.2	3049.3	0	26.9	2606	98	5.7	0	7004	7072	68

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2366.7	0.0	2366.7	7882.5	5515.8	0	5043	0	5043	2.1309	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6105.0	0.0	6105.0	8698.1	2593.1	0	0	0	0	0.0000	
ENGTGPBND	1141.3	7.1	1134.2	1139.5	5.3	97	267	0	365	0.3196	
ENGTGPShort	2811.8	23.9	2787.9	10262.0	7474.1	317	2688	0	3004	1.0685	
TrCanCharges	829.1	9.5	819.6	1477.2	657.6	0	698	0	698	0.8414	
IroqCharges	819.6	5.1	814.5	1477.2	662.7	73	640	0	712	0.8693	
ENGPNGTS	362.0	3.6	358.4	365.0	6.6	1	312	0	312	0.8631	
ENGLNG	71.0	0.0	71.0	9307.5	9236.5	0	0	0	0	0.0000	
ENGPropane	160.8	0.0	160.8	6335.0	6174.2	0	0	0	0	0.0000	
ENGC3Truck	160.8	0.0	160.8	4380.0	4219.2	161	0	0	161	1.0000	
Dracut 30	2625.9	5.5	2620.4	10950.0	8329.6	114	4388	0	4502	1.7146	
UnionCharges	838.7	9.6	829.1	1477.2	648.0	0	140	0	140	0.1669	
Dracut 20	1633.1	3.4	1629.7	7300.0	5670.3	71	1134	0	1205	0.7376	

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2030 thru OCT 2031

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary										
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2259.6	63.0	2196.6	9125.0	6928.4	672	0	0	672	0.2976
Z4toTGPLH	3941.9	33.5	3908.4	7665.0	3756.6	444	0	0	444	0.1126
Z4toStg	2748.5	9.1	2739.4	7882.5	5143.1	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	4049.6	8.5	4041.1	73000.0	68958.9	0	█	0	█	█
Repsol to101	2437.5	73.1	2364.4	21574.8	19210.4	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1685.2	0.0	1685.2	1825.0	139.8	52	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		257.1				2235	█		█	█

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:56:18

NOV 2031 thru OCT 2032

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2254	JAN 19, 2032	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	211.15
Other Variable Cost	30	Carrying Cost	365			System Unserved	0.00
		Other Variable Cost	0			Total	211.15
Total Variable	██████	Total Variable	459	Total Variable	2254		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	150065
						Total Revenue	0
						Net Cost	150065

Avg Cost of Served Demand 7.282 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.237 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20607.0	0.0	20607.0	0.0	20607.0	20607.0	0.0	0	211.2	0.0
Total	20607.0	0.0	20607.0	0.0	20607.0	20607.0	0.0	0	211.2	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2383.8	18300.0	15916.2			3.3095	7889	0	7889	3.3095
ENGNiagara	1145.0	1170.5	25.4			2.9095	3332	0	3332	2.9095
ENGPNGTS	363.0	366.0	3.0			3.3583	1219	0	1219	3.3583
ENG3Winter	91.7	91.7	0.0			15.6091	1432	0	1432	15.6091
ENG-Z4	6698.7	6698.7	0.0			2.3485	15732	0	15732	2.3485
Dracut 20	2563.7	7335.4	4771.7			6.0965	15630	0	15630	6.0965
ENG3Summer	69.1	93.5	24.4			10.4060	719	0	719	10.4060
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENG Dawn	866.3	2196.0	1329.7			3.2795	2841	0	2841	3.2795

5/5

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2031 thru OCT 2032

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54900.0	54900.0			0.0000	0	0	0	0.0000	
Repsol 40	2437.5	2437.5	0.0								
Dracut 30	1928.1	11003.1	9075.0			6.4351	12408	0	12408	6.4351	
Engie Combo	630.0	630.0	0.0								
DAWN5	1700.5	1830.0	129.5								
Total	20898.5										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	71.0	71.0	0	0.0	12	95	0.0	0	145	147	1
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1072	1082	10
ENGFSMA	1498	96	1775.3	1756.3	0	19.0	1498	96	0.0	0	3466	3500	34
ENGDominion	103	100	110.4	108.2	0	2.2	103	100	0.0	0	244	246	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1584	1599	15
ENGHON	246	100	236.1	236.1	0	0.0	246	100	0.0	0	561	567	6
Total	2606	98	3077.4	3050.5	0	26.9	2606	98	5.7	0	7072	7140	68

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2383.8	0.0	2383.8	7904.1	5520.3	0	5043	0	5043	2.1156	
ENGTGP2Stg	107.1	2.2	105.0	7904.1	7799.2	28	0	0	28	0.2572	
ENGTGPLong	6128.7	0.0	6128.7	8719.7	2591.0	0	0	0	0	0.0000	
ENGTGPBND	1145.0	7.1	1137.9	1142.7	4.7	98	267	0	365	0.3188	
ENGTGPShort	2813.0	23.9	2789.1	10290.1	7501.0	317	2688	0	3005	1.0681	
TrCanCharges	856.4	9.8	846.5	1481.2	634.7	0	698	0	698	0.8146	
IroqCharges	846.5	5.2	841.3	1481.2	639.9	75	640	0	715	0.8445	
ENGPNGTS	363.0	3.6	359.4	366.0	6.6	1	312	0	312	0.8608	
ENGLNG	71.0	0.0	71.0	9333.0	9262.0	0	0	0	0	0.0000	
ENGPropane	160.8	0.0	160.8	6370.0	6209.2	0	0	0	0	0.0000	
ENGC3Truck	160.8	0.0	160.8	4392.0	4231.2	161	0	0	161	1.0000	
Dracut 30	2769.9	5.8	2764.1	10980.0	8215.9	120	4388	0	4509	1.6277	
UnionCharges	866.3	9.9	856.4	1481.2	624.8	0	140	0	140	0.1616	
Dracut 20	1722.0	3.6	1718.3	7320.0	5601.7	75	1134	0	1208	0.7018	

53

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2031 thru OCT 2032

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPZ4	2276.7	63.5	2213.2	9150.0	6936.8	677	0	0	677	0.2976	
Z4toTGPLH	3949.0	33.6	3915.5	7686.0	3770.5	445	0	0	445	0.1126	
Z4toStg	2749.7	9.1	2740.6	7904.1	5163.6	136	0	0	136	0.0495	
Engie2CG	580.0	0.0	580.0	1064.0	484.0	19	0	0	19	0.0335	
GranBrdgPL	4064.9	8.5	4056.4	73200.0	69143.6	0		0			
Repsol to101	2437.5	73.1	2364.4	21633.9	19269.5	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000	
LNGtoRT101	0.0	0.0	0.0	56821.5	56821.5	0	0	0	0	0.0000	
LNGtoLNG	0.0	0.0	0.0	2928.0	2928.0	0	0	0	0	0.0000	
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	1700.5	0.0	1700.5	1830.0	129.5	53		0			
DAWN5Dracut	0.0	0.0	0.0	1830.0	1830.0	0	0	0	0	0.0000	
Total		259.0				2254					

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:56:18

NOV 2032 thru OCT 2033

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2258	JAN 19, 2033	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	213.52
Other Variable Cost	31	Carrying Cost	369			System Unserved	0.00
		Other Variable Cost	0			Total	213.52
Total Variable	██████	Total Variable	463	Total Variable	2258		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	152267
						Total Revenue	0
						Net Cost	152267

Avg Cost of Served Demand 7.335 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.303 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20758.9	0.0	20758.9	0.0	20758.9	20758.9	0.0	0	213.5	0.0
Total	20758.9	0.0	20758.9	0.0	20758.9	20758.9	0.0	0	213.5	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2373.5	18250.0	15876.5			3.3419	7932	0	7932	3.3419
ENGNiagara	1142.3	1167.3	24.9			2.9378	3356	0	3356	2.9378
ENGPNGTS	362.0	365.0	3.0			3.3849	1225	0	1225	3.3849
ENG3Winter	91.7	91.7	0.0			15.7652	1446	0	1446	15.7652
ENG-Z4	6690.4	6690.4	0.0			2.3715	15866	0	15866	2.3715
Dracut 20	2627.0	7315.4	4688.4			6.2436	16402	0	16402	6.2436
ENG3Summer	69.1	93.5	24.4			10.5101	726	0	726	10.5101
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENG Dawn	881.1	2190.0	1308.9			3.3051	2912	0	2912	3.3051

NOV 2032 thru OCT 2033

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0.0000	
Repsol 40	2437.5	2437.5	0.0								
Dracut 30	2021.2	10973.0	8951.9			6.6095	13359	0	13359	6.6095	
Engie Combo	630.0	630.0	0.0								
DAWN5	1704.5	1825.0	120.5								
Total	21051.4										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	71.0	70.4	0	0.0	13	100	0.0	1	147	151	4
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1082	1092	10
ENGFSMA	1498	96	1775.3	1756.3	0	19.0	1498	96	0.0	0	3500	3535	34
ENGDominion	103	100	110.4	108.2	0	2.2	103	100	0.0	0	246	248	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1599	1614	15
ENGHON	246	100	234.9	234.9	0	0.0	246	100	0.0	0	567	572	5
Total	2606	98	3076.2	3048.7	0	26.9	2607	98	5.7	1	7140	7212	72

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2373.5	0.0	2373.5	7882.5	5509.1	0	5043	0	5043	2.1249	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6111.6	0.0	6111.6	8698.1	2586.5	0	0	0	0	0.0000	
ENGTGPBND	1142.3	7.1	1135.3	1139.5	4.3	98	267	0	365	0.3194	
ENGTGPShort	2811.8	23.9	2787.9	10262.0	7474.1	317	2688	0	3004	1.0685	
TrCanCharges	871.1	10.0	861.1	1477.2	616.1	0	698	0	698	0.8008	
IroqCharges	861.1	5.3	855.7	1477.2	621.4	76	640	0	716	0.8317	
ENGPNGTS	362.0	3.6	358.4	365.0	6.6	1	312	0	312	0.8631	
ENGLNG	70.4	0.0	70.4	9307.5	9237.1	0	0	0	0	0.0000	
ENGPropane	160.8	0.0	160.8	6335.0	6174.2	0	0	0	0	0.0000	
ENGC3Truck	160.8	0.0	160.8	4380.0	4219.2	161	0	0	161	1.0000	
Dracut 30	2796.3	5.9	2790.5	10950.0	8159.5	121	4388	0	4510	1.6127	
UnionCharges	881.1	10.0	871.1	1477.2	606.1	0	140	0	140	0.1589	
Dracut 20	1851.9	3.9	1848.0	7300.0	5452.0	80	1134	0	1214	0.6556	

63

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2032 thru OCT 2033

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2266.3	63.2	2203.2	9125.0	6921.8	674	0	0	674	0.2976
Z4toTGPLH	3941.9	33.5	3908.4	7665.0	3756.6	444	0	0	444	0.1126
Z4toStg	2748.5	9.1	2739.4	7882.5	5143.1	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	4068.9	8.5	4060.3	73000.0	68939.7	0	█	0	█	█
Repsol to101	2437.5	73.1	2364.4	21574.8	19210.4	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1704.5	0.0	1704.5	1825.0	120.5	53	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		259.4				2258	█		█	█

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:56:18

NOV 2033 thru OCT 2034

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2269	JAN 19, 2034	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	215.84
Other Variable Cost	31	Carrying Cost	373			System Unserved	0.00
		Other Variable Cost	0			Total	215.84
Total Variable	██████	Total Variable	467	Total Variable	2269		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	154771
						Total Revenue	0
						Net Cost	154771

Avg Cost of Served Demand 7.381 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.367 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20970.2	0.0	20970.2	0.0	20970.2	20970.2	0.0	0	215.8	0.0
Total	20970.2	0.0	20970.2	0.0	20970.2	20970.2	0.0	0	215.8	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2376.6	18250.0	15873.4			3.3751	8021	0	8021	3.3751
ENGNiagara	1142.7	1167.3	24.6			2.9671	3391	0	3391	2.9671
ENGPNGTS	362.0	365.0	3.0			3.4187	1238	0	1238	3.4187
ENG3Winter	91.7	91.7	0.0			15.9228	1461	0	1461	15.9228
ENG-Z4	6690.4	6690.4	0.0			2.3952	16025	0	16025	2.3952
Dracut 20	2674.8	7315.4	4640.6			6.3702	17039	0	17039	6.3702
ENG3Summer	69.1	93.5	24.4			10.6152	733	0	733	10.6152
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENG Dawn	899.1	2190.0	1290.9			3.3322	2996	0	2996	3.3322

NOV 2033 thru OCT 2034

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0.0000	
Repsol 40	2437.5	2437.5	0.0								
Dracut 30	2155.7	10973.0	8817.4			6.7848	14626	0	14626	6.7848	
Engie Combo	630.0	630.0	0.0								
DAWN5	1711.9	1825.0	113.1								
Total	21262.5										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	71.0	71.6	0	0.0	12	95	0.0	-1	151	149	-2
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1092	1102	10
ENGFSMA	1498	96	1775.3	1756.3	0	19.0	1498	96	0.0	0	3535	3569	35
ENGDominion	103	100	110.4	108.2	0	2.2	103	100	0.0	0	248	251	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1614	1629	15
ENGHON	246	100	234.9	234.9	0	0.0	246	100	0.0	0	572	578	6
Total	2607	98	3076.2	3050.0	0	26.9	2606	98	5.7	-1	7212	7278	66

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2376.6	0.0	2376.6	7882.5	5506.0	0	5043	0	5043	2.1221	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6114.6	0.0	6114.6	8698.1	2583.5	0	0	0	0	0.0000	
ENGTGPBND	1142.7	7.1	1135.6	1139.5	3.9	98	267	0	365	0.3193	
ENGTGPShort	2811.8	23.9	2787.9	10262.0	7474.1	317	2688	0	3004	1.0685	
TrCanCharges	888.9	10.2	878.7	1477.2	598.5	0	698	0	698	0.7848	
IroqCharges	878.7	5.4	873.2	1477.2	603.9	78	640	0	718	0.8168	
ENGPNGTS	362.0	3.6	358.4	365.0	6.6	1	312	0	312	0.8631	
ENGLNG	71.6	0.0	71.6	9307.5	9235.9	0	0	0	0	0.0000	
ENGPropane	160.8	0.0	160.8	6335.0	6174.2	0	0	0	0	0.0000	
ENGC3Truck	160.8	0.0	160.8	4380.0	4219.2	161	0	0	161	1.0000	
Dracut 30	2939.7	6.2	2933.6	10950.0	8016.4	128	4388	0	4516	1.5362	
UnionCharges	899.1	10.2	888.9	1477.2	588.3	0	140	0	140	0.1557	
Dracut 20	1890.7	4.0	1886.8	7300.0	5413.2	82	1134	0	1216	0.6430	

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2033 thru OCT 2034

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary										
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2269.4	63.3	2206.2	9125.0	6918.8	675	0	0	675	0.2976
Z4toTGPLH	3941.9	33.5	3908.4	7665.0	3756.6	444	0	0	444	0.1126
Z4toStg	2748.5	9.1	2739.4	7882.5	5143.1	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	4076.2	8.6	4067.7	73000.0	68932.3	0	█	0	█	█
Repsol to101	2437.5	73.1	2364.4	21574.8	19210.4	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1711.9	0.0	1711.9	1825.0	113.1	53	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		260.4				2269	█		█	█

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:56:18

NOV 2034 thru OCT 2035

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2278	JAN 19, 2035	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	217.91
Other Variable Cost	31	Carrying Cost	377			System Unserved	0.00
		Other Variable Cost	0			Total	217.91
Total Variable	██████	Total Variable	471	Total Variable	2278		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	157172
						Total Revenue	0
						Net Cost	157172

Avg Cost of Served Demand 7.428 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.431 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21158.1	0.0	21158.1	0.0	21158.1	21158.1	0.0	0	217.9	0.0
Total	21158.1	0.0	21158.1	0.0	21158.1	21158.1	0.0	0	217.9	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2379.4	18250.0	15870.6			3.4087	8110	0	8110	3.4087
ENGNiagara	1143.0	1167.3	24.2			2.9967	3425	0	3425	2.9967
ENGPNGTS	362.0	365.0	3.0			3.4529	1250	0	1250	3.4529
ENG3Winter	91.7	91.7	0.0			16.0820	1475	0	1475	16.0820
ENG-Z4	6690.4	6690.4	0.0			2.4191	16185	0	16185	2.4191
Dracut 20	2784.7	7315.4	4530.7			6.5268	18175	0	18175	6.5268
ENG3Summer	69.1	93.5	24.4			10.7214	741	0	741	10.7214
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENG3Dawn	915.5	2190.0	1274.5			3.3605	3077	0	3077	3.3605

NOV 2034 thru OCT 2035

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0.0000	
Repsol 40	2437.5	2437.5	0.0								
Dracut 30	2209.8	10973.0	8763.3			6.9221	15296	0	15296	6.9221	
Engie Combo	630.0	630.0	0.0								
DAWN5	1717.8	1825.0	107.2								
Total	21451.9										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	71.0	71.0	0	0.0	12	95	0.0	0	149	151	1
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1102	1112	10
ENGFSMA	1498	96	1775.3	1756.3	0	19.0	1498	96	0.0	0	3569	3605	35
ENGDominion	103	100	110.4	108.2	0	2.2	103	100	0.0	0	251	253	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1629	1645	15
ENGHON	246	100	234.9	234.9	0	0.0	246	100	0.0	0	578	584	6
Total	2606	98	3076.2	3049.3	0	26.9	2606	98	5.7	0	7278	7349	70

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2379.4	0.0	2379.4	7882.5	5503.2	0	5043	0	5043	2.1196	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6117.3	0.0	6117.3	8698.1	2580.8	0	0	0	0	0.0000	
ENGTGPBND	1143.0	7.1	1135.9	1139.5	3.6	98	267	0	365	0.3192	
ENGTGPShort	2811.8	23.9	2787.9	10262.0	7474.1	317	2688	0	3004	1.0685	
TrCanCharges	905.1	10.4	894.7	1477.2	582.5	0	698	0	698	0.7707	
IroqCharges	894.7	5.5	889.1	1477.2	588.0	79	640	0	719	0.8038	
ENGPNGTS	362.0	3.6	358.4	365.0	6.6	1	312	0	312	0.8631	
ENGLNG	71.0	0.0	71.0	9307.5	9236.5	0	0	0	0	0.0000	
ENGPropane	160.8	0.0	160.8	6335.0	6174.2	0	0	0	0	0.0000	
ENGC3Truck	160.8	0.0	160.8	4380.0	4219.2	161	0	0	161	1.0000	
Dracut 30	3065.9	6.4	3059.5	10950.0	7890.5	133	4388	0	4521	1.4747	
UnionCharges	915.5	10.4	905.1	1477.2	572.1	0	140	0	140	0.1529	
Dracut 20	1928.5	4.0	1924.5	7300.0	5375.5	84	1134	0	1217	0.6313	

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2034 thru OCT 2035

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2272.2	63.3	2208.9	9125.0	6916.1	676	0	0	676	0.2976
Z4toTGPLH	3941.9	33.5	3908.4	7665.0	3756.6	444	0	0	444	0.1126
Z4toStg	2748.5	9.1	2739.4	7882.5	5143.1	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	4082.1	8.6	4073.6	73000.0	68926.4	0	█	0	█	█
Repsol to101	2437.5	73.1	2364.4	21574.8	19210.4	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1717.8	0.0	1717.8	1825.0	107.2	53	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		261.3				2278	█		█	█

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:56:18

NOV 2035 thru OCT 2036

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2294	JAN 19, 2036	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	219.62
Other Variable Cost	32	Carrying Cost	380			System Unserved	0.00
		Other Variable Cost	0			Total	219.62
Total Variable	██████	Total Variable	474	Total Variable	2294		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	159796
						Total Revenue	0
						Net Cost	159796

Avg Cost of Served Demand 7.467 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.490 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21399.4	0.0	21399.4	0.0	21399.4	21399.4	0.0	0	219.6	0.0
Total	21399.4	0.0	21399.4	0.0	21399.4	21399.4	0.0	0	219.6	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2395.2	18300.0	15904.8			3.4431	8247	0	8247	3.4431
ENGNiagara	1146.5	1170.5	24.0			3.0275	3471	0	3471	3.0275
ENGPNGTS	363.0	366.0	3.0			3.4947	1269	0	1269	3.4947
ENG3Winter	91.7	91.7	0.0			16.2429	1490	0	1490	16.2429
ENG-Z4	6698.7	6698.7	0.0			2.4439	16371	0	16371	2.4439
Dracut 20	2853.7	7335.4	4481.8			6.6407	18950	0	18950	6.6407
ENG3Summer	69.1	93.5	24.4			10.8286	748	0	748	10.8286
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENG3Dawn	935.2	2196.0	1260.8			3.3902	3170	0	3170	3.3902

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2035 thru OCT 2036

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54900.0	54900.0			0.0000	0	0	0	0.0000	
Repsol 40	2437.5	2437.5	0.0								
Dracut 30	2325.1	11003.1	8678.0			7.0623	16420	0	16420	7.0623	
Engie Combo	630.0	630.0	0.0								
DAWN5	1728.1	1830.0	101.9								
Total	21694.7										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	71.0	71.0	0	0.0	12	95	0.0	0	151	152	1
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1112	1122	10
ENGFSMA	1498	96	1775.3	1756.3	0	19.0	1498	96	0.0	0	3605	3640	36
ENGDominion	103	100	110.4	108.2	0	2.2	103	100	0.0	0	253	256	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1645	1660	15
ENGHON	246	100	234.9	234.9	0	0.0	246	100	0.0	0	584	589	6
Total	2606	98	3076.2	3049.3	0	26.9	2606	98	5.7	0	7349	7419	71

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2395.2	0.0	2395.2	7904.1	5508.9	0	5043	0	5043	2.1055	
ENGTGP2Stg	107.1	2.2	105.0	7904.1	7799.2	28	0	0	28	0.2572	
ENGTGPLong	6141.0	0.0	6141.0	8719.7	2578.7	0	0	0	0	0.0000	
ENGTGPBND	1146.5	7.1	1139.4	1142.7	3.3	98	267	0	365	0.3185	
ENGTGPShort	2811.8	23.9	2787.9	10290.1	7502.2	317	2688	0	3004	1.0685	
TrCanCharges	924.5	10.6	913.9	1481.2	567.3	0	698	0	698	0.7545	
IroqCharges	913.9	5.7	908.2	1481.2	573.0	81	640	0	721	0.7888	
ENGPNGTS	363.0	3.6	359.4	366.0	6.6	1	312	0	312	0.8608	
ENGLNG	71.0	0.0	71.0	9333.0	9262.0	0	0	0	0	0.0000	
ENGPropane	160.8	0.0	160.8	6370.0	6209.2	0	0	0	0	0.0000	
ENGC3Truck	160.8	0.0	160.8	4392.0	4231.2	161	0	0	161	1.0000	
Dracut 30	3207.2	6.7	3200.5	10980.0	7779.5	139	4388	0	4528	1.4117	
UnionCharges	935.2	10.7	924.5	1481.2	556.7	0	140	0	140	0.1497	
Dracut 20	1971.5	4.1	1967.4	7320.0	5352.6	86	1134	0	1219	0.6184	

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2035 thru OCT 2036

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2288.1	63.8	2224.3	9150.0	6925.7	681	0	0	681	0.2976
Z4toTGPLH	3950.2	33.6	3916.6	7686.0	3769.4	445	0	0	445	0.1126
Z4toStg	2748.5	9.1	2739.4	7904.1	5164.7	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1064.0	484.0	19	0	0	19	0.0335
GranBrdgPL	4092.5	8.6	4083.9	73200.0	69116.1	0	█	0	█	█
Repsol to101	2437.5	73.1	2364.4	21633.9	19269.5	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56821.5	56821.5	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2928.0	2928.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1728.1	0.0	1728.1	1830.0	101.9	53	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1830.0	1830.0	0	0	0	0	0.0000
Total		262.8				2294	█		█	█

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:56:18

NOV 2036 thru OCT 2037

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2296	JAN 19, 2037	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	221.46
Other Variable Cost	32	Carrying Cost	385			System Unserved	0.00
		Other Variable Cost	0			Total	221.46
Total Variable	██████	Total Variable	479	Total Variable	2296		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	161750
						Total Revenue	0
						Net Cost	161750

Avg Cost of Served Demand 7.525 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.556 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21495.4	0.0	21495.4	0.0	21495.4	21495.4	0.0	0	221.5	0.0
Total	21495.4	0.0	21495.4	0.0	21495.4	21495.4	0.0	0	221.5	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2383.6	18250.0	15866.4			3.4768	8287	0	8287	3.4768
ENGNiagara	1143.6	1167.3	23.6			3.0569	3496	0	3496	3.0569
ENGPNGTS	362.0	365.0	3.0			3.5223	1275	0	1275	3.5223
ENG3Winter	91.7	91.7	0.0			16.4053	1505	0	1505	16.4053
ENG-Z4	6690.4	6690.4	0.0			2.4678	16510	0	16510	2.4678
Dracut 20	2930.4	7315.4	4385.0			6.8238	19996	0	19996	6.8238
ENG3Summer	69.1	93.5	24.4			10.9369	756	0	756	10.9369
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENG Dawn	946.4	2190.0	1243.6			3.4187	3235	0	3235	3.4187

NOV 2036 thru OCT 2037

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0.0000	
Repsol 40	2437.5	2437.5	0.0								
Dracut 30	2356.9	10973.0	8616.2			7.1523	16857	0	16857	7.1523	
Engie Combo	630.0	630.0	0.0								
DAWN5	1728.3	1825.0	96.7								
Total	21790.9										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	71.0	71.0	0	0.0	12	95	0.0	0	152	154	1
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1122	1132	10
ENGFSMA	1498	96	1775.1	1756.1	0	19.0	1498	96	0.0	0	3640	3676	36
ENGDominion	103	100	110.1	107.9	0	2.1	103	100	0.0	0	256	258	2
ENGNFG	671	100	728.2	722.5	0	5.8	671	100	5.7	0	1660	1676	16
ENGHON	246	100	235.2	235.2	0	0.0	246	100	0.0	0	589	595	6
Total	2606	98	3080.4	3053.5	0	26.9	2606	98	5.7	0	7419	7491	72

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2383.6	0.0	2383.6	7882.5	5498.9	0	5043	0	5043	2.1158	
ENGTGP2Stg	111.7	2.3	109.4	7882.5	7773.1	29	0	0	29	0.2572	
ENGTGPLong	6117.3	0.0	6117.3	8698.1	2580.8	0	0	0	0	0.0000	
ENGTGPBND	1143.6	7.1	1136.5	1139.5	3.0	98	267	0	365	0.3191	
ENGTGPShort	2815.9	23.9	2792.0	10262.0	7470.0	317	2688	0	3005	1.0671	
TrCanCharges	935.6	10.8	924.9	1477.2	552.3	0	698	0	698	0.7456	
IroqCharges	924.9	5.7	919.1	1477.2	558.0	82	640	0	722	0.7805	
ENGPNGTS	362.0	3.6	358.4	365.0	6.6	1	312	0	312	0.8631	
ENGLNG	71.0	0.0	71.0	9307.5	9236.5	0	0	0	0	0.0000	
ENGPropane	160.8	0.0	160.8	6335.0	6174.2	0	0	0	0	0.0000	
ENGC3Truck	160.8	0.0	160.8	4380.0	4219.2	161	0	0	161	1.0000	
Dracut 30	3099.1	6.5	3092.6	10950.0	7857.4	135	4388	0	4523	1.4594	
UnionCharges	946.4	10.8	935.6	1477.2	541.5	0	140	0	140	0.1479	
Dracut 20	2188.2	4.6	2183.6	7300.0	5116.4	95	1134	0	1229	0.5615	

14

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2036 thru OCT 2037

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPZ4	2271.9	63.3	2208.6	9125.0	6916.4	676	0	0	676	0.2976	
Z4toTGPLH	3942.2	33.5	3908.7	7665.0	3756.3	444	0	0	444	0.1126	
Z4toStg	2748.2	9.1	2739.1	7882.5	5143.4	136	0	0	136	0.0495	
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335	
GranBrdgPL	4092.6	8.6	4084.1	73000.0	68915.9	0	█	0	█	█	
Repsol to101	2437.5	73.1	2364.4	21574.8	19210.4	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000	
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000	
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000	
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	1728.3	0.0	1728.3	1825.0	96.7	53	█	0	█	█	
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000	
Total		262.9				2296	█		█	█	

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:56:18

NOV 2037 thru OCT 2038

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2305	JAN 19, 2038	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	223.32
Other Variable Cost	32	Carrying Cost	389			System Unserved	0.00
		Other Variable Cost	0			Total	223.32
Total Variable	██████	Total Variable	483	Total Variable	2305		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	164175
						Total Revenue	0
						Net Cost	164175

Avg Cost of Served Demand 7.576 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.621 USD/DT
(Supply Cost/LDC Purchase)

Class	Demand Summary					Served	Unserved	Revenue	Peak Served	Peak Unserved
	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.					
ENGINormal	21670.7	0.0	21670.7	0.0	21670.7	21670.7	0.0	0	223.3	0.0
Total	21670.7	0.0	21670.7	0.0	21670.7	21670.7	0.0	0	223.3	0.0

Source	Supply Summary			Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
	Total Take	Max Take	Surplus							
ENGUSGC	2385.7	18250.0	15864.3			3.5114	8377	0	8377	3.5114
ENGNiagara	1143.9	1167.3	23.3			3.0874	3532	0	3532	3.0874
ENGPNGTS	362.7	365.0	2.3			3.5630	1292	0	1292	3.5630
ENG3Winter	91.7	91.7	0.0			16.5693	1520	0	1520	16.5693
ENG-Z4	6690.4	6690.4	0.0			2.4924	16675	0	16675	2.4924
Dracut 20	3003.1	7315.4	4312.2			6.9183	20776	0	20776	6.9183
ENG3Summer	69.1	93.5	24.4			11.0462	763	0	763	11.0462
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENG Dawn	962.7	2190.0	1227.3			3.4482	3319	0	3319	3.4482

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2037 thru OCT 2038

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0.0000	
Repsol 40	2437.5	2437.5	0.0								
Dracut 30	2435.9	10973.0	8537.1			7.3429	17887	0	17887	7.3429	
Engie Combo	630.0	630.0	0.0								
DAWN5	1733.2	1825.0	91.8								
Total	21967.1										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	71.0	71.0	0	0.0	12	95	0.0	0	154	155	2
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1132	1143	10
ENGFSMA	1498	96	1776.5	1757.5	0	19.0	1498	96	0.0	0	3676	3711	36
ENGDominion	103	100	109.8	107.6	0	2.1	103	100	0.0	0	258	261	3
ENGNFG	671	100	728.2	722.5	0	5.8	671	100	5.7	0	1676	1693	17
ENGHON	246	100	235.9	235.9	0	0.0	246	100	0.0	0	595	601	5
Total	2606	98	3082.2	3055.3	0	26.9	2606	98	5.7	0	7491	7564	72

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2385.7	0.0	2385.7	7882.5	5496.8	0	5043	0	5043	2.1139	
ENGTGP2Stg	113.9	2.3	111.5	7882.5	7771.0	29	0	0	29	0.2572	
ENGTGPLong	6117.6	0.0	6117.6	8698.1	2580.5	0	0	0	0	0.0000	
ENGTGPBND	1143.9	7.1	1136.8	1139.5	2.7	98	267	0	365	0.3190	
ENGTGPShort	2817.7	24.0	2793.8	10262.0	7468.2	317	2688	0	3005	1.0665	
TrCanCharges	951.7	10.9	940.8	1477.2	536.4	0	698	0	698	0.7330	
IroqCharges	940.8	5.8	934.9	1477.2	542.2	83	640	0	723	0.7688	
ENGPNGTS	362.7	3.6	359.1	365.0	5.9	1	312	0	312	0.8614	
ENGLNG	71.0	0.0	71.0	9307.5	9236.5	0	0	0	0	0.0000	
ENGPropane	160.8	0.0	160.8	6335.0	6174.2	0	0	0	0	0.0000	
ENGC3Truck	160.8	0.0	160.8	4380.0	4219.2	161	0	0	161	1.0000	
Dracut 30	3062.5	6.4	3056.0	10950.0	7894.0	133	4388	0	4521	1.4763	
UnionCharges	962.7	11.0	951.7	1477.2	525.5	0	140	0	140	0.1454	
Dracut 20	2376.6	5.0	2371.6	7300.0	4928.4	103	1134	0	1237	0.5204	

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2037 thru OCT 2038

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary										
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2271.9	63.3	2208.5	9125.0	6916.5	676	0	0	676	0.2976
Z4toTGPLH	3942.5	33.5	3909.0	7665.0	3756.0	444	0	0	444	0.1126
Z4toStg	2747.9	9.1	2738.8	7882.5	5143.7	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	4097.6	8.6	4089.0	73000.0	68911.0	0	█	0	█	█
Repsol to101	2437.5	73.1	2364.4	21574.8	19210.4	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1733.2	0.0	1733.2	1825.0	91.8	54	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		263.8				2305	█		█	█

Scen 1516 ACS Supplemental
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 18:56:18

NOV 2038 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2313	JAN 19, 2039	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	225.31
Other Variable Cost	33	Carrying Cost	392			System Unserved	0.00
		Other Variable Cost	0			Total	225.31
Total Variable	██████	Total Variable	486	Total Variable	2313		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	94	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	166707
						Total Revenue	0
						Net Cost	166707

Avg Cost of Served Demand 7.628 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.692 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21855.0	0.0	21855.0	0.0	21855.0	21855.0	0.0	0	225.3	0.0
Total	21855.0	0.0	21855.0	0.0	21855.0	21855.0	0.0	0	225.3	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2387.4	18250.0	15862.6			3.5463	8467	0	8467	3.5463
ENGNiagara	1144.3	1167.3	23.0			3.1183	3568	0	3568	3.1183
ENGPNGTS	364.0	365.0	1.0			3.6081	1313	0	1313	3.6081
ENG3Winter	91.7	91.7	0.0			16.7350	1535	0	1535	16.7350
ENG-Z4	6690.4	6690.4	0.0			2.5174	16842	0	16842	2.5174
Dracut 20	3024.6	7315.4	4290.8			7.0710	21387	0	21387	7.0710
ENG3Summer	69.1	93.5	24.4			11.1567	771	0	771	11.1567
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████
ENG Dawn	963.6	2190.0	1226.4			3.4827	3356	0	3356	3.4827

NOV 2038 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	54750.0	54750.0			0.0000	0	0	0	0.0000	
Repsol 40	2437.5	2437.5	0.0								
Dracut 30	2574.4	10973.0	8398.6			7.4713	19234	0	19234	7.4713	
Engie Combo	630.0	630.0	0.0								
DAWN5	1738.2	1825.0	86.8								
Total	22136.2										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	71.0	71.0	0	0.0	12	95	0.0	0	155	157	2
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1143	1153	11
ENGFSMA	1498	96	1759.9	1756.7	0	18.8	1482	95	0.0	-16	3711	3709	-2
ENGDominion	103	100	109.8	107.6	0	2.1	103	100	0.0	0	261	263	3
ENGNFG	671	100	728.2	722.5	0	5.8	671	100	5.7	0	1693	1708	16
ENGHON	246	100	238.5	238.5	0	0.0	246	100	0.0	0	601	607	6
Total	2606	98	3068.3	3057.2	0	26.7	2591	97	5.7	-16	7564	7598	34

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2387.4	0.0	2387.4	7882.5	5495.2	0	5043	0	5043	2.1125	
ENGTGP2Stg	115.8	2.4	113.4	7882.5	7769.1	30	0	0	30	0.2572	
ENGTGPLong	6133.0	0.0	6133.0	8698.1	2565.1	0	0	0	0	0.0000	
ENGTGPBND	1144.3	7.1	1137.2	1139.5	2.4	98	267	0	365	0.3190	
ENGTGPShort	2819.6	24.0	2795.7	10262.0	7466.3	318	2688	0	3005	1.0658	
TrCanCharges	952.7	11.0	941.7	1477.2	535.4	0	698	0	698	0.7322	
IroqCharges	941.7	5.8	935.9	1477.2	541.3	84	640	0	723	0.7681	
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584	
ENGLNG	71.0	0.0	71.0	9307.5	9236.5	0	0	0	0	0.0000	
ENGPropane	160.8	0.0	160.8	6335.0	6174.2	0	0	0	0	0.0000	
ENGC3Truck	160.8	0.0	160.8	4380.0	4219.2	161	0	0	161	1.0000	
Dracut 30	3330.6	7.0	3323.6	10950.0	7626.4	145	4388	0	4533	1.3610	
UnionCharges	963.6	11.0	952.7	1477.2	524.5	0	140	0	140	0.1453	
Dracut 20	2268.3	4.8	2263.6	7300.0	5036.4	98	1134	0	1232	0.5432	

Scen 1516 ACS Supplemental
- Draw 0

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SENDOUT® Version 14.1.1 REP 1 07-Mar-2019
Report 1 (Continued) 18:56:18

NOV 2038 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2271.6	63.3	2208.3	9125.0	6916.7	676	0	0	676	0.2976
Z4toTGPLH	3958.3	33.6	3924.7	7665.0	3740.3	446	0	0	446	0.1126
Z4toStg	2732.1	9.0	2723.0	7882.5	5159.5	135	0	0	135	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	4102.6	8.6	4093.9	73000.0	68906.1	0	█	0	█	█
Repsol to101	2437.5	73.1	2364.4	21574.8	19210.4	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1738.2	0.0	1738.2	1825.0	86.8	54	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		264.3				2313	█		█	█

NOV 2018 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████████	Injection Cost	1005	Transportation Cost	46075	JAN 19, 2039	
Penalty Cost	0	Withdrawal Cost	970	Other Variable Cost	0	System Served	225.31
Other Variable Cost	1872	Carrying Cost	7103			System Unserved	0.00
		Other Variable Cost	0			Total	225.31
Total Variable	████████	Total Variable	9078	Total Variable	46075		
Demand/Reservation Co	████████	Demand Cost	████████	Demand Cost	████████		
Other Fixed Cost	12401	Other Fixed Cost	20435	Other Fixed Cost	0		
Total Fixed	████████	Total Fixed	████████	Total Fixed	████████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████████	Net Storage Cost	████████	Net Trans Cost	████████	Total Gas Cost	2820168
						Total Revenue	0
						Net Cost	2820168

Avg Cost of Served Demand 6.944 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.957 USD/DT
(Supply Cost/LDC Purchase)

Class	Demand Summary					Served	Unserved	Revenue	Peak Served	Peak Unserved
	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.					
ENGINormal	406135.6	0.0	406135.6	0.0	406135.6	406135.6	0.0	0	225.3	0.0
Total	406135.6	0.0	406135.6	0.0	406135.6	406135.6	0.0	0	225.3	0.0

Source	Supply Summary			Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
	Total Take	Max Take	Surplus							
ENGUSGC	49608.7	383500.0	333891.3			3.1415	155848	0	155848	3.1415
ENGNiagara	23412.0	24528.7	1116.7			2.7363	64063	0	64063	2.7363
ENGPNGTS	7451.8	7670.0	218.2			3.2266	24044	0	24044	3.2266
ENGC3Winter	1422.3	1926.6	504.3			15.6536	22265	0	22265	15.6536
ENG-Z4	140526.9	140539.9	13.0			2.1594	303459	0	303459	2.1594
DLiqWinter	1000.0	1000.0	0.0							
Dracut 20	50379.3	153722.8	103343.5			6.3827	321558	0	321558	6.3827
ENGC3Summer	1451.0	1962.6	511.6			10.3250	14982	0	14982	10.3250
DLiqSummer	441.0	441.0	0.0							

NOV 2018 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary												
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost		
ENGDawn	17569.3	46020.0	28450.7			3.1532	55399	0	55399	3.1532		
DAWN	0.0	931350.0	931350.0			0.0000	0	0	0	0.0000		
Repsol 40	41437.2	41437.2	0.0									
Dracut 30	32977.7	230584.2	197606.5			6.7091	221252	0	221252	6.7091		
Engie Combo	13230.0	13230.0	0.0									
DAWN5	30966.6	36968.3	6001.6									
Total	411873.9											

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	2476.1	2476.7	0	0.0	12	95	0.0	-1	126	157	31
ENGPropane	77	100	2873.3	2873.3	0	0.0	77	100	0.0	0	953	1153	200
ENGFSMA	1482	95	37227.4	36829.1	0	398.3	1482	95	0.0	0	2573	3709	1136
ENGDominion	103	100	2336.9	2291.3	0	45.6	103	100	0.0	0	178	263	85
ENGNFG	671	100	15200.3	15080.2	0	120.1	671	100	119.1	0	1164	1708	544
ENGHON	246	100	4966.9	4966.9	0	0.0	246	100	0.0	0	427	607	179
Total	2591	97	65080.9	64517.6	0	564.0	2591	97	119.1	-1	5422	7598	2176

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	49608.7	0.0	49608.7	165641.3	116032.6	0	105908	0	105908	2.1349		
ENGTGP2Stg	2216.1	45.3	2170.8	165641.3	163470.6	570	0	0	570	0.2572		
ENGTGPLong	128143.7	0.0	128143.7	182768.0	54624.2	0	0	0	0	0.0000		
ENGTGPBND	23412.0	145.2	23266.9	23945.7	678.9	1999	5614	0	7612	0.3251		
ENGTGPShort	59048.4	501.9	58546.5	215642.1	157095.6	6651	56441	0	63092	1.0685		
TrCanCharges	17369.2	199.7	17169.4	31040.5	13871.1	0	14649	0	14649	0.8434		
IroqCharges	17169.4	106.5	17063.0	31040.5	13977.5	1524	13435	0	14958	0.8712		
ENGPNGTS	7451.8	74.5	7377.3	7670.0	292.7	13	6548	0	6561	0.8805		
ENGLNG	2476.7	0.0	2476.7	195585.0	193108.3	0	0	0	0	0.0000		
ENGPropane	2873.3	0.0	2873.3	133210.0	130336.7	0	0	0	0	0.0000		
ENG3Truck	2873.3	0.0	2873.3	92040.0	89166.7	2873	0	0	2873	1.0000		
Dracut 30	46919.3	98.5	46820.8	230100.0	183279.2	2037	92155	0	94192	2.0075		
UnionCharges	17569.3	200.1	17369.2	31040.5	13671.3	0	2940	0	2940	0.1673		

Scen 1516 ACS Supplemental
- Draw 0

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SENDOUT® Version 14.1.1 REP 1z 07-Mar-2019
Report 1z (Continued) 18:56:18

NOV 2018 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary										
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Dracut 20	39657.4	83.3	39574.1	153400.0	113825.9	1721	23807	0	25529	0.6437
ENGTGPZ4	47392.6	1320.9	46071.7	191750.0	145678.3	14103	0	0	14103	0.2976
Z4toTGPLH	82775.6	703.6	82072.0	161070.0	78998.0	9323	0	0	9323	0.1126
Z4toStg	57751.3	190.6	57560.7	165641.3	108080.6	2861	0	0	2861	0.0495
Engie2CG	12194.9	0.0	12194.9	22232.0	10037.1	409	0	0	409	0.0335
GranBrdgPL	67941.1	142.7	67798.4	1241800.0	1174001.6	0	█	0	█	█
Repsol to101	41437.2	1243.1	40194.1	367007.6	326813.5	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	158800.0	158800.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	1190767.5	1190767.5	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	61360.0	61360.0	0	0	0	0	0.0000
Engie2ENGLNG	1035.1	0.0	1035.1	1050.0	14.9	1035	0	0	1035	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	27747.0	0.0	27747.0	36968.3	9221.3	857	█	0	█	█
DAWN5Dracut	3219.7	0.0	3219.7	36968.3	33748.6	99	0	0	99	0.0309
Total		5055.8				46075	█		█	█

RESOURCE MIX RESULTS

Units: MDT

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	Contract	Start Date	End Date	Min Level	Max Level	Result MDQ
	-----	-----	-----	-----	-----	-----
Supplies	DAWN	NOV 2022	OCT 2039	0.00	150.00	150.00
	Repsol 40	NOV 2022	OCT 2039	0.00	150.00	60.94
	Engie Combo	NOV 2022	OCT 2039	0.00	7.00	7.00

	Contract	Start Date	End Date	Min Level	Max Level	Result MDQ
	-----	-----	-----	-----	-----	-----
Segments	Repsol to101	NOV 2022	OCT 2039	0.00	150.00	59.11
	Dawn2Dracut	NOV 2022	OCT 2039	0.00	150.00	0.00
	DAWNTCPL	NOV 2022	OCT 2039	0.00	150.00	0.00
	PNGTS2RT101	NOV 2022	OCT 2039	0.00	150.00	0.00

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:53:04

NOV 2018 thru OCT 2019

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	48	Transportation Cost	2117	JAN 19, 2019	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	164.57
Other Variable Cost	342	Carrying Cost	313			System Unserved	0.00
Total Variable	██████	Other Variable Cost	0	Total Variable	2117	Total	164.57
		Total Variable	406				
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	2660	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	86687
						Total Revenue	0
						Net Cost	86687

Avg Cost of Served Demand 5.690 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.272 USD/DT
(Supply Cost/LDC Purchase)

Class	Demand Summary					Served	Unserved	Revenue	Peak Served	Peak Unserved
	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.					
ENGINormal	15235.4	0.0	15235.4	0.0	15235.4	15235.4	0.0	0	164.6	0.0
Total	15235.4	0.0	15235.4	0.0	15235.4	15235.4	0.0	0	164.6	0.0

Source	Supply Summary			Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
	Total Take	Max Take	Surplus							
ENGUSGC	2339.8	18250.0	15910.2			3.0798	7206	0	7206	3.0798
ENGNiagara	910.8	1167.3	256.4			2.8024	2553	0	2553	2.8024
ENGPNGTS	289.4	365.0	75.6			3.3231	962	0	962	3.3231
ENGC3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6684.0	6690.4	6.4			2.1110	14110	0	14110	2.1110
DLiqWinter	250.0	250.0	0.0							
Dracut 20	2334.8	7315.4	4980.5			7.6377	17833	0	17833	7.6377
ENGC3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DLiqSummer	21.0	21.0	0.0							

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2018 thru OCT 2019

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	713.9	2190.0	1476.1			3.2953	2353	0	2353	3.2953
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	780.6	10973.0	10192.5			9.7075	7577	0	7577	9.7075
Engie Combo	630.0	630.0	0.0							
DAWN5	334.7	651.2	316.5							
Total	15449.9									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	321.0	321.6	0	0.0	12	95	0.0	-1	126	123	-3
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	953	1043	90
ENGFSMA	1482	95	1770.4	1735.8	0	18.9	1498	96	0.0	16	2573	3080	507
ENGDominion	103	100	112.4	110.2	0	2.2	103	100	0.0	0	178	220	41
ENGNFG	671	100	720.9	715.2	0	5.7	671	100	5.6	0	1164	1391	227
ENGHON	246	100	237.2	237.2	0	0.0	246	100	0.0	0	427	488	61
GranBrdgLNG	0	N/A	0.0	0.0	0	0.0	0	N/A	0.0	0	0	0	0
Total	2591	N/A	3322.7	3280.9	0	26.8	2606	N/A	5.6	15	5422	6344	923

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2339.8	0.0	2339.8	7882.5	5542.7	0	5043	0	5043	2.1554	
ENGTGP2Stg	97.5	2.0	95.5	7882.5	7787.0	25	0	0	25	0.2572	
ENGTGPLong	6076.0	0.0	6076.0	8698.1	2622.1	0	0	0	0	0.0000	
ENGTGPBND	910.8	5.6	905.2	1139.5	234.3	78	267	0	345	0.3789	
ENGTGPShort	2792.8	23.7	2769.0	10262.0	7492.9	315	2688	0	3002	1.0750	
TrCanCharges	705.8	8.1	697.7	1477.2	779.5	0	698	0	698	0.9883	
IroqCharges	697.7	4.3	693.4	1477.2	783.8	62	640	0	702	1.0057	
ENGPNGTS	289.4	2.9	286.5	365.0	78.5	1	312	0	312	1.0793	
ENGLNG	321.6	0.0	321.6	10950.0	10628.4	0	0	0	0	0.0000	
ENGPropane	160.8	0.0	160.8	6335.0	6174.2	0	0	0	0	0.0000	
ENGC3Truck	160.8	0.0	160.8	4380.0	4219.2	161	0	0	161	1.0000	
Dracut 30	837.2	1.8	835.5	10950.0	10114.5	36	4388	0	4425	5.2850	

45

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2018 thru OCT 2019

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
UnionCharges	713.9	8.1	705.8	1477.2	771.3	0	140	0	140	0.1961
Dracut 20	2612.9	5.5	2607.4	7300.0	4692.6	113	1134	0	1247	0.4773
ENGTGPZ4	2242.3	62.5	2179.8	9125.0	6945.2	667	0	0	667	0.2976
Z4toTGPLH	3929.6	33.4	3896.2	7665.0	3768.8	443	0	0	443	0.1126
Z4toStg	2754.4	9.1	2745.3	7882.5	5137.2	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWNTCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	0.0	0.0	0.0	651.2	651.2	0	█	0	█	0.0000
DAWN5Dracut	334.7	0.0	334.7	651.2	316.5	10	0	0	10	0.0309
Total		167.1				2117	█		█	0.6503

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:53:04

NOV 2019 thru OCT 2020

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	48	Transportation Cost	2148	JAN 19, 2020	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	167.64
Other Variable Cost	346	Carrying Cost	315			System Unserved	0.00
		Other Variable Cost	0			Total	167.64
Total Variable	████	Total Variable	409	Total Variable	2148		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	2686	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	85093
						Total Revenue	0
						Net Cost	85093

Avg Cost of Served Demand 5.438 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.952 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	15648.5	0.0	15648.5	0.0	15648.5	15648.5	0.0	0	167.6	0.0
Total	15648.5	0.0	15648.5	0.0	15648.5	15648.5	0.0	0	167.6	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2326.3	18300.0	15973.7			2.8332	6591	0	6591	2.8332
ENGINiagara	959.2	1170.5	211.3			2.3512	2255	0	2255	2.3512
ENGPNGTS	342.9	366.0	23.1			2.9378	1007	0	1007	2.9378
ENGC3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6694.2	6698.7	4.5			1.8996	12716	0	12716	1.8996
DLiqWinter	250.0	250.0	0.0							
Dracut 20	2197.7	7335.4	5137.7			7.6466	16805	0	16805	7.6466
ENGC3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DLiqSummer	21.0	21.0	0.0							

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2019 thru OCT 2020

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	726.0	2196.0	1470.0			2.8725	2085	0	2085	2.8725
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	706.2	11003.1	10296.9			9.4660	6685	0	6685	9.4660
Engie Combo	630.0	630.0	0.0							
DAWN5	835.3	1622.1	786.9							
Total	15849.6									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	321.0	321.0	0	0.0	12	95	0.0	0	123	126	4
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1043	1043	0
ENGFSMA	1498	96	1762.8	1743.9	0	18.9	1498	96	0.0	0	3080	2829	-251
ENGDominion	103	100	111.7	109.5	0	2.2	103	100	0.0	0	220	204	-16
ENGNFG	671	100	720.9	715.2	0	5.7	671	100	5.6	0	1391	1279	-112
ENGHON	246	100	240.4	240.4	0	0.0	246	100	0.0	0	488	458	-30
GranBrdgLNG	0	N/A	0.0	0.0	0	0.0	0	N/A	0.0	0	0	0	0
Total	2606	N/A	3317.6	3290.9	0	26.7	2606	N/A	5.6	0	6344	5939	-405

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2326.3	0.0	2326.3	7904.1	5577.9	0	5043	0	5043	2.1680	
ENGTGP2Stg	94.1	1.9	92.2	7904.1	7812.0	24	0	0	24	0.2572	
ENGTGPLong	6078.0	0.0	6078.0	8719.7	2641.7	0	0	0	0	0.0000	
ENGTGPBND	959.2	5.9	953.2	1142.7	189.4	82	267	0	349	0.3641	
ENGTGPShort	2803.4	23.8	2779.6	10290.1	7510.5	316	2688	0	3003	1.0714	
TrCanCharges	717.7	8.3	709.5	1481.2	771.7	0	698	0	698	0.9720	
IroqCharges	709.5	4.4	705.1	1481.2	776.1	63	640	0	703	0.9905	
ENGPNGTS	342.9	3.4	339.4	366.0	26.6	1	312	0	312	0.9112	
ENGLNG	321.0	0.0	321.0	10980.0	10659.0	0	0	0	0	0.0000	
ENGPropane	160.8	0.0	160.8	6370.0	6209.2	0	0	0	0	0.0000	
ENGC3Truck	160.8	0.0	160.8	4392.0	4231.2	161	0	0	161	1.0000	
Dracut 30	978.3	2.1	976.2	10980.0	10003.8	42	4388	0	4431	4.5291	

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2019 thru OCT 2020

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary										
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
UnionCharges	726.0	8.3	717.7	1481.2	763.5	0	140	0	140	0.1929
Dracut 20	2760.9	5.8	2755.1	7320.0	4564.9	120	1134	0	1254	0.4540
ENGTGPZ4	2232.2	62.2	2170.0	9150.0	6980.0	664	0	0	664	0.2976
Z4toTGPLH	3941.5	33.5	3908.0	7686.0	3778.0	444	0	0	444	0.1126
Z4toStg	2752.7	9.1	2743.6	7904.1	5160.5	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1064.0	484.0	19	0	0	19	0.0335
GranBrdgPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56821.5	56821.5	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2928.0	2928.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWNTCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	0.0	0.0	0.0	1622.1	1622.1	0	█	0	█	0.0000
DAWN5Dracut	835.3	0.0	835.3	1622.1	786.9	26	0	0	26	0.0309
Total		168.7				2148	█		█	0.6903

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:53:04

NOV 2020 thru OCT 2021

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	48	Transportation Cost	2177	JAN 19, 2021	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	168.94
Other Variable Cost	349	Carrying Cost	299			System Unserved	0.00
		Other Variable Cost	0			Total	168.94
Total Variable	████	Total Variable	393	Total Variable	2177		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	2711	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	86234
						Total Revenue	0
						Net Cost	86234

Avg Cost of Served Demand 5.339 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.876 USD/DT
(Supply Cost/LDC Purchase)

Class	Demand Summary					Served	Unserved	Revenue	Peak Served	Peak Unserved
	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.					
ENGINormal	16150.3	0.0	16150.3	0.0	16150.3	16150.3	0.0	0	168.9	0.0
Total	16150.3	0.0	16150.3	0.0	16150.3	16150.3	0.0	0	168.9	0.0

Source	Supply Summary			Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
	Total Take	Max Take	Surplus							
ENGUSGC	2319.6	18250.0	15930.4			2.6954	6252	0	6252	2.6954
ENGNiagara	1065.6	1167.3	101.7			2.2282	2374	0	2374	2.2282
ENGPNGTS	343.6	365.0	21.4			2.8407	976	0	976	2.8407
ENG3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6689.1	6690.4	1.3			1.8040	12067	0	12067	1.8040
DliqWinter	250.0	250.0	0.0			██████████	██████████	██████████	██████████	██████████
Dracut 20	2234.3	7315.4	5081.1			7.1527	15981	0	15981	7.1527
ENG3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DliqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2020 thru OCT 2021

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	731.0	2190.0	1459.0			2.7187	1987	0	1987	2.7187
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	919.7	10973.0	10053.3			9.8808	9088	0	9088	9.8808
Engie Combo	630.0	630.0	0.0							
DAWN5	988.6	1825.0	836.4							
Total	16353.4									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	321.0	320.4	0	0.0	13	100	0.0	1	126	126	-0
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1043	1043	0
ENGFSMA	1498	96	1765.0	1746.2	0	18.9	1498	96	0.0	0	2829	2669	-160
ENGDominion	103	100	110.3	108.1	0	2.2	103	100	0.0	0	204	195	-9
ENGNFG	671	100	720.9	715.2	0	5.7	671	100	5.6	0	1279	1218	-62
ENGHON	246	100	237.5	237.5	0	0.0	246	100	0.0	0	458	433	-25
GranBrdgLNG	0	N/A	0.0	0.0	0	0.0	0	N/A	0.0	0	0	0	0
Total	2606	N/A	3315.5	3288.2	0	26.7	2607	N/A	5.6	1	5939	5683	-256

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2319.6	0.0	2319.6	7882.5	5563.0	0	5043	0	5043	2.1742	
ENGTGP2Stg	94.2	1.9	92.2	7882.5	7790.3	24	0	0	24	0.2572	
ENGTGPLong	6068.5	0.0	6068.5	8698.1	2629.6	0	0	0	0	0.0000	
ENGTGPBND	1065.6	6.6	1059.0	1139.5	80.5	91	267	0	358	0.3362	
ENGTGPShort	2801.3	23.8	2777.5	10262.0	7484.5	316	2688	0	3003	1.0721	
TrCanCharges	722.7	8.3	714.4	1477.2	762.8	0	698	0	698	0.9652	
IroqCharges	714.4	4.4	710.0	1477.2	767.2	63	640	0	703	0.9843	
ENGPNGTS	343.6	3.4	340.2	365.0	24.8	1	312	0	312	0.9093	
ENGLNG	320.4	0.0	320.4	10950.0	10629.6	0	0	0	0	0.0000	
ENGPropane	160.8	0.0	160.8	6335.0	6174.2	0	0	0	0	0.0000	
ENGC3Truck	160.8	0.0	160.8	4380.0	4219.2	161	0	0	161	1.0000	
Dracut 30	1163.6	2.4	1161.2	10950.0	9788.8	51	4388	0	4439	3.8146	

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2020 thru OCT 2021

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
UnionCharges	731.0	8.3	722.7	1477.2	754.4	0	140	0	140	0.1915
Dracut 20	2979.0	6.3	2972.7	7300.0	4327.3	129	1134	0	1263	0.4240
ENGTGPZ4	2225.4	62.0	2163.4	9125.0	6961.6	662	0	0	662	0.2976
Z4toTGPLH	3938.6	33.5	3905.1	7665.0	3759.9	444	0	0	444	0.1126
Z4toStg	2750.5	9.1	2741.5	7882.5	5141.1	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWNTCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	0.0	0.0	0.0	1825.0	1825.0	0	█	0	█	0.0000
DAWN5Dracut	988.6	0.0	988.6	1825.0	836.4	31	0	0	31	0.0309
Total		170.1				2177	█		█	0.6889

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:53:04

NOV 2021 thru OCT 2022

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	48	Transportation Cost	2201	JAN 19, 2022	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	174.62
Other Variable Cost	353	Carrying Cost	283			System Unserved	0.00
		Other Variable Cost	0			Total	174.62
Total Variable	████	Total Variable	376	Total Variable	2201		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	2738	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	87764
						Total Revenue	0
						Net Cost	87764

Avg Cost of Served Demand 5.298 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.870 USD/DT
(Supply Cost/LDC Purchase)

Class	Demand Summary					Served	Unserved	Revenue	Peak Served	Peak Unserved
	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.					
ENGINormal	16566.0	0.0	16566.0	0.0	16566.0	16566.0	0.0	0	174.6	0.0
Total	16566.0	0.0	16566.0	0.0	16566.0	16566.0	0.0	0	174.6	0.0

Source	Supply Summary			Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
	Total Take	Max Take	Surplus							
ENGUSGC	2326.2	18250.0	15923.8			2.6639	6197	0	6197	2.6639
ENGNiagara	1083.5	1167.3	83.7			2.1993	2383	0	2383	2.1993
ENGPNGTS	346.4	365.0	18.6			2.8143	975	0	975	2.8143
ENG3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6689.6	6690.4	0.8			1.6727	11190	0	11190	1.6727
DLiqWinter	250.0	250.0	0.0			██████████	██████████	██████████	██████████	██████████
Dracut 20	2418.1	7315.4	4897.2			7.3082	17672	0	17672	7.3082
ENG3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2021 thru OCT 2022

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	742.0	2190.0	1448.0			2.6914	1997	0	1997	2.6914
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	1041.0	10973.0	9932.1			9.3031	9684	0	9684	9.3031
Engie Combo	630.0	630.0	0.0							
DAWN5	1061.2	1825.0	763.8							
Total	16769.9									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	321.0	321.0	0	0.0	13	100	0.0	0	126	127	1
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1043	1043	0
ENGFSMA	1498	96	1767.5	1748.6	0	18.9	1498	96	0.0	0	2669	2475	-194
ENGDominion	103	100	109.7	107.5	0	2.1	103	100	0.0	0	195	181	-14
ENGNFG	671	100	720.9	715.2	0	5.7	671	100	5.6	0	1218	1130	-88
ENGHON	246	100	236.1	236.1	0	0.0	246	100	0.0	0	433	403	-30
GranBrdgLNG	0	N/A	0.0	0.0	0	0.0	0	N/A	0.0	0	0	0	0
Total	2607	N/A	3315.9	3289.2	0	26.7	2607	N/A	5.6	0	5683	5359	-324

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2326.2	0.0	2326.2	7882.5	5556.3	0	5043	0	5043	2.1680	
ENGTGP2Stg	95.2	1.9	93.2	7882.5	7789.3	24	0	0	24	0.2572	
ENGTGPLong	6075.0	0.0	6075.0	8698.1	2623.1	0	0	0	0	0.0000	
ENGTGPBND	1083.5	6.7	1076.8	1139.5	62.7	92	267	0	360	0.3321	
ENGTGPShort	2801.7	23.8	2777.9	10262.0	7484.1	316	2688	0	3003	1.0719	
TrCanCharges	733.6	8.4	725.2	1477.2	752.0	0	698	0	698	0.9509	
IroqCharges	725.2	4.5	720.7	1477.2	756.5	64	640	0	704	0.9710	
ENGPNGTS	346.4	3.5	343.0	365.0	22.0	1	312	0	312	0.9019	
ENGLNG	321.0	0.0	321.0	10950.0	10629.0	0	0	0	0	0.0000	
ENGPropane	160.8	0.0	160.8	6335.0	6174.2	0	0	0	0	0.0000	
ENGC3Truck	160.8	0.0	160.8	4380.0	4219.2	161	0	0	161	1.0000	
Dracut 30	1407.3	3.0	1404.4	10950.0	9545.6	61	4388	0	4449	3.1616	

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2021 thru OCT 2022

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
UnionCharges	742.0	8.5	733.6	1477.2	743.6	0	140	0	140	0.1887
Dracut 20	3112.9	6.5	3106.4	7300.0	4193.6	135	1134	0	1269	0.4076
ENGTGPZ4	2231.0	62.2	2168.9	9125.0	6956.1	664	0	0	664	0.2976
Z4toTGPLH	3939.7	33.5	3906.2	7665.0	3758.8	444	0	0	444	0.1126
Z4toStg	2749.9	9.1	2740.9	7882.5	5141.7	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWNTCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	0.0	0.0	0.0	1825.0	1825.0	0	█	0	█	0.0000
DAWN5Dracut	1061.2	0.0	1061.2	1825.0	763.8	33	0	0	33	0.0309
Total		171.6				2201	█		█	0.6779

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:53:04

NOV 2022 thru OCT 2023

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	794	Transportation Cost	2237	JAN 19, 2023	
Penalty Cost	0	Withdrawal Cost	53	Other Variable Cost	0	System Served	183.41
Other Variable Cost	328	Carrying Cost	297			System Unserved	0.00
		Other Variable Cost	0			Total	183.41
Total Variable	██████	Total Variable	1144	Total Variable	2237		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	2670	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	130374
						Total Revenue	0
						Net Cost	130374

Avg Cost of Served Demand 7.326 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.838 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	17796.0	0.0	17796.0	0.0	17796.0	17796.0	0.0	0	183.4	0.0
Total	17796.0	0.0	17796.0	0.0	17796.0	17796.0	0.0	0	183.4	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2346.6	18250.0	15903.4			2.6911	6315	0	6315	2.6911
ENGNiagara	1146.6	1167.3	20.6			2.2416	2570	0	2570	2.2416
ENGPNGTS	351.0	365.0	14.0			2.8210	990	0	990	2.8210
ENG3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6690.4	6690.4	0.0			1.5680	10490	0	10490	1.5680
DLiqWinter	250.0	250.0	0.0							
Dracut 20	2937.0	7315.4	4378.3			6.6359	19490	0	19490	6.6359
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENG Dawn	1212.1	2190.0	977.9			2.5919	3142	0	3142	2.5919

55

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2022 thru OCT 2023

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	1730.1	10973.0	9243.0			8.4783	14668	0	14668	8.4783
Engie Combo	630.0	630.0	0.0							
DAWN5	1820.0	1825.0	5.0							
Total	19205.6									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	332.9	332.9	0	0.0	13	100	0.0	0	127	106	-21
ENGPropane	77	100	91.7	168.5	0	0.0	0	0	0.0	-77	1043	160	-883
ENGFSMA	1498	96	1772.0	1753.0	0	19.0	1498	96	0.0	0	2475	2326	-149
ENGDominion	103	100	110.4	108.2	0	2.2	103	100	0.0	0	181	167	-14
ENGNFG	671	100	723.5	717.8	0	5.7	671	100	5.7	0	1130	1061	-69
ENGHON	246	100	234.9	234.9	0	0.0	246	100	0.0	0	403	378	-25
GranBrdgLNG	0	N/A	1481.9	221.5	0	18.4	1242	100	2.2	1242	0	3037	3037
Total	2607	N/A	4747.4	3536.9	0	45.3	3772	141	7.9	1165	5359	7235	1877

Transportation Summary													
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost			
ENGTGPProd	2346.6	0.0	2346.6	7882.5	5535.9	0	5043	0	5043	2.1492			
ENGTGP2Stg	103.5	2.1	101.4	7882.5	7781.2	27	0	0	27	0.2572			
ENGTGPLong	6089.0	0.0	6089.0	8698.1	2609.1	0	0	0	0	0.0000			
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185			
ENGTGPShort	2808.3	23.9	2784.4	10262.0	7477.6	316	2688	0	3004	1.0697			
TrCanCharges	1198.3	13.8	1184.5	1477.2	292.6	0	698	0	698	0.5821			
IroqCharges	1184.5	7.3	1177.2	1477.2	300.0	105	640	0	745	0.6288			
ENGPNGTS	351.0	3.5	347.5	365.0	17.5	1	312	0	312	0.8901			
ENGLNG	332.9	0.0	332.9	10950.0	10617.1	0	0	0	0	0.0000			
ENGPropane	168.5	0.0	168.5	6335.0	6166.5	0	0	0	0	0.0000			
ENG3Truck	91.7	0.0	91.7	4380.0	4288.3	92	0	0	92	1.0000			
Dracut 30	2336.1	4.9	2331.2	10950.0	8618.8	101	4388	0	4490	1.9219			
UnionCharges	1212.1	13.8	1198.3	1477.2	278.8	0	140	0	140	0.1155			

8

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2022 thru OCT 2023

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Dracut 20	2331.0	4.9	2326.1	7300.0	4973.9	101	1134	0	1235	0.5298
ENGTGPZ4	2243.1	62.5	2180.6	9125.0	6944.4	667	0	0	667	0.2976
Z4toTGPLH	3941.9	33.5	3908.4	7665.0	3756.6	444	0	0	444	0.1126
Z4toStg	2748.5	9.1	2739.4	7882.5	5143.1	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	2005.8	4.2	2001.6	73000.0	70998.4	0	█	0	█	█
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	186.3	0.5	185.8	56666.3	56480.4	6	0	0	6	0.0324
LNGtoLNG	32.9	0.0	32.9	2920.0	2887.1	16	0	0	16	0.5000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1820.0	0.0	1820.0	1825.0	5.0	56	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		191.2				2237	█		█	█

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:53:04

NOV 2023 thru OCT 2024

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	1133	Transportation Cost	2238	JAN 19, 2024	
Penalty Cost	0	Withdrawal Cost	110	Other Variable Cost	0	System Served	187.62
Other Variable Cost	0	Carrying Cost	386			System Unserved	0.00
		Other Variable Cost	0			Total	187.62
Total Variable	████	Total Variable	1629	Total Variable	2238		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	124857
						Total Revenue	0
						Net Cost	124857

Avg Cost of Served Demand 6.829 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.056 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	18283.3	0.0	18283.3	0.0	18283.3	18283.3	0.0	0	187.6	0.0
Total	18283.3	0.0	18283.3	0.0	18283.3	18283.3	0.0	0	187.6	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2366.1	18300.0	15933.9			2.7627	6537	0	6537	2.7627
ENGNiagara	1149.8	1170.5	20.7			2.3388	2689	0	2689	2.3388
ENGPNGTS	358.0	366.0	8.0			2.9145	1043	0	1043	2.9145
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6698.7	6698.7	0.0			1.6985	11378	0	11378	1.6985
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	2541.7	7335.4	4793.7			4.8830	12411	0	12411	4.8830
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1154.5	2196.0	1041.5			2.6825	3097	0	3097	2.6825

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2023 thru OCT 2024

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	2086.7	11003.1	8916.4			5.2688	10994	0	10994	5.2688
Engie Combo	377.5	377.5	0.0							
DAWN5	1830.0	1830.0	0.0							
Total	18562.9									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	168.1	168.1	0	0.0	13	100	0.0	0	106	127	21
ENGFSMA	1498	96	1772.0	1753.0	0	19.0	1498	96	0.0	0	2326	2529	202
ENGDominion	103	100	112.2	110.0	0	2.2	103	100	0.0	0	167	180	13
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1061	1153	91
ENGHON	246	100	236.1	236.1	0	0.0	246	100	0.0	0	378	404	26
GranBrdgLNG	1242	100	2154.5	2127.7	0	26.8	1242	100	21.3	0	3037	3337	300
Total	3772	98	5166.6	5112.9	0	53.7	3772	98	26.9	0	7235	7890	654

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2366.1	0.0	2366.1	7904.1	5538.0	0	5043	0	5043	2.1315	
ENGTGP2Stg	103.7	2.1	101.6	7904.1	7802.6	27	0	0	27	0.2572	
ENGTGPLong	6113.0	0.0	6113.0	8719.7	2606.7	0	0	0	0	0.0000	
ENGTGPBND	1149.8	7.1	1142.7	1142.7	0.0	98	267	0	365	0.3179	
ENGTGPShort	2811.4	23.9	2787.5	10290.1	7502.6	317	2688	0	3004	1.0686	
TrCanCharges	1141.4	13.1	1128.2	1481.2	353.0	0	698	0	698	0.6112	
IroqCharges	1128.2	7.0	1121.2	1481.2	360.0	100	640	0	740	0.6558	
ENGPNGTS	358.0	3.6	354.4	366.0	11.6	1	312	0	312	0.8728	
ENGLNG	168.1	0.0	168.1	10980.0	10811.9	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6370.0	6370.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4392.0	4392.0	0	0	0	0	0.0000	
Dracut 30	3392.0	7.1	3384.8	10980.0	7595.2	147	4388	0	4536	1.3371	
UnionCharges	1154.5	13.1	1141.4	1481.2	339.9	0	140	0	140	0.1213	
Dracut 20	1236.4	2.6	1233.8	7320.0	6086.2	54	1134	0	1187	0.9603	

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2023 thru OCT 2024

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2262.4	63.1	2199.4	9150.0	6950.6	673	0	0	673	0.2976
Z4toTGPLH	3947.2	33.6	3913.7	7686.0	3772.3	445	0	0	445	0.1126
Z4toStg	2751.5	9.1	2742.4	7904.1	5161.8	136	0	0	136	0.0495
Engie2CG	327.5	0.0	327.5	1064.0	736.5	11	0	0	11	0.0335
GranBrdgPL	3812.7	8.0	3804.7	73200.0	69395.3	0	█	0	█	█
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000
LNGtoRT101	1988.3	5.6	1982.7	56821.5	54838.8	64	0	0	64	0.0323
LNGtoLNG	118.1	0.0	118.1	2928.0	2809.9	59	0	0	59	0.5000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1830.0	0.0	1830.0	1830.0	0.0	57	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1830.0	1830.0	0	0	0	0	0.0000
Total		199.0				2238	█		█	█

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:53:04

NOV 2024 thru OCT 2025

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	1134	Transportation Cost	2252	JAN 19, 2025	
Penalty Cost	0	Withdrawal Cost	110	Other Variable Cost	0	System Served	191.54
Other Variable Cost	0	Carrying Cost	415			System Unserved	0.00
		Other Variable Cost	0			Total	191.54
Total Variable	██████	Total Variable	1660	Total Variable	2252		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	129053
						Total Revenue	0
						Net Cost	129053

Avg Cost of Served Demand 6.936 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.223 USD/DT
(Supply Cost/LDC Purchase)

Class	Demand Summary					Served	Unserved	Revenue	Peak Served	Peak Unserved
	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.					
ENGINormal	18605.3	0.0	18605.3	0.0	18605.3	18605.3	0.0	0	191.5	0.0
Total	18605.3	0.0	18605.3	0.0	18605.3	18605.3	0.0	0	191.5	0.0

Source	Supply Summary			Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
	Total Take	Max Take	Surplus							
ENGUSGC	2354.5	18250.0	15895.5			2.8554	6723	0	6723	2.8554
ENGNiagara	1146.6	1167.3	20.6			2.4557	2816	0	2816	2.4557
ENGPNGTS	359.0	365.0	6.0			2.9900	1073	0	1073	2.9900
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			1.8482	12365	0	12365	1.8482
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	2710.1	7315.4	4605.3			5.0215	13609	0	13609	5.0215
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1201.0	2190.0	989.0			2.7740	3332	0	3332	2.7740

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2024 thru OCT 2025

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	2222.4	10973.0	8750.6			5.4652	12146	0	12146	5.4652
Engie Combo	377.5	377.5	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	18886.5									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	170.7	170.7	0	0.0	13	100	0.0	0	127	132	5
ENGFSMA	1498	96	1775.3	1756.3	0	19.0	1498	96	0.0	0	2529	2764	235
ENGDominion	103	100	111.6	109.4	0	2.2	103	100	0.0	0	180	196	16
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1153	1259	106
ENGHON	246	100	234.9	234.9	0	0.0	246	100	0.0	0	404	439	35
GranBrdgLNG	1242	100	2156.9	2130.1	0	26.8	1242	100	21.3	0	3337	3527	190
Total	3772	98	5173.2	5119.5	0	53.7	3772	98	27.0	0	7890	8478	588

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2354.5	0.0	2354.5	7882.5	5528.1	0	5043	0	5043	2.1420	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6091.9	0.0	6091.9	8698.1	2606.2	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2813.0	23.9	2789.1	10262.0	7472.9	317	2688	0	3005	1.0681	
TrCanCharges	1187.4	13.7	1173.7	1477.2	303.4	0	698	0	698	0.5875	
IroqCharges	1173.7	7.3	1166.4	1477.2	310.7	104	640	0	744	0.6338	
ENGPNGTS	359.0	3.6	355.4	365.0	9.6	1	312	0	312	0.8704	
ENGLNG	170.7	0.0	170.7	10950.0	10779.3	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	3407.3	7.2	3400.1	10950.0	7549.9	148	4388	0	4536	1.3313	
UnionCharges	1201.0	13.7	1187.4	1477.2	289.8	0	140	0	140	0.1166	
Dracut 20	1525.2	3.2	1522.0	7300.0	5778.0	66	1134	0	1200	0.7867	

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2024 thru OCT 2025

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2247.3	62.6	2184.7	9125.0	6940.3	669	0	0	669	0.2976
Z4toTGPLH	3940.7	33.5	3907.2	7665.0	3757.8	444	0	0	444	0.1126
Z4toStg	2749.7	9.1	2740.6	7882.5	5141.9	136	0	0	136	0.0495
Engie2CG	327.5	0.0	327.5	1057.0	729.5	11	0	0	11	0.0335
GranBrdgPL	3807.6	8.0	3799.6	73000.0	69200.4	0	█	0	█	█
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	1988.1	5.6	1982.6	56666.3	54683.7	64	0	0	64	0.0323
LNGtoLNG	120.7	0.0	120.7	2920.0	2799.3	60	0	0	60	0.5000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		200.5				2252	█		█	█

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:53:04

NOV 2025 thru OCT 2026

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	1144	Transportation Cost	2265	JAN 19, 2026	
Penalty Cost	0	Withdrawal Cost	111	Other Variable Cost	0	System Served	194.99
Other Variable Cost	0	Carrying Cost	436			System Unserved	0.00
		Other Variable Cost	0			Total	194.99
Total Variable	██████	Total Variable	1690	Total Variable	2265		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	133583
						Total Revenue	0
						Net Cost	133583

Avg Cost of Served Demand 7.050 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.399 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	18947.4	0.0	18947.4	0.0	18947.4	18947.4	0.0	0	195.0	0.0
Total	18947.4	0.0	18947.4	0.0	18947.4	18947.4	0.0	0	195.0	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2356.0	18250.0	15894.0			2.9742	7007	0	7007	2.9742
ENGNiagara	1146.6	1167.3	20.6			2.5834	2962	0	2962	2.5834
ENGPNGTS	360.0	365.0	5.0			3.0768	1108	0	1108	3.0768
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.0008	13386	0	13386	2.0008
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3018.4	7315.4	4296.9			4.9394	14909	0	14909	4.9394
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1132.2	2190.0	1057.8			2.8987	3282	0	3282	2.8987

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2025 thru OCT 2026

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	2321.9	10973.0	8651.1			5.8618	13611	0	13611	5.8618
Engie Combo	377.5	377.5	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	19228.1									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	171.0	171.0	0	0.0	13	100	0.0	0	132	138	5
ENGFSMA	1498	96	1775.1	1756.1	0	19.0	1498	96	0.0	0	2764	2983	220
ENGDominion	103	100	111.6	109.4	0	2.2	103	100	0.0	0	196	213	17
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1259	1354	96
ENGHON	246	100	234.9	234.9	0	0.0	246	100	0.0	0	439	476	37
GranBrdgLNG	1242	100	2176.0	2149.0	0	27.1	1242	100	21.5	0	3527	3776	249
Total	3772	98	5192.4	5138.4	0	54.0	3772	98	27.2	0	8478	9101	623

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2356.0	0.0	2356.0	7882.5	5526.6	0	5043	0	5043	2.1406	
ENGTGP2Stg	106.9	2.2	104.7	7882.5	7777.8	28	0	0	28	0.2572	
ENGTGPLong	6093.6	0.0	6093.6	8698.1	2604.5	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2812.8	23.9	2788.9	10262.0	7473.1	317	2688	0	3004	1.0682	
TrCanCharges	1119.3	12.9	1106.5	1477.2	370.7	0	698	0	698	0.6232	
IroqCharges	1106.5	6.9	1099.6	1477.2	377.5	98	640	0	738	0.6669	
ENGPNGTS	360.0	3.6	356.4	365.0	8.6	1	312	0	312	0.8679	
ENGLNG	171.0	0.0	171.0	10950.0	10779.0	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	3744.3	7.9	3736.5	10950.0	7213.5	163	4388	0	4551	1.2154	
UnionCharges	1132.2	12.9	1119.3	1477.2	357.8	0	140	0	140	0.1237	
Dracut 20	1596.1	3.4	1592.7	7300.0	5707.3	69	1134	0	1203	0.7537	

54

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2025 thru OCT 2026

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPZ4	2249.1	62.7	2186.4	9125.0	6938.6	669	0	0	669	0.2976	
Z4toTGPLH	3940.7	33.5	3907.2	7665.0	3757.8	444	0	0	444	0.1126	
Z4toStg	2749.7	9.1	2740.6	7882.5	5141.9	136	0	0	136	0.0495	
Engie2CG	327.5	0.0	327.5	1057.0	729.5	11	0	0	11	0.0335	
GranBrdgPL	3825.9	8.0	3817.9	73000.0	69182.1	0		0			
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000	
LNGtoRT101	2006.5	5.6	2000.9	56666.3	54665.4	65	0	0	65	0.0323	
LNGtoLNG	121.0	0.0	121.0	2920.0	2799.0	60	0	0	60	0.5000	
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0			
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000	
Total		199.6				2265					

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:53:04

NOV 2026 thru OCT 2027

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	1142	Transportation Cost	2278	JAN 19, 2027	
Penalty Cost	0	Withdrawal Cost	111	Other Variable Cost	0	System Served	198.17
Other Variable Cost	0	Carrying Cost	458			System Unserved	0.00
		Other Variable Cost	0			Total	198.17
Total Variable	████	Total Variable	1711	Total Variable	2278		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	137540
						Total Revenue	0
						Net Cost	137540

Avg Cost of Served Demand 7.144 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.547 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	19251.6	0.0	19251.6	0.0	19251.6	19251.6	0.0	0	198.2	0.0
Total	19251.6	0.0	19251.6	0.0	19251.6	19251.6	0.0	0	198.2	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2359.0	18250.0	15891.0			3.0656	7232	0	7232	3.0656
ENGNiagara	1146.6	1167.3	20.6			2.6881	3082	0	3082	2.6881
ENGPNGTS	361.0	365.0	4.0			3.1489	1137	0	1137	3.1489
ENG3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.1318	14262	0	14262	2.1318
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	2941.1	7315.4	4374.2			5.1384	15113	0	15113	5.1384
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENG Dawn	1136.2	2190.0	1053.8			2.9889	3396	0	3396	2.9889

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2026 thru OCT 2027

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	2696.3	10973.0	8276.8			5.8364	15736	0	15736	5.8364
Engie Combo	377.5	377.5	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	19533.0									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	170.2	170.2	0	0.0	13	100	0.0	0	138	142	4
ENGFSMA	1498	96	1773.9	1754.9	0	19.0	1498	96	0.0	0	2983	3182	198
ENGDominion	103	100	111.3	109.1	0	2.2	103	100	0.0	0	213	227	14
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1354	1444	90
ENGHON	246	100	236.2	236.2	0	0.0	246	100	0.0	0	476	510	34
GranBrdgLNG	1242	100	2172.7	2145.7	0	27.0	1242	100	21.5	0	3776	3941	165
Total	3772	98	5187.9	5134.0	0	53.9	3772	98	27.1	0	9101	9605	505

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2359.0	0.0	2359.0	7882.5	5523.6	0	5043	0	5043	2.1379	
ENGTGP2Stg	106.9	2.2	104.7	7882.5	7777.8	28	0	0	28	0.2572	
ENGTGPLong	6096.8	0.0	6096.8	8698.1	2601.3	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2812.5	23.9	2788.6	10262.0	7473.4	317	2688	0	3004	1.0683	
TrCanCharges	1123.2	12.9	1110.3	1477.2	366.8	0	698	0	698	0.6211	
IroqCharges	1110.3	6.9	1103.4	1477.2	373.7	99	640	0	738	0.6649	
ENGPNGTS	361.0	3.6	357.4	365.0	7.6	1	312	0	312	0.8655	
ENGLNG	170.2	0.0	170.2	10950.0	10779.8	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	3898.1	8.2	3889.9	10950.0	7060.1	169	4388	0	4558	1.1692	
UnionCharges	1136.2	12.9	1123.2	1477.2	353.9	0	140	0	140	0.1232	
Dracut 20	1739.3	3.7	1735.6	7300.0	5564.4	75	1134	0	1209	0.6952	

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2026 thru OCT 2027

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2252.1	62.8	2189.3	9125.0	6935.7	670	0	0	670	0.2976
Z4toTGPLH	3941.0	33.5	3907.5	7665.0	3757.5	444	0	0	444	0.1126
Z4toStg	2749.4	9.1	2740.3	7882.5	5142.2	136	0	0	136	0.0495
Engie2CG	327.5	0.0	327.5	1057.0	729.5	11	0	0	11	0.0335
GranBrdgPL	3823.5	8.0	3815.4	73000.0	69184.6	0	█	0	█	█
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	2004.1	5.6	1998.5	56666.3	54667.8	65	0	0	65	0.0323
LNGtoLNG	120.2	0.0	120.2	2920.0	2799.8	60	0	0	60	0.5000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		200.4				2278	█		█	█

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:53:04

NOV 2027 thru OCT 2028

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	1144	Transportation Cost	2308	JAN 19, 2028	
Penalty Cost	0	Withdrawal Cost	111	Other Variable Cost	0	System Served	200.70
Other Variable Cost	0	Carrying Cost	492			System Unserved	0.00
		Other Variable Cost	0			Total	200.70
Total Variable	██████	Total Variable	1746	Total Variable	2308		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	141517
						Total Revenue	0
						Net Cost	141517

Avg Cost of Served Demand 7.225 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.683 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	19586.6	0.0	19586.6	0.0	19586.6	19586.6	0.0	0	200.7	0.0
Total	19586.6	0.0	19586.6	0.0	19586.6	19586.6	0.0	0	200.7	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2375.5	18300.0	15924.5			3.1578	7501	0	7501	3.1578
ENGNiagara	1149.8	1170.5	20.7			2.7871	3205	0	3205	2.7871
ENGPNGTS	365.0	366.0	1.0			3.2364	1181	0	1181	3.2364
ENG3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6698.7	6698.7	0.0			2.2523	15087	0	15087	2.2523
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3054.2	7335.4	4281.2			5.3150	16233	0	16233	5.3150
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENG Dawn	1325.1	2196.0	870.9			3.0488	4040	0	4040	3.0488

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2027 thru OCT 2028

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	2698.6	11003.1	8304.5			6.0717	16385	0	16385	6.0717
Engie Combo	377.5	377.5	0.0							
DAWN5	1830.0	1830.0	0.0							
Total	19874.3									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	173.2	173.2	0	0.0	13	100	0.0	0	142	146	4
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3182	3370	189
ENGDominion	103	100	111.0	108.8	0	2.2	103	100	0.0	0	227	238	12
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1444	1534	90
ENGHON	246	100	238.0	238.0	0	0.0	246	100	0.0	0	510	540	31
GranBrdgLNG	1242	100	2176.0	2148.9	0	27.1	1242	100	21.5	0	3941	4026	85
Total	3772	98	5195.3	5141.4	0	53.9	3772	98	27.2	0	9605	10016	410

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2375.5	0.0	2375.5	7904.1	5528.6	0	5043	0	5043	2.1230	
ENGTGP2Stg	107.1	2.2	105.0	7904.1	7799.2	28	0	0	28	0.2572	
ENGTGPLong	6120.0	0.0	6120.0	8719.7	2599.7	0	0	0	0	0.0000	
ENGTGPBND	1149.8	7.1	1142.7	1142.7	0.0	98	267	0	365	0.3179	
ENGTGPShort	2813.6	23.9	2789.7	10290.1	7500.4	317	2688	0	3005	1.0679	
TrCanCharges	1310.0	15.1	1294.9	1481.2	186.3	0	698	0	698	0.5325	
IroqCharges	1294.9	8.0	1286.9	1481.2	194.3	115	640	0	755	0.5828	
ENGPNGTS	365.0	3.7	361.3	366.0	4.7	1	312	0	312	0.8561	
ENGLNG	173.2	0.0	173.2	10980.0	10806.8	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6370.0	6370.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4392.0	4392.0	0	0	0	0	0.0000	
Dracut 30	3952.8	8.3	3944.5	10980.0	7035.5	172	4388	0	4560	1.1536	
UnionCharges	1325.1	15.1	1310.0	1481.2	171.2	0	140	0	140	0.1057	
Dracut 20	1799.9	3.8	1796.2	7320.0	5523.8	78	1134	0	1212	0.6733	

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2027 thru OCT 2028

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2268.4	63.2	2205.2	9150.0	6944.8	675	0	0	675	0.2976
Z4toTGPLH	3948.4	33.6	3914.9	7686.0	3771.1	445	0	0	445	0.1126
Z4toStg	2750.3	9.1	2741.2	7904.1	5163.0	136	0	0	136	0.0495
Engie2CG	327.5	0.0	327.5	1064.0	736.5	11	0	0	11	0.0335
GranBrdgPL	3828.7	8.0	3820.6	73200.0	69379.4	0	█	0	█	█
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000
LNGtoRT101	2004.3	5.6	1998.7	56821.5	54822.8	65	0	0	65	0.0323
LNGtoLNG	123.2	0.0	123.2	2928.0	2804.8	62	0	0	62	0.5000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1830.0	0.0	1830.0	1830.0	0.0	57	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1830.0	1830.0	0	0	0	0	0.0000
Total		206.7				2308	█		█	█

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:53:04

NOV 2028 thru OCT 2029

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	1148	Transportation Cost	2315	JAN 19, 2029	
Penalty Cost	0	Withdrawal Cost	111	Other Variable Cost	0	System Served	203.52
Other Variable Cost	0	Carrying Cost	503			System Unserved	0.00
		Other Variable Cost	0			Total	203.52
Total Variable	██████	Total Variable	1762	Total Variable	2315		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	143869
						Total Revenue	0
						Net Cost	143869

Avg Cost of Served Demand 7.268 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.761 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	19794.3	0.0	19794.3	0.0	19794.3	19794.3	0.0	0	203.5	0.0
Total	19794.3	0.0	19794.3	0.0	19794.3	19794.3	0.0	0	203.5	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2364.7	18250.0	15885.3			3.2124	7596	0	7596	3.2124
ENGNiagara	1146.6	1167.3	20.6			2.8226	3237	0	3237	2.8226
ENGPNGTS	364.0	365.0	1.0			3.2663	1189	0	1189	3.2663
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.2789	15247	0	15247	2.2789
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3190.6	7315.4	4124.8			5.3282	17000	0	17000	5.3282
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1353.8	2190.0	836.2			3.0823	4173	0	4173	3.0823

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2028 thru OCT 2029

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	2770.5	10973.0	8202.6			6.2903	17427	0	17427	6.2903
Engie Combo	377.5	377.5	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	20083.1									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	173.1	173.1	0	0.0	13	100	0.0	0	146	147	1
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3370	3403	33
ENGDominion	103	100	110.4	108.2	0	2.2	103	100	0.0	0	238	241	3
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1534	1549	14
ENGHON	246	100	236.9	236.9	0	0.0	246	100	0.0	0	540	549	9
GranBrdgLNG	1242	100	2185.3	2158.1	0	27.2	1242	100	21.6	0	4026	4070	44
Total	3772	98	5202.8	5148.7	0	54.0	3772	98	27.3	0	10016	10120	105

Transportation Summary										
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPPProd	2364.7	0.0	2364.7	7882.5	5517.9	0	5043	0	5043	2.1327
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572
ENGTGPLong	6103.0	0.0	6103.0	8698.1	2595.1	0	0	0	0	0.0000
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185
ENGTGPShort	2811.8	23.9	2787.9	10262.0	7474.0	317	2688	0	3004	1.0685
TrCanCharges	1338.4	15.4	1323.0	1477.2	154.1	0	698	0	698	0.5212
IroqCharges	1323.0	8.2	1314.8	1477.2	162.3	117	640	0	757	0.5723
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584
ENGLNG	173.1	0.0	173.1	10950.0	10776.9	0	0	0	0	0.0000
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000
Dracut 30	3888.5	8.2	3880.3	10950.0	7069.7	169	4388	0	4557	1.1719
UnionCharges	1353.8	15.4	1338.4	1477.2	138.7	0	140	0	140	0.1034
Dracut 20	2072.6	4.4	2068.2	7300.0	5231.8	90	1134	0	1224	0.5904

384

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

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SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2028 thru OCT 2029

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2257.5	62.9	2194.6	9125.0	6930.4	672	0	0	672	0.2976
Z4toTGPLH	3941.9	33.5	3908.4	7665.0	3756.6	444	0	0	444	0.1126
Z4toStg	2748.5	9.1	2739.4	7882.5	5143.1	136	0	0	136	0.0495
Engie2CG	327.5	0.0	327.5	1057.0	729.5	11	0	0	11	0.0335
GranBrdgPL	3832.7	8.0	3824.7	73000.0	69175.3	0	█	0	█	█
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	2013.4	5.6	2007.7	56666.3	54658.5	65	0	0	65	0.0323
LNGtoLNG	123.1	0.0	123.1	2920.0	2796.9	62	0	0	62	0.5000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		207.6				2315	█		█	█

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1
Report 1

NOV 2029 thru OCT 2030

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	1139	Transportation Cost	2325	JAN 19, 2030	
Penalty Cost	0	Withdrawal Cost	110	Other Variable Cost	0	System Served	206.14
Other Variable Cost	0	Carrying Cost	508			System Unserved	0.00
		Other Variable Cost	0			Total	206.14
Total Variable	██████	Total Variable	1757	Total Variable	2325		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	146330
						Total Revenue	0
						Net Cost	146330

Avg Cost of Served Demand 7.297 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.834 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20053.4	0.0	20053.4	0.0	20053.4	20053.4	0.0	0	206.1	0.0
Total	20053.4	0.0	20053.4	0.0	20053.4	20053.4	0.0	0	206.1	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2367.4	18250.0	15882.6			3.2444	7681	0	7681	3.2444
ENGNiagara	1146.6	1167.3	20.6			2.8509	3269	0	3269	2.8509
ENGPNGTS	364.0	365.0	1.0			3.2990	1201	0	1201	3.2990
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.3017	15399	0	15399	2.3017
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3243.9	7315.4	4071.5			5.3892	17482	0	17482	5.3892
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1367.7	2190.0	822.3			3.1113	4255	0	4255	3.1113

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2029 thru OCT 2030

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost	
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0	0.0000
Dracut 30	2960.2	10973.0	8012.8			6.3989	18942	0	18942		6.3989
Engie Combo	377.5	377.5	0.0								
DAWN5	1825.0	1825.0	0.0								
Total	20342.7										

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	169.7	169.7	0	0.0	13	100	0.0	0	147	148	1
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3403	3436	33
ENGDominion	103	100	110.1	107.9	0	2.1	103	100	0.0	0	241	243	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1549	1564	15
ENGHON	246	100	236.9	236.9	0	0.0	246	100	0.0	0	549	556	6
GranBrdgLNG	1242	100	2165.9	2138.9	0	27.0	1242	100	21.4	0	4070	4112	42
Total	3772	98	5179.6	5125.8	0	53.8	3772	98	27.1	0	10120	10219	99

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2367.4	0.0	2367.4	7882.5	5515.1	0	5043	0	5043	2.1303	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6106.0	0.0	6106.0	8698.1	2592.1	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2811.5	23.9	2787.6	10262.0	7474.3	317	2688	0	3004	1.0686	
TrCanCharges	1352.1	15.5	1336.5	1477.2	140.6	0	698	0	698	0.5159	
IroqCharges	1336.5	8.3	1328.2	1477.2	148.9	119	640	0	758	0.5674	
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584	
ENGLNG	169.7	0.0	169.7	10950.0	10780.3	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	4135.7	8.7	4127.0	10950.0	6823.0	180	4388	0	4568	1.1045	
UnionCharges	1367.7	15.6	1352.1	1477.2	125.1	0	140	0	140	0.1024	
Dracut 20	2068.4	4.3	2064.0	7300.0	5236.0	90	1134	0	1223	0.5915	

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2029 thru OCT 2030

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPZ4	2260.3	63.0	2197.3	9125.0	6927.7	673	0	0	673	0.2976	
Z4toTGPLH	3942.2	33.5	3908.7	7665.0	3756.3	444	0	0	444	0.1126	
Z4toStg	2748.2	9.1	2739.1	7882.5	5143.4	136	0	0	136	0.0495	
Engie2CG	327.5	0.0	327.5	1057.0	729.5	11	0	0	11	0.0335	
GranBrdgPL	3817.2	8.0	3809.2	73000.0	69190.8	0		0			
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000	
LNGtoRT101	1997.8	5.6	1992.2	56666.3	54674.0	65	0	0	65	0.0323	
LNGtoLNG	119.7	0.0	119.7	2920.0	2800.3	60	0	0	60	0.5000	
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0			
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000	
Total		208.5				2325					

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:53:04

NOV 2030 thru OCT 2031

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	1130	Transportation Cost	2334	JAN 19, 2031	
Penalty Cost	0	Withdrawal Cost	110	Other Variable Cost	0	System Served	208.77
Other Variable Cost	0	Carrying Cost	512			System Unserved	0.00
		Other Variable Cost	0			Total	208.77
Total Variable	██████	Total Variable	1752	Total Variable	2334		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	148837
						Total Revenue	0
						Net Cost	148837

Avg Cost of Served Demand 7.331 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.908 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20303.1	0.0	20303.1	0.0	20303.1	20303.1	0.0	0	208.8	0.0
Total	20303.1	0.0	20303.1	0.0	20303.1	20303.1	0.0	0	208.8	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2370.4	18250.0	15879.6			3.2767	7767	0	7767	3.2767
ENGNiagara	1146.6	1167.3	20.6			2.8794	3302	0	3302	2.8794
ENGPNGTS	364.0	365.0	1.0			3.3320	1213	0	1213	3.3320
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.3247	15553	0	15553	2.3247
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3389.8	7315.4	3925.5			5.4668	18531	0	18531	5.4668
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1370.4	2190.0	819.6			3.1421	4306	0	4306	3.1421

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2030 thru OCT 2031

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3058.4	10973.0	7914.6			6.5268	19962	0	19962	6.5268
Engie Combo	377.5	377.5	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	20592.6									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	163.5	163.5	0	0.0	13	100	0.0	0	148	148	0
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3436	3469	33
ENGDominion	103	100	109.8	107.6	0	2.1	103	100	0.0	0	243	246	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1564	1579	15
ENGHON	246	100	237.0	237.0	0	0.0	246	100	0.0	0	556	562	6
GranBrdgLNG	1242	100	2149.5	2122.8	0	26.7	1242	100	21.2	0	4112	4151	38
Total	3772	98	5157.0	5103.4	0	53.6	3772	98	26.9	0	10219	10314	95

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2370.4	0.0	2370.4	7882.5	5512.1	0	5043	0	5043	2.1276	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6109.1	0.0	6109.1	8698.1	2589.0	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2811.4	23.9	2787.5	10262.0	7474.5	317	2688	0	3004	1.0686	
TrCanCharges	1354.8	15.6	1339.2	1477.2	137.9	0	698	0	698	0.5149	
IroqCharges	1339.2	8.3	1330.9	1477.2	146.2	119	640	0	759	0.5664	
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584	
ENGLNG	163.5	0.0	163.5	10950.0	10786.5	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	4231.5	8.9	4222.6	10950.0	6727.4	184	4388	0	4572	1.0805	
UnionCharges	1370.4	15.6	1354.8	1477.2	122.3	0	140	0	140	0.1022	
Dracut 20	2216.8	4.7	2212.1	7300.0	5087.9	96	1134	0	1230	0.5548	

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2030 thru OCT 2031

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPZ4	2263.3	63.1	2200.2	9125.0	6924.8	673	0	0	673	0.2976	
Z4toTGPLH	3942.4	33.5	3908.9	7665.0	3756.1	444	0	0	444	0.1126	
Z4toStg	2748.0	9.1	2738.9	7882.5	5143.6	136	0	0	136	0.0495	
Engie2CG	327.5	0.0	327.5	1057.0	729.5	11	0	0	11	0.0335	
GranBrdgPL	3807.4	8.0	3799.5	73000.0	69200.5	0		0			
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000	
LNGtoRT101	1988.0	5.6	1982.4	56666.3	54683.8	64	0	0	64	0.0323	
LNGtoLNG	113.5	0.0	113.5	2920.0	2806.5	57	0	0	57	0.5000	
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0			
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000	
Total		209.1				2334					

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:53:04

NOV 2031 thru OCT 2032

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	1127	Transportation Cost	2351	JAN 19, 2032	
Penalty Cost	0	Withdrawal Cost	110	Other Variable Cost	0	System Served	211.15
Other Variable Cost	0	Carrying Cost	518			System Unserved	0.00
		Other Variable Cost	0			Total	211.15
Total Variable	████	Total Variable	1755	Total Variable	2351		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	151706
						Total Revenue	0
						Net Cost	151706

Avg Cost of Served Demand 7.362 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.988 USD/DT
(Supply Cost/LDC Purchase)

Class	Demand Summary					Served	Unserved	Revenue	Peak Served	Peak Unserved
	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.					
ENGINormal	20607.0	0.0	20607.0	0.0	20607.0	20607.0	0.0	0	211.2	0.0
Total	20607.0	0.0	20607.0	0.0	20607.0	20607.0	0.0	0	211.2	0.0

Source	Supply Summary			Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
	Total Take	Max Take	Surplus							
ENGUSGC	2390.3	18300.0	15909.7			3.3095	7911	0	7911	3.3095
ENGNiagara	1149.8	1170.5	20.7			2.9089	3345	0	3345	2.9089
ENGPNGTS	365.0	366.0	1.0			3.3722	1231	0	1231	3.3722
ENG3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6698.7	6698.7	0.0			2.3485	15732	0	15732	2.3485
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3398.9	7335.4	3936.5			5.5421	18837	0	18837	5.5421
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENG Dawn	1374.9	2196.0	821.1			3.1743	4364	0	4364	3.1743

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2031 thru OCT 2032

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3312.8	11003.1	7690.3			6.6257	21949	0	21949	6.6257
Engie Combo	377.5	377.5	0.0							
DAWN5	1830.0	1830.0	0.0							
Total	20897.8									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	161.0	161.0	0	0.0	13	100	0.0	0	148	149	1
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3469	3503	33
ENGDominion	103	100	110.4	108.2	0	2.2	103	100	0.0	0	246	248	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1579	1594	15
ENGHON	246	100	235.8	235.8	0	0.0	246	100	0.0	0	562	567	6
GranBrdgLNG	1242	100	2143.3	2116.6	0	26.7	1242	100	21.2	0	4151	4190	40
Total	3772	98	5147.6	5094.1	0	53.5	3772	98	26.8	0	10314	10411	97

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2390.3	0.0	2390.3	7904.1	5513.8	0	5043	0	5043	2.1099	
ENGTGP2Stg	107.1	2.2	105.0	7904.1	7799.2	28	0	0	28	0.2572	
ENGTGPLong	6137.2	0.0	6137.2	8719.7	2582.5	0	0	0	0	0.0000	
ENGTGPBND	1149.8	7.1	1142.7	1142.7	0.0	98	267	0	365	0.3179	
ENGTGPShort	2810.8	23.9	2786.9	10290.1	7503.2	317	2688	0	3004	1.0688	
TrCanCharges	1359.2	15.6	1343.6	1481.2	137.6	0	698	0	698	0.5132	
IroqCharges	1343.6	8.3	1335.2	1481.2	146.0	119	640	0	759	0.5649	
ENGPNGTS	365.0	3.7	361.3	366.0	4.7	1	312	0	312	0.8561	
ENGLNG	161.0	0.0	161.0	10980.0	10819.0	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6370.0	6370.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4392.0	4392.0	0	0	0	0	0.0000	
Dracut 30	4506.5	9.5	4497.0	10980.0	6483.0	196	4388	0	4584	1.0172	
UnionCharges	1374.9	15.7	1359.2	1481.2	122.0	0	140	0	140	0.1018	
Dracut 20	2205.2	4.6	2200.6	7320.0	5119.4	96	1134	0	1229	0.5575	

38

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2031 thru OCT 2032

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2283.2	63.6	2219.5	9150.0	6930.5	679	0	0	679	0.2976
Z4toTGPLH	3951.3	33.6	3917.7	7686.0	3768.3	445	0	0	445	0.1126
Z4toStg	2747.4	9.1	2738.3	7904.1	5165.8	136	0	0	136	0.0495
Engie2CG	327.5	0.0	327.5	1064.0	736.5	11	0	0	11	0.0335
GranBrdgPL	3808.8	8.0	3800.8	73200.0	69399.2	0	█	0	█	█
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000
LNGtoRT101	1984.4	5.6	1978.8	56821.5	54842.7	64	0	0	64	0.0323
LNGtoLNG	111.0	0.0	111.0	2928.0	2817.0	56	0	0	56	0.5000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1830.0	0.0	1830.0	1830.0	0.0	57	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1830.0	1830.0	0	0	0	0	0.0000
Total		210.4				2351	█		█	█

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:53:04

NOV 2032 thru OCT 2033

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	1118	Transportation Cost	2354	JAN 19, 2033	
Penalty Cost	0	Withdrawal Cost	109	Other Variable Cost	0	System Served	213.52
Other Variable Cost	0	Carrying Cost	522			System Unserved	0.00
		Other Variable Cost	0			Total	213.52
Total Variable	██████	Total Variable	1749	Total Variable	2354		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	153856
						Total Revenue	0
						Net Cost	153856

Avg Cost of Served Demand 7.412 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.061 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20758.9	0.0	20758.9	0.0	20758.9	20758.9	0.0	0	213.5	0.0
Total	20758.9	0.0	20758.9	0.0	20758.9	20758.9	0.0	0	213.5	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2382.4	18250.0	15867.6			3.3417	7961	0	7961	3.3417
ENGNiagara	1146.6	1167.3	20.6			2.9372	3368	0	3368	2.9372
ENGPNGTS	364.0	365.0	1.0			3.3990	1237	0	1237	3.3990
ENG3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.3715	15866	0	15866	2.3715
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3494.9	7315.4	3820.4			5.7191	19988	0	19988	5.7191
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENG Dawn	1371.1	2190.0	818.9			3.2051	4395	0	4395	3.2051

56

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2032 thru OCT 2033

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3397.1	10973.0	7575.9			6.6598	22624	0	22624	6.6598
Engie Combo	377.5	377.5	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	21049.0									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	160.7	160.7	0	0.0	13	100	0.0	0	149	149	1
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3503	3536	34
ENGDominion	103	100	109.2	107.0	0	2.1	103	100	0.0	0	248	251	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1594	1610	16
ENGHON	246	100	235.7	235.7	0	0.0	246	100	0.0	0	567	572	5
GranBrdgLNG	1242	100	2124.5	2098.0	0	26.4	1242	100	21.0	0	4190	4231	41
Total	3772	98	5127.2	5073.9	0	53.3	3772	98	26.7	0	10411	10510	99

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2382.4	0.0	2382.4	7882.5	5500.2	0	5043	0	5043	2.1169	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6122.6	0.0	6122.6	8698.1	2575.5	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2809.5	23.9	2785.6	10262.0	7476.4	316	2688	0	3004	1.0693	
TrCanCharges	1355.5	15.6	1339.9	1477.2	137.3	0	698	0	698	0.5146	
IroqCharges	1339.9	8.3	1331.6	1477.2	145.6	119	640	0	759	0.5662	
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584	
ENGLNG	160.7	0.0	160.7	10950.0	10789.3	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	4598.8	9.7	4589.1	10950.0	6360.9	200	4388	0	4588	0.9976	
UnionCharges	1371.1	15.6	1355.5	1477.2	121.7	0	140	0	140	0.1021	
Dracut 20	2293.3	4.8	2288.4	7300.0	5011.6	100	1134	0	1233	0.5378	

58

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2032 thru OCT 2033

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPZ4	2275.2	63.4	2211.8	9125.0	6913.2	677	0	0	677	0.2976	
Z4toTGPLH	3944.3	33.5	3910.8	7665.0	3754.2	444	0	0	444	0.1126	
Z4toStg	2746.1	9.1	2737.0	7882.5	5145.5	136	0	0	136	0.0495	
Engie2CG	327.5	0.0	327.5	1057.0	729.5	11	0	0	11	0.0335	
GranBrdgPL	3785.8	8.0	3777.9	73000.0	69222.1	0		0			
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000	
LNGtoRT101	1966.3	5.5	1960.8	56666.3	54705.4	64	0	0	64	0.0323	
LNGtoLNG	110.7	0.0	110.7	2920.0	2809.3	55	0	0	55	0.5000	
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0			
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000	
Total		210.3				2354					

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:53:04

NOV 2033 thru OCT 2034

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	1106	Transportation Cost	2364	JAN 19, 2034	
Penalty Cost	0	Withdrawal Cost	108	Other Variable Cost	0	System Served	215.84
Other Variable Cost	0	Carrying Cost	526			System Unserved	0.00
		Other Variable Cost	0			Total	215.84
Total Variable	██████	Total Variable	1741	Total Variable	2364		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	156457
						Total Revenue	0
						Net Cost	156457

Avg Cost of Served Demand 7.461 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.143 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20970.2	0.0	20970.2	0.0	20970.2	20970.2	0.0	0	215.8	0.0
Total	20970.2	0.0	20970.2	0.0	20970.2	20970.2	0.0	0	215.8	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2387.3	18250.0	15862.7			3.3748	8057	0	8057	3.3748
ENGNiagara	1146.6	1167.3	20.6			2.9666	3402	0	3402	2.9666
ENGPNGTS	364.0	365.0	1.0			3.4330	1250	0	1250	3.4330
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.3952	16025	0	16025	2.3952
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3515.4	7315.4	3800.0			5.8115	20430	0	20430	5.8115
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1371.2	2190.0	818.8			3.2372	4439	0	4439	3.2372

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2033 thru OCT 2034

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3582.9	10973.0	7390.1			6.7925	24337	0	24337	6.7925
Engie Combo	377.5	377.5	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	21260.3									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	160.9	160.9	0	0.0	13	100	0.0	0	149	150	1
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3536	3571	35
ENGDominion	103	100	109.2	107.0	0	2.1	103	100	0.0	0	251	253	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1610	1626	15
ENGHON	246	100	234.6	234.6	0	0.0	246	100	0.0	0	572	578	6
GranBrdgLNG	1242	100	2102.0	2075.9	0	26.2	1242	100	20.8	0	4231	4271	41
Total	3772	98	5103.9	5050.9	0	53.0	3772	98	26.4	0	10510	10609	99

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2387.3	0.0	2387.3	7882.5	5495.3	0	5043	0	5043	2.1126	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6128.4	0.0	6128.4	8698.1	2569.7	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2808.4	23.9	2784.6	10262.0	7477.4	316	2688	0	3004	1.0696	
TrCanCharges	1355.6	15.6	1340.0	1477.2	137.1	0	698	0	698	0.5146	
IroqCharges	1340.0	8.3	1331.7	1477.2	145.5	119	640	0	759	0.5662	
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584	
ENGLNG	160.9	0.0	160.9	10950.0	10789.1	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	4732.6	9.9	4722.6	10950.0	6227.4	205	4388	0	4594	0.9707	
UnionCharges	1371.2	15.6	1355.6	1477.2	121.6	0	140	0	140	0.1021	
Dracut 20	2365.8	5.0	2360.8	7300.0	4939.2	103	1134	0	1236	0.5226	

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2033 thru OCT 2034

Cost and Flow Summary

Units: MDT, USD (000)

=====											
Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPZ4	2280.1	63.5	2216.6	9125.0	6908.4	678	0	0	678	0.2976	
Z4toTGPLH	3945.4	33.5	3911.8	7665.0	3753.2	444	0	0	444	0.1126	
Z4toStg	2745.0	9.1	2736.0	7882.5	5146.6	136	0	0	136	0.0495	
Engie2CG	327.5	0.0	327.5	1057.0	729.5	11	0	0	11	0.0335	
GranBrdgPL	3763.8	7.9	3755.9	73000.0	69244.1	0		0			
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000	
LNGtoRT101	1944.2	5.4	1938.8	56666.3	54727.5	63	0	0	63	0.0323	
LNGtoLNG	110.9	0.0	110.9	2920.0	2809.1	55	0	0	55	0.5000	
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0			
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000	
Total		210.7				2364					

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:53:04

NOV 2034 thru OCT 2035

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	1092	Transportation Cost	2371	JAN 19, 2035	
Penalty Cost	0	Withdrawal Cost	108	Other Variable Cost	0	System Served	217.91
Other Variable Cost	0	Carrying Cost	531			System Unserved	0.00
		Other Variable Cost	0			Total	217.91
Total Variable	████	Total Variable	1731	Total Variable	2371		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	159012
						Total Revenue	0
						Net Cost	159012

Avg Cost of Served Demand 7.515 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.226 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21158.1	0.0	21158.1	0.0	21158.1	21158.1	0.0	0	217.9	0.0
Total	21158.1	0.0	21158.1	0.0	21158.1	21158.1	0.0	0	217.9	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2390.2	18250.0	15859.8			3.4083	8146	0	8146	3.4083
ENGNiagara	1146.6	1167.3	20.6			2.9963	3436	0	3436	2.9963
ENGPNGTS	364.0	365.0	1.0			3.4673	1262	0	1262	3.4673
ENG3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.4191	16185	0	16185	2.4191
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3586.6	7315.4	3728.8			5.9359	21289	0	21289	5.9359
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
104 ENG Dawn	1371.3	2190.0	818.7			3.2695	4484	0	4484	3.2695

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2034 thru OCT 2035

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3696.4	10973.0	7276.7			6.9236	25592	0	25592	6.9236
Engie Combo	377.5	377.5	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	21447.9									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	159.1	159.1	0	0.0	13	100	0.0	0	150	151	1
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3571	3606	35
ENGDominion	103	100	108.6	106.5	0	2.1	103	100	0.0	0	253	256	3
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1626	1641	15
ENGHON	246	100	234.5	234.5	0	0.0	246	100	0.0	0	578	583	6
GranBrdgLNG	1242	100	2074.0	2048.2	0	25.8	1242	100	20.5	0	4271	4310	38
Total	3772	98	5073.3	5020.6	0	52.6	3772	98	26.2	0	10609	10707	98

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2390.2	0.0	2390.2	7882.5	5492.4	0	5043	0	5043	2.1100	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6131.9	0.0	6131.9	8698.1	2566.2	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2807.7	23.9	2783.9	10262.0	7478.1	316	2688	0	3004	1.0699	
TrCanCharges	1355.7	15.6	1340.1	1477.2	137.1	0	698	0	698	0.5146	
IroqCharges	1340.1	8.3	1331.8	1477.2	145.4	119	640	0	759	0.5661	
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584	
ENGLNG	159.1	0.0	159.1	10950.0	10790.9	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	4859.6	10.2	4849.4	10950.0	6100.6	211	4388	0	4599	0.9464	
UnionCharges	1371.3	15.6	1355.7	1477.2	121.5	0	140	0	140	0.1021	
Dracut 20	2423.3	5.1	2418.2	7300.0	4881.8	105	1134	0	1239	0.5112	

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2034 thru OCT 2035

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary										
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2283.0	63.6	2219.4	9125.0	6905.6	679	0	0	679	0.2976
Z4toTGPLH	3946.1	33.5	3912.5	7665.0	3752.5	444	0	0	444	0.1126
Z4toStg	2744.3	9.1	2735.3	7882.5	5147.3	136	0	0	136	0.0495
Engie2CG	327.5	0.0	327.5	1057.0	729.5	11	0	0	11	0.0335
GranBrdgPL	3738.3	7.9	3730.4	73000.0	69269.6	0	█	0	█	█
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	1918.6	5.4	1913.3	56666.3	54753.0	62	0	0	62	0.0323
LNGtoLNG	109.1	0.0	109.1	2920.0	2810.9	55	0	0	55	0.5000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		211.1				2371	█		█	█

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:53:04

NOV 2035 thru OCT 2036

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	1066	Transportation Cost	2386	JAN 19, 2036	
Penalty Cost	0	Withdrawal Cost	106	Other Variable Cost	0	System Served	219.62
Other Variable Cost	0	Carrying Cost	533			System Unserved	0.00
		Other Variable Cost	0			Total	219.62
Total Variable	████	Total Variable	1705	Total Variable	2386		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	162053
						Total Revenue	0
						Net Cost	162053

Avg Cost of Served Demand 7.573 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.320 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21399.4	0.0	21399.4	0.0	21399.4	21399.4	0.0	0	219.6	0.0
Total	21399.4	0.0	21399.4	0.0	21399.4	21399.4	0.0	0	219.6	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2406.8	18300.0	15893.2			3.4426	8286	0	8286	3.4426
ENGNiagara	1149.8	1170.5	20.7			3.0270	3480	0	3480	3.0270
ENGPNGTS	365.0	366.0	1.0			3.5092	1281	0	1281	3.5092
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6698.7	6698.7	0.0			2.4439	16371	0	16371	2.4439
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3723.3	7335.4	3612.1			6.0402	22489	0	22489	6.0402
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
404 ENGDawn	1375.5	2196.0	820.5			3.3031	4543	0	4543	3.3031

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2035 thru OCT 2036

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3762.4	11003.1	7240.7			7.1429	26874	0	26874	7.1429
Engie Combo	377.5	377.5	0.0							
DAWN5	1830.0	1830.0	0.0							
Total	21688.9									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	161.6	161.6	0	0.0	13	100	0.0	0	151	150	-1
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3606	3641	35
ENGDominion	103	100	109.2	107.0	0	2.1	103	100	0.0	0	256	258	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1641	1657	16
ENGHON	246	100	234.5	234.5	0	0.0	246	100	0.0	0	583	589	6
GranBrdgLNG	1242	100	2021.0	1995.9	0	25.1	1242	100	20.0	0	4310	4335	25
Total	3772	98	5023.4	4971.4	0	52.0	3772	98	25.6	0	10707	10790	83

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2406.8	0.0	2406.8	7904.1	5497.3	0	5043	0	5043	2.0954	
ENGTGP2Stg	107.1	2.2	104.9	7904.1	7799.2	28	0	0	28	0.2572	
ENGTGPLong	6155.8	0.0	6155.8	8719.7	2563.9	0	0	0	0	0.0000	
ENGTGPBND	1149.8	7.1	1142.7	1142.7	0.0	98	267	0	365	0.3179	
ENGTGPShort	2808.3	23.9	2784.4	10290.1	7505.7	316	2688	0	3004	1.0697	
TrCanCharges	1359.8	15.6	1344.2	1481.2	137.0	0	698	0	698	0.5130	
IroqCharges	1344.2	8.3	1335.8	1481.2	145.4	119	640	0	759	0.5647	
ENGPNGTS	365.0	3.7	361.3	366.0	4.7	1	312	0	312	0.8561	
ENGLNG	161.6	0.0	161.6	10980.0	10818.4	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6370.0	6370.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4392.0	4392.0	0	0	0	0	0.0000	
Dracut 30	4885.0	10.3	4874.7	10980.0	6105.3	212	4388	0	4600	0.9417	
UnionCharges	1375.5	15.7	1359.8	1481.2	121.4	0	140	0	140	0.1018	
Dracut 20	2600.7	5.5	2595.3	7320.0	4724.7	113	1134	0	1247	0.4793	

405

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2035 thru OCT 2036

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPZ4	2299.7	64.1	2235.6	9150.0	6914.4	684	0	0	684	0.2976	
Z4toTGPLH	3953.8	33.6	3920.2	7686.0	3765.8	445	0	0	445	0.1126	
Z4toStg	2744.9	9.1	2735.9	7904.1	5168.3	136	0	0	136	0.0495	
Engie2CG	327.5	0.0	327.5	1064.0	736.5	11	0	0	11	0.0335	
GranBrdgPL	3689.2	7.7	3681.4	73200.0	69518.6	0		0			
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000	
LNGtoRT101	1864.4	5.2	1859.2	56821.5	54962.3	60	0	0	60	0.0323	
LNGtoLNG	111.6	0.0	111.6	2928.0	2816.4	56	0	0	56	0.5000	
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	1830.0	0.0	1830.0	1830.0	0.0	57		0			
DAWN5Dracut	0.0	0.0	0.0	1830.0	1830.0	0	0	0	0	0.0000	
Total		211.9				2386					

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:53:04

NOV 2036 thru OCT 2037

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	1056	Transportation Cost	2386	JAN 19, 2037	
Penalty Cost	0	Withdrawal Cost	106	Other Variable Cost	0	System Served	221.46
Other Variable Cost	0	Carrying Cost	538			System Unserved	0.00
		Other Variable Cost	0			Total	221.46
Total Variable	████	Total Variable	1699	Total Variable	2386		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	164106
						Total Revenue	0
						Net Cost	164106

Avg Cost of Served Demand 7.634 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.396 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21495.4	0.0	21495.4	0.0	21495.4	21495.4	0.0	0	221.5	0.0
Total	21495.4	0.0	21495.4	0.0	21495.4	21495.4	0.0	0	221.5	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2396.0	18250.0	15854.0			3.4762	8329	0	8329	3.4762
ENGNiagara	1146.6	1167.3	20.6			3.0565	3505	0	3505	3.0565
ENGPNGTS	364.0	365.0	1.0			3.5370	1287	0	1287	3.5370
ENG3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.4678	16510	0	16510	2.4678
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3793.7	7315.4	3521.7			6.1999	23520	0	23520	6.1999
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
407 ENG Dawn	1371.4	2190.0	818.6			3.3353	4574	0	4574	3.3353

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2036 thru OCT 2037

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3819.5	10973.0	7153.5			7.2185	27571	0	27571	7.2185
Engie Combo	377.5	377.5	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	21784.1									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	162.4	162.4	0	0.0	13	100	0.0	0	150	152	1
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3641	3677	36
ENGDominion	103	100	109.2	107.0	0	2.1	103	100	0.0	0	258	260	2
ENGNFG	671	100	727.6	721.9	0	5.7	671	100	5.7	0	1657	1673	16
ENGHON	246	100	228.6	228.6	0	0.0	246	100	0.0	0	589	595	6
GranBrdgLNG	1242	100	2000.8	1975.9	0	24.9	1242	100	19.8	0	4335	4377	42
Total	3772	98	5002.0	4950.2	0	51.7	3772	98	25.5	0	10790	10893	103

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2396.0	0.0	2396.0	7882.5	5486.5	0	5043	0	5043	2.1048	
ENGTGP2Stg	111.1	2.3	108.9	7882.5	7773.7	29	0	0	29	0.2572	
ENGTGPLong	6139.0	0.0	6139.0	8698.1	2559.1	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2806.3	23.9	2782.4	10262.0	7479.5	316	2688	0	3004	1.0704	
TrCanCharges	1355.7	15.6	1340.2	1477.2	137.0	0	698	0	698	0.5145	
IroqCharges	1340.2	8.3	1331.8	1477.2	145.3	119	640	0	759	0.5661	
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584	
ENGLNG	162.4	0.0	162.4	10950.0	10787.6	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	5153.2	10.8	5142.4	10950.0	5807.6	224	4388	0	4612	0.8950	
UnionCharges	1371.4	15.6	1355.7	1477.2	121.4	0	140	0	140	0.1021	
Dracut 20	2460.0	5.2	2454.8	7300.0	4845.2	107	1134	0	1240	0.5043	

408

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2036 thru OCT 2037

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPZ4	2284.9	63.7	2221.2	9125.0	6903.8	680	0	0	680	0.2976	
Z4toTGPLH	3951.4	33.6	3917.8	7665.0	3747.2	445	0	0	445	0.1126	
Z4toStg	2739.0	9.0	2730.0	7882.5	5152.6	136	0	0	136	0.0495	
Engie2CG	327.5	0.0	327.5	1057.0	729.5	11	0	0	11	0.0335	
GranBrdgPL	3663.6	7.7	3655.9	73000.0	69344.1	0		0			
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000	
LNGtoRT101	1843.8	5.2	1838.6	56666.3	54827.7	60	0	0	60	0.0323	
LNGtoLNG	112.4	0.0	112.4	2920.0	2807.6	56	0	0	56	0.5000	
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0			
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000	
Total		211.5				2386					

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:53:04

NOV 2037 thru OCT 2038

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	1027	Transportation Cost	2395	JAN 19, 2038	
Penalty Cost	0	Withdrawal Cost	104	Other Variable Cost	0	System Served	223.32
Other Variable Cost	0	Carrying Cost	541			System Unserved	0.00
		Other Variable Cost	0			Total	223.32
Total Variable	████	Total Variable	1672	Total Variable	2395		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	166904
						Total Revenue	0
						Net Cost	166904

Avg Cost of Served Demand 7.702 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.489 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21670.7	0.0	21670.7	0.0	21670.7	21670.7	0.0	0	223.3	0.0
Total	21670.7	0.0	21670.7	0.0	21670.7	21670.7	0.0	0	223.3	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2399.1	18250.0	15850.9			3.5106	8422	0	8422	3.5106
ENGNiagara	1146.6	1167.3	20.6			3.0871	3540	0	3540	3.0871
ENGPNGTS	364.0	365.0	1.0			3.5723	1300	0	1300	3.5723
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.4924	16675	0	16675	2.4924
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3942.6	7315.4	3372.8			6.2790	24755	0	24755	6.2790
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1371.4	2190.0	818.6			3.3686	4620	0	4620	3.3686

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Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2037 thru OCT 2038

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3841.8	10973.0	7131.2			7.4693	28696	0	28696	7.4693
Engie Combo	377.5	377.5	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	21958.3									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	167.1	167.1	0	0.0	13	100	0.0	0	152	150	-1
ENGFSMA	1498	96	1775.5	1756.5	0	19.0	1498	96	0.0	0	3677	3712	36
ENGDominion	103	100	109.5	107.3	0	2.1	103	100	0.0	0	260	263	2
ENGNFG	671	100	727.1	721.4	0	5.7	671	100	5.7	0	1673	1688	16
ENGHON	246	100	227.6	227.6	0	0.0	246	100	0.0	0	595	601	6
GranBrdgLNG	1242	100	1944.3	1920.1	0	24.2	1242	100	19.2	0	4377	4405	28
Total	3772	98	4951.1	4900.0	0	51.1	3772	98	24.9	0	10893	10980	87

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2399.1	0.0	2399.1	7882.5	5483.5	0	5043	0	5043	2.1022	
ENGTGP2Stg	112.7	2.3	110.4	7882.5	7772.1	29	0	0	29	0.2572	
ENGTGPLong	6141.2	0.0	6141.2	8698.1	2556.9	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2807.1	23.9	2783.2	10262.0	7478.8	316	2688	0	3004	1.0701	
TrCanCharges	1355.7	15.6	1340.2	1477.2	137.0	0	698	0	698	0.5145	
IroqCharges	1340.2	8.3	1331.8	1477.2	145.3	119	640	0	759	0.5661	
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584	
ENGLNG	167.1	0.0	167.1	10950.0	10782.9	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	5108.3	10.7	5097.5	10950.0	5852.5	222	4388	0	4610	0.9025	
UnionCharges	1371.4	15.6	1355.7	1477.2	121.4	0	140	0	140	0.1021	
Dracut 20	2676.1	5.6	2670.5	7300.0	4629.5	116	1134	0	1250	0.4670	

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2037 thru OCT 2038

Cost and Flow Summary

Units: MDT, USD (000)

=====											
Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPZ4	2286.3	63.7	2222.6	9125.0	6902.4	680	0	0	680	0.2976	
Z4toTGPLH	3952.2	33.6	3918.6	7665.0	3746.4	445	0	0	445	0.1126	
Z4toStg	2738.2	9.0	2729.2	7882.5	5153.3	136	0	0	136	0.0495	
Engie2CG	327.5	0.0	327.5	1057.0	729.5	11	0	0	11	0.0335	
GranBrdgPL	3603.8	7.6	3596.3	73000.0	69403.7	0		0			
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000	
LNGtoRT101	1783.8	5.0	1778.8	56666.3	54887.4	58	0	0	58	0.0323	
LNGtoLNG	117.1	0.0	117.1	2920.0	2802.9	59	0	0	59	0.5000	
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0			
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000	
Total		211.7				2395					

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 12:53:04

NOV 2038 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	438	Transportation Cost	2332	JAN 19, 2039	
Penalty Cost	0	Withdrawal Cost	103	Other Variable Cost	0	System Served	225.31
Other Variable Cost	0	Carrying Cost	456			System Unserved	0.00
		Other Variable Cost	0			Total	225.31
Total Variable	██████	Total Variable	996	Total Variable	2332		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	165349
						Total Revenue	0
						Net Cost	165349

Avg Cost of Served Demand 7.566 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.659 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21855.0	0.0	21855.0	0.0	21855.0	21855.0	0.0	0	225.3	0.0
Total	21855.0	0.0	21855.0	0.0	21855.0	21855.0	0.0	0	225.3	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2402.0	18250.0	15848.0			3.5454	8516	0	8516	3.5454
ENGNiagara	1146.6	1167.3	20.6			3.1179	3575	0	3575	3.1179
ENGPNGTS	364.0	365.0	1.0			3.6081	1313	0	1313	3.6081
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.5174	16842	0	16842	2.5174
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3317.9	7315.4	3997.5			7.0056	23244	0	23244	7.0056
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	950.5	2190.0	1239.5			3.4869	3314	0	3314	3.4869

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2038 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3906.4	10973.0	7066.6			7.7521	30283	0	30283	7.7521
Engie Combo	377.5	377.5	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	20980.3									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	161.1	161.7	0	0.0	12	95	0.0	-1	150	150	-0
ENGFSMA	1498	96	1759.7	1756.5	0	18.8	1482	95	0.0	-16	3712	3710	-3
ENGDominion	103	100	109.2	107.0	0	2.1	103	100	0.0	0	263	264	1
ENGNFG	671	100	726.5	720.8	0	5.7	671	100	5.7	0	1688	1707	18
ENGHON	246	100	231.7	231.7	0	0.0	246	100	0.0	0	601	607	6
GranBrdgLNG	1242	100	774.8	1883.0	0	9.6	124	10	18.8	-1118	4405	451	-3955
Total	3772	98	3763.1	4860.8	0	36.3	2638	69	24.5	-1134	10980	7048	-3933

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2402.0	0.0	2402.0	7882.5	5480.5	0	5043	0	5043	2.0996	
ENGTGP2Stg	114.1	2.3	111.7	7882.5	7770.8	29	0	0	29	0.2572	
ENGTGPLong	6156.5	0.0	6156.5	8698.1	2541.6	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2810.3	23.9	2786.4	10262.0	7475.5	317	2688	0	3004	1.0690	
TrCanCharges	939.6	10.8	928.8	1477.2	548.3	0	698	0	698	0.7424	
IroqCharges	928.8	5.8	923.1	1477.2	554.1	82	640	0	722	0.7775	
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584	
ENGLNG	161.7	0.0	161.7	10950.0	10788.3	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	4644.7	9.8	4635.0	10950.0	6315.0	202	4388	0	4590	0.9882	
UnionCharges	950.5	10.8	939.6	1477.2	537.5	0	140	0	140	0.1473	
Dracut 20	2579.6	5.4	2574.1	7300.0	4725.9	112	1134	0	1246	0.4829	

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 12:53:04

NOV 2038 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPZ4	2288.0	63.8	2224.2	9125.0	6900.8	681	0	0	681	0.2976	
Z4toTGPLH	3966.0	33.7	3932.3	7665.0	3732.7	447	0	0	447	0.1126	
Z4toStg	2724.4	9.0	2715.4	7882.5	5167.1	135	0	0	135	0.0495	
Engie2CG	327.5	0.0	327.5	1057.0	729.5	11	0	0	11	0.0335	
GranBrdgPL	3573.1	7.5	3565.6	73000.0	69434.4	0		0			
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000	
LNGtoRT101	1753.1	4.9	1748.1	56666.3	54918.1	57	0	0	57	0.0323	
LNGtoLNG	111.1	0.0	111.1	2920.0	2808.9	56	0	0	56	0.5000	
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0			
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000	
Total		198.4				2332					

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1z 11-Mar-2019
Report 1z 12:53:04

NOV 2018 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████████	Injection Cost	18130	Transportation Cost	48135	JAN 19, 2039	
Penalty Cost	0	Withdrawal Cost	1973	Other Variable Cost	0	System Served	225.31
Other Variable Cost	1719	Carrying Cost	9382			System Unserved	0.00
Total Variable	████████	Other Variable Cost	0	Total Variable	48135	Total	225.31
Demand/Reservation Co	████████	Demand Cost	████████	Demand Cost	████████		
Other Fixed Cost	13464	Other Fixed Cost	20435	Other Fixed Cost	0		
Total Fixed	████████	Total Fixed	████████	Total Fixed	████████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████████	Net Storage Cost	████████	Net Trans Cost	████████	Total Gas Cost	2861181
						Total Revenue	0
						Net Cost	2861181

Avg Cost of Served Demand 7.045 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.942 USD/DT
(Supply Cost/LDC Purchase)

Class	Demand Summary					Served	Unserved	Revenue	Peak Served	Peak Unserved
	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.					
ENGINormal	406135.6	0.0	406135.6	0.0	406135.6	406135.6	0.0	0	225.3	0.0
Total	406135.6	0.0	406135.6	0.0	406135.6	406135.6	0.0	0	225.3	0.0

Source	Supply Summary			Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
	Total Take	Max Take	Surplus							
ENGUSGC	49726.1	383500.0	333773.9			3.1419	156233	0	156233	3.1419
ENGNiagara	23524.6	24528.7	1004.1			2.7353	64346	0	64346	2.7353
ENGPNGTS	7482.2	7670.0	187.8			3.2366	24217	0	24217	3.2366
ENGC3Winter	458.7	1926.6	1467.9			15.0000	6881	0	6881	15.0000
ENG-Z4	140526.9	140539.9	13.0			2.1594	303459	0	303459	2.1594
DLiqWinter	1250.0	1250.0	0.0							
Dracut 20	64985.0	153722.8	88737.8			5.9648	387622	0	387622	5.9648
ENGC3Summer	276.4	1962.6	1686.2			10.0000	2764	0	2764	10.0000
DLiqSummer	84.0	84.0	0.0							

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1z 11-Mar-2019
Report 1z (Continued) 12:53:04

NOV 2018 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	24723.2	46020.0	21296.8			3.0812	76177	0	76177	3.0812
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	55311.9	230584.2	175272.3			6.8852	380834	0	380834	6.8852
Engie Combo	9189.6	9189.6	0.0							
DAWN5	34259.7	36968.3	2708.6							
Total	411798.4									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	4270.3	4270.9	0	0.0	12	95	0.0	-1	126	150	24
ENGPropane	77	100	735.1	811.9	0	0.0	0	0	0.0	-77	953	160	-793
ENGFSMA	1482	95	37202.9	36804.9	0	398.1	1482	95	0.0	0	2573	3710	1137
ENGDominion	103	100	2316.5	2271.3	0	45.2	103	100	0.0	0	178	264	85
ENGNFG	671	100	15196.9	15076.9	0	120.1	671	100	119.1	0	1164	1707	543
ENGHON	246	100	4940.0	4940.0	0	0.0	246	100	0.0	0	427	607	179
GranBrdgLNG	0	N/A	34003.6	33456.3	0	423.1	124	10	334.6	124	0	451	451
Total	2591	N/A	98665.2	97632.0	0	986.4	2638	99	453.7	47	5422	7048	1626

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	49726.1	0.0	49726.1	165641.3	115915.2	0	105908	0	105908	2.1298	
ENGTGP2Stg	2211.2	45.2	2166.0	165641.3	163475.3	569	0	0	569	0.2572	
ENGTGPLong	128332.7	0.0	128332.7	182768.0	54435.2	0	0	0	0	0.0000	
ENGTGPBND	23524.6	145.9	23378.8	23945.7	567.0	2008	5614	0	7622	0.3240	
ENGTGPShort	58973.9	501.3	58472.6	215642.1	157169.5	6642	56441	0	63084	1.0697	
TrCanCharges	24441.6	281.1	24160.5	31040.5	6879.9	0	14649	0	14649	0.5994	
IroqCharges	24160.5	149.8	24010.8	31040.5	7029.7	2144	13435	0	15579	0.6448	
ENGPNGTS	7482.2	74.8	7407.4	7670.0	262.6	13	6548	0	6561	0.8769	
ENGLNG	4270.9	0.0	4270.9	230100.0	225829.1	0	0	0	0	0.0000	
ENGPropane	811.9	0.0	811.9	133210.0	132398.1	0	0	0	0	0.0000	
ENGC3Truck	735.1	0.0	735.1	92040.0	91304.9	735	0	0	735	1.0000	
Dracut 30	75861.4	159.3	75702.1	230100.0	154397.9	3293	92155	0	95448	1.2582	

Scen 1523 Supplemental BC 1.2 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1z 11-Mar-2019
Report 1z (Continued) 12:53:04

NOV 2018 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
UnionCharges	24723.2	281.6	24441.6	31040.5	6598.9	0	2940	0	2940	0.1189
Dracut 20	47655.2	100.1	47555.1	153400.0	105844.9	2069	23807	0	25876	0.5430
ENGTGPZ4	47514.9	1324.3	46190.6	191750.0	145559.4	14139	0	0	14139	0.2976
Z4toTGPLH	82846.3	704.2	82142.1	161070.0	78927.9	9331	0	0	9331	0.1126
Z4toStg	57680.6	190.3	57490.3	165641.3	108151.1	2857	0	0	2857	0.0495
Engie2CG	8139.6	0.0	8139.6	22232.0	14092.4	273	0	0	273	0.0335
GranBrdgPL	62188.0	130.6	62057.4	1241800.0	1179742.6	0		0		
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	158800.0	158800.0	0	0	0	0	0.0000
LNGtoRT101	31235.5	87.5	31148.0	1190767.5	1159619.5	1009	0	0	1010	0.0323
LNGtoLNG	1886.3	0.0	1886.3	61360.0	59473.7	943	0	0	943	0.5000
Engie2ENGLNG	1050.0	0.0	1050.0	1050.0	0.0	1050	0	0	1050	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWNTCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	31040.0	0.0	31040.0	36968.3	5928.3	959		0		
DAWN5Dracut	3219.7	0.0	3219.7	36968.3	33748.6	99	0	0	99	0.0309
Total		4175.9				48135				

RESOURCE MIX RESULTS

Units: MDT

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	Contract	Start Date	End Date	Min Level	Max Level	Result MDQ
	-----	-----	-----	-----	-----	-----
Supplies	DAWN	NOV 2022	OCT 2039	0.00	150.00	0.00
	Repsol 40	NOV 2022	OCT 2039	0.00	150.00	0.00
	Engie Combo	NOV 2023	OCT 2039	0.00	7.00	4.19

	Contract	Start Date	End Date	Min Level	Max Level	Result MDQ
	-----	-----	-----	-----	-----	-----
Segments	Repsol to101	NOV 2021	OCT 2039	0.00	150.00	0.00
	Dawn2Dracut	NOV 2021	OCT 2039	0.00	150.00	0.00
	DAWNTCPL	NOV 2021	OCT 2039	0.00	150.00	0.00
	PNGTS2RT101	NOV 2021	OCT 2039	0.00	150.00	0.00

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 13:00:40

NOV 2018 thru OCT 2019

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	48	Transportation Cost	2117	JAN 19, 2019	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	164.57
Other Variable Cost	342	Carrying Cost	313			System Unserved	0.00
		Other Variable Cost	0			Total	164.57
Total Variable	████	Total Variable	406	Total Variable	2117		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	2660	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	86687
						Total Revenue	0
						Net Cost	86687

Avg Cost of Served Demand 5.690 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.272 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	15235.4	0.0	15235.4	0.0	15235.4	15235.4	0.0	0	164.6	0.0
Total	15235.4	0.0	15235.4	0.0	15235.4	15235.4	0.0	0	164.6	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2339.8	18250.0	15910.2			3.0798	7206	0	7206	3.0798
ENGNiagara	910.8	1167.3	256.4			2.8024	2553	0	2553	2.8024
ENGPNGTS	289.4	365.0	75.6			3.3231	962	0	962	3.3231
ENG3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6684.0	6690.4	6.4			2.1110	14110	0	14110	2.1110
DLiqWinter	250.0	250.0	0.0							
Dracut 20	2334.0	7315.4	4981.4			7.6319	17813	0	17813	7.6319
ENG3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DLiqSummer	21.0	21.0	0.0							

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2018 thru OCT 2019

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	713.9	2190.0	1476.1			3.2953	2353	0	2353	3.2953
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	781.4	10973.0	10191.6			9.7227	7597	0	7597	9.7227
Engie Combo	630.0	630.0	0.0							
DAWN5	334.7	651.2	316.5							
Total	15449.9									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	321.0	321.6	0	0.0	12	95	0.0	-1	126	121	-5
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	953	1043	90
ENGFSMA	1482	95	1770.4	1735.8	0	18.9	1498	96	0.0	16	2573	3080	507
ENGDominion	103	100	112.4	110.2	0	2.2	103	100	0.0	0	178	220	41
ENGNFG	671	100	720.9	715.2	0	5.7	671	100	5.6	0	1164	1391	227
ENGHON	246	100	237.2	237.2	0	0.0	246	100	0.0	0	427	488	61
GranBrdgLNG	0	N/A	0.0	0.0	0	0.0	0	N/A	0.0	0	0	0	0
Total	2591	N/A	3322.7	3280.9	0	26.8	2606	N/A	5.6	15	5422	6343	921

Transportation Summary										
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPProd	2339.8	0.0	2339.8	7882.5	5542.7	0	5043	0	5043	2.1554
ENGTGP2Stg	97.5	2.0	95.5	7882.5	7787.0	25	0	0	25	0.2572
ENGTGPLong	6076.0	0.0	6076.0	8698.1	2622.1	0	0	0	0	0.0000
ENGTGPBND	910.8	5.6	905.2	1139.5	234.3	78	267	0	345	0.3789
ENGTGPShort	2792.8	23.7	2769.0	10262.0	7492.9	315	2688	0	3002	1.0750
TrCanCharges	705.8	8.1	697.7	1477.2	779.5	0	698	0	698	0.9883
IroqCharges	697.7	4.3	693.4	1477.2	783.8	62	640	0	702	1.0057
ENGPNGTS	289.4	2.9	286.5	365.0	78.5	1	312	0	312	1.0793
ENGLNG	321.6	0.0	321.6	10950.0	10628.4	0	0	0	0	0.0000
ENGPropane	160.8	0.0	160.8	6335.0	6174.2	0	0	0	0	0.0000
ENGC3Truck	160.8	0.0	160.8	4380.0	4219.2	161	0	0	161	1.0000
Dracut 30	827.0	1.7	825.2	10950.0	10124.8	36	4388	0	4424	5.3500

13

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2018 thru OCT 2019

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
UnionCharges	713.9	8.1	705.8	1477.2	771.3	0	140	0	140	0.1961
Dracut 20	2623.1	5.5	2617.6	7300.0	4682.4	114	1134	0	1248	0.4756
ENGTGPZ4	2242.3	62.5	2179.8	9125.0	6945.2	667	0	0	667	0.2976
Z4toTGPLH	3929.6	33.4	3896.2	7665.0	3768.8	443	0	0	443	0.1126
Z4toStg	2754.4	9.1	2745.3	7882.5	5137.2	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWNTCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	0.0	0.0	0.0	651.2	651.2	0	█	0	█	0.0000
DAWN5Dracut	334.7	0.0	334.7	651.2	316.5	10	0	0	10	0.0309
Total		167.1				2117	█		█	0.6503

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 13:00:40

NOV 2019 thru OCT 2020

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	48	Transportation Cost	2148	JAN 19, 2020	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	167.64
Other Variable Cost	346	Carrying Cost	315			System Unserved	0.00
		Other Variable Cost	0			Total	167.64
Total Variable	████	Total Variable	409	Total Variable	2148		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	2686	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	85093
						Total Revenue	0
						Net Cost	85093

Avg Cost of Served Demand 5.438 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.952 USD/DT
(Supply Cost/LDC Purchase)

Class	Demand Summary					Served	Unserved	Revenue	Peak Served	Peak Unserved
	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.					
ENGINormal	15648.5	0.0	15648.5	0.0	15648.5	15648.5	0.0	0	167.6	0.0
Total	15648.5	0.0	15648.5	0.0	15648.5	15648.5	0.0	0	167.6	0.0

Source	Supply Summary			Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
	Total Take	Max Take	Surplus							
ENGUSGC	2326.3	18300.0	15973.7			2.8332	6591	0	6591	2.8332
ENGNiagara	959.2	1170.5	211.3			2.3512	2255	0	2255	2.3512
ENGPNGTS	342.9	366.0	23.1			2.9378	1007	0	1007	2.9378
ENG3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6694.2	6698.7	4.5			1.8996	12716	0	12716	1.8996
DliqWinter	250.0	250.0	0.0			██████████	██████████	██████████	██████████	██████████
Dracut 20	2198.9	7335.4	5136.5			7.6445	16809	0	16809	7.6445
ENG3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DliqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2019 thru OCT 2020

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	726.0	2196.0	1470.0			2.8725	2085	0	2085	2.8725
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	705.0	11003.1	10298.1			9.4758	6681	0	6681	9.4758
Engie Combo	630.0	630.0	0.0							
DAWN5	835.3	1622.1	786.9							
Total	15849.6									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	321.0	321.0	0	0.0	12	95	0.0	0	121	126	5
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1043	1043	0
ENGFSMA	1498	96	1762.8	1743.9	0	18.9	1498	96	0.0	0	3080	2829	-251
ENGDominion	103	100	111.7	109.5	0	2.2	103	100	0.0	0	220	204	-16
ENGNFG	671	100	720.9	715.2	0	5.7	671	100	5.6	0	1391	1279	-112
ENGHON	246	100	240.4	240.4	0	0.0	246	100	0.0	0	488	458	-30
GranBrdgLNG	0	N/A	0.0	0.0	0	0.0	0	N/A	0.0	0	0	0	0
Total	2606	N/A	3317.6	3290.9	0	26.7	2606	N/A	5.6	0	6343	5939	-404

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2326.3	0.0	2326.3	7904.1	5577.9	0	5043	0	5043	2.1680	
ENGTGP2Stg	94.1	1.9	92.2	7904.1	7812.0	24	0	0	24	0.2572	
ENGTGPLong	6078.0	0.0	6078.0	8719.7	2641.7	0	0	0	0	0.0000	
ENGTGPBND	959.2	5.9	953.2	1142.7	189.4	82	267	0	349	0.3641	
ENGTGPShort	2803.4	23.8	2779.6	10290.1	7510.5	316	2688	0	3003	1.0714	
TrCanCharges	717.7	8.3	709.5	1481.2	771.7	0	698	0	698	0.9720	
IroqCharges	709.5	4.4	705.1	1481.2	776.1	63	640	0	703	0.9905	
ENGPNGTS	342.9	3.4	339.4	366.0	26.6	1	312	0	312	0.9112	
ENGLNG	321.0	0.0	321.0	10980.0	10659.0	0	0	0	0	0.0000	
ENGPropane	160.8	0.0	160.8	6370.0	6209.2	0	0	0	0	0.0000	
ENGC3Truck	160.8	0.0	160.8	4392.0	4231.2	161	0	0	161	1.0000	
Dracut 30	953.9	2.0	951.9	10980.0	10028.1	41	4388	0	4430	4.6440	

424

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2019 thru OCT 2020

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
UnionCharges	726.0	8.3	717.7	1481.2	763.5	0	140	0	140	0.1929
Dracut 20	2785.3	5.8	2779.5	7320.0	4540.5	121	1134	0	1255	0.4504
ENGTGPZ4	2232.2	62.2	2170.0	9150.0	6980.0	664	0	0	664	0.2976
Z4toTGPLH	3941.5	33.5	3908.0	7686.0	3778.0	444	0	0	444	0.1126
Z4toStg	2752.7	9.1	2743.6	7904.1	5160.5	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1064.0	484.0	19	0	0	19	0.0335
GranBrdgPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56821.5	56821.5	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2928.0	2928.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWNTCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	0.0	0.0	0.0	1622.1	1622.1	0	█	0	█	0.0000
DAWN5Dracut	835.3	0.0	835.3	1622.1	786.9	26	0	0	26	0.0309
Total		168.7				2148	█		█	0.6903

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 13:00:40

NOV 2020 thru OCT 2021

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	48	Transportation Cost	2177	JAN 19, 2021	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	168.94
Other Variable Cost	349	Carrying Cost	299			System Unserved	0.00
		Other Variable Cost	0			Total	168.94
Total Variable	████	Total Variable	393	Total Variable	2177		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	2711	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	86234
						Total Revenue	0
						Net Cost	86234

Avg Cost of Served Demand 5.339 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.876 USD/DT
(Supply Cost/LDC Purchase)

Class	Demand Summary					Served	Unserved	Revenue	Peak Served	Peak Unserved
	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.					
ENGINormal	16150.3	0.0	16150.3	0.0	16150.3	16150.3	0.0	0	168.9	0.0
Total	16150.3	0.0	16150.3	0.0	16150.3	16150.3	0.0	0	168.9	0.0

Source	Supply Summary			Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
	Total Take	Max Take	Surplus							
ENGUSGC	2319.6	18250.0	15930.4			2.6954	6252	0	6252	2.6954
ENGNiagara	1065.6	1167.3	101.7			2.2282	2374	0	2374	2.2282
ENGPNGTS	343.6	365.0	21.4			2.8407	976	0	976	2.8407
ENG3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6689.1	6690.4	1.3			1.8040	12067	0	12067	1.8040
DLiqWinter	250.0	250.0	0.0			██████████	██████████	██████████	██████████	██████████
Dracut 20	2232.3	7315.4	5083.0			7.1548	15972	0	15972	7.1548
ENG3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2020 thru OCT 2021

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	731.0	2190.0	1459.0			2.7187	1987	0	1987	2.7187
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	921.7	10973.0	10051.4			9.8701	9097	0	9097	9.8701
Engie Combo	630.0	630.0	0.0							
DAWN5	988.6	1825.0	836.4							
Total	16353.4									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	12	95	321.0	320.4	0	0.0	13	100	0.0	1	126	127	1
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1043	1043	0
ENGFSMA	1498	96	1765.0	1746.2	0	18.9	1498	96	0.0	0	2829	2669	-160
ENGDominion	103	100	110.3	108.1	0	2.2	103	100	0.0	0	204	195	-9
ENGNFG	671	100	720.9	715.2	0	5.7	671	100	5.6	0	1279	1218	-62
ENGHON	246	100	237.5	237.5	0	0.0	246	100	0.0	0	458	433	-25
GranBrdgLNG	0	N/A	0.0	0.0	0	0.0	0	N/A	0.0	0	0	0	0
Total	2606	N/A	3315.5	3288.2	0	26.7	2607	N/A	5.6	1	5939	5684	-255

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2319.6	0.0	2319.6	7882.5	5563.0	0	5043	0	5043	2.1742	
ENGTGP2Stg	94.2	1.9	92.2	7882.5	7790.3	24	0	0	24	0.2572	
ENGTGPLong	6068.5	0.0	6068.5	8698.1	2629.6	0	0	0	0	0.0000	
ENGTGPBND	1065.6	6.6	1059.0	1139.5	80.5	91	267	0	358	0.3362	
ENGTGPShort	2801.3	23.8	2777.5	10262.0	7484.5	316	2688	0	3003	1.0721	
TrCanCharges	722.7	8.3	714.4	1477.2	762.8	0	698	0	698	0.9652	
IroqCharges	714.4	4.4	710.0	1477.2	767.2	63	640	0	703	0.9843	
ENGPNGTS	343.6	3.4	340.2	365.0	24.8	1	312	0	312	0.9093	
ENGLNG	320.4	0.0	320.4	10950.0	10629.6	0	0	0	0	0.0000	
ENGPropane	160.8	0.0	160.8	6335.0	6174.2	0	0	0	0	0.0000	
ENGC3Truck	160.8	0.0	160.8	4380.0	4219.2	161	0	0	161	1.0000	
Dracut 30	1198.7	2.5	1196.2	10950.0	9753.8	52	4388	0	4440	3.7042	

427

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2020 thru OCT 2021

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary										
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
UnionCharges	731.0	8.3	722.7	1477.2	754.4	0	140	0	140	0.1915
Dracut 20	2943.9	6.2	2937.7	7300.0	4362.3	128	1134	0	1261	0.4285
ENGTGPZ4	2225.4	62.0	2163.4	9125.0	6961.6	662	0	0	662	0.2976
Z4toTGPLH	3938.6	33.5	3905.1	7665.0	3759.9	444	0	0	444	0.1126
Z4toStg	2750.5	9.1	2741.5	7882.5	5141.1	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWNTCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	0.0	0.0	0.0	1825.0	1825.0	0	█	0	█	0.0000
DAWN5Dracut	988.6	0.0	988.6	1825.0	836.4	31	0	0	31	0.0309
Total		170.1				2177	█		█	0.6889

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 13:00:40

NOV 2021 thru OCT 2022

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	48	Transportation Cost	2201	JAN 19, 2022	
Penalty Cost	0	Withdrawal Cost	46	Other Variable Cost	0	System Served	174.62
Other Variable Cost	353	Carrying Cost	283			System Unserved	0.00
		Other Variable Cost	0			Total	174.62
Total Variable	████	Total Variable	376	Total Variable	2201		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	2738	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	87764
						Total Revenue	0
						Net Cost	87764

Avg Cost of Served Demand 5.298 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.870 USD/DT
(Supply Cost/LDC Purchase)

Class	Demand Summary					Served	Unserved	Revenue	Peak Served	Peak Unserved
	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.					
ENGINormal	16566.0	0.0	16566.0	0.0	16566.0	16566.0	0.0	0	174.6	0.0
Total	16566.0	0.0	16566.0	0.0	16566.0	16566.0	0.0	0	174.6	0.0

Source	Supply Summary			Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
	Total Take	Max Take	Surplus							
ENGUSGC	2326.2	18250.0	15923.8			2.6639	6197	0	6197	2.6639
ENGNiagara	1083.5	1167.3	83.7			2.1993	2383	0	2383	2.1993
ENGPNGTS	346.4	365.0	18.6			2.8143	975	0	975	2.8143
ENG3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6689.6	6690.4	0.8			1.6727	11190	0	11190	1.6727
DLiqWinter	250.0	250.0	0.0			██████████	██████████	██████████	██████████	██████████
Dracut 20	2418.1	7315.4	4897.2			7.3082	17672	0	17672	7.3082
ENG3Summer	69.1	93.5	24.4			10.0000	691	0	691	10.0000
DLiqSummer	21.0	21.0	0.0			██████████	██████████	██████████	██████████	██████████

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2021 thru OCT 2022

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	742.0	2190.0	1448.0			2.6914	1997	0	1997	2.6914
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	1041.0	10973.0	9932.1			9.3031	9684	0	9684	9.3031
Engie Combo	630.0	630.0	0.0							
DAWN5	1061.2	1825.0	763.8							
Total	16769.9									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	321.0	321.0	0	0.0	13	100	0.0	0	127	127	1
ENGPropane	77	100	160.8	160.8	0	0.0	77	100	0.0	0	1043	1043	0
ENGFSMA	1498	96	1767.5	1748.6	0	18.9	1498	96	0.0	0	2669	2475	-194
ENGDominion	103	100	109.7	107.5	0	2.1	103	100	0.0	0	195	181	-14
ENGNFG	671	100	720.9	715.2	0	5.7	671	100	5.6	0	1218	1130	-88
ENGHON	246	100	236.1	236.1	0	0.0	246	100	0.0	0	433	403	-30
GranBrdgLNG	0	N/A	0.0	0.0	0	0.0	0	N/A	0.0	0	0	0	0
Total	2607	N/A	3315.9	3289.2	0	26.7	2607	N/A	5.6	0	5684	5359	-325

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2326.2	0.0	2326.2	7882.5	5556.3	0	5043	0	5043	2.1680	
ENGTGP2Stg	95.2	1.9	93.2	7882.5	7789.3	24	0	0	24	0.2572	
ENGTGPLong	6075.0	0.0	6075.0	8698.1	2623.1	0	0	0	0	0.0000	
ENGTGPBND	1083.5	6.7	1076.8	1139.5	62.7	92	267	0	360	0.3321	
ENGTGPShort	2801.7	23.8	2777.9	10262.0	7484.1	316	2688	0	3003	1.0719	
TrCanCharges	733.6	8.4	725.2	1477.2	752.0	0	698	0	698	0.9509	
IroqCharges	725.2	4.5	720.7	1477.2	756.5	64	640	0	704	0.9710	
ENGPNGTS	346.4	3.5	343.0	365.0	22.0	1	312	0	312	0.9019	
ENGLNG	321.0	0.0	321.0	10950.0	10629.0	0	0	0	0	0.0000	
ENGPropane	160.8	0.0	160.8	6335.0	6174.2	0	0	0	0	0.0000	
ENGC3Truck	160.8	0.0	160.8	4380.0	4219.2	161	0	0	161	1.0000	
Dracut 30	1344.9	2.8	1342.1	10950.0	9607.9	58	4388	0	4447	3.3062	

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Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2021 thru OCT 2022

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
UnionCharges	742.0	8.5	733.6	1477.2	743.6	0	140	0	140	0.1887
Dracut 20	3175.3	6.7	3168.7	7300.0	4131.3	138	1134	0	1272	0.4004
ENGTGPZ4	2231.0	62.2	2168.9	9125.0	6956.1	664	0	0	664	0.2976
Z4toTGPLH	3939.7	33.5	3906.2	7665.0	3758.8	444	0	0	444	0.1126
Z4toStg	2749.9	9.1	2740.9	7882.5	5141.7	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	0.0	0.0	0.0	56666.3	56666.3	0	0	0	0	0.0000
LNGtoLNG	0.0	0.0	0.0	2920.0	2920.0	0	0	0	0	0.0000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWNTCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	0.0	0.0	0.0	1825.0	1825.0	0	█	0	█	0.0000
DAWN5Dracut	1061.2	0.0	1061.2	1825.0	763.8	33	0	0	33	0.0309
Total		171.6				2201	█		█	0.6779

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 13:00:40

NOV 2022 thru OCT 2023

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	953	Transportation Cost	2256	JAN 19, 2023	
Penalty Cost	0	Withdrawal Cost	53	Other Variable Cost	0	System Served	183.41
Other Variable Cost	328	Carrying Cost	315			System Unserved	0.00
		Other Variable Cost	0			Total	183.41
Total Variable	██████	Total Variable	1320	Total Variable	2256		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	2670	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	131849
						Total Revenue	0
						Net Cost	131849

Avg Cost of Served Demand 7.409 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.816 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	17796.0	0.0	17796.0	0.0	17796.0	17796.0	0.0	0	183.4	0.0
Total	17796.0	0.0	17796.0	0.0	17796.0	17796.0	0.0	0	183.4	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2346.6	18250.0	15903.4			2.6911	6315	0	6315	2.6911
ENGNiagara	1146.6	1167.3	20.6			2.2416	2570	0	2570	2.2416
ENGPNGTS	351.0	365.0	14.0			2.8210	990	0	990	2.8210
ENG3Winter	91.7	91.7	0.0			15.0000	1376	0	1376	15.0000
ENG-Z4	6690.4	6690.4	0.0			1.5680	10490	0	10490	1.5680
DLiqWinter	250.0	250.0	0.0							
Dracut 20	3102.0	7315.4	4213.4			6.4182	19909	0	19909	6.4182
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
432 ENG3Dawn	1331.5	2190.0	858.5			2.5755	3429	0	3429	2.5755

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2022 thru OCT 2023

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	1764.0	10973.0	9209.0			8.3683	14762	0	14762	8.3683
Engie Combo	630.0	630.0	0.0							
DAWN5	1820.0	1825.0	5.0							
Total	19523.9									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	332.9	332.9	0	0.0	13	100	0.0	0	127	106	-22
ENGPropane	77	100	91.7	168.5	0	0.0	0	0	0.0	-77	1043	160	-883
ENGFSMA	1498	96	1772.0	1753.0	0	19.0	1498	96	0.0	0	2475	2306	-168
ENGDominion	103	100	110.4	108.2	0	2.2	103	100	0.0	0	181	167	-14
ENGNFG	671	100	723.5	717.8	0	5.7	671	100	5.7	0	1130	1057	-73
ENGHON	246	100	234.9	234.9	0	0.0	246	100	0.0	0	403	378	-25
GranBrdgLNG	0	N/A	1796.3	221.5	0	22.4	1552	100	2.2	1552	0	3846	3846
Total	2607	N/A	5061.8	3536.9	0	49.2	4083	153	7.9	1476	5359	8019	2660

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPPProd	2346.6	0.0	2346.6	7882.5	5535.9	0	5043	0	5043	2.1492		
ENGTGP2Stg	103.5	2.1	101.4	7882.5	7781.2	27	0	0	27	0.2572		
ENGTGPLong	6089.0	0.0	6089.0	8698.1	2609.1	0	0	0	0	0.0000		
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185		
ENGTGPShort	2808.3	23.9	2784.4	10262.0	7477.6	316	2688	0	3004	1.0697		
TrCanCharges	1316.3	15.1	1301.2	1477.2	176.0	0	698	0	698	0.5299		
IroqCharges	1301.2	8.1	1293.1	1477.2	184.0	115	640	0	755	0.5804		
ENGPNGTS	351.0	3.5	347.5	365.0	17.5	1	312	0	312	0.8901		
ENGLNG	332.9	0.0	332.9	10950.0	10617.1	0	0	0	0	0.0000		
ENGPropane	168.5	0.0	168.5	6335.0	6166.5	0	0	0	0	0.0000		
ENG3Truck	91.7	0.0	91.7	4380.0	4288.3	92	0	0	92	1.0000		
Dracut 30	2510.0	5.3	2504.8	10950.0	8445.2	109	4388	0	4497	1.7917		
UnionCharges	1331.5	15.2	1316.3	1477.2	160.8	0	140	0	140	0.1052		

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2022 thru OCT 2023

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
Dracut 20	2356.0	4.9	2351.0	7300.0	4949.0	102	1134	0	1236	0.5246
ENGTGPZ4	2243.1	62.5	2180.6	9125.0	6944.4	667	0	0	667	0.2976
Z4toTGPLH	3941.9	33.5	3908.4	7665.0	3756.6	444	0	0	444	0.1126
Z4toStg	2748.5	9.1	2739.4	7882.5	5143.1	136	0	0	136	0.0495
Engie2CG	580.0	0.0	580.0	1057.0	477.0	19	0	0	19	0.0335
GranBrdgPL	2005.8	4.2	2001.6	73000.0	70998.4	0	█	0	█	█
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	186.3	0.5	185.8	56666.3	56480.4	6	0	0	6	0.0324
LNGtoLNG	32.9	0.0	32.9	2920.0	2887.1	16	0	0	16	0.5000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWNTCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1820.0	0.0	1820.0	1825.0	5.0	56	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		195.0				2256	█		█	█

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 13:00:40

NOV 2023 thru OCT 2024

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	1255	Transportation Cost	2254	JAN 19, 2024	
Penalty Cost	0	Withdrawal Cost	117	Other Variable Cost	0	System Served	187.62
Other Variable Cost	0	Carrying Cost	429			System Unserved	0.00
		Other Variable Cost	0			Total	187.62
Total Variable	██████	Total Variable	1802	Total Variable	2254		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	123789
						Total Revenue	0
						Net Cost	123789

Avg Cost of Served Demand 6.771 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 2.942 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	18283.3	0.0	18283.3	0.0	18283.3	18283.3	0.0	0	187.6	0.0
Total	18283.3	0.0	18283.3	0.0	18283.3	18283.3	0.0	0	187.6	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2366.1	18300.0	15933.9			2.7627	6537	0	6537	2.7627
ENGNiagara	1149.8	1170.5	20.7			2.3388	2689	0	2689	2.3388
ENGPNGTS	358.0	366.0	8.0			2.9145	1043	0	1043	2.9145
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6698.7	6698.7	0.0			1.6985	11378	0	11378	1.6985
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	2600.6	7335.4	4734.8			4.7354	12315	0	12315	4.7354
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1345.4	2196.0	850.6			2.6552	3572	0	3572	2.6552

354

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2023 thru OCT 2024

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	2049.6	11003.1	8953.5			5.1373	10529	0	10529	5.1373
Engie Combo	176.9	176.9	0.0							
DAWN5	1830.0	1830.0	0.0							
Total	18575.1									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	162.9	162.9	0	0.0	13	100	0.0	0	106	124	18
ENGFSMA	1498	96	1772.0	1753.0	0	19.0	1498	96	0.0	0	2306	2522	215
ENGDominion	103	100	112.2	110.0	0	2.2	103	100	0.0	0	167	180	13
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1057	1148	91
ENGHON	246	100	236.1	236.1	0	0.0	246	100	0.0	0	378	403	25
GranBrdgLNG	1552	100	2397.2	2367.4	0	29.8	1552	100	23.7	0	3846	4217	371
Total	4083	98	5404.1	5347.4	0	56.7	4083	98	29.3	0	8019	8753	734

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2366.1	0.0	2366.1	7904.1	5538.0	0	5043	0	5043	2.1315	
ENGTGP2Stg	103.7	2.1	101.6	7904.1	7802.6	27	0	0	27	0.2572	
ENGTGPLong	6113.0	0.0	6113.0	8719.7	2606.7	0	0	0	0	0.0000	
ENGTGPBND	1149.8	7.1	1142.7	1142.7	0.0	98	267	0	365	0.3179	
ENGTGPShort	2811.4	23.9	2787.5	10290.1	7502.6	317	2688	0	3004	1.0686	
TrCanCharges	1330.1	15.3	1314.8	1481.2	166.4	0	698	0	698	0.5245	
IroqCharges	1314.8	8.2	1306.6	1481.2	174.6	117	640	0	756	0.5753	
ENGPNGTS	358.0	3.6	354.4	366.0	11.6	1	312	0	312	0.8728	
ENGLNG	162.9	0.0	162.9	10980.0	10817.1	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6370.0	6370.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4392.0	4392.0	0	0	0	0	0.0000	
Dracut 30	3264.5	6.9	3257.6	10980.0	7722.4	142	4388	0	4530	1.3877	
UnionCharges	1345.4	15.3	1330.1	1481.2	151.1	0	140	0	140	0.1041	
Dracut 20	1385.7	2.9	1382.8	7320.0	5937.2	60	1134	0	1194	0.8615	

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2023 thru OCT 2024

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2262.4	63.1	2199.4	9150.0	6950.6	673	0	0	673	0.2976
Z4toTGPLH	3947.2	33.6	3913.7	7686.0	3772.3	445	0	0	445	0.1126
Z4toStg	2751.5	9.1	2742.4	7904.1	5161.8	136	0	0	136	0.0495
Engie2CG	126.9	0.0	126.9	1064.0	937.1	4	0	0	4	0.0335
GranBrdgPL	4054.6	8.5	4046.1	73200.0	69153.9	0	█	0	█	█
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000
LNGtoRT101	2230.8	6.2	2224.6	56821.5	54596.9	72	0	0	72	0.0323
LNGtoLNG	112.9	0.0	112.9	2928.0	2815.1	56	0	0	56	0.5000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1830.0	0.0	1830.0	1830.0	0.0	57	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1830.0	1830.0	0	0	0	0	0.0000
Total		205.7				2254	█		█	█

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 13:00:40

NOV 2024 thru OCT 2025

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	1257	Transportation Cost	2266	JAN 19, 2025	
Penalty Cost	0	Withdrawal Cost	117	Other Variable Cost	0	System Served	191.54
Other Variable Cost	0	Carrying Cost	460			System Unserved	0.00
		Other Variable Cost	0			Total	191.54
Total Variable	████	Total Variable	1835	Total Variable	2266		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	127903
						Total Revenue	0
						Net Cost	127903

Avg Cost of Served Demand 6.875 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.107 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	18605.3	0.0	18605.3	0.0	18605.3	18605.3	0.0	0	191.5	0.0
Total	18605.3	0.0	18605.3	0.0	18605.3	18605.3	0.0	0	191.5	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2354.5	18250.0	15895.5			2.8554	6723	0	6723	2.8554
ENGNiagara	1146.6	1167.3	20.6			2.4557	2816	0	2816	2.4557
ENGPNGTS	356.0	365.0	9.0			2.9676	1056	0	1056	2.9676
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			1.8482	12365	0	12365	1.8482
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	2790.6	7315.4	4524.7			4.8231	13459	0	13459	4.8231
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1347.9	2190.0	842.1			2.7556	3714	0	3714	2.7556

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2024 thru OCT 2025

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	2209.5	10973.0	8763.5			5.3378	11794	0	11794	5.3378
Engie Combo	176.9	176.9	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	18897.5									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	166.0	166.0	0	0.0	13	100	0.0	0	124	129	5
ENGFSMA	1498	96	1775.3	1756.3	0	19.0	1498	96	0.0	0	2522	2751	230
ENGDominion	103	100	111.6	109.4	0	2.2	103	100	0.0	0	180	196	16
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1148	1252	105
ENGHON	246	100	234.9	234.9	0	0.0	246	100	0.0	0	403	439	36
GranBrdgLNG	1552	100	2401.2	2371.3	0	29.9	1552	100	23.7	0	4217	4459	241
Total	4083	98	5412.8	5356.0	0	56.8	4083	98	29.4	0	8753	9387	633

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2354.5	0.0	2354.5	7882.5	5528.1	0	5043	0	5043	2.1420	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6091.9	0.0	6091.9	8698.1	2606.2	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2813.0	23.9	2789.1	10262.0	7472.9	317	2688	0	3005	1.0681	
TrCanCharges	1332.6	15.3	1317.2	1477.2	159.9	0	698	0	698	0.5235	
IroqCharges	1317.2	8.2	1309.1	1477.2	168.1	117	640	0	757	0.5744	
ENGPNGTS	356.0	3.6	352.4	365.0	12.6	1	312	0	312	0.8777	
ENGLNG	166.0	0.0	166.0	10950.0	10784.0	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	3545.9	7.4	3538.5	10950.0	7411.5	154	4388	0	4542	1.2810	
UnionCharges	1347.9	15.4	1332.6	1477.2	144.6	0	140	0	140	0.1039	
Dracut 20	1454.2	3.1	1451.2	7300.0	5848.8	63	1134	0	1197	0.8230	

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2024 thru OCT 2025

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2247.3	62.6	2184.7	9125.0	6940.3	669	0	0	669	0.2976
Z4toTGPLH	3940.7	33.5	3907.2	7665.0	3757.8	444	0	0	444	0.1126
Z4toStg	2749.7	9.1	2740.6	7882.5	5141.9	136	0	0	136	0.0495
Engie2CG	126.9	0.0	126.9	1057.0	930.1	4	0	0	4	0.0335
GranBrdgPL	4050.4	8.5	4041.9	73000.0	68958.1	0	█	0	█	█
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	2231.6	6.2	2225.4	56666.3	54440.8	72	0	0	72	0.0323
LNGtoLNG	116.0	0.0	116.0	2920.0	2804.0	58	0	0	58	0.5000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		206.1				2266	█		█	█

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 13:00:40

NOV 2025 thru OCT 2026

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	1268	Transportation Cost	2274	JAN 19, 2026	
Penalty Cost	0	Withdrawal Cost	118	Other Variable Cost	0	System Served	194.99
Other Variable Cost	0	Carrying Cost	475			System Unserved	0.00
		Other Variable Cost	0			Total	194.99
Total Variable	████	Total Variable	1862	Total Variable	2274		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	132375
						Total Revenue	0
						Net Cost	132375

Avg Cost of Served Demand 6.986 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.283 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	18947.4	0.0	18947.4	0.0	18947.4	18947.4	0.0	0	195.0	0.0
Total	18947.4	0.0	18947.4	0.0	18947.4	18947.4	0.0	0	195.0	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2356.0	18250.0	15894.0			2.9742	7007	0	7007	2.9742
ENGNiagara	1146.6	1167.3	20.6			2.5834	2962	0	2962	2.5834
ENGPNGTS	360.0	365.0	5.0			3.0768	1108	0	1108	3.0768
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.0008	13386	0	13386	2.0008
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3174.7	7315.4	4140.7			4.7436	15059	0	15059	4.7436
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENG Dawn	1141.9	2190.0	1048.1			2.8972	3308	0	3308	2.8972

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2025 thru OCT 2026

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	2364.0	10973.0	8609.1			5.6227	13292	0	13292	5.6227
Engie Combo	176.9	176.9	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	19235.5									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	167.7	167.7	0	0.0	13	100	0.0	0	129	134	5
ENGFSMA	1498	96	1775.1	1756.1	0	19.0	1498	96	0.0	0	2751	2949	198
ENGDominion	103	100	111.6	109.4	0	2.2	103	100	0.0	0	196	209	12
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1252	1354	101
ENGHON	246	100	234.9	234.9	0	0.0	246	100	0.0	0	439	475	36
GranBrdgLNG	1552	100	2423.4	2393.3	0	30.2	1552	100	23.9	0	4459	4744	285
Total	4083	98	5436.5	5379.4	0	57.0	4083	98	29.6	0	9387	10025	638

Transportation Summary										
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPPProd	2356.0	0.0	2356.0	7882.5	5526.6	0	5043	0	5043	2.1406
ENGTGP2Stg	106.9	2.2	104.7	7882.5	7777.8	28	0	0	28	0.2572
ENGTGPLong	6093.6	0.0	6093.6	8698.1	2604.5	0	0	0	0	0.0000
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185
ENGTGPShort	2812.8	23.9	2788.9	10262.0	7473.1	317	2688	0	3004	1.0682
TrCanCharges	1128.9	13.0	1115.9	1477.2	361.2	0	698	0	698	0.6179
IroqCharges	1115.9	6.9	1109.0	1477.2	368.1	99	640	0	739	0.6620
ENGPNGTS	360.0	3.6	356.4	365.0	8.6	1	312	0	312	0.8679
ENGLNG	167.7	0.0	167.7	10950.0	10782.3	0	0	0	0	0.0000
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000
Dracut 30	4012.7	8.4	4004.3	10950.0	6945.7	174	4388	0	4563	1.1370
UnionCharges	1141.9	13.0	1128.9	1477.2	348.2	0	140	0	140	0.1226
Dracut 20	1525.9	3.2	1522.7	7300.0	5777.3	66	1134	0	1200	0.7864

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2025 thru OCT 2026

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPZ4	2249.1	62.7	2186.4	9125.0	6938.6	669	0	0	669	0.2976	
Z4toTGPLH	3940.7	33.5	3907.2	7665.0	3757.8	444	0	0	444	0.1126	
Z4toStg	2749.7	9.1	2740.6	7882.5	5141.9	136	0	0	136	0.0495	
Engie2CG	126.9	0.0	126.9	1057.0	930.1	4	0	0	4	0.0335	
GranBrdgPL	4070.4	8.5	4061.8	73000.0	68938.2	0		0			
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000	
LNGtoRT101	2251.7	6.3	2245.4	56666.3	54420.9	73	0	0	73	0.0323	
LNGtoLNG	117.7	0.0	117.7	2920.0	2802.3	59	0	0	59	0.5000	
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0			
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000	
Total		201.4				2274					

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 13:00:40

NOV 2026 thru OCT 2027

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	1269	Transportation Cost	2289	JAN 19, 2027	
Penalty Cost	0	Withdrawal Cost	118	Other Variable Cost	0	System Served	198.17
Other Variable Cost	0	Carrying Cost	502			System Unserved	0.00
		Other Variable Cost	0			Total	198.17
Total Variable	████	Total Variable	1889	Total Variable	2289		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	136277
						Total Revenue	0
						Net Cost	136277

Avg Cost of Served Demand 7.079 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.429 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	19251.6	0.0	19251.6	0.0	19251.6	19251.6	0.0	0	198.2	0.0
Total	19251.6	0.0	19251.6	0.0	19251.6	19251.6	0.0	0	198.2	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2359.0	18250.0	15891.0			3.0656	7232	0	7232	3.0656
ENGNiagara	1146.6	1167.3	20.6			2.6881	3082	0	3082	2.6881
ENGPNGTS	361.0	365.0	4.0			3.1489	1137	0	1137	3.1489
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.1318	14262	0	14262	2.1318
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3007.6	7315.4	4307.8			4.9457	14875	0	14875	4.9457
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1176.8	2190.0	1013.2			2.9829	3510	0	3510	2.9829

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2026 thru OCT 2027

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	2798.2	10973.0	8174.9			5.6066	15688	0	15688	5.6066
Engie Combo	176.9	176.9	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	19541.4									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	166.2	166.2	0	0.0	13	100	0.0	0	134	139	5
ENGFSMA	1498	96	1773.9	1754.9	0	19.0	1498	96	0.0	0	2949	3151	202
ENGDominion	103	100	111.6	109.4	0	2.2	103	100	0.0	0	209	222	14
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1354	1444	91
ENGHON	246	100	236.2	236.2	0	0.0	246	100	0.0	0	475	509	33
GranBrdgLNG	1552	100	2425.2	2395.0	0	30.2	1552	100	23.9	0	4744	4933	189
Total	4083	98	5436.7	5379.6	0	57.1	4083	98	29.6	0	10025	10558	534

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2359.0	0.0	2359.0	7882.5	5523.6	0	5043	0	5043	2.1379	
ENGTGP2Stg	106.9	2.2	104.7	7882.5	7777.8	28	0	0	28	0.2572	
ENGTGPLong	6096.5	0.0	6096.5	8698.1	2601.6	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2812.8	23.9	2788.9	10262.0	7473.1	317	2688	0	3004	1.0682	
TrCanCharges	1163.4	13.4	1150.0	1477.2	327.2	0	698	0	698	0.5996	
IroqCharges	1150.0	7.1	1142.9	1477.2	334.3	102	640	0	742	0.6451	
ENGPNGTS	361.0	3.6	357.4	365.0	7.6	1	312	0	312	0.8655	
ENGLNG	166.2	0.0	166.2	10950.0	10783.8	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	4035.4	8.5	4026.9	10950.0	6923.1	175	4388	0	4563	1.1309	
UnionCharges	1176.8	13.4	1163.4	1477.2	313.8	0	140	0	140	0.1190	
Dracut 20	1770.4	3.7	1766.6	7300.0	5533.4	77	1134	0	1211	0.6838	

5/1

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2026 thru OCT 2027

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2252.1	62.8	2189.3	9125.0	6935.7	670	0	0	670	0.2976
Z4toTGPLH	3940.7	33.5	3907.2	7665.0	3757.8	444	0	0	444	0.1126
Z4toStg	2749.7	9.1	2740.6	7882.5	5141.9	136	0	0	136	0.0495
Engie2CG	126.9	0.0	126.9	1057.0	930.1	4	0	0	4	0.0335
GranBrdgPL	4073.6	8.6	4065.0	73000.0	68935.0	0	█	0	█	█
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	2254.9	6.3	2248.6	56666.3	54417.7	73	0	0	73	0.0323
LNGtoLNG	116.2	0.0	116.2	2920.0	2803.8	58	0	0	58	0.5000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		203.1				2289	█		█	█

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 13:00:40

NOV 2027 thru OCT 2028

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	1283	Transportation Cost	2318	JAN 19, 2028	
Penalty Cost	0	Withdrawal Cost	119	Other Variable Cost	0	System Served	200.70
Other Variable Cost	0	Carrying Cost	560			System Unserved	0.00
		Other Variable Cost	0			Total	200.70
Total Variable	██████	Total Variable	1962	Total Variable	2318		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	140219
						Total Revenue	0
						Net Cost	140219

Avg Cost of Served Demand 7.159 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.563 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	19586.6	0.0	19586.6	0.0	19586.6	19586.6	0.0	0	200.7	0.0
Total	19586.6	0.0	19586.6	0.0	19586.6	19586.6	0.0	0	200.7	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2375.5	18300.0	15924.5			3.1578	7501	0	7501	3.1578
ENGNiagara	1149.8	1170.5	20.7			2.7871	3205	0	3205	2.7871
ENGPNGTS	365.0	366.0	1.0			3.2364	1181	0	1181	3.2364
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6698.7	6698.7	0.0			2.2523	15087	0	15087	2.2523
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3234.5	7335.4	4100.9			5.0385	16297	0	16297	5.0385
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1364.8	2196.0	831.2			3.0437	4154	0	4154	3.0437

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2027 thru OCT 2028

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	2688.0	11003.1	8315.1			5.9514	15998	0	15998	5.9514
Engie Combo	176.9	176.9	0.0							
DAWN5	1830.0	1830.0	0.0							
Total	19883.3									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	168.2	168.2	0	0.0	13	100	0.0	0	139	143	4
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3151	3369	218
ENGDominion	103	100	110.4	108.2	0	2.2	103	100	0.0	0	222	238	16
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1444	1533	89
ENGHON	246	100	236.9	236.9	0	0.0	246	100	0.0	0	509	540	31
GranBrdgLNG	1552	100	2452.1	2421.6	0	30.5	1552	100	24.2	0	4933	5020	87
Total	4083	98	5464.6	5407.3	0	57.4	4083	98	29.9	0	10558	11002	444

Transportation Summary										
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPPProd	2375.5	0.0	2375.5	7904.1	5528.6	0	5043	0	5043	2.1230
ENGTGP2Stg	107.1	2.2	105.0	7904.1	7799.2	28	0	0	28	0.2572
ENGTGPLong	6121.8	0.0	6121.8	8719.7	2597.9	0	0	0	0	0.0000
ENGTGPBND	1149.8	7.1	1142.7	1142.7	0.0	98	267	0	365	0.3179
ENGTGPShort	2811.8	23.9	2787.9	10290.1	7502.1	317	2688	0	3004	1.0685
TrCanCharges	1349.3	15.5	1333.8	1481.2	147.4	0	698	0	698	0.5170
IroqCharges	1333.8	8.3	1325.5	1481.2	155.7	118	640	0	758	0.5684
ENGPNGTS	365.0	3.7	361.3	366.0	4.7	1	312	0	312	0.8561
ENGLNG	168.2	0.0	168.2	10980.0	10811.8	0	0	0	0	0.0000
ENGPropane	0.0	0.0	0.0	6370.0	6370.0	0	0	0	0	0.0000
ENGC3Truck	0.0	0.0	0.0	4392.0	4392.0	0	0	0	0	0.0000
Dracut 30	3842.7	8.1	3834.6	10980.0	7145.4	167	4388	0	4555	1.1854
UnionCharges	1364.8	15.5	1349.3	1481.2	131.9	0	140	0	140	0.1026
Dracut 20	2079.9	4.4	2075.5	7320.0	5244.5	90	1134	0	1224	0.5885

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2027 thru OCT 2028

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2268.4	63.2	2205.2	9150.0	6944.8	675	0	0	675	0.2976
Z4toTGPLH	3950.2	33.6	3916.6	7686.0	3769.4	445	0	0	445	0.1126
Z4toStg	2748.5	9.1	2739.4	7904.1	5164.7	136	0	0	136	0.0495
Engie2CG	126.9	0.0	126.9	1064.0	937.1	4	0	0	4	0.0335
GranBrdgPL	4102.8	8.6	4094.2	73200.0	69105.8	0	█	0	█	█
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000
LNGtoRT101	2279.2	6.4	2272.8	56821.5	54548.7	74	0	0	74	0.0323
LNGtoLNG	118.2	0.0	118.2	2928.0	2809.8	59	0	0	59	0.5000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1830.0	0.0	1830.0	1830.0	0.0	57	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1830.0	1830.0	0	0	0	0	0.0000
Total		209.5				2318	█		█	█

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 13:00:40

NOV 2028 thru OCT 2029

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	1278	Transportation Cost	2323	JAN 19, 2029	
Penalty Cost	0	Withdrawal Cost	119	Other Variable Cost	0	System Served	203.52
Other Variable Cost	0	Carrying Cost	572			System Unserved	0.00
		Other Variable Cost	0			Total	203.52
Total Variable	████	Total Variable	1968	Total Variable	2323		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	142521
						Total Revenue	0
						Net Cost	142521

Avg Cost of Served Demand 7.200 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.641 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	19794.3	0.0	19794.3	0.0	19794.3	19794.3	0.0	0	203.5	0.0
Total	19794.3	0.0	19794.3	0.0	19794.3	19794.3	0.0	0	203.5	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2364.7	18250.0	15885.3			3.2124	7596	0	7596	3.2124
ENGNiagara	1146.6	1167.3	20.6			2.8226	3237	0	3237	2.8226
ENGPNGTS	364.0	365.0	1.0			3.2663	1189	0	1189	3.2663
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.2789	15247	0	15247	2.2789
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3356.7	7315.4	3958.7			5.0916	17091	0	17091	5.0916
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1364.2	2190.0	825.8			3.0809	4203	0	4203	3.0809

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Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2028 thru OCT 2029

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	2802.3	10973.0	8170.8			6.0953	17081	0	17081	6.0953
Engie Combo	176.9	176.9	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	20090.8									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	166.9	166.9	0	0.0	13	100	0.0	0	143	144	2
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3369	3402	33
ENGDominion	103	100	110.4	108.2	0	2.2	103	100	0.0	0	238	241	3
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1533	1548	15
ENGHON	246	100	236.9	236.9	0	0.0	246	100	0.0	0	540	549	9
GranBrdgLNG	1552	100	2442.4	2412.0	0	30.4	1552	100	24.1	0	5020	5086	67
Total	4083	98	5453.7	5396.4	0	57.2	4083	98	29.8	0	11002	11130	128

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2364.7	0.0	2364.7	7882.5	5517.9	0	5043	0	5043	2.1327	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6103.0	0.0	6103.0	8698.1	2595.1	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2811.8	23.9	2787.9	10262.0	7474.0	317	2688	0	3004	1.0685	
TrCanCharges	1348.7	15.5	1333.2	1477.2	144.0	0	698	0	698	0.5172	
IroqCharges	1333.2	8.3	1324.9	1477.2	152.2	118	640	0	758	0.5686	
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584	
ENGLNG	166.9	0.0	166.9	10950.0	10783.1	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	4286.9	9.0	4277.9	10950.0	6672.1	186	4388	0	4574	1.0671	
UnionCharges	1364.2	15.5	1348.7	1477.2	128.5	0	140	0	140	0.1026	
Dracut 20	1872.1	3.9	1868.1	7300.0	5431.9	81	1134	0	1215	0.6490	

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2028 thru OCT 2029

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPZ4	2257.5	62.9	2194.6	9125.0	6930.4	672	0	0	672	0.2976	
Z4toTGPLH	3941.9	33.5	3908.4	7665.0	3756.6	444	0	0	444	0.1126	
Z4toStg	2748.5	9.1	2739.4	7882.5	5143.1	136	0	0	136	0.0495	
Engie2CG	126.9	0.0	126.9	1057.0	930.1	4	0	0	4	0.0335	
GranBrdgPL	4089.7	8.6	4081.1	73000.0	68918.9	0		0			
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000	
LNGtoRT101	2271.0	6.4	2264.7	56666.3	54401.6	73	0	0	73	0.0323	
LNGtoLNG	116.9	0.0	116.9	2920.0	2803.1	58	0	0	58	0.5000	
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0			
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000	
Total		209.5				2323					

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 13:00:40

NOV 2029 thru OCT 2030

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	1270	Transportation Cost	2333	JAN 19, 2030	
Penalty Cost	0	Withdrawal Cost	118	Other Variable Cost	0	System Served	206.14
Other Variable Cost	0	Carrying Cost	579			System Unserved	0.00
		Other Variable Cost	0			Total	206.14
Total Variable	████	Total Variable	1967	Total Variable	2333		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	144921
						Total Revenue	0
						Net Cost	144921

Avg Cost of Served Demand 7.227 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.712 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20053.4	0.0	20053.4	0.0	20053.4	20053.4	0.0	0	206.1	0.0
Total	20053.4	0.0	20053.4	0.0	20053.4	20053.4	0.0	0	206.1	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2367.4	18250.0	15882.6			3.2444	7681	0	7681	3.2444
ENGNiagara	1146.6	1167.3	20.6			2.8509	3269	0	3269	2.8509
ENGPNGTS	364.0	365.0	1.0			3.2990	1201	0	1201	3.2990
ENG3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.3017	15399	0	15399	2.3017
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3407.2	7315.4	3908.1			5.1396	17512	0	17512	5.1396
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
453 ENG3Dawn	1367.7	2190.0	822.3			3.1113	4255	0	4255	3.1113

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2029 thru OCT 2030

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3005.0	10973.0	7968.0			6.2038	18642	0	18642	6.2038
Engie Combo	176.9	176.9	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	20350.2									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	164.1	164.1	0	0.0	13	100	0.0	0	144	145	1
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3402	3435	33
ENGDominion	103	100	110.1	107.9	0	2.1	103	100	0.0	0	241	243	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1548	1563	15
ENGHON	246	100	235.7	235.7	0	0.0	246	100	0.0	0	549	555	6
GranBrdgLNG	1552	100	2427.4	2397.2	0	30.2	1552	100	24.0	0	5086	5144	58
Total	4083	98	5434.4	5377.4	0	57.0	4083	98	29.6	0	11130	11245	115

Transportation Summary										
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPPProd	2367.4	0.0	2367.4	7882.5	5515.1	0	5043	0	5043	2.1303
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572
ENGTGPLong	6107.2	0.0	6107.2	8698.1	2590.9	0	0	0	0	0.0000
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185
ENGTGPShort	2810.4	23.9	2786.5	10262.0	7475.5	317	2688	0	3004	1.0690
TrCanCharges	1352.1	15.5	1336.5	1477.2	140.6	0	698	0	698	0.5159
IroqCharges	1336.5	8.3	1328.2	1477.2	148.9	119	640	0	758	0.5674
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584
ENGLNG	164.1	0.0	164.1	10950.0	10785.9	0	0	0	0	0.0000
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000
Dracut 30	4169.4	8.8	4160.6	10950.0	6789.4	181	4388	0	4569	1.0959
UnionCharges	1367.7	15.6	1352.1	1477.2	125.1	0	140	0	140	0.1024
Dracut 20	2242.9	4.7	2238.2	7300.0	5061.8	97	1134	0	1231	0.5489

454

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2029 thru OCT 2030

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2260.3	63.0	2197.3	9125.0	6927.7	673	0	0	673	0.2976
Z4toTGPLH	3943.4	33.5	3909.9	7665.0	3755.1	444	0	0	444	0.1126
Z4toStg	2747.0	9.1	2737.9	7882.5	5144.6	136	0	0	136	0.0495
Engie2CG	126.9	0.0	126.9	1057.0	930.1	4	0	0	4	0.0335
GranBrdgPL	4077.8	8.6	4069.3	73000.0	68930.7	0	█	0	█	█
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	2259.1	6.3	2252.8	56666.3	54413.4	73	0	0	73	0.0323
LNGtoLNG	114.1	0.0	114.1	2920.0	2805.9	57	0	0	57	0.5000
Engie2ENGLNG	50.0	0.0	50.0	50.0	0.0	50	0	0	50	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		210.2				2333	█		█	█

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 13:00:40

NOV 2030 thru OCT 2031

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	1259	Transportation Cost	2341	JAN 19, 2031	
Penalty Cost	0	Withdrawal Cost	117	Other Variable Cost	0	System Served	208.77
Other Variable Cost	0	Carrying Cost	583			System Unserved	0.00
		Other Variable Cost	0			Total	208.77
Total Variable	██████	Total Variable	1959	Total Variable	2341		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	147373
						Total Revenue	0
						Net Cost	147373

Avg Cost of Served Demand 7.259 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.786 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20303.1	0.0	20303.1	0.0	20303.1	20303.1	0.0	0	208.8	0.0
Total	20303.1	0.0	20303.1	0.0	20303.1	20303.1	0.0	0	208.8	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2370.4	18250.0	15879.6			3.2767	7767	0	7767	3.2767
ENGNiagara	1146.6	1167.3	20.6			2.8794	3302	0	3302	2.8794
ENGPNGTS	364.0	365.0	1.0			3.3320	1213	0	1213	3.3320
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.3247	15553	0	15553	2.3247
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3543.8	7315.4	3771.6			5.2261	18520	0	18520	5.2261
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1370.4	2190.0	819.6			3.1421	4306	0	4306	3.1421

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2030 thru OCT 2031

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3112.4	10973.0	7860.6			6.3212	19674	0	19674	6.3212
Engie Combo	176.9	176.9	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	20600.0									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	160.6	160.6	0	0.0	13	100	0.0	0	145	146	1
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3435	3469	34
ENGDominion	103	100	109.8	107.6	0	2.1	103	100	0.0	0	243	246	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1563	1578	15
ENGHON	246	100	235.8	235.8	0	0.0	246	100	0.0	0	555	560	5
GranBrdgLNG	1552	100	2404.5	2374.6	0	29.9	1552	100	23.7	0	5144	5202	58
Total	4083	98	5407.8	5351.1	0	56.8	4083	98	29.4	0	11245	11360	115

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2370.4	0.0	2370.4	7882.5	5512.1	0	5043	0	5043	2.1276	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6110.3	0.0	6110.3	8698.1	2587.8	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2810.2	23.9	2786.3	10262.0	7475.7	317	2688	0	3004	1.0690	
TrCanCharges	1354.8	15.6	1339.2	1477.2	137.9	0	698	0	698	0.5149	
IroqCharges	1339.2	8.3	1330.9	1477.2	146.2	119	640	0	759	0.5664	
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584	
ENGLNG	160.6	0.0	160.6	10950.0	10789.4	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	4434.2	9.3	4424.9	10950.0	6525.1	192	4388	0	4581	1.0331	
UnionCharges	1370.4	15.6	1354.8	1477.2	122.3	0	140	0	140	0.1022	
Dracut 20	2222.0	4.7	2217.4	7300.0	5082.6	96	1134	0	1230	0.5536	

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2030 thru OCT 2031

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPZ4	2263.3	63.1	2200.2	9125.0	6924.8	673	0	0	673	0.2976	
Z4toTGPLH	3943.6	33.5	3910.1	7665.0	3754.9	444	0	0	444	0.1126	
Z4toStg	2746.8	9.1	2737.7	7882.5	5144.8	136	0	0	136	0.0495	
Engie2CG	128.9	0.0	128.9	1057.0	928.1	4	0	0	4	0.0335	
GranBrdgPL	4057.0	8.5	4048.4	73000.0	68951.6	0		0			
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000	
LNGtoRT101	2238.2	6.3	2232.0	56666.3	54434.3	72	0	0	72	0.0323	
LNGtoLNG	112.7	0.0	112.7	2920.0	2807.3	56	0	0	56	0.5000	
Engie2ENGLNG	48.0	0.0	48.0	50.0	2.0	48	0	0	48	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0			
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000	
Total		210.7				2341					

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 13:00:40

NOV 2031 thru OCT 2032

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	1250	Transportation Cost	2351	JAN 19, 2032	
Penalty Cost	0	Withdrawal Cost	117	Other Variable Cost	0	System Served	211.15
Other Variable Cost	0	Carrying Cost	586			System Unserved	0.00
		Other Variable Cost	0			Total	211.15
Total Variable	████	Total Variable	1953	Total Variable	2351		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	150237
						Total Revenue	0
						Net Cost	150237

Avg Cost of Served Demand 7.291 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.867 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20607.0	0.0	20607.0	0.0	20607.0	20607.0	0.0	0	211.2	0.0
Total	20607.0	0.0	20607.0	0.0	20607.0	20607.0	0.0	0	211.2	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2390.3	18300.0	15909.7			3.3095	7911	0	7911	3.3095
ENGNiagara	1149.8	1170.5	20.7			2.9089	3345	0	3345	2.9089
ENGPNGTS	365.0	366.0	1.0			3.3722	1231	0	1231	3.3722
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6698.7	6698.7	0.0			2.3485	15732	0	15732	2.3485
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3627.5	7335.4	3707.9			5.3350	19352	0	19352	5.3350
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1374.9	2196.0	821.1			3.1743	4364	0	4364	3.1743

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2031 thru OCT 2032

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3291.8	11003.1	7711.3			6.4301	21167	0	21167	6.4301
Engie Combo	176.9	176.9	0.0							
DAWN5	1830.0	1830.0	0.0							
Total	20904.8									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	150.9	150.9	0	0.0	13	100	0.0	0	146	147	1
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3469	3503	34
ENGDominion	103	100	109.8	107.6	0	2.1	103	100	0.0	0	246	248	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1578	1593	15
ENGHON	246	100	235.7	235.7	0	0.0	246	100	0.0	0	560	566	5
GranBrdgLNG	1552	100	2387.8	2358.1	0	29.7	1552	100	23.6	0	5202	5259	58
Total	4083	98	5381.3	5324.7	0	56.5	4083	98	29.3	0	11360	11475	116

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2390.3	0.0	2390.3	7904.1	5513.8	0	5043	0	5043	2.1099	
ENGTGP2Stg	107.1	2.2	105.0	7904.1	7799.2	28	0	0	28	0.2572	
ENGTGPLong	6137.9	0.0	6137.9	8719.7	2581.8	0	0	0	0	0.0000	
ENGTGPBND	1149.8	7.1	1142.7	1142.7	0.0	98	267	0	365	0.3179	
ENGTGPShort	2810.1	23.9	2786.2	10290.1	7503.9	317	2688	0	3004	1.0691	
TrCanCharges	1359.2	15.6	1343.6	1481.2	137.6	0	698	0	698	0.5132	
IroqCharges	1343.6	8.3	1335.2	1481.2	146.0	119	640	0	759	0.5649	
ENGPNGTS	365.0	3.7	361.3	366.0	4.7	1	312	0	312	0.8561	
ENGLNG	150.9	0.0	150.9	10980.0	10829.1	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6370.0	6370.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4392.0	4392.0	0	0	0	0	0.0000	
Dracut 30	4605.1	9.7	4595.4	10980.0	6384.6	200	4388	0	4588	0.9963	
UnionCharges	1374.9	15.7	1359.2	1481.2	122.0	0	140	0	140	0.1018	
Dracut 20	2314.2	4.9	2309.4	7320.0	5010.6	100	1134	0	1234	0.5333	

460

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2031 thru OCT 2032

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPZ4	2283.2	63.6	2219.5	9150.0	6930.5	679	0	0	679	0.2976	
Z4toTGPLH	3952.0	33.6	3918.4	7686.0	3767.6	445	0	0	445	0.1126	
Z4toStg	2746.7	9.1	2737.6	7904.1	5166.5	136	0	0	136	0.0495	
Engie2CG	137.3	0.0	137.3	1064.0	926.7	5	0	0	5	0.0335	
GranBrdgPL	4046.9	8.5	4038.4	73200.0	69161.6	0		0			
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000	
LNGtoRT101	2223.1	6.2	2216.9	56821.5	54604.6	72	0	0	72	0.0323	
LNGtoLNG	111.3	0.0	111.3	2928.0	2816.7	56	0	0	56	0.5000	
Engie2ENGLNG	39.6	0.0	39.6	50.0	10.4	40	0	0	40	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	1830.0	0.0	1830.0	1830.0	0.0	57		0			
DAWN5Dracut	0.0	0.0	0.0	1830.0	1830.0	0	0	0	0	0.0000	
Total		212.0				2351					

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 13:00:40

NOV 2032 thru OCT 2033

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	1235	Transportation Cost	2350	JAN 19, 2033	
Penalty Cost	0	Withdrawal Cost	116	Other Variable Cost	0	System Served	213.52
Other Variable Cost	0	Carrying Cost	590			System Unserved	0.00
		Other Variable Cost	0			Total	213.52
Total Variable	████	Total Variable	1941	Total Variable	2350		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	152309
						Total Revenue	0
						Net Cost	152309

Avg Cost of Served Demand 7.337 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.939 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20758.9	0.0	20758.9	0.0	20758.9	20758.9	0.0	0	213.5	0.0
Total	20758.9	0.0	20758.9	0.0	20758.9	20758.9	0.0	0	213.5	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2382.4	18250.0	15867.6			3.3417	7961	0	7961	3.3417
ENGNiagara	1146.6	1167.3	20.6			2.9372	3368	0	3368	2.9372
ENGPNGTS	364.0	365.0	1.0			3.3990	1237	0	1237	3.3990
ENG3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.3715	15866	0	15866	2.3715
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3664.7	7315.4	3650.7			5.4352	19918	0	19918	5.4352
ENG3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
462 ENG Dawn	1371.1	2190.0	818.9			3.2051	4395	0	4395	3.2051

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2032 thru OCT 2033

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3434.6	10973.0	7538.4			6.5165	22382	0	22382	6.5165
Engie Combo	176.9	176.9	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	21055.7									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	146.7	146.7	0	0.0	13	100	0.0	0	147	147	0
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3503	3537	34
ENGDominion	103	100	109.2	107.0	0	2.1	103	100	0.0	0	248	251	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1593	1608	15
ENGHON	246	100	234.6	234.6	0	0.0	246	100	0.0	0	566	571	6
GranBrdgLNG	1552	100	2356.4	2327.1	0	29.3	1552	100	23.3	0	5259	5307	48
Total	4083	98	5344.0	5287.9	0	56.1	4083	98	28.9	0	11475	11581	106

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2382.4	0.0	2382.4	7882.5	5500.2	0	5043	0	5043	2.1169	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6123.7	0.0	6123.7	8698.1	2574.4	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2808.4	23.9	2784.6	10262.0	7477.4	316	2688	0	3004	1.0696	
TrCanCharges	1355.5	15.6	1339.9	1477.2	137.2	0	698	0	698	0.5146	
IroqCharges	1339.9	8.3	1331.6	1477.2	145.5	119	640	0	759	0.5662	
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584	
ENGLNG	146.7	0.0	146.7	10950.0	10803.3	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	4735.3	9.9	4725.3	10950.0	6224.7	206	4388	0	4594	0.9701	
UnionCharges	1371.1	15.6	1355.5	1477.2	121.6	0	140	0	140	0.1021	
Dracut 20	2364.0	5.0	2359.1	7300.0	4940.9	103	1134	0	1236	0.5230	

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2032 thru OCT 2033

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPZ4	2275.2	63.4	2211.8	9125.0	6913.2	677	0	0	677	0.2976	
Z4toTGPLH	3945.4	33.5	3911.8	7665.0	3753.2	444	0	0	444	0.1126	
Z4toStg	2745.0	9.1	2736.0	7882.5	5146.6	136	0	0	136	0.0495	
Engie2CG	140.5	0.0	140.5	1057.0	916.5	5	0	0	5	0.0335	
GranBrdgPL	4012.4	8.4	4004.0	73000.0	68996.0	0		0			
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000	
LNGtoRT101	2193.5	6.1	2187.4	56666.3	54478.8	71	0	0	71	0.0323	
LNGtoLNG	110.3	0.0	110.3	2920.0	2809.7	55	0	0	55	0.5000	
Engie2ENGLNG	36.4	0.0	36.4	50.0	13.6	36	0	0	36	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0			
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000	
Total		211.8				2350					

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 13:00:40

NOV 2033 thru OCT 2034

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	1223	Transportation Cost	2358	JAN 19, 2034	
Penalty Cost	0	Withdrawal Cost	115	Other Variable Cost	0	System Served	215.84
Other Variable Cost	0	Carrying Cost	595			System Unserved	0.00
		Other Variable Cost	0			Total	215.84
Total Variable	██████	Total Variable	1934	Total Variable	2358		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	154882
						Total Revenue	0
						Net Cost	154882

Avg Cost of Served Demand 7.386 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.021 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	20970.2	0.0	20970.2	0.0	20970.2	20970.2	0.0	0	215.8	0.0
Total	20970.2	0.0	20970.2	0.0	20970.2	20970.2	0.0	0	215.8	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2387.3	18250.0	15862.7			3.3748	8057	0	8057	3.3748
ENGNiagara	1146.6	1167.3	20.6			2.9666	3402	0	3402	2.9666
ENGPNGTS	364.0	365.0	1.0			3.4330	1250	0	1250	3.4330
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.3952	16025	0	16025	2.3952
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3717.5	7315.4	3597.9			5.5525	20642	0	20642	5.5525
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1371.2	2190.0	818.8			3.2372	4439	0	4439	3.2372

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2033 thru OCT 2034

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3588.1	10973.0	7384.9			6.6354	23809	0	23809	6.6354
Engie Combo	176.9	176.9	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	21267.0									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	144.9	144.9	0	0.0	13	100	0.0	0	147	149	2
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3537	3571	35
ENGDominion	103	100	109.2	107.0	0	2.1	103	100	0.0	0	251	253	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1608	1624	15
ENGHON	246	100	233.3	233.3	0	0.0	246	100	0.0	0	571	577	6
GranBrdgLNG	1552	100	2333.9	2304.9	0	29.0	1552	100	23.0	0	5307	5371	64
Total	4083	98	5318.5	5262.6	0	55.9	4083	98	28.7	0	11581	11705	124

Transportation Summary										
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPPProd	2387.3	0.0	2387.3	7882.5	5495.3	0	5043	0	5043	2.1126
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572
ENGTGPLong	6129.7	0.0	6129.7	8698.1	2568.4	0	0	0	0	0.0000
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185
ENGTGPShort	2807.1	23.9	2783.3	10262.0	7478.7	316	2688	0	3004	1.0701
TrCanCharges	1355.6	15.6	1340.0	1477.2	137.1	0	698	0	698	0.5146
IroqCharges	1340.0	8.3	1331.7	1477.2	145.5	119	640	0	759	0.5662
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584
ENGLNG	144.9	0.0	144.9	10950.0	10805.1	0	0	0	0	0.0000
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000
Dracut 30	4851.8	10.2	4841.6	10950.0	6108.4	211	4388	0	4599	0.9479
UnionCharges	1371.2	15.6	1355.6	1477.2	121.6	0	140	0	140	0.1021
Dracut 20	2453.8	5.2	2448.7	7300.0	4851.3	107	1134	0	1240	0.5054

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2033 thru OCT 2034

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPZ4	2280.1	63.5	2216.6	9125.0	6908.4	678	0	0	678	0.2976	
Z4toTGPLH	3946.7	33.5	3913.1	7665.0	3751.9	445	0	0	445	0.1126	
Z4toStg	2743.7	9.1	2734.7	7882.5	5147.9	136	0	0	136	0.0495	
Engie2CG	142.3	0.0	142.3	1057.0	914.7	5	0	0	5	0.0335	
GranBrdgPL	3990.5	8.4	3982.1	73000.0	69017.9	0		0			
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000	
LNGtoRT101	2171.5	6.1	2165.5	56666.3	54500.8	70	0	0	70	0.0323	
LNGtoLNG	110.3	0.0	110.3	2920.0	2809.7	55	0	0	55	0.5000	
Engie2ENGLNG	34.6	0.0	34.6	50.0	15.4	35	0	0	35	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0			
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000	
Total		212.3				2358					

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 13:00:40

NOV 2034 thru OCT 2035

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	1199	Transportation Cost	2366	JAN 19, 2035	
Penalty Cost	0	Withdrawal Cost	114	Other Variable Cost	0	System Served	217.91
Other Variable Cost	0	Carrying Cost	598			System Unserved	0.00
		Other Variable Cost	0			Total	217.91
Total Variable	████	Total Variable	1912	Total Variable	2366		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	157417
						Total Revenue	0
						Net Cost	157417

Avg Cost of Served Demand 7.440 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.104 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21158.1	0.0	21158.1	0.0	21158.1	21158.1	0.0	0	217.9	0.0
Total	21158.1	0.0	21158.1	0.0	21158.1	21158.1	0.0	0	217.9	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2390.2	18250.0	15859.8			3.4083	8146	0	8146	3.4083
ENGNiagara	1146.6	1167.3	20.6			2.9963	3436	0	3436	2.9963
ENGPNGTS	364.0	365.0	1.0			3.4673	1262	0	1262	3.4673
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.4191	16185	0	16185	2.4191
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3802.7	7315.4	3512.6			5.7175	21742	0	21742	5.7175
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
498 ENGDawn	1371.3	2190.0	818.7			3.2695	4484	0	4484	3.2695

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2034 thru OCT 2035

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3686.9	10973.0	7286.1			6.7365	24837	0	24837	6.7365
Engie Combo	176.9	176.9	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	21454.1									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	145.4	145.4	0	0.0	13	100	0.0	0	149	149	-0
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3571	3606	35
ENGDominion	103	100	108.6	106.5	0	2.1	103	100	0.0	0	253	255	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1624	1639	16
ENGHON	246	100	232.3	232.3	0	0.0	246	100	0.0	0	577	582	6
GranBrdgLNG	1552	100	2286.6	2258.2	0	28.5	1552	100	22.6	0	5371	5414	42
Total	4083	98	5270.0	5214.7	0	55.3	4083	98	28.3	0	11705	11806	101

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2390.2	0.0	2390.2	7882.5	5492.4	0	5043	0	5043	2.1100	
ENGTGP2Stg	107.1	2.2	105.0	7882.5	7777.6	28	0	0	28	0.2572	
ENGTGPLong	6134.2	0.0	6134.2	8698.1	2563.9	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2805.5	23.8	2781.6	10262.0	7480.3	316	2688	0	3004	1.0706	
TrCanCharges	1355.7	15.6	1340.1	1477.2	137.1	0	698	0	698	0.5146	
IroqCharges	1340.1	8.3	1331.8	1477.2	145.4	119	640	0	759	0.5661	
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584	
ENGLNG	145.4	0.0	145.4	10950.0	10804.6	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	5017.0	10.5	5006.4	10950.0	5943.6	218	4388	0	4606	0.9181	
UnionCharges	1371.3	15.6	1355.7	1477.2	121.5	0	140	0	140	0.1021	
Dracut 20	2472.7	5.2	2467.5	7300.0	4832.5	107	1134	0	1241	0.5019	

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2034 thru OCT 2035

Cost and Flow Summary

Units: MDT, USD (000)

=====											
Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPZ4	2283.0	63.6	2219.4	9125.0	6905.6	679	0	0	679	0.2976	
Z4toTGPLH	3948.3	33.6	3914.8	7665.0	3750.2	445	0	0	445	0.1126	
Z4toStg	2742.1	9.0	2733.0	7882.5	5149.5	136	0	0	136	0.0495	
Engie2CG	142.6	0.0	142.6	1057.0	914.4	5	0	0	5	0.0335	
GranBrdgPL	3943.6	8.3	3935.3	73000.0	69064.7	0		0			
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000	
LNGtoRT101	2124.5	5.9	2118.6	56666.3	54547.7	69	0	0	69	0.0323	
LNGtoLNG	111.1	0.0	111.1	2920.0	2808.9	56	0	0	56	0.5000	
Engie2ENGLNG	34.3	0.0	34.3	50.0	15.7	34	0	0	34	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0			
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000	
Total		212.5				2366					

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 13:00:40

NOV 2035 thru OCT 2036

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	1172	Transportation Cost	2368	JAN 19, 2036	
Penalty Cost	0	Withdrawal Cost	112	Other Variable Cost	0	System Served	219.62
Other Variable Cost	0	Carrying Cost	601			System Unserved	0.00
		Other Variable Cost	0			Total	219.62
Total Variable	██████	Total Variable	1885	Total Variable	2368		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	160430
						Total Revenue	0
						Net Cost	160430

Avg Cost of Served Demand 7.497 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.199 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21399.4	0.0	21399.4	0.0	21399.4	21399.4	0.0	0	219.6	0.0
Total	21399.4	0.0	21399.4	0.0	21399.4	21399.4	0.0	0	219.6	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2406.8	18300.0	15893.2			3.4426	8286	0	8286	3.4426
ENGNiagara	1149.8	1170.5	20.7			3.0270	3480	0	3480	3.0270
ENGPNGTS	365.0	366.0	1.0			3.5092	1281	0	1281	3.5092
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6698.7	6698.7	0.0			2.4439	16371	0	16371	2.4439
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3906.2	7335.4	3429.2			5.8353	22794	0	22794	5.8353
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1375.5	2196.0	820.5			3.3031	4543	0	4543	3.3031

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2035 thru OCT 2036

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3786.2	11003.1	7216.9			6.9401	26276	0	26276	6.9401
Engie Combo	176.9	176.9	0.0							
DAWN5	1830.0	1830.0	0.0							
Total	21695.1									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	136.5	136.5	0	0.0	13	100	0.0	0	149	147	-2
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3606	3641	35
ENGDominion	103	100	109.2	107.0	0	2.1	103	100	0.0	0	255	258	2
ENGNFG	671	100	723.7	718.0	0	5.7	671	100	5.7	0	1639	1655	16
ENGHON	246	100	227.5	227.5	0	0.0	246	100	0.0	0	582	588	6
GranBrdgLNG	1552	100	2232.6	2204.8	0	27.8	1552	100	22.0	0	5414	5440	26
Total	4083	98	5202.9	5148.3	0	54.6	4083	98	27.7	0	11806	11889	83

Transportation Summary										
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPPProd	2406.8	0.0	2406.8	7904.1	5497.3	0	5043	0	5043	2.0954
ENGTGP2Stg	107.1	2.2	104.9	7904.1	7799.2	28	0	0	28	0.2572
ENGTGPLong	6162.8	0.0	6162.8	8719.7	2556.9	0	0	0	0	0.0000
ENGTGPBND	1149.8	7.1	1142.7	1142.7	0.0	98	267	0	365	0.3179
ENGTGPShort	2801.2	23.8	2777.4	10290.1	7512.7	316	2688	0	3003	1.0721
TrCanCharges	1359.8	15.6	1344.2	1481.2	137.0	0	698	0	698	0.5130
IroqCharges	1344.2	8.3	1335.8	1481.2	145.4	119	640	0	759	0.5647
ENGPNGTS	365.0	3.7	361.3	366.0	4.7	1	312	0	312	0.8561
ENGLNG	136.5	0.0	136.5	10980.0	10843.5	0	0	0	0	0.0000
ENGPropane	0.0	0.0	0.0	6370.0	6370.0	0	0	0	0	0.0000
ENGC3Truck	0.0	0.0	0.0	4392.0	4392.0	0	0	0	0	0.0000
Dracut 30	5144.0	10.8	5133.2	10980.0	5846.8	223	4388	0	4612	0.8965
UnionCharges	1375.5	15.7	1359.8	1481.2	121.4	0	140	0	140	0.1018
Dracut 20	2548.4	5.4	2543.1	7320.0	4776.9	111	1134	0	1244	0.4883

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2035 thru OCT 2036

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPZ4	2299.7	64.1	2235.6	9150.0	6914.4	684	0	0	684	0.2976	
Z4toTGPLH	3960.8	33.7	3927.2	7686.0	3758.8	446	0	0	446	0.1126	
Z4toStg	2737.8	9.0	2728.8	7904.1	5175.3	136	0	0	136	0.0495	
Engie2CG	156.8	0.0	156.8	1064.0	907.2	5	0	0	5	0.0335	
GranBrdgPL	3890.6	8.2	3882.5	73200.0	69317.5	0		0			
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7600.0	7600.0	0	0	0	0	0.0000	
LNGtoRT101	2066.4	5.8	2060.6	56821.5	54760.9	67	0	0	67	0.0323	
LNGtoLNG	116.4	0.0	116.4	2928.0	2811.6	58	0	0	58	0.5000	
Engie2ENGLNG	20.1	0.0	20.1	50.0	29.9	20	0	0	20	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	1830.0	0.0	1830.0	1830.0	0.0	57		0			
DAWN5Dracut	0.0	0.0	0.0	1830.0	1830.0	0	0	0	0	0.0000	
Total		213.3				2368					

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 13:00:40

NOV 2036 thru OCT 2037

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	1161	Transportation Cost	2369	JAN 19, 2037	
Penalty Cost	0	Withdrawal Cost	112	Other Variable Cost	0	System Served	221.46
Other Variable Cost	0	Carrying Cost	606			System Unserved	0.00
		Other Variable Cost	0			Total	221.46
Total Variable	████	Total Variable	1879	Total Variable	2369		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	162393
						Total Revenue	0
						Net Cost	162393

Avg Cost of Served Demand 7.555 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.271 USD/DT
(Supply Cost/LDC Purchase)

Class	Demand Summary					Served	Unserved	Revenue	Peak Served	Peak Unserved
	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.					
ENGINormal	21495.4	0.0	21495.4	0.0	21495.4	21495.4	0.0	0	221.5	0.0
Total	21495.4	0.0	21495.4	0.0	21495.4	21495.4	0.0	0	221.5	0.0

Source	Supply Summary			Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
	Total Take	Max Take	Surplus							
ENGUSGC	2396.0	18250.0	15854.0			3.4762	8329	0	8329	3.4762
ENGNiagara	1146.6	1167.3	20.6			3.0565	3505	0	3505	3.0565
ENGPNGTS	364.0	365.0	1.0			3.5370	1287	0	1287	3.5370
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.4678	16510	0	16510	2.4678
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3938.4	7315.4	3377.0			5.9350	23374	0	23374	5.9350
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1371.4	2190.0	818.6			3.3353	4574	0	4574	3.3353

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2036 thru OCT 2037

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3881.5	10973.0	7091.5			7.0485	27359	0	27359	7.0485
Engie Combo	176.9	176.9	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	21790.2									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	137.2	137.2	0	0.0	13	100	0.0	0	147	147	0
ENGFSMA	1498	96	1773.4	1754.4	0	19.0	1498	96	0.0	0	3641	3677	36
ENGDominion	103	100	109.2	107.0	0	2.1	103	100	0.0	0	258	260	2
ENGNFG	671	100	727.6	721.9	0	5.7	671	100	5.7	0	1655	1671	16
ENGHON	246	100	227.5	227.5	0	0.0	246	100	0.0	0	588	594	6
GranBrdgLNG	1552	100	2209.1	2181.6	0	27.5	1552	100	21.8	0	5440	5492	52
Total	4083	98	5184.0	5129.7	0	54.3	4083	98	27.5	0	11889	12002	113

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2396.0	0.0	2396.0	7882.5	5486.5	0	5043	0	5043	2.1048	
ENGTGP2Stg	111.1	2.3	108.9	7882.5	7773.7	29	0	0	29	0.2572	
ENGTGPLong	6140.2	0.0	6140.2	8698.1	2557.9	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2805.1	23.8	2781.3	10262.0	7480.7	316	2688	0	3004	1.0708	
TrCanCharges	1355.7	15.6	1340.2	1477.2	137.0	0	698	0	698	0.5145	
IroqCharges	1340.2	8.3	1331.8	1477.2	145.3	119	640	0	759	0.5661	
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584	
ENGLNG	137.2	0.0	137.2	10950.0	10812.8	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	5265.7	11.1	5254.6	10950.0	5695.4	229	4388	0	4617	0.8768	
UnionCharges	1371.4	15.6	1355.7	1477.2	121.4	0	140	0	140	0.1021	
Dracut 20	2554.2	5.4	2548.8	7300.0	4751.2	111	1134	0	1245	0.4873	

475

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2036 thru OCT 2037

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary											
Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPZ4	2284.9	63.7	2221.2	9125.0	6903.8	680	0	0	680	0.2976	
Z4toTGPLH	3952.5	33.6	3919.0	7665.0	3746.0	445	0	0	445	0.1126	
Z4toStg	2737.8	9.0	2728.8	7882.5	5153.7	136	0	0	136	0.0495	
Engie2CG	155.8	0.0	155.8	1057.0	901.2	5	0	0	5	0.0335	
GranBrdgPL	3863.0	8.1	3854.9	73000.0	69145.1	0		0			
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000	
LNGtoRT101	2043.7	5.7	2038.0	56666.3	54628.2	66	0	0	66	0.0323	
LNGtoLNG	116.1	0.0	116.1	2920.0	2803.9	58	0	0	58	0.5000	
Engie2ENGLNG	21.1	0.0	21.1	50.0	28.9	21	0	0	21	1.0000	
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56		0			
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000	
Total		213.0				2369					

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 13:00:40

NOV 2037 thru OCT 2038

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	██████	Injection Cost	1133	Transportation Cost	2396	JAN 19, 2038	
Penalty Cost	0	Withdrawal Cost	110	Other Variable Cost	0	System Served	223.32
Other Variable Cost	0	Carrying Cost	610			System Unserved	0.00
		Other Variable Cost	0			Total	223.32
Total Variable	██████	Total Variable	1853	Total Variable	2396		
Demand/Reservation Co	██████	Demand Cost	██████	Demand Cost	██████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	██████	Total Fixed	██████	Total Fixed	██████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	██████	Net Storage Cost	██████	Net Trans Cost	██████	Total Gas Cost	165080
						Total Revenue	0
						Net Cost	165080

Avg Cost of Served Demand 7.618 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.359 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21670.7	0.0	21670.7	0.0	21670.7	21670.7	0.0	0	223.3	0.0
Total	21670.7	0.0	21670.7	0.0	21670.7	21670.7	0.0	0	223.3	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2399.1	18250.0	15850.9			3.5106	8422	0	8422	3.5106
ENGNiagara	1146.6	1167.3	20.6			3.0871	3540	0	3540	3.0871
ENGPNGTS	364.0	365.0	1.0			3.5723	1300	0	1300	3.5723
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.4924	16675	0	16675	2.4924
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	4152.5	7315.4	3162.9			5.9548	24727	0	24727	5.9548
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	1371.4	2190.0	818.6			3.3686	4620	0	4620	3.3686

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2037 thru OCT 2038

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3838.6	10973.0	7134.4			7.3616	28258	0	28258	7.3616
Engie Combo	176.9	176.9	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	21964.5									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	156.0	156.0	0	0.0	13	100	0.0	0	147	146	-1
ENGFSMA	1498	96	1775.5	1756.5	0	19.0	1498	96	0.0	0	3677	3713	36
ENGDominion	103	100	108.9	106.7	0	2.1	103	100	0.0	0	260	263	3
ENGNFG	671	100	727.1	721.4	0	5.7	671	100	5.7	0	1671	1687	16
ENGHON	246	100	227.6	227.6	0	0.0	246	100	0.0	0	594	600	6
GranBrdgLNG	1552	100	2153.9	2127.1	0	26.8	1552	100	21.3	0	5492	5519	26
Total	4083	98	5149.0	5095.4	0	53.7	4083	98	27.0	0	12002	12088	86

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	2399.1	0.0	2399.1	7882.5	5483.5	0	5043	0	5043	2.1022	
ENGTGP2Stg	112.7	2.3	110.4	7882.5	7772.1	29	0	0	29	0.2572	
ENGTGPLong	6141.8	0.0	6141.8	8698.1	2556.3	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2806.5	23.9	2782.6	10262.0	7479.4	316	2688	0	3004	1.0703	
TrCanCharges	1355.7	15.6	1340.2	1477.2	137.0	0	698	0	698	0.5145	
IroqCharges	1340.2	8.3	1331.8	1477.2	145.3	119	640	0	759	0.5661	
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584	
ENGLNG	156.0	0.0	156.0	10950.0	10794.0	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	5253.8	11.0	5242.7	10950.0	5707.3	228	4388	0	4616	0.8787	
UnionCharges	1371.4	15.6	1355.7	1477.2	121.4	0	140	0	140	0.1021	
Dracut 20	2737.3	5.7	2731.6	7300.0	4568.4	119	1134	0	1253	0.4576	

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2037 thru OCT 2038

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2286.3	63.7	2222.6	9125.0	6902.4	680	0	0	680	0.2976
Z4toTGPLH	3952.8	33.6	3919.2	7665.0	3745.8	445	0	0	445	0.1126
Z4toStg	2737.6	9.0	2728.6	7882.5	5153.9	136	0	0	136	0.0495
Engie2CG	133.0	0.0	133.0	1057.0	924.0	4	0	0	4	0.0335
GranBrdgPL	3813.1	8.0	3805.1	73000.0	69194.9	0	█	0	█	█
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	1993.7	5.6	1988.1	56666.3	54678.1	64	0	0	64	0.0323
LNGtoLNG	112.2	0.0	112.2	2920.0	2807.8	56	0	0	56	0.5000
Engie2ENGLNG	43.9	0.0	43.9	50.0	6.1	44	0	0	44	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		213.2				2396	█		█	█

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 13:00:40

NOV 2038 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████	Injection Cost	399	Transportation Cost	2323	JAN 19, 2039	
Penalty Cost	0	Withdrawal Cost	109	Other Variable Cost	0	System Served	225.31
Other Variable Cost	0	Carrying Cost	485			System Unserved	0.00
		Other Variable Cost	0			Total	225.31
Total Variable	████	Total Variable	993	Total Variable	2323		
Demand/Reservation Co	████	Demand Cost	████	Demand Cost	████		
Other Fixed Cost	0	Other Fixed Cost	973	Other Fixed Cost	0		
Total Fixed	████	Total Fixed	████	Total Fixed	████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████	Net Storage Cost	████	Net Trans Cost	████	Total Gas Cost	162324
						Total Revenue	0
						Net Cost	162324

Avg Cost of Served Demand 7.427 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.537 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGINormal	21855.0	0.0	21855.0	0.0	21855.0	21855.0	0.0	0	225.3	0.0
Total	21855.0	0.0	21855.0	0.0	21855.0	21855.0	0.0	0	225.3	0.0

Supply Summary										
Source	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGUSGC	2402.0	18250.0	15848.0			3.5454	8516	0	8516	3.5454
ENGNiagara	1146.6	1167.3	20.6			3.1179	3575	0	3575	3.1179
ENGPNGTS	364.0	365.0	1.0			3.6081	1313	0	1313	3.6081
ENGC3Winter	0.0	91.7	91.7			0.0000	0	0	0	0.0000
ENG-Z4	6690.4	6690.4	0.0			2.5174	16842	0	16842	2.5174
DLiqWinter	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 20	3281.9	7315.4	4033.5			6.8764	22568	0	22568	6.8764
ENGC3Summer	0.0	93.5	93.5			0.0000	0	0	0	0.0000
ENGDawn	949.2	2190.0	1240.8			3.4872	3310	0	3310	3.4872

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2038 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	3866.6	10973.0	7106.4			7.6330	29514	0	29514	7.6330
Engie Combo	176.9	176.9	0.0							
DAWN5	1825.0	1825.0	0.0							
Total	20702.7									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	154.2	154.9	0	0.0	12	95	0.0	-1	146	149	3
ENGFSMA	1498	96	1759.7	1756.5	0	18.8	1482	95	0.0	-16	3713	3710	-3
ENGDominion	103	100	108.0	105.9	0	2.1	103	100	0.0	0	263	264	1
ENGNFG	671	100	726.5	720.8	0	5.7	671	100	5.7	0	1687	1707	20
ENGHON	246	100	231.7	231.7	0	0.0	246	100	0.0	0	600	607	7
GranBrdgLNG	1552	100	697.8	2086.4	0	8.7	155	10	20.9	-1397	5519	577	-4942
Total	4083	98	3678.0	5056.1	0	35.4	2669	64	26.6	-1413	12088	7173	-4915

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2402.0	0.0	2402.0	7882.5	5480.5	0	5043	0	5043	2.0996	
ENGTGP2Stg	114.1	2.3	111.7	7882.5	7770.8	29	0	0	29	0.2572	
ENGTGPLong	6157.7	0.0	6157.7	8698.1	2540.4	0	0	0	0	0.0000	
ENGTGPBND	1146.6	7.1	1139.5	1139.5	0.0	98	267	0	365	0.3185	
ENGTGPShort	2809.2	23.9	2785.3	10262.0	7476.7	316	2688	0	3004	1.0694	
TrCanCharges	938.4	10.8	927.6	1477.2	549.5	0	698	0	698	0.7434	
IroqCharges	927.6	5.8	921.9	1477.2	555.3	82	640	0	722	0.7784	
ENGPNGTS	364.0	3.6	360.4	365.0	4.6	1	312	0	312	0.8584	
ENGLNG	154.9	0.0	154.9	10950.0	10795.1	0	0	0	0	0.0000	
ENGPropane	0.0	0.0	0.0	6335.0	6335.0	0	0	0	0	0.0000	
ENGC3Truck	0.0	0.0	0.0	4380.0	4380.0	0	0	0	0	0.0000	
Dracut 30	4563.0	9.6	4553.4	10950.0	6396.6	198	4388	0	4586	1.0051	
UnionCharges	949.2	10.8	938.4	1477.2	538.7	0	140	0	140	0.1475	
Dracut 20	2585.5	5.4	2580.0	7300.0	4720.0	112	1134	0	1246	0.4819	

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 11-Mar-2019
Report 1 (Continued) 13:00:40

NOV 2038 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPZ4	2288.0	63.8	2224.2	9125.0	6900.8	681	0	0	681	0.2976
Z4toTGPLH	3967.2	33.7	3933.5	7665.0	3731.5	447	0	0	447	0.1126
Z4toStg	2723.2	9.0	2714.2	7882.5	5168.3	135	0	0	135	0.0495
Engie2CG	132.5	0.0	132.5	1057.0	924.5	4	0	0	4	0.0335
GranBrdgPL	3775.2	7.9	3767.3	73000.0	69232.7	0	█	0	█	█
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	7550.0	7550.0	0	0	0	0	0.0000
LNGtoRT101	1955.7	5.5	1950.2	56666.3	54716.0	63	0	0	63	0.0323
LNGtoLNG	109.8	0.0	109.8	2920.0	2810.2	55	0	0	55	0.5000
Engie2ENGLNG	44.4	0.0	44.4	50.0	5.6	44	0	0	44	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	1825.0	0.0	1825.0	1825.0	0.0	56	█	0	█	█
DAWN5Dracut	0.0	0.0	0.0	1825.0	1825.0	0	0	0	0	0.0000
Total		199.2				2323	█		█	█

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1z 11-Mar-2019
Report 1z 13:00:40

NOV 2018 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	████████	Injection Cost	20056	Transportation Cost	48179	JAN 19, 2039	
Penalty Cost	0	Withdrawal Cost	2085	Other Variable Cost	0	System Served	225.31
Other Variable Cost	1719	Carrying Cost	10356			System Unserved	0.00
Total Variable	████████	Other Variable Cost	0	Total Variable	48179	Total	225.31
Demand/Reservation Co	████████	Demand Cost	████████	Demand Cost	████████		
Other Fixed Cost	13464	Other Fixed Cost	20435	Other Fixed Cost	0		
Total Fixed	████████	Total Fixed	████████	Total Fixed	████████		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	0		
Net Supply Cost	████████	Net Storage Cost	████████	Net Trans Cost	████████	Total Gas Cost	2838078
						Total Revenue	0
						Net Cost	2838078

Avg Cost of Served Demand 6.988 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 3.844 USD/DT
(Supply Cost/LDC Purchase)

Class	Demand Summary					Served	Unserved	Revenue	Peak Served	Peak Unserved
	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.					
ENGINormal	406135.6	0.0	406135.6	0.0	406135.6	406135.6	0.0	0	225.3	0.0
Total	406135.6	0.0	406135.6	0.0	406135.6	406135.6	0.0	0	225.3	0.0

Source	Supply Summary			Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
	Total Take	Max Take	Surplus							
ENGUSGC	49726.1	383500.0	333773.9			3.1419	156233	0	156233	3.1419
ENGNiagara	23524.6	24528.7	1004.1			2.7353	64346	0	64346	2.7353
ENGPNGTS	7479.3	7670.0	190.7			3.2356	24200	0	24200	3.2356
ENG3Winter	458.7	1926.6	1467.9			15.0000	6881	0	6881	15.0000
ENG-Z4	140526.9	140539.9	13.0			2.1594	303459	0	303459	2.1594
DLiqWinter	1250.0	1250.0	0.0							
Dracut 20	67492.4	153722.8	86230.4			5.7550	388421	0	388421	5.7550
ENG3Summer	276.4	1962.6	1686.2			10.0000	2764	0	2764	10.0000
DLiqSummer	84.0	84.0	0.0							

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1z 11-Mar-2019
Report 1z (Continued) 13:00:40

NOV 2018 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary										
Source (cont)	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
ENGDawn	25279.6	46020.0	20740.4			3.0698	77604	0	77604	3.0698
DAWN	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Repsol 40	0.0	0.0	0.0			0.0000	0	0	0	0.0000
Dracut 30	55616.5	230584.2	174967.7			6.7268	374122	0	374122	6.7268
Engie Combo	5980.4	5980.4	0.0							
DAWN5	34259.7	36968.3	2708.6							
Total	411954.6									

Storage Summary													
Storage	Starting Balance	% Full	Total Inj.	Total With.	NetInv Adj.	Inj Fuel	Final Balance	% Full	With. Fuel	Diff in Balance	Start Value	Final Value	Diff in Value
ENGLNG	13	100	4111.4	4112.0	0	0.0	12	95	0.0	-1	126	149	23
ENGPropane	77	100	735.1	811.9	0	0.0	0	0	0.0	-77	953	160	-793
ENGFSMA	1482	95	37202.9	36804.9	0	398.1	1482	95	0.0	0	2573	3710	1137
ENGDominion	103	100	2313.8	2268.7	0	45.1	103	100	0.0	0	178	264	85
ENGNFG	671	100	15196.9	15076.9	0	120.1	671	100	119.1	0	1164	1707	543
ENGHON	246	100	4923.5	4923.5	0	0.0	246	100	0.0	0	427	607	179
GranBrdgLNG	0	N/A	37828.2	37202.3	0	470.7	155	10	372.0	155	0	577	577
Total	2591	N/A	102311.8	101200.0	0	1034.0	2669	100	491.1	78	5422	7173	1752

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	49726.1	0.0	49726.1	165641.3	115915.2	0	105908	0	105908	2.1298	
ENGTGP2Stg	2211.2	45.2	2166.0	165641.3	163475.3	569	0	0	569	0.2572	
ENGTGPLong	128351.7	0.0	128351.7	182768.0	54416.2	0	0	0	0	0.0000	
ENGTGPBND	23524.6	145.9	23378.8	23945.7	567.0	2008	5614	0	7622	0.3240	
ENGTGPShort	58954.8	501.1	58453.7	215642.1	157188.4	6640	56441	0	63081	1.0700	
TrCanCharges	24991.6	287.4	24704.2	31040.5	6336.3	0	14649	0	14649	0.5862	
IroqCharges	24704.2	153.2	24551.1	31040.5	6489.4	2192	13435	0	15627	0.6326	
ENGPNGTS	7479.3	74.8	7404.5	7670.0	265.5	13	6548	0	6561	0.8773	
ENGLNG	4112.0	0.0	4112.0	230100.0	225988.0	0	0	0	0	0.0000	
ENGPropane	811.9	0.0	811.9	133210.0	132398.1	0	0	0	0	0.0000	
ENGC3Truck	735.1	0.0	735.1	92040.0	91304.9	735	0	0	735	1.0000	
Dracut 30	77861.7	163.5	77698.2	230100.0	152401.8	3380	92155	0	95535	1.2270	

484

Scen 1524 Supplemental BC 1.5 BCF Tank
- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1z 11-Mar-2019
Report 1z (Continued) 13:00:40

NOV 2018 thru OCT 2039

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
UnionCharges	25279.6	287.9	24991.6	31040.5	6048.9	0	2940	0	2940	0.1163
Dracut 20	48467.0	101.8	48365.2	153400.0	105034.8	2104	23807	0	25911	0.5346
ENGTGPZ4	47514.9	1324.3	46190.6	191750.0	145559.4	14139	0	0	14139	0.2976
Z4toTGPLH	82865.5	704.4	82161.1	161070.0	78908.9	9334	0	0	9334	0.1126
Z4toStg	57661.4	190.3	57471.1	165641.3	108170.2	2856	0	0	2856	0.0495
Engie2CG	5058.0	0.0	5058.0	22232.0	17174.0	169	0	0	169	0.0335
GranBrdgPL	65917.3	138.4	65778.9	1241800.0	1176021.1	0		0		
Repsol to101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
Repsol2Drac	0.0	0.0	0.0	158800.0	158800.0	0	0	0	0	0.0000
LNGtoRT101	34975.3	97.9	34877.3	1190767.5	1155890.2	1130	0	0	1130	0.0323
LNGtoLNG	1855.0	0.0	1855.0	61360.0	59505.0	927	0	0	927	0.5000
Engie2ENGLNG	922.4	0.0	922.4	1050.0	127.6	922	0	0	922	1.0000
Dawn2Dracut	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWNTCPL	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
PNGTS2RT101	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
DAWN5	31040.0	0.0	31040.0	36968.3	5928.3	959		0		
DAWN5Dracut	3219.7	0.0	3219.7	36968.3	33748.6	99	0	0	99	0.0309
Total		4216.0				48179				

RESOURCE MIX RESULTS

Units: MDT

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	Contract	Start Date	End Date	Min Level	Max Level	Result MDQ
	-----	-----	-----	-----	-----	-----
Supplies	DAWN	NOV 2022	OCT 2039	0.00	150.00	0.00
	Repsol 40	NOV 2022	OCT 2039	0.00	150.00	0.00
	Engie Combo	NOV 2023	OCT 2039	0.00	7.00	1.97

	Contract	Start Date	End Date	Min Level	Max Level	Result MDQ
	-----	-----	-----	-----	-----	-----
Segments	Repsol to101	NOV 2021	OCT 2039	0.00	150.00	0.00
	Dawn2Dracut	NOV 2021	OCT 2039	0.00	150.00	0.00
	DAWNTCPL	NOV 2021	OCT 2039	0.00	150.00	0.00
	PNGTS2RT101	NOV 2021	OCT 2039	0.00	150.00	0.00

Summary Savings

Winter	LNG Inventory Cost	<u>Dracut/Citygate Purchase Volume (Dth)</u>		<u>Dracut/Citygate Purchase Cost</u>		<u>Savings</u>	
		Nov-Mar	Dec-Feb	Nov-Mar	Dec-Feb	Nov-Mar	Dec-Feb
2013/14	\$ 8,948,760	2,313,545	1,946,045	\$ 54,290,437	\$ 47,177,012	\$ 39,626,567	\$ 41,137,022
2014/15	\$ 6,246,643	2,437,732	2,153,567	\$ 39,783,909	\$ 36,965,134	\$ 27,535,861	\$ 29,284,095
2015/16	\$ 3,200,693	1,715,501	1,651,501	\$ 19,037,430	\$ 18,647,335	\$ 15,836,737	\$ 16,156,869
2016/17	\$ 3,909,989	2,025,353	1,621,653	\$ 16,034,543	\$ 13,504,173	\$ 12,124,554	\$ 12,790,242
2017/18	\$ 6,104,101	2,303,765	2,025,982	\$ 30,086,676	\$ 28,305,988	\$ 20,929,654	\$ 22,776,752
TOTAL	\$ 28,410,187	10,795,896	9,398,748	\$ 159,232,995	\$ 144,599,641	\$ 116,053,372	\$ 122,144,980