

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

DG 14-380

Petition for Approval of a Firm Transportation Agreement with the Tennessee Gas Pipeline
Company, LLC

OCA Data Requests - Set 1

Date Request Received: 3/2/15
Request No. OCA 1-11

Date of Response: 3/16/15
Respondent: Francisco C. DaFonte

REQUEST

Ref. Response to Data Request Staff 2-14. Did the company explicitly evaluate scenarios with capacity other than the 115,000 Dth per day? If so, please provide supporting documents.

RESPONSE:

The Company did not evaluate scenarios with capacity other than the 115,000 Dth per day requested in the Company's filing. As stated in its response to Staff request Staff 2-14, the Company believes it has demonstrated in its testimony that the 115,000 Dth per day of capacity on the NED contract is appropriate and required to satisfy its firm sales customer requirements for the 20-year period of the contract. The Company believes the NED project to be a unique opportunity that may not be available again and the capacity commitment level is needed to economically meet the growing needs of EnergyNorth's customers and to facilitate economic expansion of EnergyNorth's service territory.

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

DG 14-380

Petition for Approval of a Firm Transportation Agreement with the Tennessee Gas Pipeline
Company, LLC

OCA Data Requests - Set 2

Date Request Received: 3/27/15
Request No. OCA 2-1

Date of Response: 4/13/15
Respondent: Francisco C. DaFonte

REQUEST

Ref. DaFonte Testimony, Attachments FCD-4. Please conduct a variant SENDOUT® run assuming that the C2C capacity is 65,000 Dth per day, and that Energy North's existing capacity from Dracut to its city gates on the Concord Lateral remains in place up to 2038. Please identify any additional assumptions that were made in running this scenario.

RESPONSE:

Attachment OCA-2-1 provides the requested SENDOUT® model run for the C2C alternative.

The pricing assumptions in the requested SENDOUT® run are similar to those used in the SENDOUT® run in Attachment FCD-4 with the following differences:

1. Contracted volume reduced from 115,000 Dth to 65,000 Dth.
2. Capacity mitigation revenues were not included in Attachment FCD-4 but are included in Attachment OCA-2-1.
3. The requested SENDOUT® run has an option to buy up to 50,000 Dth of supply at Dracut, MA and/or 65,000 Dth on the C2C project at Wright, NY.

- Draw 0

NOV 2018 thru OCT 2019

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	81422	Injection Cost	45	Transportation Cost	2462	JAN 19, 2019	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	0	System Served	164.53
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	164.53
Total Variable	81422	Total Variable	88	Total Variable	2462		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	76117		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	76117		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	6887		
Net Supply Cost	83048	Net Storage Cost	1519	Net Trans Cost	71693	Total Gas Cost	163146
						Total Revenue	6887
						Net Cost	156259

Avg Cost of Served Demand 9.332 USD/DT
 (System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.662 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
ENGIDesign	17483.2	0.0	17483.2	0.0	17483.2	17483.2	0.0	0	164.5	0.0
Total	17483.2	0.0	17483.2	0.0	17483.2	17483.2	0.0	0	164.5	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	3045.0	18250.0	15205.0			4.3618	13282	0	13282	4.3618
ENGNiagara	803.8	1167.3	363.4			3.8958	3132	0	3132	3.8958
ENGPNGTS	84.0	84.0	0.0			7.8366	658	0	658	7.8366
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	51.6	91.7	40.1			21.4438	1107	0	1107	21.4438
ENG-Z4	3020.6	3029.5	8.9			3.9666	11981	0	11981	3.9666
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	119.5	250.0	130.5		277.6	13.0030	1554	1500	3054	25.5531
ENGC3Summer	42.2	93.5	51.2			21.2363	897	0	897	21.2363

- Draw 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 Cost
DLiqSummer	21.0	21.0	0.0			12.7444	268	126	394	18.7444
ENGDawn	842.1	2190.0	1347.9			4.3387	3654	0	3654	4.3387
C2C Supply	9597.4	23725.0	14127.6			4.5487	43656	0	43656	4.5487
DRACUT SW	185.8	18250.0	18064.2			6.6397	1234	0	1234	6.6397
Total	17813.1				277.6		81422	1626	83048	

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	140.5	140.5	0	0.0	13	100	0.0	0	131	167	36
ENGPropane	77	100	93.9	93.9	0	0.0	77	100	0.0	0	1053	1659	606
ENGFSMA	1482	95	1671.7	1638.2	0	17.9	1498	96	0.0	16	5559	6051	492
ENGDominion	103	100	105.7	103.7	0	2.1	103	100	0.0	0	385	436	51
ENGNFG	671	100	679.9	674.5	0	5.4	671	100	5.3	0	2516	2802	286
ENGHON	246	100	228.4	228.4	0	0.0	246	100	0.0	0	923	1000	76
Total	2592	97	2920.1	2879.2	0	25.3	2608	98	5.3	16	10566	12115	1549

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	3045.0	0.0	3045.0	8667.8	5622.9	0	6298	0	6298	2.0683	
ENGTGP2Stg	986.1	28.6	957.5	7882.5	6925.0	67	0	0	67	0.0682	
ENGTGPLong	3322.6	105.0	3217.6	7882.5	4664.9	867	4207	0	5073	1.5268	
ENGTGPBND	803.8	8.4	795.4	1139.5	344.1	66	276	0	342	0.4249	
ENGTGPShort	2639.5	39.1	2600.4	10262.0	7661.6	283	3079	0	3363	1.2740	
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
ENGIGTS	831.2	8.3	822.9	1825.0	1002.1	4	320	0	324	0.3902	
ENGTGPANE	822.9	8.6	814.2	1460.0	645.8	67	353	0	421	0.5111	
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537	
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000	
ENGLNG	140.5	0.0	140.5	8654.9	8514.4	0	0	0	0	0.0000	
ENGPropane	93.9	0.0	93.9	12775.0	12681.1	0	0	0	0	0.0000	
ENG3Truck	93.9	0.0	93.9	2046.7	1952.9	94	0	0	94	1.0000	
ENGTGPDracut	9768.7	42.0	9726.7	17371.4	7644.7	342	5549	9	5882	0.6022	
ENGDawn2Wadd	842.1	10.9	831.2	2190.0	1358.8	17	568	0	585	0.6949	

- Draw 0

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
ENGTGPConLat	11.6	0.3	11.3	1653.9	1642.6	1	19124	221	18904	1623.9481
ENGTGPZ4	2058.9	28.6	2030.2	36500.0	34469.8	231	2171	0	2403	1.1669
Z4toTGPLH	1292.4	0.0	1292.4	3650.0	2357.6	0	0	0	0	0.0000
Z4toStg	1728.2	0.0	1728.2	2140.0	411.8	0	0	0	0	0.0000
C2C Trnsprtn	9597.4	2.9	9594.6	12634.0	3039.4	422	33690	6657	27455	2.8606
Total		283.7				2462	76117	6887	71693	1.8786

- Draw 0

NOV 2019 thru OCT 2020

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	87575	Injection Cost	45	Transportation Cost	2519	JAN 19, 2020	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	0	System Served	167.77
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	167.77
Total Variable	87575	Total Variable	88	Total Variable	2519		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	76117		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	76117		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	6221		
Net Supply Cost	89201	Net Storage Cost	1519	Net Trans Cost	72415	Total Gas Cost	169356
						Total Revenue	6221
						Net Cost	163135

Avg Cost of Served Demand 9.355 USD/DT
 (System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.843 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.					
ENGIDesign	18102.5	0.0	18102.5	0.0	18102.5	18102.5	0.0	0	167.8	0.0
Total	18102.5	0.0	18102.5	0.0	18102.5	18102.5	0.0	0	167.8	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	3043.5	18300.0	15256.5			4.5302	13788	0	13788	4.5302
ENGniagara	805.8	1170.5	364.7			4.0636	3274	0	3274	4.0636
ENGPNGTS	84.3	84.3	0.0			8.0101	676	0	676	8.0101
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENG3Winter	53.9	91.7	37.8			21.6138	1165	0	1165	21.6138
ENG-Z4	3029.1	3037.8	8.7			4.1329	12519	0	12519	4.1329
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	124.0	250.0	126.0		273.2	13.1755	1633	1500	3133	25.2748
ENG3Summer	42.2	93.5	51.2			21.3898	903	0	903	21.3898

- Draw 0

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 Cost
DliqSummer	21.0	21.0	0.0			12.8995	271	126	397	18.8995
ENGDawn	847.4	2196.0	1348.6			4.5089	3821	0	3821	4.5089
C2C Supply	10177.2	23790.0	13612.8			4.7376	48215	0	48215	4.7376
DRACUT SW	191.9	18300.0	18108.1			6.8243	1310	0	1310	6.8243
Total	18420.4						87575	1626	89201	

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	145.0	145.0	0	0.0	13	100	0.0	0	167	169	2
ENGPropane	77	100	96.1	96.1	0	0.0	77	100	0.0	0	1659	1720	61
ENGFSA	1498	96	1651.1	1633.5	0	17.7	1498	96	0.0	0	6051	6312	261
ENGDominion	103	100	106.5	104.4	0	2.1	103	100	0.0	0	436	454	17
ENGNFG	671	100	678.8	673.5	0	5.4	671	100	5.3	0	2802	2904	103
ENGHON	246	100	228.9	228.9	0	0.0	246	100	0.0	0	1000	1027	27
Total	2608	98	2906.5	2881.3	0	25.1	2608	98	5.3	0	12115	12585	470

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	3043.5	0.0	3043.5	8691.6	5648.1	0	6298	0	6298	2.0693		
ENGTGP2Stg	964.3	28.0	936.3	7904.1	6967.8	66	0	0	66	0.0682		
ENGTGPLong	3350.4	105.9	3244.6	7904.1	4659.6	874	4207	0	5080	1.5163		
ENGTGPBND	805.8	8.5	797.3	1142.7	345.3	66	276	0	342	0.4240		
ENGTGPShort	2634.9	39.0	2595.9	10290.1	7694.2	283	3079	0	3362	1.2760		
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000		
ENIGTS	836.4	8.4	828.0	1830.0	1002.0	4	320	0	324	0.3878		
ENGTGPANE	828.0	8.7	819.3	1464.0	644.7	68	353	0	421	0.5085		
ENGPNGTS	84.3	0.8	83.5	366.0	282.5	0	483	0	483	5.7283		
ENGTGPAES	0.0	0.0	0.0	5490.0	5490.0	0	0	0	0	0.0000		
ENGLNG	145.0	0.0	145.0	8678.6	8533.6	0	0	0	0	0.0000		
ENGPropane	96.1	0.0	96.1	12810.0	12713.9	0	0	0	0	0.0000		
ENG3Truck	96.1	0.0	96.1	2052.3	1956.2	96	0	0	96	1.0000		
ENGTGPDracut	10332.7	44.4	10288.3	17868.2	7580.0	362	5549	4	5907	0.5716		
ENGDawn2Wadd	847.4	11.0	836.4	2196.0	1359.6	17	568	0	585	0.6907		

- Draw 0

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
ENGTGPConLat	33.4	0.8	32.5	2159.5	2126.9	1	19124	216	18909	566.3763
ENGTGPZ4	2079.3	28.9	2050.4	36600.0	34549.6	234	2171	0	2405	1.1566
Z4toTGPLH	1300.1	0.0	1300.1	3660.0	2359.9	0	0	0	0	0.0000
Z4toStg	1729.1	0.0	1729.1	2140.0	410.9	0	0	0	0	0.0000
C2C Trnsprtn	10177.2	3.1	10174.1	13306.2	3132.1	448	33690	6000	28137	2.7647
Total		287.4				2519	76117	6221	72415	1.8387

- Draw 0

NOV 2020 thru OCT 2021

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	91351	Injection Cost	45	Transportation Cost	2530	JAN 19, 2021	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	0	System Served	171.23
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	171.23
Total Variable	91351	Total Variable	88	Total Variable	2531		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	76117		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	76117		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	5858		
Net Supply Cost	92977	Net Storage Cost	1519	Net Trans Cost	72790	Total Gas Cost	173143
						Total Revenue	5858
						Net Cost	167285

Avg Cost of Served Demand 9.457 USD/DT (System Cost/Served Dem.)
 Avg Cost of Gas Purchased 4.992 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.					
ENGIDesign	18308.9	0.0	18308.9	0.0	18308.9	18308.9	0.0	0	171.2	0.0
Total	18308.9	0.0	18308.9	0.0	18308.9	18308.9	0.0	0	171.2	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	3032.0	18250.0	15218.0			4.6669	14150	0	14150	4.6669
ENGNiagara	703.4	1167.3	463.8			4.2653	3000	0	3000	4.2653
ENGPNGTS	84.0	84.0	0.0			8.1062	681	0	681	8.1062
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENG3Winter	57.5	91.7	34.3			21.7611	1251	0	1251	21.7611
ENG-Z4	3020.7	3029.5	8.8			4.2794	12927	0	12927	4.2794
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DliqWinter	122.4	250.0	127.6		274.8	13.3178	1630	1500	3130	25.5764
ENG3Summer	42.2	93.5	51.2			21.5165	909	0	909	21.5165

- Draw 0

NOV 2020 thru OCT 2021

Cost and Flow Summary

Units: MDT, USD (000)

Source (cont)	Supply Summary									
	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
DLiqSummer	21.0	21.0	0.0			13.0305	274	126	400	19.0305
ENGDawn	801.1	2190.0	1388.9			4.6705	3741	0	3741	4.6705
C2C Supply	10502.8	23725.0	13222.2			4.8725	51175	0	51175	4.8725
DRACUT SW	238.8	18250.0	18011.2			6.7557	1613	0	1613	6.7557
Total	18625.9						91351	1626	92977	

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	143.4	143.4	0	0.0	13	100	0.0	0	169	171	2
ENGPropane	77	100	99.7	99.7	0	0.0	77	100	0.0	0	1720	1733	13
ENGFMSA	1498	96	1652.7	1635.0	0	17.7	1498	96	0.0	0	6312	6513	201
ENGDominion	103	100	105.8	103.7	0	2.1	103	100	0.0	0	454	468	15
ENGNFG	671	100	679.8	674.5	0	5.4	671	100	5.3	0	2904	3016	111
ENGHON	246	100	228.7	228.7	0	0.0	246	100	0.0	0	1027	1046	20
Total	2608	98	2910.1	2885.0	0	25.1	2608	98	5.3	0	12585	12947	362

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	3032.0	0.0	3032.0	8667.8	5635.9	0	6298	0	6298	2.0771		
ENGTGP2Stg	965.7	28.0	937.7	7882.5	6944.8	66	0	0	66	0.0682		
ENGTGPLong	3328.9	105.2	3223.7	7882.5	4658.8	868	4207	0	5075	1.5244		
ENGTGPBND	703.4	7.4	696.1	1139.5	443.5	58	276	0	333	0.4738		
ENGTGPShort	2636.6	39.0	2597.6	10262.0	7664.4	283	3079	0	3362	1.2753		
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000		
ENGIGTS	790.7	7.9	782.8	1825.0	1042.2	4	320	0	324	0.4099		
ENGTGPANE	782.8	8.2	774.5	1460.0	685.5	64	353	0	417	0.5331		
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537		
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000		
ENGLNG	143.4	0.0	143.4	8654.9	8511.5	0	0	0	0	0.0000		
ENGPropane	99.7	0.0	99.7	12775.0	12675.3	0	0	0	0	0.0000		
ENGC3Truck	99.7	0.0	99.7	2046.7	1947.0	100	0	0	100	1.0000		
ENGTGPDracut	10662.2	45.8	10616.3	18137.1	7520.8	374	5549	1	5921	0.5554		
ENGDawn2Wadd	801.1	10.4	790.7	2190.0	1399.3	17	568	0	584	0.7294		

- Draw 0

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	
ENGTGPConLat	76.3	1.9	74.5	2668.9	2594.4	3	19124	211	18917	247.7704	
ENGTGPZ4	2066.2	28.7	2037.5	36500.0	34462.5	232	2171	0	2403	1.1632	
Z4toTGPLH	1291.4	0.0	1291.4	3650.0	2358.6	0	0	0	0	0.0000	
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000	
C2C Trnsprtn	10502.8	3.2	10499.7	13581.5	3081.9	462	33690	5646	28506	2.7141	
Total		286.6				2531	76117	5858	72790	1.8291	

- Draw 0

NOV 2021 thru OCT 2022

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	95553	Injection Cost	45	Transportation Cost	2556	JAN 19, 2022	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	0	System Served	174.09
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	174.09
Total Variable	95553	Total Variable	88	Total Variable	2556		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	76117		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	76117		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	5428		
Net Supply Cost	97179	Net Storage Cost	1519	Net Trans Cost	73245	Total Gas Cost	177371
						Total Revenue	5428
						Net Cost	171943

Avg Cost of Served Demand 9.537 USD/DT
 (System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.137 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
ENGIDesign	18598.1	0.0	18598.1	0.0	18598.1	18598.1	0.0	0	174.1	0.0
Total	18598.1	0.0	18598.1	0.0	18598.1	18598.1	0.0	0	174.1	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	3031.2	18250.0	15218.8			4.8030	14559	0	14559	4.8030
ENGNiagara	702.2	1167.3	465.1			4.4067	3094	0	3094	4.4067
ENGPNGTS	84.0	84.0	0.0			8.2453	692	0	692	8.2453
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	66.1	91.7	25.6			21.8809	1447	0	1447	21.8809
ENG-24	3020.7	3029.5	8.8			4.4130	13330	0	13330	4.4130
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	122.8	250.0	127.2		274.4	13.4664	1654	1500	3154	25.6814
ENGC3Summer	36.0	93.5	57.4			21.6354	779	0	779	21.6354

US 17500 Transportation Agreement
 Testimony of Chattopadhyay
 Attachment PKC-2

- Draw 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 CostNet	Average Cost
DLiqSummer	21.0	21.0	0.0			13.1527	276	126	402	19.1527
ENGDawn	800.7	2190.0	1389.3			4.8146	3855	0	3855	4.8146
C2C Supply	10787.3	23725.0	12937.7			5.0200	54152	0	54152	5.0200
DRACUT SW	245.6	18250.0	18004.4			6.9818	1715	0	1715	6.9818
Total	18917.6						95553	1626	97179	

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	143.8	143.8	0	0.0	13	100	0.0	0	171	173	2
ENGPropane	77	100	102.2	102.2	0	0.0	77	100	0.0	0	1733	1743	10
ENGFSMA	1498	96	1650.1	1632.4	0	17.7	1498	96	0.0	0	6513	6676	163
ENGDominion	103	100	105.8	103.7	0	2.1	103	100	0.0	0	468	479	11
ENGNFG	671	100	679.6	674.3	0	5.4	671	100	5.3	0	3016	3095	80
ENGHON	246	100	228.7	228.7	0	0.0	246	100	0.0	0	1046	1100	54
Total	2608	98	2910.2	2885.1	0	25.1	2608	98	5.3	0	12947	13266	320

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	3031.2	0.0	3031.2	8667.8	5636.6	0	6298	0	6298	2.0777		
ENGTGP2Stg	962.9	27.9	935.0	7882.5	6947.6	66	0	0	66	0.0682		
ENGTGPLong	3330.9	105.3	3225.7	7882.5	4656.9	869	4207	0	5075	1.5237		
ENGTGPBND	702.2	7.4	694.8	1139.5	444.7	58	276	0	333	0.4745		
ENGTGPShort	2633.9	39.0	2594.9	10262.0	7667.1	283	3079	0	3362	1.2765		
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000		
ENGIPTS	790.3	7.9	782.4	1825.0	1042.6	4	320	0	324	0.4101		
ENGTGPANE	782.4	8.2	774.2	1460.0	685.8	64	353	0	417	0.5333		
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537		
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000		
ENGLNG	143.8	0.0	143.8	8654.9	8511.1	0	0	0	0	0.0000		
ENGPropane	102.2	0.0	102.2	12775.0	12672.8	0	0	0	0	0.0000		
ENGC3Truck	102.2	0.0	102.2	2046.7	1944.6	102	0	0	102	1.0000		
ENGTGPDracut	10892.9	46.8	10846.1	18250.0	7403.9	382	5549	0	5931	0.5444		
ENGDawn2Wadd	800.7	10.4	790.3	2190.0	1399.7	17	568	0	584	0.7298		

- Draw 0

NOV 2021 thru OCT 2022

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
ENGTGPConLat	136.7	3.4	133.3	3313.7	3180.4	6	19124	204	18926	138.4486
ENGTGPZ4	2068.3	28.7	2039.6	36500.0	34460.4	233	2171	0	2404	1.1621
Z4toTGPLH	1291.4	0.0	1291.4	3650.0	2358.6	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
C2C Trnsprtn	10787.3	3.2	10784.0	13961.9	3177.8	474	33690	5224	28940	2.6828
Total		289.1				2556	76117	5428	73245	1.8142

- Draw 0

NOV 2022 thru OCT 2023

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	99480	Injection Cost	45	Transportation Cost	2577	JAN 19, 2023	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	0	System Served	176.85
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
Total Variable	99480	Other Variable Cost	0	Total Variable	2577	Total	176.85
Demand/Reservation Co	0	Total Variable	88				
Other Fixed Cost	1626	Demand Cost	711	Demand Cost	76117		
Total Fixed	1626	Other Fixed Cost	720	Other Fixed Cost	0		
		Total Fixed	1431	Total Fixed	76117		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	4972		
Net Supply Cost	101106	Net Storage Cost	1519	Net Trans Cost	73721	Total Gas Cost	181318
						Total Revenue	4972
						Net Cost	176346

Avg Cost of Served Demand 9.596 USD/DT (System Cost/Served Dem.)
 Avg Cost of Gas Purchased 5.262 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
ENGIDesign	18895.1	0.0	18895.1	0.0	18895.1	18895.1	0.0	0	176.9	0.0
Total	18895.1	0.0	18895.1	0.0	18895.1	18895.1	0.0	0	176.9	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	3019.0	18250.0	15231.0			4.9197	14853	0	14853	4.9197
ENGniagara	696.0	1167.3	471.3			4.5301	3153	0	3153	4.5301
ENGPNGTS	84.0	84.0	0.0			8.3638	702	0	702	8.3638
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	67.7	91.7	24.1			22.0019	1489	0	1489	22.0019
ENG-Z4	3020.3	3029.5	9.2			4.5277	13675	0	13675	4.5277
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	124.2	250.0	125.8		273.0	13.5847	1687	1500	3187	25.6648
ENGC3Summer	36.6	93.5	56.8			21.7392	796	0	796	21.7392

- Draw 0

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 Cost
DLiqSummer	21.0	21.0	0.0			13.2589	278	126	404	19.2589
ENGDawn	743.5	2190.0	1446.5			4.9591	3687	0	3687	4.9591
C2C Supply	11106.2	23725.0	12618.8			5.1445	57136	0	57136	5.1445
DRACUT SW	296.5	18250.0	17953.5			6.8270	2024	0	2024	6.8270
Total	19215.0						99480	1626	101106	

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	145.2	145.2	0	0.0	13	100	0.0	0	173	174	1
ENGPropane	77	100	104.3	104.3	0	0.0	77	100	0.0	0	1743	1752	8
ENGFSA	1498	96	1648.1	1630.5	0	17.6	1498	96	0.0	0	6676	6902	226
ENGDominion	103	100	103.4	101.4	0	2.0	103	100	0.0	0	479	491	12
ENGNFG	671	100	679.4	674.0	0	5.4	671	100	5.3	0	3095	3119	24
ENGHON	246	100	223.6	223.6	0	0.0	246	100	0.0	0	1100	1113	12
Total	2608	98	2903.9	2878.9	0	25.0	2608	98	5.3	0	13266	13550	284

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	3019.0	0.0	3019.0	8667.8	5648.8	0	6298	0	6298	2.0860		
ENGTGP2Stg	952.8	27.6	925.2	7882.5	6957.4	65	0	0	65	0.0682		
ENGTGPLong	3328.5	105.2	3223.4	7882.5	4659.2	868	4207	0	5075	1.5246		
ENGTGPBND	696.0	7.3	688.7	1139.5	450.8	57	276	0	333	0.4780		
ENGTGPShort	2624.1	38.8	2585.3	10262.0	7676.7	282	3079	0	3361	1.2808		
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000		
ENGIGTS	733.8	7.3	726.4	1825.0	1098.6	3	320	0	324	0.4414		
ENGTGPANE	726.4	7.6	718.8	1460.0	741.2	60	353	0	413	0.5681		
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537		
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000		
ENGLNG	145.2	0.0	145.2	8654.9	8509.7	0	0	0	0	0.0000		
ENGPropane	104.3	0.0	104.3	12775.0	12670.7	0	0	0	0	0.0000		
ENGC3Truck	104.3	0.0	104.3	2046.7	1942.5	104	0	0	104	1.0000		
ENGTGPDracut	11197.4	48.1	11149.2	18250.0	7100.8	392	5549	0	5941	0.5306		
ENGDawn2Wadd	743.5	9.7	733.8	2190.0	1456.2	15	568	0	583	0.7844		

- Draw 0

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	
ENGTGPConLat	202.1	4.9	197.1	4089.5	3892.3	9	19124	196	18936	93.7120	
ENGTGPZ4	2066.2	28.7	2037.5	36500.0	34462.5	232	2171	0	2403	1.1632	
Z4toTGPLH	1291.0	0.0	1291.0	3650.0	2359.0	0	0	0	0	0.0000	
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000	
C2C Trnsprtn	11106.2	3.3	11102.9	14416.3	3313.4	489	33690	4776	29402	2.6473	
Total		289.6				2577	76117	4972	73721	1.8045	

- Draw 0

NOV 2023 thru OCT 2024

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	103634	Injection Cost	45	Transportation Cost	2610	JAN 19, 2024	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	1	System Served	179.79
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	179.79
Total Variable	103634	Total Variable	88	Total Variable	2610		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	76117		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	76117		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	4157		
Net Supply Cost	105260	Net Storage Cost	1518	Net Trans Cost	74570	Total Gas Cost	185506
						Total Revenue	4157
						Net Cost	181349

Avg Cost of Served Demand 9.598 USD/DT
 (System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.356 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
ENGIDesign	19326.8	0.0	19326.8	0.0	19326.8	19326.8	0.0	0	179.8	0.0
Total	19326.8	0.0	19326.8	0.0	19326.8	19326.8	0.0	0	179.8	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	3026.4	18300.0	15273.6			5.0151	15177	0	15177	5.0151
ENGNiagara	694.4	1170.5	476.1			4.6335	3217	0	3217	4.6335
ENGPNGTS	84.3	84.3	0.0			8.4814	715	0	715	8.4814
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	59.4	91.7	32.3			22.0775	1312	0	1312	22.0775
ENG-Z4	3028.4	3037.8	9.4			4.6164	13981	0	13981	4.6164
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	120.3	250.0	129.7		276.8	13.6967	1648	1500	3148	26.1604
ENGC3Summer	36.3	93.5	57.1			21.8055	792	0	792	21.8055

2014-2020 Transportation Agreement
 Testimony of Chattopadhyay
 Attachment PKC-2

- Draw 0

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
DLiqSummer	21.0	21.0	0.0			13.3277	280	126	406	19.3277
ENGDawn	747.1	2196.0	1448.9			5.0661	3785	0	3785	5.0661
C2C Supply	11541.4	23790.0	12248.6			5.2602	60710	0	60710	5.2602
DRACUT SW	292.7	18300.0	18007.3			6.8889	2017	0	2017	6.8889
Total	19651.8						103634	1626	105260	

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	141.3	141.3	0	0.0	13	100	0.0	0	174	175	1
ENGPropane	77	100	95.7	95.7	0	0.0	77	100	0.0	0	1752	1757	6
ENGFMSA	1498	96	1640.6	1623.1	0	17.6	1498	96	0.0	0	6902	6945	43
ENGDominion	103	100	105.5	103.5	0	2.1	103	100	0.0	0	491	498	7
ENGNFG	671	100	676.9	671.5	0	5.3	671	100	5.3	0	3119	3210	90
ENGHON	246	100	225.8	225.8	0	0.0	246	100	0.0	0	1113	1147	34
Total	2608	98	2885.9	2860.9	0	25.0	2608	98	5.3	0	13550	13732	182

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	3026.4	0.0	3026.4	8691.6	5665.2	0	6298	0	6298	2.0810		
ENGTGP2Stg	947.0	27.5	919.5	7904.1	6984.6	65	0	0	65	0.0682		
ENGTGPLong	3349.6	105.8	3243.8	7904.1	4660.4	874	4207	0	5080	1.5166		
ENGTGPBND	694.4	7.3	687.1	1142.7	455.6	57	276	0	333	0.4789		
ENGTGPShort	2618.5	38.8	2579.8	10290.1	7710.3	281	3079	0	3360	1.2833		
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000		
ENGIGTS	737.4	7.4	730.0	1830.0	1100.0	4	320	0	324	0.4392		
ENGTGPANE	730.0	7.7	722.3	1464.0	741.7	60	353	0	413	0.5657		
ENGPNGTS	84.3	0.8	83.5	366.0	282.5	0	483	0	483	5.7283		
ENGTGPAES	0.0	0.0	0.0	5490.0	5490.0	0	0	0	0	0.0000		
ENGLNG	141.3	0.0	141.3	8678.6	8537.2	0	0	0	0	0.0000		
ENGPropane	95.7	0.0	95.7	12810.0	12714.3	0	0	0	0	0.0000		
ENGC3Truck	95.7	0.0	95.7	2052.3	1956.6	96	0	0	96	1.0000		
ENGTGPDracut	11502.7	49.5	11453.2	18300.0	6846.8	403	5549	0	5952	0.5174		
ENGDawn2Wadd	747.1	9.7	737.4	2196.0	1458.6	15	568	0	583	0.7807		

- Draw 0

NOV 2023 thru OCT 2024

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
ENGTGPConLat	327.9	7.9	320.0	4840.6	4520.5	15	19124	189	18949	57.7808
ENGTGPZ4	2079.4	28.9	2050.5	36600.0	34549.5	234	2171	0	2405	1.1565
Z4toTGPLH	1299.1	0.0	1299.1	3660.0	2360.9	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
C2C Trnsprtn	11541.4	3.5	11537.9	15152.1	3614.2	508	33690	3967	30230	2.6193
Total		294.7				2610	76117	4157	74570	1.7862

- Draw 0

NOV 2024 thru OCT 2025

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	105975	Injection Cost	45	Transportation Cost	2626	JAN 19, 2025	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	1	System Served	182.42
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
Total Variable	105975	Other Variable Cost	0	Total Variable	2627	Total	182.42
Demand/Reservation Co	0	Total Variable	88				
Other Fixed Cost	1626	Demand Cost	711	Demand Cost	76117		
Total Fixed	1626	Other Fixed Cost	720	Other Fixed Cost	0		
		Total Fixed	1431	Total Fixed	76117		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	4094		
Net Supply Cost	107601	Net Storage Cost	1519	Net Trans Cost	74650	Total Gas Cost	187863
						Total Revenue	4094
						Net Cost	183769

Avg Cost of Served Demand 9.653 USD/DT (System Cost/Served Dem.)
 Avg Cost of Gas Purchased 5.438 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.					
ENGIDesign	19462.2	0.0	19462.2	0.0	19462.2	19462.2	0.0	0	182.4	0.0
Total	19462.2	0.0	19462.2	0.0	19462.2	19462.2	0.0	0	182.4	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	3018.0	18250.0	15232.0			5.0845	15345	0	15345	5.0845
ENGNiagara	691.0	1167.3	476.3			4.7057	3252	0	3252	4.7057
ENGPNGTS	84.0	84.0	0.0			8.5309	716	0	716	8.5309
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENG3Winter	65.5	91.7	26.3			22.2132	1454	0	1454	22.2132
ENG-Z4	3020.1	3029.5	9.4			4.6789	14131	0	14131	4.6789
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	124.8	250.0	125.2		272.3	13.7797	1720	1500	3220	25.7965
ENG3Summer	42.2	93.5	51.2			21.8516	923	0	923	21.8516

- Draw 0

NOV 2024 thru OCT 2025

Cost and Flow Summary

Units: MDT, USD (000)

Source (cont)	Supply Summary			Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net CostNet	Average Cost
	Total Take	Max Take	Surplus							
DLiqSummer	21.0	21.0	0.0			13.3773	281	126	407	19.3773
ENGDawn	743.8	2190.0	1446.2			5.1429	3825	0	3825	5.1429
C2C Supply	11676.8	23725.0	12048.2			5.3248	62176	0	62176	5.3248
DRACUT SW	300.6	18250.0	17949.4			7.1558	2151	0	2151	7.1558
Total	19787.9						105975	1626	107601	

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	145.8	145.8	0	0.0	13	100	0.0	0	175	176	1
ENGPropane	77	100	107.7	107.7	0	0.0	77	100	0.0	0	1757	1762	5
ENGFSMA	1498	96	1644.1	1626.5	0	17.6	1498	96	0.0	0	6945	7016	71
ENGDominion	103	100	105.8	103.8	0	2.1	103	100	0.0	0	498	503	5
ENGNFG	671	100	678.2	672.8	0	5.4	671	100	5.3	0	3210	3247	38
ENGHON	246	100	224.7	224.7	0	0.0	246	100	0.0	0	1147	1163	16
Total	2608	98	2906.3	2881.2	0	25.0	2608	98	5.3	0	13732	13867	135

Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPProd	3018.0	0.0	3018.0	8667.8	5649.8	0	6298	0	6298	2.0867
ENGTGP2Stg	951.0	27.6	923.4	7882.5	6959.1	65	0	0	65	0.0682
ENGTGPLong	3329.1	105.2	3223.9	7882.5	4658.6	868	4207	0	5075	1.5244
ENGTGPBND	691.0	7.3	683.7	1139.5	455.8	57	276	0	332	0.4809
ENGTGPShort	2622.4	38.8	2583.6	10262.0	7678.4	282	3079	0	3361	1.2816
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
ENGIGTS	734.1	7.3	726.8	1825.0	1098.2	3	320	0	324	0.4412
ENGTGPANE	726.8	7.6	719.1	1460.0	740.9	60	353	0	413	0.5679
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000
ENGLNG	145.8	0.0	145.8	8654.9	8509.1	0	0	0	0	0.0000
ENGPropane	107.7	0.0	107.7	12775.0	12667.3	0	0	0	0	0.0000
ENGC3Truck	107.7	0.0	107.7	2046.7	1939.0	108	0	0	108	1.0000
ENGTGPDracut	11608.4	49.9	11558.5	18250.0	6691.5	407	5549	0	5956	0.5130
ENGDawn2Wadd	743.8	9.7	734.1	2190.0	1455.9	15	568	0	583	0.7840

- Draw 0

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
ENGTGPConLat	365.6	8.9	356.7	5499.3	5142.7	16	19124	182	18958	51.8612
ENGTGPZ4	2067.0	28.7	2038.3	36500.0	34461.7	232	2171	0	2403	1.1628
Z4toTGPLH	1290.8	0.0	1290.8	3650.0	2359.2	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
C2C Trnsprtn	11676.8	3.5	11673.3	15196.2	3522.9	514	33690	3912	30292	2.5942
Total		295.3				2627	76117	4094	74650	1.7774

- Draw 0

NOV 2025 thru OCT 2026

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	108537	Injection Cost	45	Transportation Cost	2649	JAN 19, 2026	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	1	System Served	184.77
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	184.77
Total Variable	108537	Total Variable	88	Total Variable	2650		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	76117		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	76117		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	3707		
Net Supply Cost	110163	Net Storage Cost	1519	Net Trans Cost	75060	Total Gas Cost	190448
						Total Revenue	3707
						Net Cost	186741

Avg Cost of Served Demand 9.656 USD/DT (System Cost/Served Dem.)
 Avg Cost of Gas Purchased 5.494 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
ENGIDesign	19723.5	0.0	19723.5	0.0	19723.5	19723.5	0.0	0	184.8	0.0
Total	19723.5	0.0	19723.5	0.0	19723.5	19723.5	0.0	0	184.8	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	3020.4	18250.0	15229.6			5.1351	15510	0	15510	5.1351
ENGNiagara	693.4	1167.3	473.8			4.7552	3297	0	3297	4.7552
ENGFNGTS	84.0	84.0	0.0			8.5818	721	0	721	8.5818
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENG3Winter	73.0	91.7	18.7			22.2347	1624	0	1624	22.2347
ENG-Z4	3020.2	3029.5	9.3			4.7291	14283	0	14283	4.7291
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DliqWinter	124.1	250.0	125.9		273.1	13.8327	1717	1500	3217	25.9197
ENG3Summer	36.0	93.5	57.4			21.9034	789	0	789	21.9034

- Draw 0

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
DliqSummer	21.0	21.0	0.0			13.4261	282	126	408	19.4261
ENGDawn	745.2	2190.0	1444.8			5.1937	3870	0	3870	5.1937
C2C Supply	11922.8	23725.0	11802.2			5.3842	64195	0	64195	5.3842
DRACUT SW	311.9	18250.0	17938.1			7.2113	2249	0	2249	7.2113
Total	20052.0						108537	1626	110163	

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	145.1	145.1	0	0.0	13	100	0.0	0	176	176	1
ENGPropane	77	100	109.0	109.0	0	0.0	77	100	0.0	0	1762	1766	4
ENGFSA	1498	96	1642.9	1625.4	0	17.6	1498	96	0.0	0	7016	7094	77
ENGDominion	103	100	105.8	103.7	0	2.1	103	100	0.0	0	503	509	6
ENGNFG	671	100	678.1	672.7	0	5.4	671	100	5.3	0	3247	3276	29
ENGHON	246	100	225.5	225.5	0	0.0	246	100	0.0	0	1163	1176	13
Total	2608	98	2906.4	2881.4	0	25.0	2608	98	5.3	0	13867	13997	130

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	3020.4	0.0	3020.4	8667.8	5647.4	0	6298	0	6298	2.0851		
ENGTGP2Stg	950.6	27.6	923.0	7882.5	6959.6	65	0	0	65	0.0682		
ENGTGPLong	3332.0	105.3	3226.7	7882.5	4655.9	869	4207	0	5076	1.5233		
ENGTGPBND	693.4	7.3	686.2	1139.5	453.4	57	276	0	332	0.4794		
ENGTGPShort	2622.0	38.8	2583.2	10262.0	7678.8	282	3079	0	3361	1.2818		
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000		
ENIGTS	735.5	7.4	728.2	1825.0	1096.8	3	320	0	324	0.4403		
ENGTGPANE	728.2	7.6	720.5	1460.0	739.5	60	353	0	413	0.5669		
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537		
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000		
ENGLNG	145.1	0.0	145.1	8654.9	8509.8	0	0	0	0	0.0000		
ENGPropane	109.0	0.0	109.0	12775.0	12666.0	0	0	0	0	0.0000		
ENGC3Truck	109.0	0.0	109.0	2046.7	1937.7	109	0	0	109	1.0000		
ENGTGPDracut	11795.5	50.7	11744.8	18250.0	6505.2	413	5549	0	5962	0.5055		
ENGDawn2Wadd	745.2	9.7	735.5	2190.0	1454.5	15	568	0	583	0.7826		

- Draw 0

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
ENGTGPConLat	435.6	10.6	424.9	6135.1	5710.1	20	19124	176	18967	43.5478
ENGTGPZ4	2069.9	28.8	2041.1	36500.0	34458.9	233	2171	0	2404	1.1613
Z4toTGPLH	1290.8	0.0	1290.8	3650.0	2359.2	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
C2C Trnsprtn	11922.8	3.6	11919.2	15519.8	3600.6	524	33690	3531	30683	2.5735
Total		298.2				2650	76117	3707	75060	1.7654

- Draw 0

NOV 2026 thru OCT 2027

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	111114	Injection Cost	45	Transportation Cost	2671	JAN 19, 2027	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	1	System Served	187.30
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	187.30
Total Variable	111114	Total Variable	88	Total Variable	2672		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	76117		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	76117		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	3269		
Net Supply Cost	112740	Net Storage Cost	1518	Net Trans Cost	75519	Total Gas Cost	193047
						Total Revenue	3269
						Net Cost	189778

Avg Cost of Served Demand 9.658 USD/DT (System Cost/Served Dem.)
 Avg Cost of Gas Purchased 5.548 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.					
ENGIDesign	19988.0	0.0	19988.0	0.0	19988.0	19988.0	0.0	0	187.3	0.0
Total	19988.0	0.0	19988.0	0.0	19988.0	19988.0	0.0	0	187.3	0.0

Source	Take		Surplus	Take Under Daily Min	Take Under Other Min	Av Comm Cost	Total Var Cost	Total Fix Cost	Net Cost	Average Net Cost
	Total	Max								
ENGUSGC	3015.2	18250.0	15234.8			5.1868	15639	0	15639	5.1868
ENGNiagara	690.2	1167.3	477.1			4.8089	3319	0	3319	4.8089
ENGPNGTS	84.0	84.0	0.0			8.6332	725	0	725	8.6332
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENG3Winter	73.2	91.7	18.5			22.2874	1632	0	1632	22.2874
ENG-Z4	3020.1	3029.5	9.4			4.7798	14436	0	14436	4.7798
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	123.0	250.0	127.0		274.1	13.8862	1709	1500	3209	26.0770
ENG3Summer	36.0	93.5	57.4			21.9524	791	0	791	21.9524

- Draw 0

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 CostNet	Average Cost
DLiqSummer	21.0	21.0	0.0			13.4754	283	126	409	19.4754
ENGDawn	744.7	2190.0	1445.3			5.2461	3907	0	3907	5.2461
C2C Supply	12198.5	23725.0	11526.5			5.4413	66376	0	66376	5.4413
DRACUT SW	313.4	18250.0	17936.6			7.3373	2299	0	2299	7.3373
Total	20319.4						111114	1626	112740	

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	144.0	144.0	0	0.0	13	100	0.0	0	176	177	1
ENGPropane	77	100	109.2	109.2	0	0.0	77	100	0.0	0	1766	1770	4
ENGFSA	1498	96	1641.4	1623.8	0	17.6	1498	96	0.0	0	7094	7175	81
ENGDominion	103	100	102.9	100.9	0	2.0	103	100	0.0	0	509	514	5
ENGNFG	671	100	677.8	672.5	0	5.4	671	100	5.3	0	3276	3304	27
ENGHON	246	100	226.0	226.0	0	0.0	246	100	0.0	0	1176	1188	12
Total	2608	98	2901.4	2876.5	0	24.9	2608	98	5.3	0	13997	14127	130

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	3015.2	0.0	3015.2	8667.8	5652.6	0	6298	0	6298	2.0887		
ENGTGP2Stg	946.3	27.4	918.9	7882.5	6963.7	65	0	0	65	0.0682		
ENGTGPLong	3331.0	105.3	3225.7	7882.5	4656.8	869	4207	0	5075	1.5237		
ENGTGPBND	690.2	7.2	683.0	1139.5	456.6	57	276	0	332	0.4813		
ENGTGPShort	2617.9	38.7	2579.2	10262.0	7682.8	281	3079	0	3360	1.2836		
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000		
ENGIGTS	735.1	7.4	727.7	1825.0	1097.3	3	320	0	324	0.4406		
ENGTGPANE	727.7	7.6	720.1	1460.0	739.9	60	353	0	413	0.5672		
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537		
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000		
ENGLNG	144.0	0.0	144.0	8654.9	8510.8	0	0	0	0	0.0000		
ENGPropane	109.2	0.0	109.2	12775.0	12665.8	0	0	0	0	0.0000		
ENGC3Truck	109.2	0.0	109.2	2046.7	1937.5	109	0	0	109	1.0000		
ENGTGPDracut	11966.0	51.5	11914.5	18250.0	6335.5	419	5549	0	5968	0.4988		
ENGDawn2Wadd	744.7	9.7	735.1	2190.0	1454.9	15	568	0	583	0.7831		

- Draw 0

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	
ENGTGPConLat	542.2	13.1	529.1	6811.3	6282.2	24	19124	169	18979	35.0012	
ENGTGPZ4	2068.9	28.8	2040.1	36500.0	34459.9	233	2171	0	2404	1.1618	
Z4toTGPLH	1290.8	0.0	1290.8	3650.0	2359.2	0	0	0	0	0.0000	
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000	
C2C Trnsprtn	12198.5	3.7	12194.8	15928.7	3733.9	537	33690	3100	31126	2.5516	
Total		301.2				2672	76117	3269	75519	1.7542	

- Draw 0

NOV 2027 thru OCT 2028

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	114692	Injection Cost	45	Transportation Cost	2712	JAN 19, 2028	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	1	System Served	189.94
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	189.94
Total Variable	114692	Total Variable	88	Total Variable	2713		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	76117		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	76117		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	2782		
Net Supply Cost	116318	Net Storage Cost	1518	Net Trans Cost	76047	Total Gas Cost	196666
						Total Revenue	2782
						Net Cost	193884

Avg Cost of Served Demand 9.646 USD/DT (System Cost/Served Dem.)
 Avg Cost of Gas Purchased 5.612 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
ENGIDesign	20388.9	0.0	20388.9	0.0	20388.9	20388.9	0.0	0	189.9	0.0
Total	20388.9	0.0	20388.9	0.0	20388.9	20388.9	0.0	0	189.9	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	3033.2	18300.0	15266.8			5.2393	15892	0	15892	5.2393
ENGNiagara	691.4	1170.5	479.1			4.8634	3363	0	3363	4.8634
ENGPNGTS	84.3	84.3	0.0			8.7062	734	0	734	8.7062
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	75.1	91.7	16.6			22.3420	1678	0	1678	22.3420
ENG-Z4	3028.4	3037.8	9.4			4.8321	14634	0	14634	4.8321
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	127.0	250.0	123.0		270.1	13.9408	1771	1500	3271	25.7497
ENGC3Summer	36.6	93.5	56.8			22.0019	806	0	806	22.0019

- Draw 0

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
DliqSummer	21.0	21.0	0.0			13.5251	284	126	410	19.5251
ENGDawn	750.7	2196.0	1445.3			5.2987	3978	0	3978	5.2987
C2C Supply	12560.6	23790.0	11229.4			5.5089	69195	0	69195	5.5089
DRACUT SW	317.1	18300.0	17982.9			7.4366	2358	0	2358	7.4366
Total	20725.5						114692	1626	116318	

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	148.0	148.0	0	0.0	13	100	0.0	0	177	178	1
ENGPropane	77	100	111.7	111.7	0	0.0	77	100	0.0	0	1770	1774	4
ENGFSA	1498	96	1639.2	1621.6	0	17.5	1498	96	0.0	0	7175	7250	75
ENGDominion	103	100	105.5	103.4	0	2.1	103	100	0.0	0	514	518	5
ENGNFG	671	100	677.4	672.0	0	5.4	671	100	5.3	0	3304	3340	36
ENGHON	246	100	229.0	229.0	0	0.0	246	100	0.0	0	1188	1201	12
Total	2608	98	2910.8	2885.8	0	24.9	2608	98	5.3	0	14127	14260	133

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	3033.2	0.0	3033.2	8691.6	5658.4	0	6298	0	6298	2.0763		
ENGTGP2Stg	949.2	27.5	921.7	7904.1	6982.4	65	0	0	65	0.0682		
ENGTGPLong	3354.1	106.0	3248.1	7904.1	4656.1	875	4207	0	5081	1.5150		
ENGTGPBND	691.4	7.3	684.1	1142.7	458.5	57	276	0	332	0.4806		
ENGTGPShort	2620.8	38.8	2582.0	10290.1	7708.1	281	3079	0	3361	1.2823		
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000		
ENGIGTS	741.0	7.4	733.6	1830.0	1096.4	4	320	0	324	0.4371		
ENGTGPANE	733.6	7.7	725.9	1464.0	738.1	60	353	0	413	0.5634		
ENGPNGTS	84.3	0.8	83.5	366.0	282.5	0	483	0	483	5.7283		
ENGTGPAES	0.0	0.0	0.0	5490.0	5490.0	0	0	0	0	0.0000		
ENGLNG	148.0	0.0	148.0	8678.6	8530.6	0	0	0	0	0.0000		
ENGPropane	111.7	0.0	111.7	12810.0	12698.3	0	0	0	0	0.0000		
ENGC3Truck	111.7	0.0	111.7	2052.3	1940.6	112	0	0	112	1.0000		
ENGTGPDracut	12213.8	52.5	12161.3	18300.0	6138.7	428	5549	0	5977	0.4894		
ENGDawn2Wadd	750.7	9.8	741.0	2196.0	1455.0	15	568	0	583	0.7770		

- Draw 0

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
ENGTGPConLat	660.1	15.8	644.3	7552.8	6908.6	30	19124	162	18991	28.7715
ENGTGPZ4	2083.9	29.0	2055.0	36600.0	34545.0	234	2171	0	2405	1.1543
Z4toTGPLH	1299.1	0.0	1299.1	3660.0	2360.9	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
C2C Trnsprtn	12560.6	3.8	12556.8	16418.9	3862.1	552	33690	2620	31622	2.5176
Total		306.3				2713	76117	2782	76047	1.7332

- Draw 0

NOV 2028 thru OCT 2029

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	116892	Injection Cost	45	Transportation Cost	2730	JAN 19, 2029	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	1	System Served	192.34
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	192.34
Total Variable	116892	Total Variable	88	Total Variable	2731		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	76117		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	76117		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	2742		
Net Supply Cost	118518	Net Storage Cost	1519	Net Trans Cost	76105	Total Gas Cost	198884
						Total Revenue	2742
						Net Cost	196142

Avg Cost of Served Demand 9.685 USD/DT
 (System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.678 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
ENGIDesign	20534.6	0.0	20534.6	0.0	20534.6	20534.6	0.0	0	192.3	0.0
Total	20534.6	0.0	20534.6	0.0	20534.6	20534.6	0.0	0	192.3	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	3023.6	18250.0	15226.4			5.2907	15997	0	15997	5.2907
ENGniagara	688.1	1167.3	479.2			4.9151	3382	0	3382	4.9151
ENGPNGTS	84.0	84.0	0.0			8.7377	734	0	734	8.7377
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	89.8	91.7	1.9			22.4138	2013	0	2013	22.4138
ENG-Z4	3020.1	3029.5	9.4			4.8827	14746	0	14746	4.8827
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	134.7	250.0	115.3		262.5	13.9934	1884	1500	3384	25.1327
ENGC3Summer	34.5	93.5	58.9			22.0479	762	0	762	22.0479

- Draw 0

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
DLiqSummer	21.0	21.0	0.0			13.5754	285	126	411	19.5754
ENGDawn	748.5	2190.0	1441.5			5.3500	4004	0	4004	5.3500
C2C Supply	12702.8	23725.0	11022.2			5.5572	70593	0	70593	5.5572
DRACUT SW	325.3	18250.0	17924.7			7.6608	2492	0	2492	7.6608
Total	20872.3						116892	1626	118518	

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	155.7	155.7	0	0.0	13	100	0.0	0	178	178	1
ENGPropane	77	100	124.4	124.4	0	0.0	77	100	0.0	0	1774	1779	5
ENGFSMA	1498	96	1642.8	1625.2	0	17.6	1498	96	0.0	0	7250	7340	91
ENGDominion	103	100	104.0	101.9	0	2.0	103	100	0.0	0	518	523	4
ENGNFG	671	100	679.4	674.0	0	5.4	671	100	5.3	0	3340	3378	38
ENGHON	246	100	227.5	227.5	0	0.0	246	100	0.0	0	1201	1195	-5
Total	2608	98	2933.7	2908.7	0	25.0	2608	98	5.3	0	14260	14393	133

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	3023.6	0.0	3023.6	8667.8	5644.3	0	6298	0	6298	2.0829		
ENGTGP2Stg	952.0	27.6	924.4	7882.5	6958.2	65	0	0	65	0.0682		
ENGTGPLong	3333.6	105.3	3228.3	7882.5	4654.2	869	4207	0	5076	1.5226		
ENGTGPBND	688.1	7.2	680.8	1139.5	458.7	56	276	0	332	0.4826		
ENGTGPShort	2623.4	38.8	2584.5	10262.0	7677.4	282	3079	0	3361	1.2812		
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000		
ENGIGTS	738.7	7.4	731.3	1825.0	1093.7	4	320	0	324	0.4384		
ENGTGPANE	731.3	7.7	723.7	1460.0	736.3	60	353	0	413	0.5648		
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537		
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000		
ENGLNG	155.7	0.0	155.7	8654.9	8499.2	0	0	0	0	0.0000		
ENGPropane	124.4	0.0	124.4	12775.0	12650.6	0	0	0	0	0.0000		
ENG3Truck	124.4	0.0	124.4	2046.7	1922.4	124	0	0	124	1.0000		
ENGTGPDracut	12307.6	52.9	12254.7	18250.0	5995.3	431	5549	0	5980	0.4859		
ENGDawn2Wadd	748.5	9.7	738.7	2190.0	1451.3	15	568	0	583	0.7793		

- Draw 0

NOV 2028 thru OCT 2029

Cost and Flow Summary

Units: MDT, USD (000)

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 Transportation Summary
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Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPConLat	716.7	17.2	699.5	8169.4	7469.9	32	19124	156	19000	26.5097
ENGTGPZ4	2071.6	28.8	2042.8	36500.0	34457.2	233	2171	0	2404	1.1604
Z4toTGPLH	1290.8	0.0	1290.8	3650.0	2359.2	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
C2C Trnsprtn	12702.8	3.8	12699.0	16447.3	3748.2	559	33690	2587	31662	2.4925
Total		307.4				2731	76117	2742	76105	1.7239

- Draw 0

NOV 2029 thru OCT 2030

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	120108	Injection Cost	45	Transportation Cost	2771	JAN 19, 2030	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	2	System Served	194.85
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	194.85
Total Variable	120108	Total Variable	88	Total Variable	2772		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	76117		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	76117		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	2700		
Net Supply Cost	121734	Net Storage Cost	1519	Net Trans Cost	76189	Total Gas Cost	202142
						Total Revenue	2700
						Net Cost	199442

Avg Cost of Served Demand 9.718 USD/DT (System Cost/Served Dem.)
 Avg Cost of Gas Purchased 5.758 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
ENGIDesign	20800.6	0.0	20800.6	0.0	20800.6	20800.6	0.0	0	194.9	0.0
Total	20800.6	0.0	20800.6	0.0	20800.6	20800.6	0.0	0	194.9	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	3034.2	18250.0	15215.8			5.3432	16212	0	16212	5.3432
ENGNiagara	687.0	1167.3	480.3			4.9691	3414	0	3414	4.9691
ENGPNGTS	84.0	84.0	0.0			8.7907	738	0	738	8.7907
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGCSWinter	91.7	91.7	0.0			22.5737	2071	0	2071	22.5737
ENG-Z4	3020.1	3029.5	9.4			4.9350	14904	0	14904	4.9350
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	148.3	250.0	101.7		248.8	14.0466	2083	1500	3583	24.1597
ENGCSSummer	53.7	93.5	39.7			22.1162	1189	0	1189	22.1162

- Draw 0

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
DLiqSummer	21.0	21.0	0.0			13.6261	286	126	412	19.6261
ENGDawn	750.7	2190.0	1439.3			5.4023	4056	0	4056	5.4023
C2C Supply	12918.1	23725.0	10806.9			5.6137	72518	0	72518	5.6137
DRACUT SW	332.4	18250.0	17917.6			7.9343	2637	0	2637	7.9343
Total	21141.3						120108	1626	121734	

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	169.3	169.3	0	0.0	13	100	0.0	0	178	179	1
ENGPropane	77	100	145.5	145.5	0	0.0	77	100	0.0	0	1779	1784	5
ENGFSA	1498	96	1646.5	1628.9	0	17.6	1498	96	0.0	0	7340	7453	113
ENGDominion	103	100	105.8	103.7	0	2.1	103	100	0.0	0	523	529	7
ENGNFG	671	100	682.0	676.6	0	5.4	671	100	5.3	0	3378	3369	-9
ENGHON	246	100	227.7	227.7	0	0.0	246	100	0.0	0	1195	1213	18
Total	2608	98	2976.8	2951.8	0	25.1	2608	98	5.3	0	14393	14528	135

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	3034.2	0.0	3034.2	8667.8	5633.7	0	6298	0	6298	2.0756		
ENGTGP2Stg	960.6	27.9	932.7	7882.5	6949.8	65	0	0	65	0.0682		
ENGTGPLong	3335.6	105.4	3230.2	7882.5	4652.4	870	4207	0	5076	1.5219		
ENGTGPBND	687.0	7.2	679.8	1139.5	459.7	56	276	0	332	0.4832		
ENGTGPShort	2631.6	38.9	2592.7	10262.0	7669.3	283	3079	0	3362	1.2775		
ENGDMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000		
ENIGTS	741.0	7.4	733.6	1825.0	1091.4	4	320	0	324	0.4371		
ENGTGPANE	733.6	7.7	725.9	1460.0	734.1	60	353	0	413	0.5634		
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537		
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000		
ENGLNG	169.3	0.0	169.3	8654.9	8485.6	0	0	0	0	0.0000		
ENGPropane	145.5	0.0	145.5	12775.0	12629.5	0	0	0	0	0.0000		
ENGC3Truck	145.5	0.0	145.5	2046.7	1901.2	145	0	0	145	1.0000		
ENGTGPDracut	12463.6	53.6	12410.0	18250.0	5840.0	437	5549	0	5986	0.4802		
ENGDawn2Wadd	750.7	9.8	741.0	2190.0	1449.0	15	568	0	583	0.7770		

- Draw 0

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
ENGTGPConLat	783.0	18.8	764.2	8843.3	8079.1	35	19124	149	19010	24.2780
ENGTGPZ4	2073.6	28.8	2044.8	36500.0	34455.2	233	2171	0	2404	1.1595
Z4toTGPLH	1290.8	0.0	1290.8	3650.0	2359.2	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
C2C Trnsprtn	12918.1	3.9	12914.2	16546.6	3632.4	568	33690	2551	31706	2.4544
Total		310.2				2772	76117	2700	76189	1.7053

- Draw 0

NOV 2030 thru OCT 2031

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	123764	Injection Cost	45	Transportation Cost	2793	JAN 19, 2031	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	2	System Served	197.89
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	197.89
Total Variable	123764	Total Variable	88	Total Variable	2795		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	76117		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	76117		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	2660		
Net Supply Cost	125390	Net Storage Cost	1519	Net Trans Cost	76251	Total Gas Cost	205820
						Total Revenue	2660
						Net Cost	203160

Avg Cost of Served Demand 9.760 USD/DT
 (System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.851 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.					
ENGIDesign	21087.7	0.0	21087.7	0.0	21087.7	21087.7	0.0	0	197.9	0.0
Total	21087.7	0.0	21087.7	0.0	21087.7	21087.7	0.0	0	197.9	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	3042.4	18250.0	15207.6			5.3964	16418	0	16418	5.3964
ENGNiagara	687.6	1167.3	479.7			5.0224	3453	0	3453	5.0224
ENGPNGTS	84.0	84.0	0.0			8.8442	743	0	743	8.8442
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	91.7	91.7	0.0			22.6346	2077	0	2077	22.6346
ENG-Z4	3020.1	3029.5	9.4			4.9877	15064	0	15064	4.9877
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	165.2	250.0	84.8		232.0	14.1019	2329	1500	3829	23.1840
ENGC3Summer	53.7	93.5	39.7			22.1673	1191	0	1191	22.1673

- Draw 0

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/Net	Average Cost	
DLiqSummer	21.0	21.0	0.0			13.6774	287	126	413	19.6774	
ENGDawn	754.0	2190.0	1436.0			5.4546	4113	0	4113	5.4546	
C2C Supply	13142.0	23725.0	10583.0			5.6716	74535	0	74535	5.6716	
DRACUT SW	369.7	18250.0	17880.3			9.6149	3554	0	3554	9.6149	
Total	21431.3						123764	1626	125390		

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	186.2	186.2	0	0.0	13	100	0.0	0	179	180	1
ENGPropane	77	100	145.5	145.5	0	0.0	77	100	0.0	0	1784	1789	4
ENGFSA	1498	96	1650.6	1633.0	0	17.7	1498	96	0.0	0	7453	7492	38
ENGDominion	103	100	103.4	101.4	0	2.0	103	100	0.0	0	529	533	4
ENGNFG	671	100	683.5	678.1	0	5.4	671	100	5.4	0	3369	3437	68
ENGHON	246	100	228.6	228.6	0	0.0	246	100	0.0	0	1213	1234	21
Total	2608	98	2997.8	2972.7	0	25.1	2608	98	5.4	0	14528	14664	136

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	3042.4	0.0	3042.4	8667.8	5625.4	0	6298	0	6298	2.0700		
ENGTGP2Stg	964.8	28.0	936.8	7882.5	6945.7	66	0	0	66	0.0682		
ENGTGPLong	3339.5	105.5	3234.0	7882.5	4648.5	871	4207	0	5077	1.5204		
ENGTGPBND	687.6	7.2	680.3	1139.5	459.2	56	276	0	332	0.4828		
ENGTGPShort	2635.7	39.0	2596.7	10262.0	7665.3	283	3079	0	3362	1.2757		
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000		
ENGIGTS	744.2	7.4	736.8	1825.0	1088.2	4	320	0	324	0.4353		
ENGTGPANE	736.8	7.7	729.0	1460.0	731.0	60	353	0	414	0.5613		
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537		
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000		
ENGLNG	186.2	0.0	186.2	8654.9	8468.7	0	0	0	0	0.0000		
ENGPropane	145.5	0.0	145.5	12775.0	12629.5	0	0	0	0	0.0000		
ENGC3Truck	145.5	0.0	145.5	2046.7	1901.2	145	0	0	145	1.0000		
ENGTGPDracut	12658.9	54.4	12604.4	18250.0	5645.6	444	5549	0	5992	0.4734		
ENGDawn2Wadd	754.0	9.8	744.2	2190.0	1445.8	16	568	0	583	0.7737		

- Draw 0

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
ENGTGPConLat	848.8	20.4	828.4	9610.6	8782.2	38	19124	141	19021	22.4085
ENGTGPZ4	2077.6	28.9	2048.7	36500.0	34451.3	234	2171	0	2405	1.1574
Z4toTGPLH	1290.8	0.0	1290.8	3650.0	2359.2	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
C2C Trnsprtn	13142.0	3.9	13138.0	16638.6	3500.6	578	33690	2519	31749	2.4158
Total		313.2				2795	76117	2660	76251	1.6865

- Draw 0

NOV 2031 thru OCT 2032

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	128606	Injection Cost	45	Transportation Cost	2832	JAN 19, 2032	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	2	System Served	200.61
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	200.61
Total Variable	128606	Total Variable	89	Total Variable	2834		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	76117		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	76117		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	2613		
Net Supply Cost	130232	Net Storage Cost	1519	Net Trans Cost	76338	Total Gas Cost	210703
						Total Revenue	2613
						Net Cost	208089

Avg Cost of Served Demand 9.796 USD/DT (System Cost/Served Dem.)
 Avg Cost of Gas Purchased 5.958 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.					
ENGIDesign	21509.4	0.0	21509.4	0.0	21509.4	21509.4	0.0	0	200.6	0.0
Total	21509.4	0.0	21509.4	0.0	21509.4	21509.4	0.0	0	200.6	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	3073.0	18300.0	15227.0			5.4508	16751	0	16751	5.4508
ENGNiagara	689.9	1170.5	480.5			5.0783	3504	0	3504	5.0783
ENGPNGTS	84.3	84.3	0.0			8.9194	752	0	752	8.9194
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	91.7	91.7	0.0			22.6924	2082	0	2082	22.6924
ENG-Z4	3028.4	3037.8	9.4			5.0421	15270	0	15270	5.0421
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	187.0	250.0	63.0		210.2	14.1574	2647	1500	4147	22.1804
ENGC3Summer	53.7	93.5	39.7			22.2190	1194	0	1194	22.2190

- Draw 0

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 CostNet	Average Cost
DLiqSummer	21.0	21.0	0.0			13.7292	288	126	414	19.7292
ENGDawn	759.3	2196.0	1436.7			5.5095	4184	0	4184	5.5095
C2C Supply	13455.5	23790.0	10334.5			5.7359	77179	0	77179	5.7359
DRACUT SW	415.4	18300.0	17884.6			11.4502	4756	0	4756	11.4502
Total	21859.4						128606	1626	130232	

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	208.0	208.0	0	0.0	13	100	0.0	0	180	180	1
ENGPropane	77	100	145.5	145.5	0	0.0	77	100	0.0	0	1789	1793	4
ENGFMSMA	1498	96	1656.4	1638.7	0	17.7	1498	96	0.0	0	7492	7608	116
ENGDominion	103	100	106.5	104.4	0	2.1	103	100	0.0	0	533	537	4
ENGNFG	671	100	683.9	678.5	0	5.4	671	100	5.4	0	3437	3438	0
ENGHON	246	100	231.4	231.4	0	0.0	246	100	0.0	0	1234	1249	15
Total	2608	98	3031.6	3006.4	0	25.2	2608	98	5.4	0	14664	14804	140

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	3073.0	0.0	3073.0	8691.6	5618.6	0	6298	0	6298	2.0494	
ENGTGP2Stg	977.2	28.3	948.9	7904.1	6955.3	67	0	0	67	0.0682	
ENGTGPLong	3365.8	106.4	3259.4	7904.1	4644.7	878	4207	0	5084	1.5106	
ENGTGPBND	689.9	7.2	682.7	1142.7	459.9	57	276	0	332	0.4815	
ENGTGPShort	2647.6	39.2	2608.4	10290.1	7681.7	284	3079	0	3364	1.2704	
ENGDMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
ENGIGTS	749.5	7.5	742.0	1830.0	1088.0	4	320	0	324	0.4322	
ENGTGPANE	742.0	7.8	734.2	1464.0	729.8	61	353	0	414	0.5579	
ENGPNGTS	84.3	0.8	83.5	366.0	282.5	0	483	0	483	5.7283	
ENGTGPAES	0.0	0.0	0.0	5490.0	5490.0	0	0	0	0	0.0000	
ENGLNG	208.0	0.0	208.0	8678.6	8470.6	0	0	0	0	0.0000	
ENGPropane	145.5	0.0	145.5	12810.0	12664.5	0	0	0	0	0.0000	
ENGC3Truck	145.5	0.0	145.5	2052.3	1906.9	145	0	0	145	1.0000	
ENGTGPDracut	12885.7	55.4	12830.3	18300.0	5469.7	452	5549	0	6000	0.4657	
ENGDawn2Wadd	759.3	9.9	749.5	2196.0	1446.5	16	568	0	583	0.7684	

- Draw 0

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
ENGTGPConLat	981.1	23.7	957.4	10379.6	9422.2	44	19124	134	19034	19.4003
ENGTGPZ4	2095.8	29.1	2066.7	36600.0	34533.3	236	2171	0	2407	1.1483
Z4toTGPLH	1299.1	0.0	1299.1	3660.0	2360.9	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
C2C Trnsprtn	13455.5	4.0	13451.4	16815.4	3364.0	592	33690	2479	31802	2.3635
Total		319.4				2834	76117	2613	76338	1.6583

- Draw 0

NOV 2032 thru OCT 2033

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	131258	Injection Cost	45	Transportation Cost	2838	JAN 19, 2033	
Penalty Cost	0	Withdrawal Cost	44	Other Variable Cost	2	System Served	203.37
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	203.37
Total Variable	131258	Total Variable	89	Total Variable	2840		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	76117		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	76117		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	2534		
Net Supply Cost	132884	Net Storage Cost	1519	Net Trans Cost	76423	Total Gas Cost	213360
						Total Revenue	2534
						Net Cost	210826
Avg Cost of Served Demand	9.846 USD/DT	Avg Cost of Gas Purchased	6.035 USD/DT				
(System Cost/Served Dem.)		(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
ENGIDesign	21669.0	0.0	21669.0	0.0	21669.0	21669.0	0.0	0	203.4	0.0
Total	21669.0	0.0	21669.0	0.0	21669.0	21669.0	0.0	0	203.4	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	3063.7	18250.0	15186.3			5.5046	16864	0	16864	5.5046
ENGNiagara	680.8	1167.3	486.5			5.1360	3496	0	3496	5.1360
ENGPNGTS	84.0	84.0	0.0			8.9529	752	0	752	8.9529
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENG3Winter	91.7	91.7	0.0			22.7532	2087	0	2087	22.7532
ENG-Z4	3020.1	3029.5	9.4			5.0948	15387	0	15387	5.0948
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	206.9	250.0	43.1		190.3	14.2129	2941	1500	4441	21.4630
ENG3Summer	53.7	93.5	39.7			22.2712	1197	0	1197	22.2712

- Draw 0

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 CostNet	Average Cost
DLiqSummer	21.0	21.0	0.0			13.7814	289	126	415	19.7814
ENGDawn	753.1	2190.0	1436.9			5.5649	4191	0	4191	5.5649
C2C Supply	13616.8	23725.0	10108.2			5.7808	78716	0	78716	5.7808
DRACUT SW	428.7	18250.0	17821.3			12.4504	5338	0	5338	12.4504
Total	22020.5						131258	1626	132884	

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	227.9	227.9	0	0.0	13	100	0.0	0	180	181	1
ENGPropane	77	100	145.5	145.5	0	0.0	77	100	0.0	0	1793	1797	4
ENGFMSA	1498	96	1664.1	1646.3	0	17.8	1498	96	0.0	0	7608	7652	45
ENGDominion	103	100	105.8	103.7	0	2.1	103	100	0.0	0	537	544	8
ENGNFG	671	100	683.9	678.5	0	5.4	671	100	5.4	0	3438	3504	66
ENGHON	246	100	229.7	229.7	0	0.0	246	100	0.0	0	1249	1263	15
Total	2608	98	3056.7	3031.5	0	25.3	2608	98	5.4	0	14804	14942	139

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	3063.7	0.0	3063.7	8667.8	5604.2	0	6298	0	6298	2.0557	
ENGTGP2Stg	982.5	28.5	954.1	7882.5	6928.5	67	0	0	67	0.0682	
ENGTGPLong	3343.0	105.6	3237.4	7882.5	4645.2	872	4207	0	5078	1.5191	
ENGTGPBND	680.8	7.1	673.6	1139.5	465.9	56	276	0	331	0.4868	
ENGTGPShort	2652.7	39.3	2613.5	10262.0	7648.5	285	3079	0	3364	1.2682	
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
ENGIGTS	743.3	7.4	735.8	1825.0	1089.2	4	320	0	324	0.4358	
ENGTGPANE	735.8	7.7	728.1	1460.0	731.9	60	353	0	413	0.5619	
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537	
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000	
ENGLNG	227.9	0.0	227.9	8654.9	8427.0	0	0	0	0	0.0000	
ENGPropane	145.5	0.0	145.5	12775.0	12629.5	0	0	0	0	0.0000	
ENGC3Truck	145.5	0.0	145.5	2046.7	1901.2	145	0	0	145	1.0000	
ENGTGPDracut	12980.9	55.8	12925.1	18250.0	5324.9	455	5549	0	6004	0.4625	
ENGDawn2Wadd	753.1	9.8	743.3	2190.0	1446.7	16	568	0	583	0.7746	

- Draw 0

NOV 2032 thru OCT 2033

Cost and Flow Summary

Units: MDT, USD (000)

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 Transportation Summary
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Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPConLat	1060.5	25.7	1034.8	11073.8	10039.0	48	19124	127	19045	17.9576
ENGTGPZ4	2081.1	28.9	2052.2	36500.0	34447.8	234	2171	0	2405	1.1557
Z4toTGPLH	1290.8	0.0	1290.8	3650.0	2359.2	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
C2C Trnsprtn	13616.8	4.1	13612.7	16952.0	3339.2	599	33690	2408	31881	2.3413
Total		320.9				2840	76117	2534	76423	1.6500

- Draw 0

NOV 2033 thru OCT 2034

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	135515	Injection Cost	45	Transportation Cost	2862	JAN 19, 2034	
Penalty Cost	0	Withdrawal Cost	44	Other Variable Cost	2	System Served	206.24
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	206.24
Total Variable	135515	Total Variable	89	Total Variable	2864		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	76117		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	76117		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	2486		
Net Supply Cost	137141	Net Storage Cost	1520	Net Trans Cost	76495	Total Gas Cost	217642
						Total Revenue	2486
						Net Cost	215156

Avg Cost of Served Demand 9.904 USD/DT (System Cost/Served Dem.)
 Avg Cost of Gas Purchased 6.142 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
ENGIDesign	21974.0	0.0	21974.0	0.0	21974.0	21974.0	0.0	0	206.2	0.0
Total	21974.0	0.0	21974.0	0.0	21974.0	21974.0	0.0	0	206.2	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	3078.7	18250.0	15171.3			5.5592	17115	0	17115	5.5592
ENGNiagara	680.5	1167.3	486.7			5.1915	3533	0	3533	5.1915
ENGPNGTS	84.0	84.0	0.0			9.0081	756	0	756	9.0081
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENG3Winter	91.7	91.7	0.0			22.8131	2093	0	2093	22.8131
ENG-Z4	3020.1	3029.5	9.4			5.1492	15551	0	15551	5.1492
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	226.4	250.0	23.6		170.7	14.2689	3231	1500	4731	20.8929
ENG3Summer	53.7	93.5	39.7			22.3239	1200	0	1200	22.3239

- Draw 0

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
DLiqSummer	21.0	21.0	0.0			13.8343	291	126	417	19.8343
ENGDawn	754.8	2190.0	1435.2			5.6196	4242	0	4242	5.6196
C2C Supply	13838.1	23725.0	9886.9			5.8372	80776	0	80776	5.8372
DRACUT SW	480.5	18250.0	17769.5			13.9990	6727	0	6727	13.9990
Total	22329.7						135515	1626	137141	

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	247.4	247.4	0	0.0	13	100	0.0	0	181	182	1
ENGPropane	77	100	145.5	145.5	0	0.0	77	100	0.0	0	1797	1801	5
ENGFSMA	1498	96	1671.3	1653.5	0	17.9	1498	96	0.0	0	7652	7732	79
ENGDominion	103	100	106.7	104.6	0	2.1	103	100	0.0	0	544	538	-7
ENGNFG	671	100	684.5	679.1	0	5.4	671	100	5.4	0	3504	3555	50
ENGHON	246	100	230.6	230.6	0	0.0	246	100	0.0	0	1263	1276	12
Total	2608	98	3086.1	3060.8	0	25.4	2608	98	5.4	0	14942	15083	141

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	3078.7	0.0	3078.7	8667.8	5589.1	0	6298	0	6298	2.0456	
ENGTGP2Stg	992.7	28.8	963.9	7882.5	6918.6	68	0	0	68	0.0682	
ENGTGPLong	3347.9	105.8	3242.1	7882.5	4640.5	873	4207	0	5080	1.5173	
ENGTGPBND	680.5	7.1	673.4	1139.5	466.1	56	276	0	331	0.4870	
ENGTGPShort	2662.5	39.4	2623.1	10262.0	7638.9	286	3079	0	3365	1.2639	
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
ENGIGTS	745.0	7.5	737.6	1825.0	1087.4	4	320	0	324	0.4348	
ENGTGPANE	737.6	7.7	729.8	1460.0	730.2	61	353	0	414	0.5607	
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537	
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000	
ENGLNG	247.4	0.0	247.4	8654.9	8407.4	0	0	0	0	0.0000	
ENGPropane	145.5	0.0	145.5	12775.0	12629.5	0	0	0	0	0.0000	
ENG03Truck	145.5	0.0	145.5	2046.7	1901.2	145	0	0	145	1.0000	
ENGTGPDracut	13145.4	56.5	13088.9	18250.0	5161.1	461	5549	0	6010	0.4572	
ENGDawn2Wadd	754.8	9.8	745.0	2190.0	1445.0	16	568	0	583	0.7728	

- Draw 0

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	
ENGTGFCOnLat	1169.1	28.3	1140.7	11841.2	10700.5	52	19124	119	19057	16.3012	
ENGTGPZ4	2086.0	29.0	2057.0	36500.0	34443.0	235	2171	0	2406	1.1532	
Z4toTGPLH	1290.8	0.0	1290.8	3650.0	2359.2	0	0	0	0	0.0000	
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000	
C2C Trnsprtn	13838.1	4.2	13833.9	17066.6	3232.7	609	33690	2367	31931	2.3075	
Total		325.0				2864	76117	2486	76495	1.6317	

- Draw 0

NOV 2034 thru OCT 2035

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	139999	Injection Cost	45	Transportation Cost	2886	JAN 19, 2035	
Penalty Cost	0	Withdrawal Cost	44	Other Variable Cost	3	System Served	209.19
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	209.19
Total Variable	139999	Total Variable	89	Total Variable	2888		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	76117		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	76117		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	2433		
Net Supply Cost	141625	Net Storage Cost	1520	Net Trans Cost	76572	Total Gas Cost	222150
						Total Revenue	2433
						Net Cost	219717

Avg Cost of Served Demand 9.969 USD/DT (System Cost/Served Dem.)
 Avg Cost of Gas Purchased 6.254 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
ENGI Design	22283.5	0.0	22283.5	0.0	22283.5	22283.5	0.0	0	209.2	0.0
Total	22283.5	0.0	22283.5	0.0	22283.5	22283.5	0.0	0	209.2	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	3094.0	18250.0	15156.0			5.6145	17371	0	17371	5.6145
ENGNiagara	679.3	1167.3	487.9			5.2483	3565	0	3565	5.2483
ENGPNGTS	84.0	84.0	0.0			9.0638	761	0	761	9.0638
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	91.7	91.7	0.0			22.8799	2099	0	2099	22.8799
ENG-Z4	3020.1	3029.5	9.4			5.2041	15717	0	15717	5.2041
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	250.0	250.0	0.0		147.2	14.3252	3581	1500	5081	20.3252
ENGC3Summer	53.7	93.5	39.7			22.3771	1203	0	1203	22.3771

- Draw 0

NOV 2034 thru OCT 2035

Cost and Flow Summary

Units: MDT, USD (000)

Source (cont)	Supply Summary					Av Comm Cost	Total Var Cost	Total Fix Cost	Net CostNet	Average Cost
	Total Take	Max Take	Surplus	Take Under Daily Min	Take Under Other Min					
DLiqSummer	21.0	21.0	0.0			13.8876	292	126	418	19.8876
ENGDawn	755.3	2190.0	1434.7			5.6758	4287	0	4287	5.6758
C2C Supply	14059.3	23725.0	9665.7			5.8930	82851	0	82851	5.8930
DRACUT SW	535.7	18250.0	17714.3			15.4407	8272	0	8272	15.4407
Total	22644.2						139999	1626	141625	

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	271.0	271.0	0	0.0	13	100	0.0	0	182	182	1
ENGPropane	77	100	145.5	145.5	0	0.0	77	100	0.0	0	1801	1805	4
ENGFSMA	1498	96	1679.3	1661.4	0	18.0	1498	96	0.0	0	7732	7845	114
ENGDominion	103	100	106.7	104.6	0	2.1	103	100	0.0	0	538	557	19
ENGNFG	671	100	686.2	680.8	0	5.4	671	100	5.4	0	3555	3543	-11
ENGHON	246	100	231.8	231.8	0	0.0	246	100	0.0	0	1276	1290	15
Total	2608	98	3120.5	3095.0	0	25.5	2608	98	5.4	0	15083	15224	141

Transportation Summary

Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPPProd	3094.0	0.0	3094.0	8667.8	5573.9	0	6298	0	6298	2.0355
ENGTGP2Stg	1003.8	29.1	974.7	7882.5	6907.9	68	0	0	68	0.0682
ENGTGPLong	3351.9	105.9	3246.0	7882.5	4636.5	874	4207	0	5081	1.5157
ENGTGPBND	679.3	7.1	672.2	1139.5	467.3	56	276	0	331	0.4877
ENGTGPShort	2673.1	39.6	2633.6	10262.0	7628.4	287	3079	0	3366	1.2593
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
ENGIGTS	745.4	7.5	738.0	1825.0	1087.0	4	320	0	324	0.4345
ENGTGPANE	738.0	7.7	730.2	1460.0	729.8	61	353	0	414	0.5605
ENGNNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000
ENGLNG	271.0	0.0	271.0	8654.9	8383.9	0	0	0	0	0.0000
ENGPropane	145.5	0.0	145.5	12775.0	12629.5	0	0	0	0	0.0000
ENGC3Truck	145.5	0.0	145.5	2046.7	1901.2	145	0	0	145	1.0000
ENGTGPDracut	13283.5	57.1	13226.4	18250.0	5023.6	466	5549	0	6014	0.4528
ENGDawn2Wadd	755.3	9.8	745.4	2190.0	1444.6	16	568	0	583	0.7724

- Draw 0

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
ENGTGPConLat	1307.3	31.9	1275.4	12615.7	11340.2	59	19124	111	19071	14.5886
ENGTGPZ4	2090.2	29.1	2061.1	36500.0	34438.9	235	2171	0	2406	1.1511
Z4toTGPLH	1290.8	0.0	1290.8	3650.0	2359.2	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
C2C Trnsprtn	14059.3	4.2	14055.1	17194.3	3139.2	618	33690	2322	31986	2.2751
Total		329.8				2888	76117	2433	76572	1.6138

- Draw 0

NOV 2035 thru OCT 2036

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	146305	Injection Cost	46	Transportation Cost	2926	JAN 19, 2036	
Penalty Cost	0	Withdrawal Cost	44	Other Variable Cost	3	System Served	212.10
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	212.10
Total Variable	146305	Total Variable	89	Total Variable	2929		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	76117		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	76117		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	2368		
Net Supply Cost	147931	Net Storage Cost	1520	Net Trans Cost	76677	Total Gas Cost	228497
						Total Revenue	2368
						Net Cost	226128

Avg Cost of Served Demand 10.05 USD/DT (System Cost/Served Dem.)
 Avg Cost of Gas Purchased 6.406 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.					
ENGIDesign	22726.0	0.0	22726.0	0.0	22726.0	22726.0	0.0	0	212.1	0.0
Total	22726.0	0.0	22726.0	0.0	22726.0	22726.0	0.0	0	212.1	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	3123.3	18300.0	15176.7			5.6716	17714	0	17714	5.6716
ENGNIagara	678.9	1170.5	491.5			5.3083	3604	0	3604	5.3083
ENGPNGTS	84.3	84.3	0.0			9.1411	771	0	771	9.1411
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	91.7	91.7	0.0			22.9387	2104	0	2104	22.9387
ENG-Z4	3028.4	3037.8	9.4			5.2607	15932	0	15932	5.2607
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	250.0	250.0	0.0		147.2	14.3924	3598	1500	5098	20.3924
ENGC3Summer	53.7	93.5	39.7			22.4309	1205	0	1205	22.4309

- Draw 0

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 CostNet	Average Cost
DLiqSummer	21.0	21.0	0.0			13.9415	293	126	419	19.9415
ENGDawn	758.4	2196.0	1437.6			5.7344	4349	0	4349	5.7344
C2C Supply	14369.9	23790.0	9420.1			5.9557	85584	0	85584	5.9557
DRACUT SW	634.5	18300.0	17665.5			17.5753	11151	0	11151	17.5753
Total	23094.3						146305	1626	147931	

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	271.0	271.0	0	0.0	13	100	0.0	0	182	183	1
ENGPropane	77	100	145.5	145.5	0	0.0	77	100	0.0	0	1805	1810	4
ENGFSMA	1498	96	1687.2	1669.2	0	18.1	1498	96	0.0	0	7845	7913	67
ENGDominion	103	100	107.3	105.2	0	2.1	103	100	0.0	0	557	561	4
ENGNFG	671	100	687.7	682.3	0	5.4	671	100	5.4	0	3543	3617	74
ENGHON	246	100	234.8	234.8	0	0.0	246	100	0.0	0	1290	1284	-6
Total	2608	98	3133.5	3107.9	0	25.6	2608	98	5.4	0	15224	15368	143

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPPProd	3123.3	0.0	3123.3	8691.6	5568.3	0	6298	0	6298	2.0164	
ENGTGP2Stg	1017.2	29.5	987.7	7904.1	6916.4	69	0	0	69	0.0682	
ENGTGPLong	3375.9	106.7	3269.2	7904.1	4634.9	880	4207	0	5087	1.5068	
ENGTGPBND	678.9	7.1	671.8	1142.7	470.9	56	276	0	331	0.4879	
ENGTGPShort	2686.1	39.8	2646.3	10290.1	7643.8	288	3079	0	3368	1.2538	
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
ENGIGTS	748.6	7.5	741.1	1830.0	1088.9	4	320	0	324	0.4327	
ENGTGPANE	741.1	7.8	733.3	1464.0	730.7	61	353	0	414	0.5585	
ENGPNGTS	84.3	0.8	83.5	366.0	282.5	0	483	0	483	5.7283	
ENGTGPAES	0.0	0.0	0.0	5490.0	5490.0	0	0	0	0	0.0000	
ENGLNG	271.0	0.0	271.0	8678.6	8407.6	0	0	0	0	0.0000	
ENGPropane	145.5	0.0	145.5	12810.0	12664.5	0	0	0	0	0.0000	
ENG3Truck	145.5	0.0	145.5	2052.3	1906.9	145	0	0	145	1.0000	
ENGTGPDracut	13493.3	58.0	13435.3	18300.0	4864.7	473	5549	0	6022	0.4463	
ENGDawn2Wadd	758.4	9.9	748.6	2196.0	1447.4	16	568	0	583	0.7693	

- Draw 0

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	
ENGTGPConLat	1506.8	36.6	1470.1	13418.0	11947.9	68	19124	104	19088	12.6679	
ENGTGPZ4	2106.1	29.3	2076.8	36600.0	34523.2	237	2171	0	2408	1.1433	
Z4toTGPLH	1299.1	0.0	1299.1	3660.0	2360.9	0	0	0	0	0.0000	
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000	
C2C Trnsprtn	14369.9	4.3	14365.6	17419.9	3054.2	632	33690	2265	32057	2.2308	
Total		337.3				2929	76117	2368	76677	1.5882	

- Draw 0

NOV 2036 thru OCT 2037

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	149590	Injection Cost	46	Transportation Cost	2933	JAN 19, 2037	
Penalty Cost	0	Withdrawal Cost	44	Other Variable Cost	3	System Served	214.79
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	214.79
Total Variable	149590	Total Variable	90	Total Variable	2936		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	76117		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	76117		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	2330		
Net Supply Cost	151216	Net Storage Cost	1520	Net Trans Cost	76723	Total Gas Cost	231789
						Total Revenue	2330
						Net Cost	229460

Avg Cost of Served Demand 10.13 USD/DT
 (System Cost/Served Dem.)

Avg Cost of Gas Purchased 6.506 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
ENGIDesign	22870.9	0.0	22870.9	0.0	22870.9	22870.9	0.0	0	214.8	0.0
Total	22870.9	0.0	22870.9	0.0	22870.9	22870.9	0.0	0	214.8	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	3122.9	18250.0	15127.1			5.7268	17884	0	17884	5.7268
ENGNiagara	676.7	1167.3	490.5			5.3636	3630	0	3630	5.3636
ENGPNGTS	84.0	84.0	0.0			9.1769	771	0	771	9.1769
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	91.7	91.7	0.0			22.9981	2110	0	2110	22.9981
ENG-Z4	3020.1	3029.5	9.4			5.3156	16054	0	16054	5.3156
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	250.0	250.0	0.0		147.2	14.4518	3613	1500	5113	20.4518
ENGC3Summer	53.7	93.5	39.7			22.4852	1208	0	1208	22.4852

- Draw 0

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 CostNet	Average Cost
DLiqSummer	21.0	21.0	0.0			13.9959	294	126	420	19.9959
ENGDawn	755.7	2190.0	1434.3			5.7903	4376	0	4376	5.7903
C2C Supply	14472.2	23725.0	9252.8			6.0057	86915	0	86915	6.0057
DRACUT SW	693.4	18250.0	17556.6			18.3686	12736	0	12736	18.3686
Total	23241.4						149590	1626	151216	

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	271.0	271.0	0	0.0	13	100	0.0	0	183	184	1
ENGPropane	77	100	145.5	145.5	0	0.0	77	100	0.0	0	1810	1813	4
ENGFSMA	1498	96	1691.8	1673.7	0	18.1	1498	96	0.0	0	7913	7976	64
ENGDominion	103	100	109.5	107.4	0	2.1	103	100	0.0	0	561	567	7
ENGNFG	671	100	687.8	682.3	0	5.4	671	100	5.4	0	3617	3654	37
ENGHON	246	100	234.3	234.3	0	0.0	246	100	0.0	0	1284	1314	29
Total	2608	98	3139.9	3114.2	0	25.7	2608	98	5.4	0	15368	15509	141

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	3122.9	0.0	3122.9	8667.8	5545.0	0	6298	0	6298	2.0167	
ENGTGP2Stg	1023.8	29.7	994.1	7882.5	6888.5	70	0	0	70	0.0682	
ENGTGPLong	3360.7	106.2	3254.5	7882.5	4628.0	876	4207	0	5083	1.5125	
ENGTGPBND	676.7	7.1	669.6	1139.5	469.9	56	276	0	331	0.4893	
ENGTGPShort	2692.3	39.8	2652.5	10262.0	7609.5	289	3079	0	3368	1.2511	
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
ENGIGTS	745.9	7.5	738.4	1825.0	1086.6	4	320	0	324	0.4343	
ENGTGPANE	738.4	7.8	730.7	1460.0	729.3	61	353	0	414	0.5602	
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537	
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000	
ENGLNG	271.0	0.0	271.0	8654.9	8383.9	0	0	0	0	0.0000	
ENGPropane	145.5	0.0	145.5	12775.0	12629.5	0	0	0	0	0.0000	
ENG3Truck	145.5	0.0	145.5	2046.7	1901.2	145	0	0	145	1.0000	
ENGTGPDracut	13565.7	58.3	13507.4	18250.0	4742.6	475	5549	0	6024	0.4441	
ENGDawn2Wadd	755.7	9.8	745.9	2190.0	1444.1	16	568	0	583	0.7720	

- Draw 0

NOV 2036 thru OCT 2037

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary										
(cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Segment Net Cost
ENGTGPConLat	1595.5	38.9	1556.7	14074.1	12517.5	72	19124	97	19099	11.9702
ENGTGPZ4	2099.1	29.2	2069.9	36500.0	34430.1	236	2171	0	2407	1.1467
Z4toTGPLH	1290.8	0.0	1290.8	3650.0	2359.2	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
C2C Trnsprtn	14472.2	4.3	14467.9	17443.6	2975.8	637	33690	2233	32093	2.2176
Total		339.4				2936	76117	2330	76723	1.5814

- Draw 0

NOV 2037 thru OCT 2038

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	154407	Injection Cost	46	Transportation Cost	2969	JAN 19, 2038	
Penalty Cost	0	Withdrawal Cost	44	Other Variable Cost	4	System Served	217.52
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	217.52
Total Variable	154407	Total Variable	90	Total Variable	2972		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	76117		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	76117		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	2054		
Net Supply Cost	156033	Net Storage Cost	1521	Net Trans Cost	77035	Total Gas Cost	236642
						Total Revenue	2054
						Net Cost	234588

Avg Cost of Served Demand 10.21 USD/DT
 (System Cost/Served Dem.)

Avg Cost of Gas Purchased 6.633 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
ENGDDesign	23162.0	0.0	23162.0	0.0	23162.0	23162.0	0.0	0	217.5	0.0
Total	23162.0	0.0	23162.0	0.0	23162.0	23162.0	0.0	0	217.5	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	3138.9	18250.0	15111.1			5.7833	18153	0	18153	5.7833
ENGNiagara	645.0	1167.3	522.3			5.4324	3504	0	3504	5.4324
ENGPNGTS	84.0	84.0	0.0			9.2343	775	0	775	9.2343
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	91.7	91.7	0.0			23.0581	2115	0	2115	23.0581
ENG-Z4	3020.3	3029.5	9.2			5.3721	16226	0	16226	5.3721
ENG-OPR	0.8	2920.0	2919.2			100.0000	79	0	79	100.0000
DLiqWinter	250.0	250.0	0.0		147.2	14.5118	3628	1500	5128	20.5118
ENGC3Summer	53.7	93.5	39.7			22.5401	1211	0	1211	22.5401

- Draw 0

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 Cost
DLiqSummer	21.0	21.0	0.0			14.0509	295	126	421	20.0509
ENGDawn	745.1	2190.0	1444.9			5.8528	4361	0	4361	5.8528
C2C Supply	14883.1	23725.0	8841.9			6.0413	89914	0	89914	6.0413
DRACUT SW	588.4	18250.0	17661.6			24.0388	14146	0	14146	24.0388
Total	23522.2						154407	1626	156033	

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	271.0	271.0	0	0.0	13	100	0.0	0	184	185	1
ENGPropane	77	100	145.5	145.5	0	0.0	77	100	0.0	0	1813	1818	5
ENGFMSA	1498	96	1678.6	1676.2	0	18.0	1482	95	0.0	-16	7976	8000	23
ENGDominion	103	100	109.5	107.4	0	2.1	103	100	0.0	0	567	572	4
ENGNFG	671	100	692.7	687.3	0	5.5	671	100	5.4	0	3654	3661	7
ENGHON	246	100	235.2	235.2	0	0.0	246	100	0.0	0	1314	1330	16
Total	2608	98	3132.5	3122.6	0	25.6	2592	97	5.4	-16	15509	15566	57

Transportation Summary													
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost			
ENGTGPProd	3138.9	0.0	3138.9	8667.8	5529.0	0	6298	0	6298	2.0064			
ENGTGP2Stg	1016.2	29.5	986.7	7882.5	6895.8	69	0	0	69	0.0682			
ENGTGPLong	3384.2	106.9	3277.3	7882.5	4605.3	883	4207	0	5089	1.5038			
ENGTGPBND	645.0	6.8	638.2	1139.5	501.3	53	276	0	328	0.5093			
ENGTGPShort	2700.6	40.0	2660.7	10262.0	7601.3	290	3079	0	3369	1.2476			
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000			
ENGIGTS	735.4	7.4	728.1	1825.0	1096.9	3	320	0	324	0.4404			
ENGTGPANE	728.1	7.6	720.4	1460.0	739.6	60	353	0	413	0.5670			
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537			
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000			
ENGLNG	271.0	0.0	271.0	8654.9	8383.9	0	0	0	0	0.0000			
ENGPropane	145.5	0.0	145.5	12775.0	12629.5	0	0	0	0	0.0000			
ENGC3Truck	145.5	0.0	145.5	2046.7	1901.2	145	0	0	145	1.0000			
ENGTGPDracut	13665.2	58.8	13606.5	18250.0	4643.5	479	5549	0	6028	0.4411			
ENGDawn2Wadd	745.1	9.7	735.4	2190.0	1454.6	15	568	0	583	0.7827			

- Draw 0

NOV 2037 thru OCT 2038

Cost and Flow Summary

Units: MDT, USD (000)

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 Transportation Summary

(cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Segment Net Cost
ENGTGPConLat	1801.9	43.4	1758.5	15946.2	14187.7	81	19124	78	19127	10.6148
ENGTGPZ4	2122.7	29.5	2093.2	36500.0	34406.8	239	2171	0	2410	1.1352
Z4toTGPLH	1291.0	0.0	1291.0	3650.0	2359.0	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
C2C Trnsprtn	14883.1	4.5	14878.7	18166.8	3288.1	655	33690	1976	32368	2.1748
Total		344.8				2972	76117	2054	77035	1.5647

- Draw 0

NOV 2018 thru OCT 2038

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	2345778	Injection Cost	900	Transportation Cost	54451	JAN 19, 2038	
Penalty Cost	0	Withdrawal Cost	868	Other Variable Cost	28	System Served	217.52
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	217.52
Total Variable	2345778	Total Variable	1768	Total Variable	54479		
Demand/Reservation Co	0	Demand Cost	14221	Demand Cost	1522333		
Other Fixed Cost	32520	Other Fixed Cost	14393	Other Fixed Cost	0		
Total Fixed	32520	Total Fixed	28614	Total Fixed	1522333		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	72294		
Net Supply Cost	2378298	Net Storage Cost	30382	Net Trans Cost	1504518	Total Gas Cost	3985492
						Total Revenue	72294
						Net Cost	3913198

Avg Cost of Served Demand 9.747 USD/DT
 (System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.721 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
ENGI Design	408894.9	0.0	408894.9	0.0	408894.9	408894.9	0.0	0	217.5	0.0
Total	408894.9	0.0	408894.9	0.0	408894.9	408894.9	0.0	0	217.5	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	61078.6	365250.0	304171.4			5.2174	318674	0	318674	5.2174
ENGNiagara	13965.6	23361.4	9395.8			4.8109	67187	0	67187	4.8109
ENGPNGTS	1681.1	1681.1	0.0			8.6682	14572	0	14572	8.6682
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	1558.5	1834.9	276.3			22.4633	35010	0	35010	22.4633
ENG-Z4	60446.7	60631.5	184.8			4.8099	290745	0	290745	4.8099
ENG-OPR	0.8	2920.0	2919.2			100.0000	79	0	79	100.0000
DLiqWinter	3300.6	5000.0	1699.4		4642.5	14.0149	46258	30000	76258	23.1041
ENGC3Summer	904.7	1869.2	964.4			22.0438	19943	0	19943	22.0438

- Draw 0

NOV 2018 thru OCT 2038

Cost and Flow Summary

Units: MDT, USD (000)

Supply Summary											
(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 Source Cost	Source Net Cost
DLiqSummer	420.0	420.0	0.0			13.5159	5677	2520	8197	19.5159	
ENGDawn	15301.2	43830.0	28528.8			5.2469	80284	0	80284	5.2469	
C2C Supply	249528.8	474825.0	225296.2			5.5167	1376567	0	1376567	5.5167	
DRACUT SW	7498.5	365250.0	357751.5			12.1065	90781	0	90781	12.1065	
Total	415685.1				4642.5		2345778	32520	2378298		

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	3720.6	3720.6	0	0.0	13	100	0.0	0	131	185	54
ENGPropane	77	100	2463.3	2463.3	0	0.0	77	100	0.0	0	1053	1818	766
ENGFSMA	1482	95	33150.6	32795.9	0	354.7	1482	95	0.0	0	5559	8000	2441
ENGDominion	103	100	2118.0	2076.7	0	41.3	103	100	0.0	0	385	572	187
ENGNFG	671	100	13637.5	13529.7	0	107.7	671	100	106.9	0	2516	3661	1146
ENGHON	246	100	4580.9	4580.9	0	0.0	246	100	0.0	0	923	1330	407
Total	2592	97	59670.8	59167.0	0	503.7	2592	97	106.9	0	10566	15566	5000

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	61078.6	0.0	61078.6	173475.7	112397.1	0	125957	0	125957	2.0622	
ENGTGP2Stg	19466.6	564.5	18902.1	157758.8	138856.7	1327	0	0	1327	0.0682	
ENGTGPLong	66895.4	2113.9	64781.5	157758.8	92977.3	17446	84131	0	101577	1.5184	
ENGTGPBND	13965.6	146.6	13818.9	22806.2	8987.3	1146	5512	0	6657	0.4767	
ENGTGPShort	52876.3	782.6	52093.7	205380.1	153286.4	5678	61585	0	67264	1.2721	
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
ENGIGTS	15102.3	151.0	14951.3	36525.0	21573.7	72	6408	0	6479	0.4290	
ENGTGPANE	14951.3	157.0	14794.3	29220.0	14425.7	1226	7062	0	8288	0.5543	
ENGPNGTS	1681.1	16.8	1664.3	7305.0	5640.7	3	9659	0	9662	5.7474	
ENGTGPAES	0.0	0.0	0.0	109575.0	109575.0	0	0	0	0	0.0000	
ENGLNG	3720.6	0.0	3720.6	173216.2	169495.5	0	0	0	0	0.0000	
ENGPropane	2463.3	0.0	2463.3	255675.0	253211.7	0	0	0	0	0.0000	
ENGC3Truck	2463.3	0.0	2463.3	40962.6	38499.4	2463	0	0	2463	1.0000	
ENGTGPDracut	242390.2	1042.3	241347.9	363826.7	122478.8	8495	110976	14	119457	0.4928	
ENGDawn2Wadd	15301.2	198.9	15102.3	43830.0	28727.7	316	11356	0	11672	0.7628	

- Draw 0

NOV 2018 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
ENGTGPConLat	14562.2	352.6	14209.6	160696.6	146487.0	654	382475	3141	379987	26.0940
ENGTGPZ4	41612.0	578.4	41033.6	730500.0	689466.4	4678	43422	0	48100	1.1559
Z4toTGPLH	25861.9	0.0	25861.9	73050.0	47188.1	0	0	0	0	0.0000
Z4toStg	34584.8	0.0	34584.8	42800.0	8215.2	0	0	0	0	0.0000
C2C Trnsprtn	249528.8	74.9	249453.9	316806.7	67352.8	10976	673790	69138	615628	2.4672
Total		6179.5				54479	1522333	72294	1504518	1.7126

RESOURCE MIX RESULTS

Units: MDT

	Contract	Start Date	End Date	Min Level	Max Level	Result MDQ
Seg Cap Rel	ENGTGPDracut	NOV 2018	MAR 2019	0.00	50.00	0.00
	ENGTGPDracut	APR 2019	OCT 2019	0.00	50.00	4.11
	ENGTGPDracut	NOV 2019	MAR 2020	0.00	50.00	0.00
	ENGTGPDracut	APR 2020	OCT 2020	0.00	50.00	2.02
	ENGTGPDracut	NOV 2020	MAR 2021	0.00	50.00	0.00
	ENGTGPDracut	APR 2021	OCT 2021	0.00	50.00	0.53
	ENGTGPDracut	NOV 2021	MAR 2022	0.00	50.00	0.00
	ENGTGPDracut	APR 2022	OCT 2022	0.00	50.00	0.00
	ENGTGPDracut	NOV 2022	MAR 2023	0.00	50.00	0.00
	ENGTGPDracut	APR 2023	OCT 2023	0.00	50.00	0.00
	ENGTGPDracut	NOV 2023	MAR 2024	0.00	50.00	0.00
	ENGTGPDracut	APR 2024	OCT 2024	0.00	50.00	0.00
	ENGTGPDracut	NOV 2024	MAR 2025	0.00	50.00	0.00
	ENGTGPDracut	APR 2025	OCT 2025	0.00	50.00	0.00
	ENGTGPDracut	NOV 2025	MAR 2026	0.00	50.00	0.00
	ENGTGPDracut	APR 2026	OCT 2026	0.00	50.00	0.00
	ENGTGPDracut	NOV 2026	MAR 2027	0.00	50.00	0.00
	ENGTGPDracut	APR 2027	OCT 2027	0.00	50.00	0.00
	ENGTGPDracut	NOV 2027	MAR 2028	0.00	50.00	0.00
	ENGTGPDracut	APR 2028	OCT 2028	0.00	50.00	0.00
	ENGTGPDracut	NOV 2028	MAR 2029	0.00	50.00	0.00
	ENGTGPDracut	APR 2029	OCT 2029	0.00	50.00	0.00
	ENGTGPDracut	NOV 2029	MAR 2030	0.00	50.00	0.00
	ENGTGPDracut	APR 2030	OCT 2030	0.00	50.00	0.00
	ENGTGPDracut	NOV 2030	MAR 2031	0.00	50.00	0.00
	ENGTGPDracut	APR 2031	OCT 2031	0.00	50.00	0.00
	ENGTGPDracut	NOV 2031	MAR 2032	0.00	50.00	0.00
	ENGTGPDracut	APR 2032	OCT 2032	0.00	50.00	0.00
	ENGTGPDracut	NOV 2032	MAR 2033	0.00	50.00	0.00
	ENGTGPDracut	APR 2033	OCT 2033	0.00	50.00	0.00
	ENGTGPDracut	NOV 2033	MAR 2034	0.00	50.00	0.00
	ENGTGPDracut	APR 2034	OCT 2034	0.00	50.00	0.00
	ENGTGPDracut	NOV 2034	MAR 2035	0.00	50.00	0.00
	ENGTGPDracut	APR 2035	OCT 2035	0.00	50.00	0.00
	ENGTGPDracut	NOV 2035	MAR 2036	0.00	50.00	0.00
	ENGTGPDracut	APR 2036	OCT 2036	0.00	50.00	0.00
	ENGTGPDracut	NOV 2036	MAR 2037	0.00	50.00	0.00
	ENGTGPDracut	APR 2037	OCT 2037	0.00	50.00	0.00
	ENGTGPDracut	NOV 2037	MAR 2038	0.00	50.00	0.00

- Draw 0

RESOURCE MIX RESULTS

Units: MDT

Contract	Start Date	End Date	Min Level	Max Level	Result MDQ
ENGTGPDracut	APR 2038	OCT 2038	0.00	50.00	0.00
ENGTGPConLat	NOV 2018	MAR 2019	0.00	65.00	54.37
ENGTGPConLat	APR 2019	OCT 2019	0.00	65.00	64.77
ENGTGPConLat	NOV 2019	MAR 2020	0.00	65.00	51.12
ENGTGPConLat	APR 2020	OCT 2020	0.00	65.00	64.77
ENGTGPConLat	NOV 2020	MAR 2021	0.00	65.00	47.65
ENGTGPConLat	APR 2021	OCT 2021	0.00	65.00	64.77
ENGTGPConLat	NOV 2021	MAR 2022	0.00	65.00	44.79
ENGTGPConLat	APR 2022	OCT 2022	0.00	65.00	63.78
ENGTGPConLat	NOV 2022	MAR 2023	0.00	65.00	42.02
ENGTGPConLat	APR 2023	OCT 2023	0.00	65.00	62.11
ENGTGPConLat	NOV 2023	MAR 2024	0.00	65.00	39.07
ENGTGPConLat	APR 2024	OCT 2024	0.00	65.00	60.80
ENGTGPConLat	NOV 2024	MAR 2025	0.00	65.00	36.43
ENGTGPConLat	APR 2025	OCT 2025	0.00	65.00	59.46
ENGTGPConLat	NOV 2025	MAR 2026	0.00	65.00	34.08
ENGTGPConLat	APR 2026	OCT 2026	0.00	65.00	58.15
ENGTGPConLat	NOV 2026	MAR 2027	0.00	65.00	31.54
ENGTGPConLat	APR 2027	OCT 2027	0.00	65.00	56.78
ENGTGPConLat	NOV 2027	MAR 2028	0.00	65.00	28.89
ENGTGPConLat	APR 2028	OCT 2028	0.00	65.00	55.36
ENGTGPConLat	NOV 2028	MAR 2029	0.00	65.00	26.48
ENGTGPConLat	APR 2029	OCT 2029	0.00	65.00	54.00
ENGTGPConLat	NOV 2029	MAR 2030	0.00	65.00	23.97
ENGTGPConLat	APR 2030	OCT 2030	0.00	65.00	52.63
ENGTGPConLat	NOV 2030	MAR 2031	0.00	65.00	20.92
ENGTGPConLat	APR 2031	OCT 2031	0.00	65.00	51.19
ENGTGPConLat	NOV 2031	MAR 2032	0.00	65.00	18.19
ENGTGPConLat	APR 2032	OCT 2032	0.00	65.00	49.74
ENGTGPConLat	NOV 2032	MAR 2033	0.00	65.00	15.43
ENGTGPConLat	APR 2033	OCT 2033	0.00	65.00	48.23
ENGTGPConLat	NOV 2033	MAR 2034	0.00	65.00	12.55
ENGTGPConLat	APR 2034	OCT 2034	0.00	65.00	46.68
ENGTGPConLat	NOV 2034	MAR 2035	0.00	65.00	9.59
ENGTGPConLat	APR 2035	OCT 2035	0.00	65.00	45.15
ENGTGPConLat	NOV 2035	MAR 2036	0.00	65.00	6.67
ENGTGPConLat	APR 2036	OCT 2036	0.00	65.00	43.73
ENGTGPConLat	NOV 2036	MAR 2037	0.00	65.00	3.97
ENGTGPConLat	APR 2037	OCT 2037	0.00	65.00	42.30
ENGTGPConLat	NOV 2037	MAR 2038	0.00	65.00	2.02
ENGTGPConLat	APR 2038	SEP 2038	0.00	65.00	40.84

RESOURCE MIX RESULTS

Units: MDT

Contract	Start Date	End Date	Min Level	Max Level	Result MDQ
C2C Trnsprtn	NOV 2018	MAR 2019	0.00	65.00	16.91
C2C Trnsprtn	APR 2019	OCT 2019	0.00	65.00	39.89
C2C Trnsprtn	NOV 2019	MAR 2020	0.00	65.00	14.07
C2C Trnsprtn	APR 2020	OCT 2020	0.00	65.00	38.99
C2C Trnsprtn	NOV 2020	MAR 2021	0.00	65.00	12.72
C2C Trnsprtn	APR 2021	OCT 2021	0.00	65.00	38.43
C2C Trnsprtn	NOV 2021	MAR 2022	0.00	65.00	10.93
C2C Trnsprtn	APR 2022	OCT 2022	0.00	65.00	37.91
C2C Trnsprtn	NOV 2022	MAR 2023	0.00	65.00	9.15
C2C Trnsprtn	APR 2023	OCT 2023	0.00	65.00	37.04
C2C Trnsprtn	NOV 2023	MAR 2024	0.00	65.00	5.57
C2C Trnsprtn	APR 2024	OCT 2024	0.00	65.00	36.41
C2C Trnsprtn	NOV 2024	MAR 2025	0.00	65.00	5.50
C2C Trnsprtn	APR 2025	OCT 2025	0.00	65.00	35.98
C2C Trnsprtn	NOV 2025	MAR 2026	0.00	65.00	3.84
C2C Trnsprtn	APR 2026	OCT 2026	0.00	65.00	35.63
C2C Trnsprtn	NOV 2026	MAR 2027	0.00	65.00	2.07
C2C Trnsprtn	APR 2027	OCT 2027	0.00	65.00	34.97
C2C Trnsprtn	NOV 2027	MAR 2028	0.00	65.00	0.02
C2C Trnsprtn	APR 2028	OCT 2028	0.00	65.00	34.43
C2C Trnsprtn	NOV 2028	MAR 2029	0.00	65.00	0.02
C2C Trnsprtn	APR 2029	OCT 2029	0.00	65.00	33.99
C2C Trnsprtn	NOV 2029	MAR 2030	0.00	65.00	0.02
C2C Trnsprtn	APR 2030	OCT 2030	0.00	65.00	33.53
C2C Trnsprtn	NOV 2030	MAR 2031	0.00	65.00	0.02
C2C Trnsprtn	APR 2031	OCT 2031	0.00	65.00	33.10
C2C Trnsprtn	NOV 2031	MAR 2032	0.00	65.00	0.02
C2C Trnsprtn	APR 2032	OCT 2032	0.00	65.00	32.58
C2C Trnsprtn	NOV 2032	MAR 2033	0.00	65.00	0.02
C2C Trnsprtn	APR 2033	OCT 2033	0.00	65.00	31.64
C2C Trnsprtn	NOV 2033	MAR 2034	0.00	65.00	0.02
C2C Trnsprtn	APR 2034	OCT 2034	0.00	65.00	31.10
C2C Trnsprtn	NOV 2034	MAR 2035	0.00	65.00	0.02
C2C Trnsprtn	APR 2035	OCT 2035	0.00	65.00	30.50
C2C Trnsprtn	NOV 2035	MAR 2036	0.00	65.00	0.02
C2C Trnsprtn	APR 2036	OCT 2036	0.00	65.00	29.75
C2C Trnsprtn	NOV 2036	MAR 2037	0.00	65.00	0.02
C2C Trnsprtn	APR 2037	OCT 2037	0.00	65.00	29.34
C2C Trnsprtn	NOV 2037	MAR 2038	0.00	65.00	0.02
C2C Trnsprtn	APR 2038	SEP 2038	0.00	65.00	30.36

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

DG 14-380

Petition for Approval of a Firm Transportation Agreement with the Tennessee Gas Pipeline
Company, LLC

OCA Data Requests - Set 2

Date Request Received: 3/27/15
Request No. OCA 2-2

Date of Response: 4/13/15
Respondent: Francisco C. DaFonte

REQUEST

Ref. DaFonte Testimony, Attachments FCD-5. Please conduct a variant SENDOUT® run assuming that the Atlantic Bridge capacity is 65,000 Dth per day, and that Energy North's existing capacity from Dracut to its city gates on the Concord Lateral remains in place up to 2038. Please identify any additional assumptions that were made in running this scenario.

RESPONSE:

Attachment OCA-2-2 provides the requested SENDOUT® model run for the Atlantic Bridge alternative.

The pricing assumptions in the requested SENDOUT® run are similar to those used in the SENDOUT® run in Attachment FCD-5 with the following differences:

1. Contracted volume reduced from 115,000 Dth to 65,000 Dth.
2. Capacity mitigation revenues were not included in Attachment FCD-5 but are included in Attachment OCA-2-2.
3. The requested SENDOUT® run has an option to buy up to 50,000 Dth of supply at Dracut, MA and/or 65,000 Dth on the Atlantic Bridge project at Ramapo/Mahwah, NJ.

- Draw 0

NOV 2018 thru OCT 2019

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	79436	Injection Cost	45	Transportation Cost	2234	JAN 19, 2019	
Penalty Cost	0	Withdrawal Cost	44	Other Variable Cost	0	System Served	164.53
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	164.53
Total Variable	79436	Total Variable	89	Total Variable	2235		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	82028		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	82028		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	8807		
Net Supply Cost	81062	Net Storage Cost	1519	Net Trans Cost	75455	Total Gas Cost	166844
						Total Revenue	8807
						Net Cost	158037

Avg Cost of Served Demand 9.543 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.526 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.					
ENGIDesign	17483.2	0.0	17483.2	0.0	17483.2	17483.2	0.0	0	164.5	0.0
Total	17483.2	0.0	17483.2	0.0	17483.2	17483.2	0.0	0	164.5	0.0

Source	Supply Summary									
	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	3102.4	18250.0	15147.6			4.3587	13522	0	13522	4.3587
ENGNiagara	857.8	1167.3	309.5			3.8786	3327	0	3327	3.8786
ENGPNGTS	84.0	84.0	0.0			7.8366	658	0	658	7.8366
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	63.6	91.7	28.1			21.2978	1355	0	1355	21.2978
ENG-Z4	3027.3	3029.5	2.2			3.9668	12009	0	12009	3.9668
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	111.6	250.0	138.4		285.6	13.0094	1451	1500	2951	26.4544
ENGC3Summer	5.6	93.5	87.9			21.2690	119	0	119	21.2690

- Draw 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
DLiqSummer	21.0	21.0	0.0			12.7444	268	126	394	18.7444
ENGDawn	819.6	2190.0	1370.4			4.3262	3546	0	3546	4.3262
Ramapo	9489.9	41975.0	32485.1			4.3008	40814	0	40814	4.3008
DRACUT SW	327.0	18250.0	17923.0			7.2371	2367	0	2367	7.2371
Total	17909.8				285.6		79436	1626	81062	

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	132.6	132.6	0	0.0	13	100	0.0	0	131	167	36
ENGPropane	77	100	69.2	69.2	0	0.0	77	100	0.0	0	1053	1613	561
ENGFSMA	1482	95	1685.8	1652.1	0	18.0	1498	96	0.0	16	5559	6088	529
ENGDominion	103	100	102.8	100.8	0	2.0	103	100	0.0	0	385	424	39
ENGNFG	671	100	683.0	677.6	0	5.4	671	100	5.4	0	2516	2775	260
ENGHON	246	100	228.7	228.7	0	0.0	246	100	0.0	0	923	1000	77
Total	2592	97	2902.1	2861.0	0	25.4	2608	98	5.4	16	10566	12067	1501

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	3102.4	0.0	3102.4	8667.8	5565.5	0	6298	0	6298	2.0300		
ENGTGP2Stg	1001.2	29.0	972.2	7882.5	6910.3	68	0	0	68	0.0682		
ENGTGPLong	3371.2	106.5	3264.7	7882.5	4617.9	879	4207	0	5086	1.5086		
ENGTGPBND	857.8	9.0	848.8	1139.5	290.7	70	276	0	346	0.4033		
ENGTGPShort	2653.9	39.3	2614.6	10262.0	7647.3	285	3079	0	3364	1.2677		
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000		
ENGIGTS	808.9	8.1	800.8	1825.0	1024.2	4	320	0	324	0.4008		
ENGTGPANE	800.8	8.4	792.4	1460.0	667.6	66	353	0	419	0.5229		
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537		
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000		
ENGLNG	132.6	0.0	132.6	8654.9	8522.3	0	0	0	0	0.0000		
ENGPropane	69.2	0.0	69.2	12775.0	12705.8	0	0	0	0	0.0000		
ENGC3Truck	69.2	0.0	69.2	2046.7	1977.5	69	0	0	69	1.0000		
ENGTGPDracut	9664.7	41.6	9623.1	17420.9	7797.7	339	5549	8	5879	0.6083		
ENGDawn2Wadd	819.6	10.7	808.9	2190.0	1381.1	17	568	0	585	0.7135		

- Draw 0

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
ENGTGPConLat	54.9	0.2	54.6	1790.6	1735.9	2	19124	219	18906	344.5041
ENGTGPZ4	2101.2	29.2	2071.9	36500.0	34428.1	236	2171	0	2407	1.1457
Z4toTGPLH	1299.2	0.0	1299.2	3650.0	2350.8	0	0	0	0	0.0000
Z4toStg	1728.1	0.0	1728.1	2140.0	411.9	0	0	0	0	0.0000
AtlBr Trnspn	9489.9	97.4	9392.6	11737.9	2345.4	199	39601	8579	31220	3.2898
Total		380.2				2235	82028	8807	75455	1.9800

- Draw 0

NOV 2019 thru OCT 2020

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	85462	Injection Cost	45	Transportation Cost	2274	JAN 19, 2020	
Penalty Cost	0	Withdrawal Cost	44	Other Variable Cost	0	System Served	167.77
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
Total Variable	85462	Total Variable	89	Total Variable	2274	Total	167.77
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	82028		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	82028		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	8100		
Net Supply Cost	87088	Net Storage Cost	1519	Net Trans Cost	76202	Total Gas Cost	172909
						Total Revenue	8100
						Net Cost	164809
Avg Cost of Served Demand	9.552 USD/DT	Avg Cost of Gas Purchased	4.702 USD/DT				
(System Cost/Served Dem.)		(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
ENGIDesign	18102.5	0.0	18102.5	0.0	18102.5	18102.5	0.0	0	167.8	0.0
Total	18102.5	0.0	18102.5	0.0	18102.5	18102.5	0.0	0	167.8	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	3105.7	18300.0	15194.3			4.5269	14059	0	14059	4.5269
ENGNiagara	858.5	1170.5	311.9			4.0460	3474	0	3474	4.0460
ENGPNGTS	84.3	84.3	0.0			8.0101	676	0	676	8.0101
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	50.3	91.7	41.5			21.4757	1080	0	1080	21.4757
ENG-Z4	3036.3	3037.8	1.5			4.1331	12549	0	12549	4.1331
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	123.9	250.0	126.1		273.2	13.1813	1634	1500	3134	25.2844
ENGC3Summer	16.8	93.5	76.6			21.3643	359	0	359	21.3643

- Draw 0

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
DLiqSummer	21.0	21.0	0.0			12.8995	271	126	397	18.8995
ENGDawn	822.0	2196.0	1374.0			4.4967	3696	0	3696	4.4967
Ramapo	10065.1	42090.0	32024.9			4.4849	45141	0	45141	4.4849
DRACUT SW	338.5	18300.0	17961.5			7.4536	2523	0	2523	7.4536
Total	18522.5						85462	1626	87088	

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	167	169	2
ENGPropane	77	100	67.1	67.1	0	0.0	77	100	0.0	0	1613	1703	90
ENGFSMA	1498	96	1666.2	1648.3	0	17.8	1498	96	0.0	0	6088	6327	239
ENGDominion	103	100	106.3	104.3	0	2.1	103	100	0.0	0	424	440	17
ENGNFG	671	100	682.7	677.4	0	5.4	671	100	5.4	0	2775	2886	110
ENGHON	246	100	229.4	229.4	0	0.0	246	100	0.0	0	1000	1044	44
Total	2608	98	2896.7	2871.4	0	25.3	2608	98	5.4	0	12067	12569	502

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	3105.7	0.0	3105.7	8691.6	5585.9	0	6298	0	6298	2.0279		
ENGTGP2Stg	984.2	28.5	955.7	7904.1	6948.4	67	0	0	67	0.0682		
ENGTGPLong	3399.3	107.4	3291.8	7904.1	4612.3	886	4207	0	5093	1.4983		
ENGTGPBND	858.5	9.0	849.5	1142.7	293.1	70	276	0	346	0.4030		
ENGTGPShort	2654.0	39.3	2614.7	10290.1	7675.4	285	3079	0	3364	1.2676		
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000		
ENGIGTS	811.4	8.1	803.2	1830.0	1026.8	4	320	0	324	0.3996		
ENGTGPANE	803.2	8.4	794.8	1464.0	669.2	66	353	0	419	0.5216		
ENGPNGTS	84.3	0.8	83.5	366.0	282.5	0	483	0	483	5.7283		
ENGTGPAES	0.0	0.0	0.0	5490.0	5490.0	0	0	0	0	0.0000		
ENGLNG	144.9	0.0	144.9	8678.6	8533.7	0	0	0	0	0.0000		
ENGPropane	67.1	0.0	67.1	12810.0	12742.9	0	0	0	0	0.0000		
ENGC3Truck	67.1	0.0	67.1	2052.3	1985.2	67	0	0	67	1.0000		
ENGTGPDracut	10223.8	44.0	10179.8	17917.7	7737.9	358	5549	4	5903	0.5774		
ENGDawn2Wadd	822.0	10.7	811.4	2196.0	1384.6	17	568	0	585	0.7114		

- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 12-Apr-2015
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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
ENGTGPConLat	76.6	0.3	76.3	2281.3	2205.0	3	19124	215	18911	246.9072
ENGTGPZ4	2121.4	29.5	2091.9	36600.0	34508.1	238	2171	0	2410	1.1358
Z4toTGPLH	1307.3	0.0	1307.3	3660.0	2352.7	0	0	0	0	0.0000
Z4toStg	1729.0	0.0	1729.0	2140.0	411.0	0	0	0	0	0.0000
AtlBr Trnspn	10065.1	103.2	9961.9	12364.1	2402.2	211	39601	7881	31931	3.1725
Total		389.3				2274	82028	8100	76202	1.9377

- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1
Report 1

NOV 2020 thru OCT 2021

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	89081	Injection Cost	45	Transportation Cost	2277	JAN 19, 2021	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	0	System Served	171.23
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
Total Variable	89081	Other Variable Cost	0	Total Variable	2277	Total	171.23
Demand/Reservation Co	0	Total Variable	88				
Other Fixed Cost	1626	Demand Cost	711	Demand Cost	82028		
Total Fixed	1626	Other Fixed Cost	720	Other Fixed Cost	0		
		Total Fixed	1431	Total Fixed	82028		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	7558		
Net Supply Cost	90707	Net Storage Cost	1519	Net Trans Cost	76747	Total Gas Cost	176531
						Total Revenue	7558
						Net Cost	168973

Avg Cost of Served Demand 9.642 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 4.843 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.					
ENGIDesign	18308.9	0.0	18308.9	0.0	18308.9	18308.9	0.0	0	171.2	0.0
Total	18308.9	0.0	18308.9	0.0	18308.9	18308.9	0.0	0	171.2	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	3085.6	18250.0	15164.4			4.6638	14391	0	14391	4.6638
ENGNIagara	853.6	1167.3	313.7			4.2081	3592	0	3592	4.2081
ENGPNGTS	84.0	84.0	0.0			8.1062	681	0	681	8.1062
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	54.6	91.7	37.1			21.6155	1181	0	1181	21.6155
ENG-24	3027.7	3029.5	1.8			4.2796	12958	0	12958	4.2796
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	112.8	250.0	137.2		284.3	13.3236	1503	1500	3003	26.6193
ENGC3Summer	16.8	93.5	76.6			21.5177	362	0	362	21.5177

- Draw 0

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
DLiqSummer	21.0	21.0	0.0			13.0305	274	126	400	19.0305
ENGDawn	741.9	2190.0	1448.1			4.6275	3466	0	3466	4.6275
Ramapo	10313.6	41975.0	31661.4			4.6275	47726	0	47726	4.6275
DRACUT SW	417.2	18250.0	17832.8			7.0680	2949	0	2949	7.0680
Total	18728.8						89081	1626	90707	

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	133.8	133.8	0	0.0	13	100	0.0	0	169	171	2
ENGPropane	77	100	71.5	71.5	0	0.0	77	100	0.0	0	1703	1727	24
ENGFSMA	1498	96	1664.4	1646.6	0	17.8	1498	96	0.0	0	6327	6504	177
ENGDominion	103	100	102.8	100.8	0	2.0	103	100	0.0	0	440	456	16
ENGNFG	671	100	682.7	677.3	0	5.4	671	100	5.4	0	2886	3004	119
ENGHON	246	100	228.7	228.7	0	0.0	246	100	0.0	0	1044	1078	34
Total	2608	98	2883.9	2858.7	0	25.2	2608	98	5.4	0	12569	12942	373

Transportation Summary													
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost			
ENGTGPProd	3085.6	0.0	3085.6	8667.8	5582.3	0	6298	0	6298	2.0411			
ENGTGP2Stg	977.6	28.4	949.3	7882.5	6933.2	67	0	0	67	0.0682			
ENGTGPLong	3377.1	106.7	3270.3	7882.5	4612.2	881	4207	0	5087	1.5064			
ENGTGPBND	853.6	9.0	844.6	1139.5	294.9	70	276	0	346	0.4049			
ENGTGPShort	2648.0	39.2	2608.9	10262.0	7653.1	284	3079	0	3364	1.2702			
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000			
ENIGTS	732.2	7.3	724.9	1825.0	1100.1	3	320	0	324	0.4423			
ENGTGPANE	724.9	7.6	717.3	1460.0	742.7	59	353	0	413	0.5691			
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537			
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000			
ENGLNG	133.8	0.0	133.8	8654.9	8521.1	0	0	0	0	0.0000			
ENGPropane	71.5	0.0	71.5	12775.0	12703.5	0	0	0	0	0.0000			
ENGC3Truck	71.5	0.0	71.5	2046.7	1975.3	71	0	0	71	1.0000			
ENGTGPDracut	10527.4	45.3	10482.1	18186.6	7704.5	369	5549	1	5917	0.5621			
ENGDawn2Wadd	741.9	9.6	732.2	2190.0	1457.8	15	568	0	583	0.7860			

- Draw 0

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
ENGTGPConLat	97.7	0.4	97.3	2639.3	2542.0	3	19124	211	18916	193.6029
ENGTGPZ4	2107.9	29.3	2078.6	36500.0	34421.4	237	2171	0	2408	1.1424
Z4toTGPLH	1298.4	0.0	1298.4	3650.0	2351.6	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
AtlBr Trnspr	10313.6	105.7	10207.9	12705.2	2497.3	216	39601	7347	32470	3.1483
Total		389.4				2277	82028	7558	76747	1.9392

- Draw 0

NOV 2021 thru OCT 2022

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	93184	Injection Cost	45	Transportation Cost	2295	JAN 19, 2022	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	0	System Served	174.09
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	174.09
Total Variable	93184	Total Variable	89	Total Variable	2295		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	82028		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	82028		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	7058		
Net Supply Cost	94810	Net Storage Cost	1519	Net Trans Cost	77265	Total Gas Cost	180652
						Total Revenue	7058
						Net Cost	173594
Avg Cost of Served Demand	9.713 USD/DT	Avg Cost of Gas Purchased	4.984 USD/DT				
(System Cost/Served Dem.)		(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
ENGI Design	18598.1	0.0	18598.1	0.0	18598.1	18598.1	0.0	0	174.1	0.0
Total	18598.1	0.0	18598.1	0.0	18598.1	18598.1	0.0	0	174.1	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	3085.8	18250.0	15164.2			4.7998	14811	0	14811	4.7998
ENGNiagara	851.5	1167.3	315.7			4.3455	3700	0	3700	4.3455
ENGPNGTS	84.0	84.0	0.0			8.2453	692	0	692	8.2453
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	36.4	91.7	55.3			21.8139	794	0	794	21.8139
ENG-Z4	3027.5	3029.5	2.0			4.4131	13361	0	13361	4.4131
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	112.6	250.0	137.4		284.6	13.4732	1517	1500	3017	26.7970
ENGC3Summer	36.6	93.5	56.8			21.6355	792	0	792	21.6355

- Draw 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
DliqSummer	21.0	21.0	0.0			13.1527	276	126	402	19.1527
ENGDawn	740.8	2190.0	1449.2			4.8157	3567	0	3567	4.8157
Ramapo	10601.8	41975.0	31373.2			4.7727	50599	0	50599	4.7727
DRACUT SW	424.1	18250.0	17825.9			7.2475	3074	0	3074	7.2475
Total	19022.1						93184	1626	94810	

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	133.6	133.6	0	0.0	13	100	0.0	0	171	173	2
ENGPropane	77	100	73.0	73.0	0	0.0	77	100	0.0	0	1727	1741	14
ENGFSMA	1498	96	1660.7	1643.0	0	17.8	1498	96	0.0	0	6504	6686	181
ENGDominion	103	100	105.7	103.7	0	2.1	103	100	0.0	0	456	469	13
ENGNFG	671	100	682.6	677.2	0	5.4	671	100	5.3	0	3004	3092	87
ENGHON	246	100	228.7	228.7	0	0.0	246	100	0.0	0	1078	1108	29
Total	2608	98	2884.4	2859.2	0	25.2	2608	98	5.3	0	12942	13268	326

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	3085.8	0.0	3085.8	8667.8	5582.0	0	6298	0	6298	2.0409		
ENGTGP2Stg	976.8	28.3	948.5	7882.5	6934.1	67	0	0	67	0.0682		
ENGTGPLong	3377.8	106.7	3271.1	7882.5	4611.4	881	4207	0	5087	1.5061		
ENGTGPBND	851.5	8.9	842.6	1139.5	296.9	70	276	0	345	0.4057		
ENGTGPShort	2647.2	39.2	2608.0	10262.0	7653.9	284	3079	0	3364	1.2706		
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000		
ENGIGTS	731.2	7.3	723.9	1825.0	1101.1	3	320	0	324	0.4429		
ENGTGPANE	723.9	7.6	716.3	1460.0	743.7	59	353	0	412	0.5698		
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537		
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000		
ENGLNG	133.6	0.0	133.6	8654.9	8521.3	0	0	0	0	0.0000		
ENGPropane	73.0	0.0	73.0	12775.0	12702.0	0	0	0	0	0.0000		
ENGC3Truck	73.0	0.0	73.0	2046.7	1973.7	73	0	0	73	1.0000		
ENGTGPDracut	10755.7	46.2	10709.5	18250.0	7540.5	377	5549	0	5926	0.5509		
ENGDawn2Wadd	740.8	9.6	731.2	2190.0	1458.8	15	568	0	583	0.7871		

- Draw 0

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
ENGTGPConLat	161.6	0.7	160.9	3332.4	3171.5	6	19124	204	18925	117.1164
ENGTGPZ4	2109.0	29.3	2079.7	36500.0	34420.3	237	2171	0	2408	1.1419
Z4toTGPLH	1298.2	0.0	1298.2	3650.0	2351.8	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
AtlBr Trnspn	10601.8	108.6	10493.2	13084.1	2590.9	222	39601	6854	32969	3.1098
Total		393.5				2295	82028	7058	77265	1.9242

- Draw 0

Ventyx
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Report 1

NOV 2022 thru OCT 2023

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	97050	Injection Cost	45	Transportation Cost	2307	JAN 19, 2023	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	1	System Served	176.85
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	176.85
Total Variable	97050	Total Variable	88	Total Variable	2308		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	82028		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	82028		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	6580		
Net Supply Cost	98676	Net Storage Cost	1519	Net Trans Cost	77756	Total Gas Cost	184531
						Total Revenue	6580
						Net Cost	177951

Avg Cost of Served Demand 9.766 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.107 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.					
ENGIDesign	18895.1	0.0	18895.1	0.0	18895.1	18895.1	0.0	0	176.9	0.0
Total	18895.1	0.0	18895.1	0.0	18895.1	18895.1	0.0	0	176.9	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	3076.8	18250.0	15173.2			4.9162	15126	0	15126	4.9162
ENGNiagara	851.6	1167.3	315.7			4.4630	3801	0	3801	4.4630
ENGPNGTS	84.0	84.0	0.0			8.3638	702	0	702	8.3638
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	73.9	91.7	17.8			21.8397	1614	0	1614	21.8397
ENG-Z4	3027.6	3029.5	1.9			4.5279	13708	0	13708	4.5279
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	112.8	250.0	137.2		284.3	13.5936	1534	1500	3034	26.8883
ENGC3Summer	0.6	93.5	92.9			21.7040	13	0	13	21.7040

- Draw 0

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
DLiqSummer	21.0	21.0	0.0			13.2589	278	126	404	19.2589
ENGDawn	672.3	2190.0	1517.7			4.9644	3338	0	3338	4.9644
Ramapo	10894.7	41975.0	31080.3			4.8990	53373	0	53373	4.8990
DRACUT SW	505.7	18250.0	17744.3			7.0453	3563	0	3563	7.0453
Total	19320.9						97050	1626	98676	

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	133.8	133.8	0	0.0	13	100	0.0	0	173	174	2
ENGPropane	77	100	74.5	74.5	0	0.0	77	100	0.0	0	1741	1750	9
ENGFMSA	1498	96	1657.8	1640.1	0	17.7	1498	96	0.0	0	6686	6876	190
ENGDominion	103	100	102.8	100.8	0	2.0	103	100	0.0	0	469	479	9
ENGNFG	671	100	682.5	677.1	0	5.4	671	100	5.3	0	3092	3138	47
ENGHON	246	100	223.2	223.2	0	0.0	246	100	0.0	0	1108	1132	24
Total	2608	98	2874.6	2849.5	0	25.1	2608	98	5.3	0	13268	13549	281

Transportation Summary													
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost			
ENGTGPProd	3076.8	0.0	3076.8	8667.8	5591.1	0	6298	0	6298	2.0469			
ENGTGP2Stg	964.9	28.0	936.9	7882.5	6945.6	66	0	0	66	0.0682			
ENGTGPLong	3380.8	106.8	3273.9	7882.5	4608.6	882	4207	0	5088	1.5050			
ENGTGPBND	851.6	8.9	842.7	1139.5	296.9	70	276	0	345	0.4056			
ENGTGPShort	2635.8	39.0	2596.8	10262.0	7665.2	283	3079	0	3362	1.2756			
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000			
ENIGTS	663.6	6.6	656.9	1825.0	1168.1	3	320	0	324	0.4876			
ENGTGPANE	656.9	6.9	650.0	1460.0	810.0	54	353	0	407	0.6195			
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537			
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000			
ENGLNG	133.8	0.0	133.8	8654.9	8521.1	0	0	0	0	0.0000			
ENGPropane	74.5	0.0	74.5	12775.0	12700.5	0	0	0	0	0.0000			
ENGC3Truck	74.5	0.0	74.5	2046.7	1972.2	75	0	0	75	1.0000			
ENGTGPDracut	11021.6	47.4	10974.2	18250.0	7275.8	386	5549	0	5935	0.5385			
ENGDawn2Wadd	672.3	8.7	663.6	2190.0	1526.4	14	568	0	582	0.8652			

- Draw 0

Ventyx

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Report 1 (Continued)

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NOV 2022 thru OCT 2023

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary
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Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPConLat	267.2	1.1	266.0	4107.0	3841.0	9	19124	196	18937	70.8747
ENGTGPZ4	2111.9	29.4	2082.5	36500.0	34417.5	237	2171	0	2409	1.1405
Z4toTGPLH	1298.3	0.0	1298.3	3650.0	2351.7	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
AtlBr Trnspn	10894.7	111.6	10783.1	13436.9	2653.9	229	39601	6383	33446	3.0699
Total		395.4				2308	82028	6580	77756	1.9155

- Draw 0

NOV 2023 thru OCT 2024

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	101363	Injection Cost	45	Transportation Cost	2336	JAN 19, 2024	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	1	System Served	179.79
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
Total Variable	101363	Total Variable	88	Total Variable	2337	Total	179.79
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	82028		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	82028		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	6002		
Net Supply Cost	102989	Net Storage Cost	1519	Net Trans Cost	78363	Total Gas Cost	188873
						Total Revenue	6002
						Net Cost	182871
Avg Cost of Served Demand 9.773 USD/DT (System Cost/Served Dem.)		Avg Cost of Gas Purchased 5.212 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
ENGI Design	19326.8	0.0	19326.8	0.0	19326.8	19326.8	0.0	0	179.8	0.0
Total	19326.8	0.0	19326.8	0.0	19326.8	19326.8	0.0	0	179.8	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	3088.1	18300.0	15211.9			5.0111	15475	0	15475	5.0111
ENGNiagara	851.4	1170.5	319.1			4.5590	3881	0	3881	4.5590
ENGPNGTS	84.3	84.3	0.0			8.4814	715	0	715	8.4814
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	73.8	91.7	18.0			21.9163	1617	0	1617	21.9163
ENG-Z4	3035.4	3037.8	2.4			4.6165	14013	0	14013	4.6165
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	123.0	250.0	127.0		274.1	13.7062	1686	1500	3186	25.8991
ENGC3Summer	0.3	93.5	93.2			21.7830	7	0	7	21.7830

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
DliqSummer	21.0	21.0	0.0			13.3277	280	126	406	19.3277
ENGDawn	675.8	2196.0	1520.2			5.0688	3426	0	3426	5.0688
Ramapo	11302.4	42090.0	30787.6			5.0102	56627	0	56627	5.0102
DRACUT SW	503.8	18300.0	17796.2			7.2167	3636	0	3636	7.2167
Total	19759.4						101363	1626	102989	

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	144.0	144.0	0	0.0	13	100	0.0	0	174	175	1
ENGPropane	77	100	74.1	74.1	0	0.0	77	100	0.0	0	1750	1756	6
ENGFSMA	1498	96	1652.8	1635.1	0	17.7	1498	96	0.0	0	6876	6983	107
ENGDominion	103	100	106.3	104.3	0	2.1	103	100	0.0	0	479	493	14
ENGNFG	671	100	682.0	676.6	0	5.4	671	100	5.3	0	3138	3177	39
ENGHON	246	100	224.2	224.2	0	0.0	246	100	0.0	0	1132	1150	18
Total	2608	98	2883.4	2858.2	0	25.1	2608	98	5.3	0	13549	13733	184

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	3088.1	0.0	3088.1	8691.6	5603.5	0	6298	0	6298	2.0394	
ENGTGP2Stg	963.9	28.0	936.0	7904.1	6968.2	66	0	0	66	0.0682	
ENGTGPLong	3400.8	107.5	3293.3	7904.1	4610.8	887	4207	0	5093	1.4977	
ENGTGPBND	851.4	8.9	842.4	1142.7	300.2	70	276	0	345	0.4057	
ENGTGPSShort	2634.8	39.0	2595.8	10290.1	7694.3	283	3079	0	3362	1.2761	
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
ENGIGTS	667.0	6.7	660.3	1830.0	1169.7	3	320	0	324	0.4851	
ENGTGPANE	660.3	6.9	653.4	1464.0	810.6	54	353	0	407	0.6167	
ENGPNGTS	84.3	0.8	83.5	366.0	282.5	0	483	0	483	5.7283	
ENGTGPAES	0.0	0.0	0.0	5490.0	5490.0	0	0	0	0	0.0000	
ENGLNG	144.0	0.0	144.0	8678.6	8534.6	0	0	0	0	0.0000	
ENGPropane	74.1	0.0	74.1	12810.0	12735.9	0	0	0	0	0.0000	
ENGC3Truck	74.1	0.0	74.1	2052.3	1978.3	74	0	0	74	1.0000	
ENGTGPDracut	11307.7	48.6	11259.1	18300.0	7040.9	396	5549	0	5945	0.5258	
ENGDawn2Wadd	675.8	8.8	667.0	2196.0	1529.0	14	568	0	582	0.8608	

- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1
Report 1 (Continued)

NOV 2023 thru OCT 2024

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary
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Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPConLat	382.8	1.6	381.2	4857.0	4475.8	13	19124	189	18948	49.4950
ENGTGPZ4	2124.2	29.5	2094.7	36600.0	34505.3	239	2171	0	2410	1.1345
Z4toTGPLH	1306.1	0.0	1306.1	3660.0	2353.9	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
AtlBr Trnspr	11302.4	115.7	11186.7	13940.0	2753.3	237	39601	5812	34025	3.0105
Total		402.1				2337	82028	6002	78363	1.8896

- Draw 0

NOV 2024 thru OCT 2025

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	103368	Injection Cost	45	Transportation Cost	2339	JAN 19, 2025	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	1	System Served	182.42
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	182.42
Total Variable	103368	Total Variable	88	Total Variable	2340		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	82028		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	82028		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	5593		
Net Supply Cost	104994	Net Storage Cost	1519	Net Trans Cost	78775	Total Gas Cost	190881
						Total Revenue	5593
						Net Cost	185288

Avg Cost of Served Demand 9.808 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.277 USD/DT
(Supply Cost/LDC Purchase)

Class	Demand Summary						Revenue	Peak Served	Peak Unserved	
	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Served				Unserved
ENGIDesign	19462.2	0.0	19462.2	0.0	19462.2	19462.2	0.0	0	182.4	0.0
Total	19462.2	0.0	19462.2	0.0	19462.2	19462.2	0.0	0	182.4	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	3065.2	18250.0	15184.8			5.0809	15574	0	15574	5.0809
ENGNiagara	845.4	1167.3	321.9			4.6277	3912	0	3912	4.6277
ENGPNGTS	84.0	84.0	0.0			8.5309	716	0	716	8.5309
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	74.6	91.7	17.1			21.9953	1641	0	1641	21.9953
ENG-Z4	3026.6	3029.5	2.9			4.6789	14161	0	14161	4.6789
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	113.1	250.0	136.9		284.1	13.7909	1559	1500	3059	27.0591
ENGC3Summer	3.0	93.5	90.5			21.8938	65	0	65	21.8938

- Draw 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
DLiqSummer	21.0	21.0	0.0			13.3773	281	126	407	19.3773
ENGDawn	670.9	2190.0	1519.1			5.1453	3452	0	3452	5.1453
Ramapo	11486.7	41975.0	30488.3			5.0753	58298	0	58298	5.0753
DRACUT SW	505.5	18250.0	17744.5			7.3360	3708	0	3708	7.3360
Total	19895.8						103368	1626	104994	

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	134.1	134.1	0	0.0	13	100	0.0	0	175	176	1
ENGPropane	77	100	77.6	77.6	0	0.0	77	100	0.0	0	1756	1760	4
ENGFSMA	1498	96	1651.3	1633.6	0	17.7	1498	96	0.0	0	6983	7071	88
ENGDominion	103	100	102.8	100.8	0	2.0	103	100	0.0	0	493	491	-1
ENGNFG	671	100	681.9	676.6	0	5.4	671	100	5.3	0	3177	3210	33
ENGHON	246	100	221.4	221.4	0	0.0	246	100	0.0	0	1150	1156	7
Total	2608	98	2869.0	2843.9	0	25.1	2608	98	5.3	0	13733	13863	130

Transportation Summary													
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost			
ENGTGPProd	3065.2	0.0	3065.2	8667.8	5602.6	0	6298	0	6298	2.0546			
ENGTGP2Stg	955.8	27.7	928.1	7882.5	6954.5	65	0	0	65	0.0682			
ENGTGPLong	3377.4	106.7	3270.7	7882.5	4611.9	881	4207	0	5087	1.5063			
ENGTGPBND	845.4	8.9	836.5	1139.5	303.1	69	276	0	345	0.4080			
ENGTGPShort	2627.0	38.9	2588.1	10262.0	7673.9	282	3079	0	3361	1.2796			
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000			
ENGIGTS	662.2	6.6	655.6	1825.0	1169.4	3	320	0	324	0.4886			
ENGTGPANE	655.6	6.9	648.7	1460.0	811.3	54	353	0	407	0.6206			
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537			
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000			
ENGLNG	134.1	0.0	134.1	8654.9	8520.8	0	0	0	0	0.0000			
ENGPropane	77.6	0.0	77.6	12775.0	12697.4	0	0	0	0	0.0000			
ENG3Truck	77.6	0.0	77.6	2046.7	1969.2	78	0	0	78	1.0000			
ENGTGPDracut	11418.4	49.1	11369.3	18250.0	6880.7	400	5549	0	5949	0.5210			
ENGDawn2Wadd	670.9	8.7	662.2	2190.0	1527.8	14	568	0	582	0.8670			

- Draw 0

NOV 2024 thru OCT 2025

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		Average	
	Flow	Fuel Consumed						Revenue	Net Cost	Net Cost	Net Cost
ENGTGPConLat	456.2	2.0	454.2	5514.6	5060.4	16	19124	182	18958	41.5589	
ENGTGPZ4	2109.4	29.3	2080.1	36500.0	34419.9	237	2171	0	2408	1.1417	
Z4toTGPLH	1297.3	0.0	1297.3	3650.0	2352.7	0	0	0	0	0.0000	
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000	
AtlBr Trnspn	11486.7	117.6	11369.1	14206.4	2837.3	241	39601	5411	34431	2.9975	
Total		403.2				2340	82028	5593	78775	1.8877	

- Draw 0

NOV 2025 thru OCT 2026

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	105870	Injection Cost	45	Transportation Cost	2355	JAN 19, 2026	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	1	System Served	184.77
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	184.77
Total Variable	105870	Total Variable	88	Total Variable	2356		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	82028		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	82028		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	5185		
Net Supply Cost	107496	Net Storage Cost	1519	Net Trans Cost	79199	Total Gas Cost	193399
						Total Revenue	5185
						Net Cost	188213

Avg Cost of Served Demand 9.805 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.332 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
ENGIDesign	19723.5	0.0	19723.5	0.0	19723.5	19723.5	0.0	0	184.8	0.0
Total	19723.5	0.0	19723.5	0.0	19723.5	19723.5	0.0	0	184.8	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	3065.0	18250.0	15185.0			5.1316	15729	0	15729	5.1316
ENGNiagara	845.9	1167.3	321.4			4.6781	3957	0	3957	4.6781
ENGPNGTS	84.0	84.0	0.0			8.5818	721	0	721	8.5818
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	75.9	91.7	15.9			22.0509	1673	0	1673	22.0509
ENG-Z4	3026.6	3029.5	2.9			4.7291	14313	0	14313	4.7291
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	113.9	250.0	136.1		283.2	13.8437	1577	1500	3077	27.0115
ENGC3Summer	3.0	93.5	90.5			21.9427	65	0	65	21.9427

- Draw 0

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
DLiqSummer	21.0	21.0	0.0			13.4261	282	126	408	19.4261
ENGDawn	670.8	2190.0	1519.2			5.1969	3486	0	3486	5.1969
Ramapo	11735.3	41975.0	30239.7			5.1319	60225	0	60225	5.1319
DRACUT SW	519.5	18250.0	17730.5			7.3957	3842	0	3842	7.3957
Total	20160.8						105870	1626	107496	

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	134.9	134.9	0	0.0	13	100	0.0	0	176	176	1
ENGPropane	77	100	78.9	78.9	0	0.0	77	100	0.0	0	1760	1764	4
ENGFSMA	1498	96	1650.2	1632.5	0	17.7	1498	96	0.0	0	7071	7128	57
ENGDominion	103	100	102.8	100.8	0	2.0	103	100	0.0	0	491	508	17
ENGNFG	671	100	682.0	676.6	0	5.4	671	100	5.3	0	3210	3243	33
ENGHON	246	100	220.6	220.6	0	0.0	246	100	0.0	0	1156	1174	18
Total	2608	98	2869.3	2844.2	0	25.0	2608	98	5.3	0	13863	13992	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	3065.0	0.0	3065.0	8667.8	5602.8	0	6298	0	6298	2.0548	
ENGTGP2Stg	953.8	27.7	926.2	7882.5	6956.4	65	0	0	65	0.0682	
ENGTGPLong	3379.1	106.8	3272.3	7882.5	4610.3	881	4207	0	5088	1.5057	
ENGTGPBND	845.9	8.9	837.0	1139.5	302.5	69	276	0	345	0.4078	
ENGTGPShort	2625.1	38.9	2586.2	10262.0	7675.7	282	3079	0	3361	1.2804	
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
ENGTGTS	662.1	6.6	655.5	1825.0	1169.5	3	320	0	324	0.4886	
ENGTGPANE	655.5	6.9	648.6	1460.0	811.4	54	353	0	407	0.6207	
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537	
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000	
ENGLNG	134.9	0.0	134.9	8654.9	8520.0	0	0	0	0	0.0000	
ENGPropane	78.9	0.0	78.9	12775.0	12696.1	0	0	0	0	0.0000	
ENGC3Truck	78.9	0.0	78.9	2046.7	1967.9	79	0	0	79	1.0000	
ENGTGPDracut	11589.1	49.8	11539.2	18250.0	6710.8	406	5549	0	5955	0.5138	
ENGDawn2Wadd	670.8	8.7	662.1	2190.0	1527.9	14	568	0	582	0.8671	

- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1
Report 1 (Continued)

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
ENGTGPConLat	545.7	2.3	543.3	6149.3	5606.0	19	19124	176	18967	34.7598
ENGTGPZ4	2111.2	29.3	2081.8	36500.0	34418.2	237	2171	0	2408	1.1408
Z4toTGPLH	1297.2	0.0	1297.2	3650.0	2352.8	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
AtlBr Trnspn	11735.3	120.1	11615.2	14509.4	2894.2	246	39601	5009	34837	2.9686
Total		406.9				2356	82028	5185	79199	1.8749

- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1
Report 1

NOV 2026 thru OCT 2027

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	108408	Injection Cost	45	Transportation Cost	2372	JAN 19, 2027	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	1	System Served	187.30
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	187.30
Total Variable	108408	Total Variable	88	Total Variable	2373		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	82028		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	82028		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	4749		
Net Supply Cost	110034	Net Storage Cost	1519	Net Trans Cost	79652	Total Gas Cost	195954
						Total Revenue	4749
						Net Cost	191205

Avg Cost of Served Demand 9.804 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.386 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
ENGIDesign	19988.0	0.0	19988.0	0.0	19988.0	19988.0	0.0		0	187.3
Total	19988.0	0.0	19988.0	0.0	19988.0	19988.0	0.0		0	187.3

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	3067.2	18250.0	15182.8			5.1826	15896	0	15896	5.1826
ENGNiagara	846.2	1167.3	321.0			4.7291	4002	0	4002	4.7291
ENGPNGTS	84.0	84.0	0.0			8.6332	725	0	725	8.6332
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	74.3	91.7	17.4			22.1170	1644	0	1644	22.1170
ENG-Z4	3026.6	3029.5	2.9			4.7798	14466	0	14466	4.7798
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	113.7	250.0	136.3		283.5	13.8971	1580	1500	3080	27.0946
ENGC3Summer	5.9	93.5	87.5			21.9265	130	0	130	21.9265

- Draw 0

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
DLiqSummer	21.0	21.0	0.0			13.4754	283	126	409	19.4754
ENGDawn	670.3	2190.0	1519.7			5.2490	3518	0	3518	5.2490
Ramapo	11987.4	41975.0	29987.6			5.1889	62201	0	62201	5.1889
DRACUT SW	532.5	18250.0	17717.5			7.4437	3963	0	3963	7.4437
Total	20429.0						108408	1626	110034	

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	134.7	134.7	0	0.0	13	100	0.0	0	176	177	1
ENGPropane	77	100	80.2	80.2	0	0.0	77	100	0.0	0	1764	1769	5
ENGFSMA	1498	96	1648.7	1631.0	0	17.6	1498	96	0.0	0	7128	7184	56
ENGDominion	103	100	105.7	103.7	0	2.1	103	100	0.0	0	508	501	-7
ENGNFG	671	100	681.9	676.5	0	5.4	671	100	5.3	0	3243	3308	66
ENGHON	246	100	219.6	219.6	0	0.0	246	100	0.0	0	1174	1187	13
Total	2608	98	2870.8	2845.7	0	25.1	2608	98	5.3	0	13992	14126	134

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	3067.2	0.0	3067.2	8667.8	5600.6	0	6298	0	6298	2.0533		
ENGTGP2Stg	954.3	27.7	926.6	7882.5	6956.0	65	0	0	65	0.0682		
ENGTGPLong	3380.9	106.8	3274.0	7882.5	4608.5	882	4207	0	5088	1.5050		
ENGTGPBND	846.2	8.9	837.3	1139.5	302.2	69	276	0	345	0.4077		
ENGTGPShort	2625.5	38.9	2586.6	10262.0	7675.4	282	3079	0	3361	1.2802		
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000		
ENIGTS	661.6	6.6	655.0	1825.0	1170.0	3	320	0	324	0.4890		
ENGTGPANE	655.0	6.9	648.1	1460.0	811.9	54	353	0	407	0.6211		
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537		
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000		
ENGLNG	134.7	0.0	134.7	8654.9	8520.2	0	0	0	0	0.0000		
ENGPropane	80.2	0.0	80.2	12775.0	12694.8	0	0	0	0	0.0000		
ENGC3Truck	80.2	0.0	80.2	2046.7	1966.5	80	0	0	80	1.0000		
ENGTGPDracut	11753.2	50.5	11702.6	18250.0	6547.4	412	5549	0	5961	0.5072		
ENGDawn2Wadd	670.3	8.7	661.6	2190.0	1528.4	14	568	0	582	0.8677		

- Draw 0

Ventyx
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Report 1 (Continued) 17:20:48

NOV 2026 thru OCT 2027

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary

Segment (cont)	Fuel		Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel		Average	
	Total Flow	Consumed						Revenue	Net Cost	Net Cost	Net Cost
ENGTGPConLat	644.0	2.8	641.2	6824.5	6183.3	23	19124	169	18977	29.4690	
ENGTGPZ4	2113.0	29.4	2083.6	36500.0	34416.4	238	2171	0	2409	1.1399	
Z4toTGPH	1297.3	0.0	1297.3	3650.0	2352.7	0	0	0	0	0.0000	
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000	
AtlBr Trnspr	11987.4	122.6	11864.7	14830.7	2966.0	252	39601	4580	35272	2.9425	
Total		410.6				2373	82028	4749	79652	1.8626	

- Draw 0

NOV 2027 thru OCT 2028

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	111842	Injection Cost	45	Transportation Cost	2398	JAN 19, 2028	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	2	System Served	189.94
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
Total Variable	111842	Other Variable Cost	0	Total Variable	2399	Total	189.94
Demand/Reservation Co	0	Total Variable	88				
Other Fixed Cost	1626	Demand Cost	711	Demand Cost	82028		
Total Fixed	1626	Other Fixed Cost	720	Other Fixed Cost	0		
		Total Fixed	1431	Total Fixed	82028		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	4190		
Net Supply Cost	113468	Net Storage Cost	1519	Net Trans Cost	80237	Total Gas Cost	199414
						Total Revenue	4190
						Net Cost	195224

Avg Cost of Served Demand 9.781 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.446 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
ENGIDesign	20388.9	0.0	20388.9	0.0	20388.9	20388.9	0.0	0	189.9	0.0
Total	20388.9	0.0	20388.9	0.0	20388.9	20388.9	0.0	0	189.9	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	3076.5	18300.0	15223.5			5.2356	16108	0	16108	5.2356
ENGNiagara	844.3	1170.5	326.2			4.7841	4039	0	4039	4.7841
ENGPNGTS	84.3	84.3	0.0			8.7062	734	0	734	8.7062
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	68.0	91.7	23.7			22.1829	1508	0	1508	22.1829
ENG-Z4	3033.9	3037.8	3.9			4.8321	14660	0	14660	4.8321
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	122.2	250.0	127.8		274.9	13.9513	1706	1500	3206	26.2214
ENGC3Summer	11.5	93.5	81.9			21.9625	253	0	253	21.9625

- Draw 0

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
DliqSummer	21.0	21.0	0.0			13.5251	284	126	410	19.5251
ENGDawn	672.0	2196.0	1524.0			5.3037	3564	0	3564	5.3037
Ramapo	12373.9	42090.0	29716.1			5.2527	64997	0	64997	5.2527
DRACUT SW	528.3	18300.0	17771.7			7.5495	3989	0	3989	7.5495
Total	20836.1						111842	1626	113468	

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	143.2	143.2	0	0.0	13	100	0.0	0	177	178	1
ENGPropane	77	100	79.5	79.5	0	0.0	77	100	0.0	0	1769	1772	3
ENGFSMA	1498	96	1646.3	1628.7	0	17.6	1498	96	0.0	0	7184	7298	114
ENGDominion	103	100	106.4	104.3	0	2.1	103	100	0.0	0	501	512	11
ENGNFG	671	100	681.2	675.8	0	5.4	671	100	5.3	0	3308	3298	-10
ENGHON	246	100	219.6	219.6	0	0.0	246	100	0.0	0	1187	1200	12
Total	2608	98	2876.3	2851.2	0	25.1	2608	98	5.3	0	14126	14258	132

Transportation Summary										
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPProd	3076.5	0.0	3076.5	8691.6	5615.1	0	6298	0	6298	2.0471
ENGTGP2Stg	951.8	27.6	924.2	7904.1	6979.9	65	0	0	65	0.0682
ENGTGPLong	3399.8	107.4	3292.4	7904.1	4611.8	887	4207	0	5093	1.4981
ENGTGPBND	844.3	8.9	835.4	1142.7	307.2	69	276	0	345	0.4084
ENGTGPShort	2623.1	38.8	2584.3	10290.1	7705.8	282	3079	0	3361	1.2813
ENGDMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000
ENGIGTS	663.3	6.6	656.7	1830.0	1173.3	3	320	0	324	0.4878
ENGTGPANE	656.7	6.9	649.8	1464.0	814.2	54	353	0	407	0.6197
ENGPNGTS	84.3	0.8	83.5	366.0	282.5	0	483	0	483	5.7283
ENGTGPAES	0.0	0.0	0.0	5490.0	5490.0	0	0	0	0	0.0000
ENGLNG	143.2	0.0	143.2	8678.6	8535.3	0	0	0	0	0.0000
ENGPropane	79.5	0.0	79.5	12810.0	12730.5	0	0	0	0	0.0000
ENG3Truck	79.5	0.0	79.5	2052.3	1972.8	80	0	0	80	1.0000
ENGTGPDracut	11990.1	51.6	11938.6	18300.0	6361.4	420	5549	0	5969	0.4978
ENGDawn2Wadd	672.0	8.7	663.3	2196.0	1532.7	14	568	0	582	0.8656

- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1
Report 1 (Continued)

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
ENGTGPConLat	785.6	3.4	782.2	7565.0	6782.8	28	19124	162	18989	24.1721
ENGTGPZ4	2124.7	29.5	2095.2	36600.0	34504.8	239	2171	0	2410	1.1342
Z4toTGPLH	1304.6	0.0	1304.6	3660.0	2355.4	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
AtlBr Trnspn	12373.9	126.5	12247.4	15343.2	3095.8	260	39601	4028	35833	2.8958
Total		416.8				2399	82028	4190	80237	1.8410

- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1
Report 1

NOV 2028 thru OCT 2029

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	113709	Injection Cost	45	Transportation Cost	2403	JAN 19, 2029	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	2	System Served	192.34
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	192.34
Total Variable	113709	Total Variable	88	Total Variable	2405		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	82028		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	82028		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	3844		
Net Supply Cost	115335	Net Storage Cost	1519	Net Trans Cost	80588	Total Gas Cost	201286
						Total Revenue	3844
						Net Cost	197442

Avg Cost of Served Demand 9.802 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.496 USD/DT
(Supply Cost/LDC Purchase)

Demand Summary										
Class	Demand Before DSM	DSM Impact	Net Demand	Imbal. Served	Demand After Unb.	Net Served	Unserved	Revenue	Peak Served	Peak Unserved
ENGIDesign	20534.6	0.0	20534.6	0.0	20534.6	20534.6	0.0	0	192.3	0.0
Total	20534.6	0.0	20534.6	0.0	20534.6	20534.6	0.0	0	192.3	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	3061.3	18250.0	15188.7			5.2870	16185	0	16185	5.2870
ENGNiagara	841.3	1167.3	326.0			4.8351	4068	0	4068	4.8351
ENGPNGTS	84.0	84.0	0.0			8.7377	734	0	734	8.7377
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	63.5	91.7	28.2			22.2771	1415	0	1415	22.2771
ENG-Z4	3025.5	3029.5	4.0			4.8827	14773	0	14773	4.8827
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	114.6	250.0	135.4		282.5	14.0052	1605	1500	3105	27.0921
ENGC3Summer	19.5	93.5	74.0			22.0196	429	0	429	22.0196

- Draw 0

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
DLigSummer	21.0	21.0	0.0			13.5754	285	126	411	19.5754
ENGDawn	667.7	2190.0	1522.3			5.3559	3576	0	3576	5.3559
Ramapo	12544.2	41975.0	29430.8			5.3014	66502	0	66502	5.3014
DRACUT SW	540.8	18250.0	17709.2			7.6501	4137	0	4137	7.6501
Total	20983.3						113709	1626	115335	

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	135.6	135.6	0	0.0	13	100	0.0	0	178	178	1
ENGPropane	77	100	83.0	83.0	0	0.0	77	100	0.0	0	1772	1777	5
ENGFSMA	1498	96	1646.3	1628.7	0	17.6	1498	96	0.0	0	7298	7340	42
ENGDominion	103	100	105.7	103.7	0	2.1	103	100	0.0	0	512	523	11
ENGNFG	671	100	681.7	676.3	0	5.4	671	100	5.3	0	3298	3382	85
ENGHON	246	100	217.4	217.4	0	0.0	246	100	0.0	0	1200	1190	-9
Total	2608	98	2869.8	2844.7	0	25.1	2608	98	5.3	0	14258	14391	134

Transportation Summary													
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost			
ENGTGPProd	3061.3	0.0	3061.3	8667.8	5606.6	0	6298	0	6298	2.0573			
ENGTGP2Stg	949.4	27.5	921.8	7882.5	6960.7	65	0	0	65	0.0682			
ENGTGPLong	3378.7	106.8	3271.9	7882.5	4610.6	881	4207	0	5088	1.5058			
ENGTGPBND	841.3	8.8	832.5	1139.5	307.1	69	276	0	345	0.4096			
ENGTGPShort	2620.7	38.8	2582.0	10262.0	7680.0	281	3079	0	3361	1.2823			
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000			
ENGIGTS	659.0	6.6	652.4	1825.0	1172.6	3	320	0	324	0.4909			
ENGTGPANE	652.4	6.9	645.6	1460.0	814.4	54	353	0	407	0.6232			
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537			
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000			
ENGLNG	135.6	0.0	135.6	8654.9	8519.3	0	0	0	0	0.0000			
ENGPropane	83.0	0.0	83.0	12775.0	12692.0	0	0	0	0	0.0000			
ENGC3Truck	83.0	0.0	83.0	2046.7	1963.7	83	0	0	83	1.0000			
ENGTGPDracut	12086.9	52.0	12034.9	18250.0	6215.1	424	5549	0	5972	0.4941			
ENGDawn2Wadd	667.7	8.7	659.0	2190.0	1531.0	14	568	0	582	0.8710			

- Draw 0

Ventyx

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NOV 2028 thru OCT 2029

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						Revenue		Net Cost
ENGTGPConLat	869.8	3.7	866.1	8180.5	7314.4	31	19124	155	18999	21.8417
ENGTGPZ4	2111.9	29.4	2082.5	36500.0	34417.5	237	2171	0	2409	1.1405
Z4toTGPLH	1296.2	0.0	1296.2	3650.0	2353.8	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
AtlBr Trnspn	12544.2	128.3	12415.9	15550.7	3134.8	263	39601	3689	36175	2.8838
Total		418.2				2405	82028	3844	80588	1.8376

- Draw 0

NOV 2029 thru OCT 2030

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	116406	Injection Cost	45	Transportation Cost	2419	JAN 19, 2030	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	2	System Served	194.85
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	194.85
Total Variable	116406	Total Variable	88	Total Variable	2421		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	82028		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	82028		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	3423		
Net Supply Cost	118032	Net Storage Cost	1519	Net Trans Cost	81026	Total Gas Cost	204000
						Total Revenue	3423
						Net Cost	200578
Avg Cost of Served Demand	9.807 USD/DT	Avg Cost of Gas Purchased	5.554 USD/DT				
(System Cost/Served Dem.)		(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
ENGIDesign	20800.6	0.0	20800.6	0.0	20800.6	20800.6	0.0	0	194.9	0.0
Total	20800.6	0.0	20800.6	0.0	20800.6	20800.6	0.0	0	194.9	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	3060.3	18250.0	15189.7			5.3398	16341	0	16341	5.3398
ENGNIagara	840.0	1167.3	327.3			4.8883	4106	0	4106	4.8883
ENGPNGTS	84.0	84.0	0.0			8.7907	738	0	738	8.7907
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	73.7	91.7	18.0			22.3088	1645	0	1645	22.3088
ENG-Z4	3025.2	3029.5	4.3			4.9350	14929	0	14929	4.9350
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	116.0	250.0	134.0		281.2	14.0598	1631	1500	3131	26.9909
ENGC3Summer	11.2	93.5	82.2			22.0626	247	0	247	22.0626

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
DliqSummer	21.0	21.0	0.0			13.6261	286	126	412	19.6261
ENGDawn	666.2	2190.0	1523.8			5.4100	3604	0	3604	5.4100
Ramapo	12807.4	41975.0	29167.6			5.3590	68635	0	68635	5.3590
DRACUT SW	548.0	18250.0	17702.0			7.7433	4243	0	4243	7.7433
Total	21253.0						116406	1626	118032	

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	137.0	137.0	0	0.0	13	100	0.0	0	178	179	1
ENGPropane	77	100	84.9	84.9	0	0.0	77	100	0.0	0	1777	1781	4
ENGFSMA	1498	96	1645.5	1627.9	0	17.6	1498	96	0.0	0	7340	7416	76
ENGDominion	103	100	105.8	103.7	0	2.1	103	100	0.0	0	523	516	-7
ENGNFG	671	100	681.7	676.3	0	5.4	671	100	5.3	0	3382	3409	26
ENGHON	246	100	216.7	216.7	0	0.0	246	100	0.0	0	1190	1223	32
Total	2608	98	2871.6	2846.5	0	25.1	2608	98	5.3	0	14391	14523	132

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	3060.3	0.0	3060.3	8667.8	5607.6	0	6298	0	6298	2.0579	
ENGTGP2Stg	947.8	27.5	920.4	7882.5	6962.2	65	0	0	65	0.0682	
ENGTGPLong	3379.0	106.8	3272.2	7882.5	4610.3	881	4207	0	5088	1.5057	
ENGTGPBND	840.0	8.8	831.1	1139.5	308.4	69	276	0	344	0.4101	
ENGTGPShort	2619.3	38.8	2580.5	10262.0	7681.5	281	3079	0	3361	1.2830	
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
ENGIGTS	657.6	6.6	651.0	1825.0	1174.0	3	320	0	324	0.4920	
ENGTGPANE	651.0	6.8	644.1	1460.0	815.9	53	353	0	406	0.6244	
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537	
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000	
ENGLNG	137.0	0.0	137.0	8654.9	8517.9	0	0	0	0	0.0000	
ENGPropane	84.9	0.0	84.9	12775.0	12690.1	0	0	0	0	0.0000	
ENGC3Truck	84.9	0.0	84.9	2046.7	1961.8	85	0	0	85	1.0000	
ENGTGPDracut	12232.4	52.6	12179.8	18250.0	6070.2	429	5549	0	5978	0.4887	
ENGDawn2Wadd	666.2	8.7	657.6	2190.0	1532.4	14	568	0	582	0.8729	

- Draw 0

Ventyx
SENDOUT® Version 14.1.1
Report 1 (Continued)

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
ENGTGPConLat	992.0	4.3	987.7	8853.3	7865.6	35	19124	149	19010	19.1630
ENGTGPZ4	2112.5	29.4	2083.1	36500.0	34416.9	237	2171	0	2409	1.1402
Z4toTGPLH	1295.9	0.0	1295.9	3650.0	2354.1	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
AtlBr Trnsfn	12807.4	131.0	12676.5	15878.6	3202.1	269	39601	3274	36595	2.8574
Total		421.9				2421	82028	3423	81026	1.8257

- Draw 0

NOV 2030 thru OCT 2031

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	119714	Injection Cost	45	Transportation Cost	2449	JAN 19, 2031	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	2	System Served	197.89
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	197.89
Total Variable	119714	Total Variable	88	Total Variable	2451		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	82028		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	82028		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	3377		
Net Supply Cost	121340	Net Storage Cost	1519	Net Trans Cost	81102	Total Gas Cost	207338
						Total Revenue	3377
						Net Cost	203962

Avg Cost of Served Demand 9.832 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.632 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
ENGIDesign	21087.7	0.0	21087.7	0.0	21087.7	21087.7	0.0	0	197.9	0.0
Total	21087.7	0.0	21087.7	0.0	21087.7	21087.7	0.0	0	197.9	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	3071.5	18250.0	15178.5			5.3929	16564	0	16564	5.3929
ENGNIagara	840.4	1167.3	326.9			4.9414	4153	0	4153	4.9414
ENGPNGTS	84.0	84.0	0.0			8.8442	743	0	743	8.8442
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	91.7	91.7	0.0			22.3938	2054	0	2054	22.3938
ENG-Z4	3025.2	3029.5	4.3			4.9877	15089	0	15089	4.9877
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	131.2	250.0	118.8		266.0	14.1147	1852	1500	3352	25.5478
ENGC3Summer	7.0	93.5	86.5			22.1111	154	0	154	22.1111

- Draw 0

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
DLiqSummer	21.0	21.0	0.0			13.6774	287	126	413	19.6774
ENGDawn	668.3	2190.0	1521.7			5.4638	3652	0	3652	5.4638
Ramapo	13026.4	41975.0	28948.6			5.4157	70547	0	70547	5.4157
DRACUT SW	577.1	18250.0	17672.9			8.0044	4620	0	4620	8.0044
Total	21543.9						119714	1626	121340	

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	152.2	152.2	0	0.0	13	100	0.0	0	179	180	1
ENGPropane	77	100	98.7	98.7	0	0.0	77	100	0.0	0	1781	1786	5
ENGFSMA	1498	96	1649.3	1631.7	0	17.6	1498	96	0.0	0	7416	7543	127
ENGDominion	103	100	105.8	103.7	0	2.1	103	100	0.0	0	516	523	7
ENGNFG	671	100	683.2	677.8	0	5.4	671	100	5.4	0	3409	3411	2
ENGHON	246	100	219.0	219.0	0	0.0	246	100	0.0	0	1223	1220	-3
Total	2608	98	2908.2	2883.1	0	25.1	2608	98	5.4	0	14523	14663	139

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	3071.5	0.0	3071.5	8667.8	5596.3	0	6298	0	6298	2.0504		
ENGTGP2Stg	955.7	27.7	928.0	7882.5	6954.5	65	0	0	65	0.0682		
ENGTGPLong	3382.3	106.9	3275.4	7882.5	4607.1	882	4207	0	5089	1.5045		
ENGTGPBND	840.4	8.8	831.6	1139.5	307.9	69	276	0	345	0.4099		
ENGTGPShort	2626.8	38.9	2588.0	10262.0	7674.0	282	3079	0	3361	1.2796		
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000		
ENGIGTS	659.6	6.6	653.0	1825.0	1172.0	3	320	0	324	0.4904		
ENGTGPANE	653.0	6.9	646.2	1460.0	813.8	54	353	0	407	0.6227		
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537		
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000		
ENGLNG	152.2	0.0	152.2	8654.9	8502.7	0	0	0	0	0.0000		
ENGPropane	98.7	0.0	98.7	12775.0	12676.3	0	0	0	0	0.0000		
ENG3Truck	98.7	0.0	98.7	2046.7	1948.0	99	0	0	99	1.0000		
ENGTGPDracut	12397.8	53.3	12344.5	18250.0	5905.5	435	5549	0	5983	0.4826		
ENGDawn2Wadd	668.3	8.7	659.6	2190.0	1530.4	14	568	0	582	0.8702		

- Draw 0

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
ENGTGPConLat	1072.6	4.6	1068.0	9619.3	8551.4	38	19124	141	19020	17.7336
ENGTGPZ4	2115.8	29.4	2086.4	36500.0	34413.6	238	2171	0	2409	1.1386
Z4toTGPLH	1295.9	0.0	1295.9	3650.0	2354.1	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
AtlBr Trnspn	13026.4	133.2	12893.3	15970.6	3077.3	273	39601	3236	36638	2.8126
Total		425.8				2451	82028	3377	81102	1.8051

- Draw 0

NOV 2031 thru OCT 2032

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	124050	Injection Cost	45	Transportation Cost	2488	JAN 19, 2032	
Penalty Cost	0	Withdrawal Cost	43	Other Variable Cost	2	System Served	200.61
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
Total Variable	124050	Other Variable Cost	0	Total Variable	2491	Total	200.61
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	82028		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	82028		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	3331	Total Gas Cost	211714
Net Supply Cost	125676	Net Storage Cost	1519	Net Trans Cost	81187	Total Revenue	3331
						Net Cost	208383

Avg Cost of Served Demand 9.843 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.720 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
ENGIDesign	21509.4	0.0	21509.4	0.0	21509.4	21509.4	0.0	0	200.6	0.0
Total	21509.4	0.0	21509.4	0.0	21509.4	21509.4	0.0	0	200.6	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	3101.5	18300.0	15198.5			5.4474	16895	0	16895	5.4474
ENGNIagara	844.0	1170.5	326.5			4.9963	4217	0	4217	4.9963
ENGPNGTS	84.3	84.3	0.0			8.9194	752	0	752	8.9194
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	91.7	91.7	0.0			22.4878	2063	0	2063	22.4878
ENG-Z4	3033.5	3037.8	4.3			5.0421	15295	0	15295	5.0421
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	156.9	250.0	93.1		240.3	14.1694	2223	1500	3723	23.7296
ENGC3Summer	16.2	93.5	77.2			22.2472	361	0	361	22.2472

- Draw 0

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
DLiqSummer	21.0	21.0	0.0			13.7292	288	126	414	19.7292
ENGDawn	673.8	2196.0	1522.2			5.5192	3719	0	3719	5.5192
Ramapo	13335.3	42090.0	28754.7			5.4811	73092	0	73092	5.4811
DRACUT SW	613.8	18300.0	17686.2			8.3811	5144	0	5144	8.3811
Total	21972.1						124050	1626	125676	

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	177.9	177.9	0	0.0	13	100	0.0	0	180	180	1
ENGPropane	77	100	108.0	108.0	0	0.0	77	100	0.0	0	1786	1791	5
ENGFSMA	1498	96	1654.8	1637.1	0	17.7	1498	96	0.0	0	7543	7616	72
ENGDominion	103	100	106.5	104.4	0	2.1	103	100	0.0	0	523	537	14
ENGNFG	671	100	683.9	678.5	0	5.4	671	100	5.4	0	3411	3433	22
ENGHON	246	100	223.2	223.2	0	0.0	246	100	0.0	0	1220	1243	23
Total	2608	98	2954.2	2929.0	0	25.2	2608	98	5.4	0	14663	14799	137

Transportation Summary													
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost			
ENGTGPProd	3101.5	0.0	3101.5	8691.6	5590.1	0	6298	0	6298	2.0306			
ENGTGP2Stg	967.0	28.0	939.0	7904.1	6965.2	66	0	0	66	0.0682			
ENGTGPLong	3409.0	107.7	3301.3	7904.1	4602.9	889	4207	0	5096	1.4947			
ENGTGPBND	844.0	8.9	835.1	1142.7	307.5	69	276	0	345	0.4086			
ENGTGPShort	2637.7	39.0	2598.7	10290.1	7691.4	283	3079	0	3363	1.2748			
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000			
ENGIGTS	665.1	6.7	658.4	1830.0	1171.6	3	320	0	324	0.4865			
ENGTGPANE	658.4	6.9	651.5	1464.0	812.5	54	353	0	407	0.6183			
ENGPNGTS	84.3	0.8	83.5	366.0	282.5	0	483	0	483	5.7283			
ENGTGPAES	0.0	0.0	0.0	5490.0	5490.0	0	0	0	0	0.0000			
ENGLNG	177.9	0.0	177.9	8678.6	8500.7	0	0	0	0	0.0000			
ENGPropane	108.0	0.0	108.0	12810.0	12702.0	0	0	0	0	0.0000			
ENGC3Truck	108.0	0.0	108.0	2052.3	1944.4	108	0	0	108	1.0000			
ENGTGPDracut	12642.0	54.4	12587.6	18300.0	5712.4	443	5549	0	5992	0.4740			
ENGDawn2Wadd	673.8	8.8	665.1	2196.0	1530.9	14	568	0	582	0.8633			

- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1
Report 1 (Continued)

NOV 2031 thru OCT 2032

Cost and Flow Summary

Units: MDT, USD (000)

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Transportation Summary
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Segment (cont)	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost
ENGTGPConLat	1170.8	5.0	1165.8	10387.3	9221.4	41	19124	134	19031	16.2541
ENGTGPZ4	2134.5	29.7	2104.9	36600.0	34495.1	240	2171	0	2411	1.1296
Z4toTGPLH	1304.1	0.0	1304.1	3660.0	2355.9	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
AtlBr Trnspn	13335.3	136.3	13199.1	16127.8	2928.7	280	39601	3197	36683	2.7508
Total		432.2				2491	82028	3331	81187	1.7745

- 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	126512	Injection Cost	45	Transportation Cost	2502	JAN 19, 2033	
Penalty Cost	0	Withdrawal Cost	44	Other Variable Cost	2	System Served	203.37
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	203.37
Total Variable	126512	Total Variable	89	Total Variable	2505		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	82028		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	82028		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	3283		
Net Supply Cost	128138	Net Storage Cost	1519	Net Trans Cost	81249	Total Gas Cost	214190
						Total Revenue	3283
						Net Cost	210907
Avg Cost of Served Demand		9.885 USD/DT		Avg Cost of Gas Purchased		5.789 USD/DT	
(System Cost/Served Dem.)				(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
ENGIDesign	21669.0	0.0	21669.0	0.0	21669.0	21669.0	0.0	0	203.4	0.0
Total	21669.0	0.0	21669.0	0.0	21669.0	21669.0	0.0	0	203.4	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	3099.1	18250.0	15150.9			5.5005	17047	0	17047	5.5005
ENGNiagara	841.3	1167.3	326.0			5.0492	4248	0	4248	5.0492
ENGPNGTS	84.0	84.0	0.0			8.9529	752	0	752	8.9529
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	91.7	91.7	0.0			22.6023	2074	0	2074	22.6023
ENG-24	3025.1	3029.5	4.4			5.0948	15413	0	15413	5.0948
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	167.1	250.0	82.9		230.1	14.2242	2376	1500	3876	23.2024
ENGC3Summer	26.8	93.5	66.6			22.2791	598	0	598	22.2791

- Draw 0

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
DLiqSummer	21.0	21.0	0.0			13.7814	289	126	415	19.7814
ENGDawn	669.9	2190.0	1520.1			5.5734	3734	0	3734	5.5734
Ramapo	13466.6	41975.0	28508.4			5.5297	74466	0	74466	5.5297
DRACUT SW	640.6	18250.0	17609.4			8.6112	5516	0	5516	8.6112
Total	22133.3						126512	1626	128138	

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	188.1	188.1	0	0.0	13	100	0.0	0	180	181	1
ENGPropane	77	100	118.6	118.6	0	0.0	77	100	0.0	0	1791	1795	5
ENGFSMA	1498	96	1662.1	1644.3	0	17.8	1498	96	0.0	0	7616	7683	67
ENGDominion	103	100	105.8	103.7	0	2.1	103	100	0.0	0	537	540	4
ENGNFG	671	100	683.9	678.5	0	5.4	671	100	5.4	0	3433	3478	45
ENGHON	246	100	222.8	222.8	0	0.0	246	100	0.0	0	1243	1262	19
Total	2608	98	2981.2	2956.0	0	25.3	2608	98	5.4	0	14799	14940	140

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	3099.1	0.0	3099.1	8667.8	5568.7	0	6298	0	6298	2.0321		
ENGTGP2Stg	973.5	28.2	945.3	7882.5	6937.3	66	0	0	66	0.0682		
ENGTGPLong	3391.9	107.2	3284.7	7882.5	4597.8	885	4207	0	5091	1.5010		
ENGTGPBND	841.3	8.8	832.4	1139.5	307.1	69	276	0	345	0.4096		
ENGTGPShort	2644.0	39.1	2604.8	10262.0	7657.2	284	3079	0	3363	1.2720		
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000		
ENIGTS	661.2	6.6	654.6	1825.0	1170.4	3	320	0	324	0.4893		
ENGTGPANE	654.6	6.9	647.7	1460.0	812.3	54	353	0	407	0.6214		
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537		
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000		
ENGLNG	188.1	0.0	188.1	8654.9	8466.8	0	0	0	0	0.0000		
ENGPropane	118.6	0.0	118.6	12775.0	12656.4	0	0	0	0	0.0000		
ENGC3Truck	118.6	0.0	118.6	2046.7	1928.2	119	0	0	119	1.0000		
ENGTGPDracut	12742.1	54.8	12687.3	18250.0	5562.7	447	5549	0	5995	0.4705		
ENGDawn2Wadd	669.9	8.7	661.2	2190.0	1528.8	14	568	0	582	0.8682		

- Draw 0

NOV 2032 thru OCT 2033

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						Revenue		Net Cost
ENGTGPConLat	1227.4	5.3	1222.2	11080.3	9858.1	43	19124	126	19041	15.5125
ENGTGPZ4	2125.6	29.5	2096.1	36500.0	34403.9	239	2171	0	2410	1.1338
Z4toTGPLH	1295.8	0.0	1295.8	3650.0	2354.2	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
AtlBr Trnspn	13466.6	137.6	13328.9	16159.0	2830.1	283	39601	3157	36726	2.7272
Total		433.7				2505	82028	3283	81249	1.7651

- Draw 0

NOV 2033 thru OCT 2034

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	130229	Injection Cost	45	Transportation Cost	2534	JAN 19, 2034	
Penalty Cost	0	Withdrawal Cost	44	Other Variable Cost	3	System Served	206.24
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
Total Variable	130229	Other Variable Cost	0	Total Variable	2536	Total	206.24
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	82028		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	82028		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	3232		
Net Supply Cost	131855	Net Storage Cost	1520	Net Trans Cost	81332	Total Gas Cost	217939
						Total Revenue	3232
						Net Cost	214707
Avg Cost of Served Demand	9.918 USD/DT	Avg Cost of Gas Purchased	5.875 USD/DT				
(System Cost/Served Dem.)		(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
ENGI Design	21974.0	0.0	21974.0	0.0	21974.0	21974.0	0.0	0	206.2	0.0
Total	21974.0	0.0	21974.0	0.0	21974.0	21974.0	0.0	0	206.2	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	3113.8	18250.0	15136.2			5.5552	17298	0	17298	5.5552
ENGNiagara	841.2	1167.3	326.1			5.1041	4294	0	4294	5.1041
ENGPNGTS	84.0	84.0	0.0			9.0081	756	0	756	9.0081
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENG3Winter	91.7	91.7	0.0			22.7478	2087	0	2087	22.7478
ENG-Z4	3025.0	3029.5	4.5			5.1492	15576	0	15576	5.1492
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	184.8	250.0	65.2		212.4	14.2806	2639	1500	4139	22.3979
ENG3Summer	41.5	93.5	52.0			22.3071	926	0	926	22.3071

- Draw 0

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
DliqSummer	21.0	21.0	0.0			13.8343	291	126	417	19.8343
ENGDawn	669.1	2190.0	1520.9			5.6301	3767	0	3767	5.6301
Ramapo	13686.0	41975.0	28289.0			5.5858	76447	0	76447	5.5858
DRACUT SW	684.2	18250.0	17565.8			8.9875	6149	0	6149	8.9875
Total	22442.4						130229	1626	131855	

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	205.8	205.8	0	0.0	13	100	0.0	0	181	182	1
ENGPropane	77	100	133.2	133.2	0	0.0	77	100	0.0	0	1795	1800	5
ENGFSMA	1498	96	1669.4	1651.5	0	17.9	1498	96	0.0	0	7683	7760	77
ENGDominion	103	100	106.7	104.6	0	2.1	103	100	0.0	0	540	546	6
ENGNFG	671	100	684.2	678.8	0	5.4	671	100	5.4	0	3478	3527	49
ENGHON	246	100	223.6	223.6	0	0.0	246	100	0.0	0	1262	1266	4
Total	2608	98	3022.9	2997.5	0	25.3	2608	98	5.4	0	14940	15081	141

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	3113.8	0.0	3113.8	8667.8	5554.0	0	6298	0	6298	2.0226		
ENGTGP2Stg	983.0	28.5	954.5	7882.5	6928.0	67	0	0	67	0.0682		
ENGTGPLong	3396.9	107.3	3289.5	7882.5	4593.0	886	4207	0	5092	1.4992		
ENGTGPBND	841.2	8.8	832.4	1139.5	307.1	69	276	0	345	0.4096		
ENGTGPShort	2653.1	39.3	2613.9	10262.0	7648.1	285	3079	0	3364	1.2680		
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000		
ENGIGTS	660.4	6.6	653.8	1825.0	1171.2	3	320	0	324	0.4899		
ENGTGPANE	653.8	6.9	646.9	1460.0	813.1	54	353	0	407	0.6221		
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537		
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000		
ENGLNG	205.8	0.0	205.8	8654.9	8449.1	0	0	0	0	0.0000		
ENGPropane	133.2	0.0	133.2	12775.0	12641.8	0	0	0	0	0.0000		
ENGC3Truck	133.2	0.0	133.2	2046.7	1913.5	133	0	0	133	1.0000		
ENGTGPDracut	12914.0	55.5	12858.4	18250.0	5391.6	453	5549	0	6001	0.4647		
ENGDawn2Wadd	669.1	8.7	660.4	2190.0	1529.6	14	568	0	582	0.8693		

- Draw 0

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
ENGTGPConLat	1316.4	5.7	1310.7	11846.5	10535.8	46	19124	119	19051	14.4725
ENGTGPZ4	2130.8	29.6	2101.2	36500.0	34398.8	240	2171	0	2411	1.1314
Z4toTGPH	1295.7	0.0	1295.7	3650.0	2354.3	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
AtlBr Trnspn	13686.0	139.9	13546.2	16263.9	2717.8	287	39601	3113	36775	2.6870
Total		437.6				2536	82028	3232	81332	1.7453

- Draw 0

NOV 2034 thru OCT 2035

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	134120	Injection Cost	45	Transportation Cost	2563	JAN 19, 2035	
Penalty Cost	0	Withdrawal Cost	44	Other Variable Cost	3	System Served	209.19
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	209.19
Total Variable	134120	Total Variable	89	Total Variable	2566		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	82028		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	82028		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	3183		
Net Supply Cost	135746	Net Storage Cost	1520	Net Trans Cost	81410	Total Gas Cost	221859
						Total Revenue	3183
						Net Cost	218676

Avg Cost of Served Demand 9.956 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 5.965 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
ENGIDesign	22283.5	0.0	22283.5	0.0	22283.5	22283.5	0.0	0	209.2	0.0
Total	22283.5	0.0	22283.5	0.0	22283.5	22283.5	0.0	0	209.2	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	3129.3	18250.0	15120.7			5.6103	17556	0	17556	5.6103
ENGNiagara	841.5	1167.3	325.7			5.1594	4342	0	4342	5.1594
ENGPNGTS	84.0	84.0	0.0			9.0638	761	0	761	9.0638
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	91.7	91.7	0.0			22.8799	2099	0	2099	22.8799
ENG-Z4	3025.0	3029.5	4.5			5.2041	15742	0	15742	5.2041
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	207.4	250.0	42.6		189.8	14.3369	2973	1500	4473	21.5707
ENGC3Summer	53.7	93.5	39.7			22.3771	1203	0	1203	22.3771

- Draw 0

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
DLiqSummer	21.0	21.0	0.0			13.8876	292	126	418	19.8876
ENGDawn	669.5	2190.0	1520.5			5.6864	3807	0	3807	5.6864
Ramapo	13898.5	41975.0	28076.5			5.6428	78427	0	78427	5.6428
DRACUT SW	734.2	18250.0	17515.8			9.4213	6917	0	6917	9.4213
Total	22755.9						134120	1626	135746	

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	228.4	228.4	0	0.0	13	100	0.0	0	182	183	1
ENGPropane	77	100	145.5	145.5	0	0.0	77	100	0.0	0	1800	1806	6
ENGFSA	1498	96	1677.3	1659.4	0	17.9	1498	96	0.0	0	7760	7849	89
ENGDominion	103	100	106.7	104.6	0	2.1	103	100	0.0	0	546	552	5
ENGNFG	671	100	685.8	680.4	0	5.4	671	100	5.4	0	3527	3546	19
ENGHON	246	100	223.6	223.6	0	0.0	246	100	0.0	0	1266	1288	22
Total	2608	98	3067.3	3041.9	0	25.4	2608	98	5.4	0	15081	15223	142

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	3129.3	0.0	3129.3	8667.8	5538.5	0	6298	0	6298	2.0125		
ENGTGP2Stg	992.9	28.8	964.2	7882.5	6918.4	68	0	0	68	0.0682		
ENGTGPLong	3402.4	107.5	3294.8	7882.5	4587.7	887	4207	0	5094	1.4972		
ENGTGPBND	841.5	8.8	832.7	1139.5	306.8	69	276	0	345	0.4095		
ENGTGPShort	2662.6	39.4	2623.2	10262.0	7638.7	286	3079	0	3365	1.2639		
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000		
ENGIGTS	660.8	6.6	654.2	1825.0	1170.8	3	320	0	324	0.4896		
ENGTGPANE	654.2	6.9	647.3	1460.0	812.7	54	353	0	407	0.6217		
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537		
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000		
ENGLNG	228.4	0.0	228.4	8654.9	8426.5	0	0	0	0	0.0000		
ENGPropane	145.5	0.0	145.5	12775.0	12629.5	0	0	0	0	0.0000		
ENG3Truck	145.5	0.0	145.5	2046.7	1901.2	145	0	0	145	1.0000		
ENGTGPDracut	13087.2	56.3	13030.9	18250.0	5219.1	459	5549	0	6007	0.4590		
ENGDawn2Wadd	669.5	8.7	660.8	2190.0	1529.2	14	568	0	582	0.8687		

- Draw 0

NOV 2034 thru OCT 2035

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						Revenue		Net Cost
ENGTGPConLat	1403.5	6.0	1397.5	12619.7	11222.2	49	19124	111	19062	13.5818
ENGTGPZ4	2136.4	29.7	2106.7	36500.0	34393.3	240	2171	0	2411	1.1287
Z4toTGPLH	1295.7	0.0	1295.7	3650.0	2354.3	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
AtlBr Trnspn	13898.5	142.0	13756.5	16361.5	2605.0	292	39601	3072	36820	2.6492
Total		441.6				2566	82028	3183	81410	1.7260

- Draw 0

NOV 2035 thru OCT 2036

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	139317	Injection Cost	46	Transportation Cost	2490	JAN 19, 2036	
Penalty Cost	0	Withdrawal Cost	44	Other Variable Cost	4	System Served	212.10
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	212.10
Total Variable	139317	Total Variable	89	Total Variable	2494		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	82028		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	82028		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	3138		
Net Supply Cost	140943	Net Storage Cost	1520	Net Trans Cost	81383	Total Gas Cost	226985
						Total Revenue	3138
						Net Cost	223846

Avg Cost of Served Demand 9.988 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 6.077 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
ENGIDesign	22726.0	0.0	22726.0	0.0	22726.0	22726.0	0.0	0	212.1	0.0
Total	22726.0	0.0	22726.0	0.0	22726.0	22726.0	0.0	0	212.1	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	2833.6	18300.0	15466.4			5.6511	16013	0	16013	5.6511
ENGNiagara	845.1	1170.5	325.4			5.2165	4408	0	4408	5.2165
ENGPNGTS	84.3	84.3	0.0			9.1411	771	0	771	9.1411
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	91.7	91.7	0.0			22.9387	2104	0	2104	22.9387
ENG-Z4	3033.3	3037.8	4.5			5.2607	15957	0	15957	5.2607
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	242.4	250.0	7.6		154.7	14.3939	3490	1500	4990	20.5809
ENGC3Summer	53.7	93.5	39.7			22.4309	1205	0	1205	22.4309

- Draw 0

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
DliqSummer	21.0	21.0	0.0			13.9415	293	126	419	19.9415
ENGDawn	674.9	2196.0	1521.1			5.7441	3877	0	3877	5.7441
Ramapo	14504.9	42090.0	27585.1			5.7213	82986	0	82986	5.7213
DRACUT SW	809.6	18300.0	17490.4			10.1436	8212	0	8212	10.1436
Total	23194.6						139317	1626	140943	

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	263.4	263.4	0	0.0	13	100	0.0	0	183	183	1
ENGPropane	77	100	145.5	145.5	0	0.0	77	100	0.0	0	1806	1809	3
ENGFSMA	1498	96	1685.2	1667.2	0	18.0	1498	96	0.0	0	7849	7938	89
ENGDominion	103	100	107.3	105.2	0	2.1	103	100	0.0	0	552	559	7
ENGNFG	671	100	687.5	682.0	0	5.4	671	100	5.4	0	3546	3582	36
ENGHON	246	100	225.5	225.5	0	0.0	246	100	0.0	0	1288	1295	7
Total	2608	98	3114.5	3088.9	0	25.6	2608	98	5.4	0	15223	15366	143

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2833.6	0.0	2833.6	8691.6	5858.0	0	6298	0	6298	2.2226	
ENGTGP2Stg	1005.4	29.2	976.2	7904.1	6927.9	69	0	0	69	0.0682	
ENGTGPLong	3106.7	98.2	3008.6	7904.1	4895.6	810	4207	0	5017	1.6148	
ENGTGPBND	845.1	8.9	836.2	1142.7	306.5	69	276	0	345	0.4081	
ENGTGPShort	2674.6	39.6	2635.0	10290.1	7655.1	287	3079	0	3366	1.2587	
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
ENGIGTS	666.1	6.7	659.5	1830.0	1170.5	3	320	0	324	0.4857	
ENGTGPANE	659.5	6.9	652.6	1464.0	811.4	54	353	0	407	0.6174	
ENGPNGTS	84.3	0.8	83.5	366.0	282.5	0	483	0	483	5.7283	
ENGTGPAES	0.0	0.0	0.0	5490.0	5490.0	0	0	0	0	0.0000	
ENGLNG	263.4	0.0	263.4	8678.6	8415.1	0	0	0	0	0.0000	
ENGPropane	145.5	0.0	145.5	12810.0	12664.5	0	0	0	0	0.0000	
ENGC3Truck	145.5	0.0	145.5	2052.3	1906.9	145	0	0	145	1.0000	
ENGTGPDracut	13389.4	57.6	13331.8	18300.0	4968.2	469	5549	0	6018	0.4495	
ENGDawn2Wadd	674.9	8.8	666.1	2196.0	1529.9	14	568	0	582	0.8619	

- Draw 0

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
ENGTGPConLat	1777.1	7.6	1769.4	13420.8	11651.4	63	19124	104	19083	10.7382
ENGTGPZ4	1828.2	25.4	1802.8	36600.0	34797.2	206	2171	0	2377	1.3000
Z4toTGPLH	1304.0	0.0	1304.0	3660.0	2356.0	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
AtlBr Trnspn	14504.9	148.0	14356.9	16517.4	2160.5	304	39601	3034	36870	2.5419
Total		437.6				2494	82028	3138	81383	1.7084

-- Draw 0

NOV 2036 thru OCT 2037

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	141999	Injection Cost	46	Transportation Cost	2493	JAN 19, 2037	
Penalty Cost	0	Withdrawal Cost	44	Other Variable Cost	4	System Served	214.79
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	214.79
Total Variable	141999	Total Variable	90	Total Variable	2496		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	82028		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	82028		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	3093		
Net Supply Cost	143625	Net Storage Cost	1520	Net Trans Cost	81431	Total Gas Cost	229669
						Total Revenue	3093
						Net Cost	226577

Avg Cost of Served Demand 10.04 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 6.153 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
ENGIDesign	22870.9	0.0	22870.9	0.0	22870.9	22870.9	0.0	0	214.8	0.0
Total	22870.9	0.0	22870.9	0.0	22870.9	22870.9	0.0	0	214.8	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	2830.9	18250.0	15419.1			5.7061	16153	0	16153	5.7061
ENGNiagara	842.3	1167.3	325.0			5.2716	4440	0	4440	5.2716
ENGPNGTS	84.0	84.0	0.0			9.1769	771	0	771	9.1769
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	91.7	91.7	0.0			22.9981	2110	0	2110	22.9981
ENG-Z4	3024.9	3029.5	4.6			5.3156	16079	0	16079	5.3156
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	247.0	250.0	3.0		150.1	14.4518	3570	1500	5070	20.5237
ENGC3Summer	53.7	93.5	39.7			22.4852	1208	0	1208	22.4852

- Draw 0

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
DLiqSummer	21.0	21.0	0.0			13.9959	294	126	420	19.9959
ENGDawn	663.2	2190.0	1526.8			5.8067	3851	0	3851	5.8067
Ramapo	14610.1	41975.0	27364.9			5.7710	84314	0	84314	5.7710
DRACUT SW	871.7	18250.0	17378.3			10.5629	9208	0	9208	10.5629
Total	23340.6						141999	1626	143625	

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	268.0	268.0	0	0.0	13	100	0.0	0	183	184	1
ENGPropane	77	100	145.5	145.5	0	0.0	77	100	0.0	0	1809	1814	5
ENGFSMA	1498	96	1690.8	1672.7	0	18.1	1498	96	0.0	0	7938	8008	70
ENGDominion	103	100	108.6	106.5	0	2.1	103	100	0.0	0	559	558	-1
ENGNFG	671	100	687.7	682.3	0	5.4	671	100	5.4	0	3582	3630	48
ENGHON	246	100	223.6	223.6	0	0.0	246	100	0.0	0	1295	1316	21
Total	2608	98	3124.2	3098.5	0	25.6	2608	98	5.4	0	15366	15510	144

Transportation Summary													
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost			
ENGTGPPProd	2830.9	0.0	2830.9	8667.8	5836.9	0	6298	0	6298	2.2247			
ENGTGP2Stg	1010.7	29.3	981.3	7882.5	6901.2	69	0	0	69	0.0682			
ENGTGPLong	3090.6	97.7	2992.9	7882.5	4889.6	806	4207	0	5013	1.6219			
ENGTGPBND	842.3	8.8	833.4	1139.5	306.1	69	276	0	345	0.4092			
ENGTGPShort	2679.6	39.7	2640.0	10262.0	7622.0	288	3079	0	3367	1.2565			
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000			
ENIGTS	654.6	6.5	648.0	1825.0	1177.0	3	320	0	323	0.4942			
ENGTGPANE	648.0	6.8	641.2	1460.0	818.8	53	353	0	406	0.6269			
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537			
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000			
ENGLNG	268.0	0.0	268.0	8654.9	8386.8	0	0	0	0	0.0000			
ENGPropane	145.5	0.0	145.5	12775.0	12629.5	0	0	0	0	0.0000			
ENG3Truck	145.5	0.0	145.5	2046.7	1901.2	145	0	0	145	1.0000			
ENGTGPDracut	13457.7	57.9	13399.8	18250.0	4850.2	472	5549	0	6020	0.4474			
ENGDawn2Wadd	663.2	8.6	654.6	2190.0	1535.4	14	568	0	581	0.8768			

- Draw 0

Ventyx
SENDOUT® Version 14.1.1 REP 1 12-Apr-2015
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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
ENGTGPConLat	1875.0	8.1	1866.9	14075.8	12208.9	66	19124	96	19093	10.1831
ENGTGPZ4	1820.3	25.3	1794.9	36500.0	34705.1	205	2171	0	2376	1.3052
Z4toTGPLH	1295.6	0.0	1295.6	3650.0	2354.4	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
AtlBr Trnspn	14610.1	149.1	14461.0	16544.6	2083.7	307	39601	2996	36911	2.5264
Total		438.6				2496	82028	3093	81431	1.7018

- Draw 0

NOV 2037 thru OCT 2038

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	145596	Injection Cost	46	Transportation Cost	2522	JAN 19, 2038	
Penalty Cost	0	Withdrawal Cost	44	Other Variable Cost	4	System Served	217.52
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	217.52
Total Variable	145596	Total Variable	90	Total Variable	2526		
Demand/Reservation Co	0	Demand Cost	711	Demand Cost	82028		
Other Fixed Cost	1626	Other Fixed Cost	720	Other Fixed Cost	0		
Total Fixed	1626	Total Fixed	1431	Total Fixed	82028		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	2712		
Net Supply Cost	147222	Net Storage Cost	1521	Net Trans Cost	81842	Total Gas Cost	233297
						Total Revenue	2712
						Net Cost	230585

Avg Cost of Served Demand 10.07 USD/DT
(System Cost/Served Dem.)

Avg Cost of Gas Purchased 6.232 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
ENGIDesign	23162.0	0.0	23162.0	0.0	23162.0	23162.0	0.0	0	217.5	0.0
Total	23162.0	0.0	23162.0	0.0	23162.0	23162.0	0.0	0	217.5	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	2855.5	18250.0	15394.5			5.7626	16455	0	16455	5.7626
ENGNiagara	791.7	1167.3	375.6			5.3409	4228	0	4228	5.3409
ENGPNGTS	84.0	84.0	0.0			9.2343	775	0	775	9.2343
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	91.7	91.7	0.0			23.0581	2115	0	2115	23.0581
ENG-Z4	3028.1	3029.5	1.4			5.3721	16267	0	16267	5.3721
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	250.0	250.0	0.0		147.2	14.5130	3628	1500	5128	20.5130
ENGC3Summer	53.7	93.5	39.7			22.5401	1211	0	1211	22.5401

- Draw 0

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
DLiqSummer	21.0	21.0	0.0			14.0509	295	126	421	20.0509
ENGDawn	666.1	2190.0	1523.9			5.8637	3906	0	3906	5.8637
Ramapo	15094.1	41975.0	26880.9			5.8036	87600	0	87600	5.8036
DRACUT SW	687.4	18250.0	17562.6			13.2594	9115	0	9115	13.2594
Total	23623.3						145596	1626	147222	

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	271.0	271.0	0	0.0	13	100	0.0	0	184	185	1
ENGPropane	77	100	145.5	145.5	0	0.0	77	100	0.0	0	1814	1818	4
ENGFSMA	1498	96	1677.9	1675.5	0	18.0	1482	95	0.0	-16	8008	8014	5
ENGDominion	103	100	109.5	107.4	0	2.1	103	100	0.0	0	558	573	16
ENGNFG	671	100	691.5	686.0	0	5.5	671	100	5.4	0	3630	3668	37
ENGHON	246	100	223.6	223.6	0	0.0	246	100	0.0	0	1316	1308	-8
Total	2608	98	3118.9	3109.0	0	25.6	2592	97	5.4	-16	15510	15565	55

Transportation Summary											
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost	
ENGTGPProd	2855.5	0.0	2855.5	8667.8	5812.3	0	6298	0	6298	2.2055	
ENGTGP2Stg	1002.2	29.1	973.1	7882.5	6909.4	68	0	0	68	0.0682	
ENGTGPLong	3126.3	98.8	3027.6	7882.5	4855.0	815	4207	0	5022	1.6063	
ENGTGPBND	791.7	8.3	783.4	1139.5	356.2	65	276	0	341	0.4301	
ENGTGPShort	2687.1	39.8	2647.3	10262.0	7614.7	289	3079	0	3368	1.2533	
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000	
ENGIGTS	657.5	6.6	650.9	1825.0	1174.1	3	320	0	324	0.4920	
ENGTGPANE	650.9	6.8	644.0	1460.0	816.0	53	353	0	406	0.6245	
ENGPNGTS	84.0	0.8	83.1	365.0	281.9	0	483	0	483	5.7537	
ENGTGPAES	0.0	0.0	0.0	5475.0	5475.0	0	0	0	0	0.0000	
ENGLNG	271.0	0.0	271.0	8654.9	8383.9	0	0	0	0	0.0000	
ENGPropane	145.5	0.0	145.5	12775.0	12629.5	0	0	0	0	0.0000	
ENGC3Truck	145.5	0.0	145.5	2046.7	1901.2	145	0	0	145	1.0000	
ENGTGPDracut	13556.6	58.3	13498.3	18250.0	4751.7	475	5549	0	6024	0.4444	
ENGDawn2Wadd	666.1	8.7	657.5	2190.0	1532.5	14	568	0	582	0.8730	

- Draw 0

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
ENGTGPConLat	2070.7	8.9	2061.8	16065.7	14003.9	73	19124	77	19120	9.2336
ENGTGPZ4	1853.3	25.8	1827.6	36500.0	34672.4	208	2171	0	2379	1.2839
Z4toTGPLH	1298.8	0.0	1298.8	3650.0	2351.2	0	0	0	0	0.0000
Z4toStg	1729.3	0.0	1729.3	2140.0	410.7	0	0	0	0	0.0000
AtlBr Trnspr	15094.1	154.2	14939.9	17409.0	2469.1	317	39601	2635	37282	2.4700
Total		446.0				2526	82028	2712	81842	1.6810

- Draw 0

NOV 2018 thru OCT 2038

Cost and Flow Summary

Units: MDT, USD (000)

Supply Costs		Storage Costs		Transportation Costs		Peak Subperiod	
Commodity Cost	2266717	Injection Cost	902	Transportation Cost	48051	JAN 19, 2038	
Penalty Cost	0	Withdrawal Cost	871	Other Variable Cost	34	System Served	217.52
Other Variable Cost	0	Carrying Cost	0			System Unserved	0.00
		Other Variable Cost	0			Total	217.52
Total Variable	2266717	Total Variable	1773	Total Variable	48085		
Demand/Reservation Co	0	Demand Cost	14221	Demand Cost	1640555		
Other Fixed Cost	32520	Other Fixed Cost	14393	Other Fixed Cost	0		
Total Fixed	32520	Total Fixed	28614	Total Fixed	1640555		
Sup Release Revenue	0	Sto Release Revenue	0	Cap Release Revenue	96436		
Net Supply Cost	2299237	Net Storage Cost	30387	Net Trans Cost	1592204	Total Gas Cost	4018264
						Total Revenue	96436
						Net Cost	3921828
Avg Cost of Served Demand 9.827 USD/DT (System Cost/Served Dem.)		Avg Cost of Gas Purchased 5.503 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
ENGIDesign	408894.9	0.0	408894.9	0.0	408894.9	408894.9	0.0	0	217.5	0.0
Total	408894.9	0.0	408894.9	0.0	408894.9	408894.9	0.0	0	217.5	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	60975.2	365250.0	304274.8			5.2021	317199	0	317199	5.2021
ENGNiagara	16874.9	23361.4	6486.5			4.7520	80189	0	80189	4.7520
ENGPNGTS	1681.1	1681.1	0.0			8.6682	14572	0	14572	8.6682
ENGAES	0.0	0.0	0.0			0.0000	0	0	0	0.0000
ENGC3Winter	1516.6	1834.9	318.3			22.3352	33874	0	33874	22.3352
ENG-Z4	60566.2	60631.5	65.3			4.8099	291320	0	291320	4.8099
ENG-OPR	0.0	0.0	0.0			0.0000	0	0	0	0.0000
DLiqWinter	2977.0	5000.0	2023.0		4966.0	14.0185	41734	30000	71734	24.0956
ENGC3Summer	437.3	1869.2	1431.8			22.1984	9708	0	9708	22.1984

- Draw 0

NOV 2018 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
DLiqSummer	420.0	420.0	0.0			13.5159	5677	2520	8197	19.5159
ENGDawn	13845.3	43830.0	29984.7			5.2402	72553	0	72553	5.2402
Ramapo	247224.3	840075.0	592850.7			5.2706	1303018	0	1303018	5.2706
DRACUT SW	11309.6	365250.0	353940.4			8.5658	96875	0	96875	8.5658
Total	417827.6				4966.0		2266717	32520	2299237	

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	3397.0	3397.0	0	0.0	13	100	0.0	0	131	185	54
ENGPropane	77	100	1954.0	1954.0	0	0.0	77	100	0.0	0	1053	1818	765
ENGFSMA	1482	95	33242.6	32886.9	0	355.7	1482	95	0.0	0	5559	8014	2455
ENGDominion	103	100	2112.9	2071.7	0	41.2	103	100	0.0	0	385	573	188
ENGNFG	671	100	13673.6	13565.6	0	108.0	671	100	107.2	0	2516	3668	1152
ENGHON	246	100	4462.8	4462.8	0	0.0	246	100	0.0	0	923	1308	384
Total	2592	97	58843.0	58338.1	0	504.9	2592	97	107.2	0	10566	15565	4998

Transportation Summary												
Segment	Total Flow	Fuel Consumed	Delivered	Max Flow	Surplus	Var Cost	Fix Cost	Cap Rel Revenue	Net Cost	Average Net Cost		
ENGTGPProd	60975.2	0.0	60975.2	173475.7	112500.5	0	125957	0	125957	2.0657		
ENGTGP2Stg	19472.0	564.7	18907.4	157758.8	138851.4	1327	0	0	1327	0.0682		
ENGTGPLong	66907.8	2114.3	64793.5	157758.8	92965.3	17449	84131	0	101580	1.5182		
ENGTGPBND	16874.9	177.2	16697.7	22806.2	6108.5	1384	5512	0	6896	0.4087		
ENGTGPShort	52879.9	782.6	52097.3	205380.1	153282.8	5679	61585	0	67264	1.2720		
ENGDOMLiq	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0.0000		
ENIGTS	13665.3	136.7	13528.7	36525.0	22996.3	65	6408	0	6472	0.4736		
ENGTGPANE	13528.7	142.1	13386.6	29220.0	15833.4	1110	7062	0	8172	0.6040		
ENGPNGTS	1681.1	16.8	1664.3	7305.0	5640.7	3	9659	0	9662	5.7474		
ENGTGPAES	0.0	0.0	0.0	109575.0	109575.0	0	0	0	0	0.0000		
ENGLNG	3397.0	0.0	3397.0	173216.2	169819.1	0	0	0	0	0.0000		
ENGPropane	1954.0	0.0	1954.0	255675.0	253721.0	0	0	0	0	0.0000		
ENGC3Truck	1954.0	0.0	1954.0	40962.6	39008.7	1954	0	0	1954	1.0000		
ENGTGPDracut	238757.8	1026.7	237731.1	363975.1	126244.0	8368	110976	13	119331	0.4998		
ENGDawn2Wadd	13845.3	180.0	13665.3	43830.0	30164.7	286	11356	0	11642	0.8408		

- Draw 0

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SENDOUT® Version 14.1.1

REP 1z 12-Apr-2015

Report 1z (Continued)

17:20:48

NOV 2018 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
ENGTGPConLat	17247.6	74.2	17173.4	161210.1	144036.7	608	382475	3136	379946	22.0290
ENGTGPZ4	41503.2	576.9	40926.3	730500.0	689573.7	4666	43422	0	48088	1.1587
Z4toTGPLH	25981.5	0.0	25981.5	73050.0	47068.5	0	0	0	0	0.0000
Z4toStg	34584.7	0.0	34584.7	42800.0	8215.3	0	0	0	0	0.0000
AtlBr Trnspr	247224.3	2528.6	244695.7	298940.8	54245.1	5188	792012	93287	703912	2.8473
Total		8320.6				48085	1640555	96436	1592204	1.8250

- Draw 0

Ventyx
SENDOUT® Version 14.1.1
Report 1X

RESOURCE MIX RESULTS

Units: MDT

	Contract	Start Date	End Date	Min Level	Max Level	Result MDQ
Seg Cap Rel	ENGTGPDracut	NOV 2018	MAR 2019	0.00	50.00	0.00
	ENGTGPDracut	APR 2019	OCT 2019	0.00	50.00	3.87
	ENGTGPDracut	NOV 2019	MAR 2020	0.00	50.00	0.00
	ENGTGPDracut	APR 2020	OCT 2020	0.00	50.00	1.79
	ENGTGPDracut	NOV 2020	MAR 2021	0.00	50.00	0.00
	ENGTGPDracut	APR 2021	OCT 2021	0.00	50.00	0.30
	ENGTGPDracut	NOV 2021	MAR 2022	0.00	50.00	0.00
	ENGTGPDracut	APR 2022	OCT 2022	0.00	50.00	0.00
	ENGTGPDracut	NOV 2022	MAR 2023	0.00	50.00	0.00
	ENGTGPDracut	APR 2023	OCT 2023	0.00	50.00	0.00
	ENGTGPDracut	NOV 2023	MAR 2024	0.00	50.00	0.00
	ENGTGPDracut	APR 2024	OCT 2024	0.00	50.00	0.00
	ENGTGPDracut	NOV 2024	MAR 2025	0.00	50.00	0.00
	ENGTGPDracut	APR 2025	OCT 2025	0.00	50.00	0.00
	ENGTGPDracut	NOV 2025	MAR 2026	0.00	50.00	0.00
	ENGTGPDracut	APR 2026	OCT 2026	0.00	50.00	0.00
	ENGTGPDracut	NOV 2026	MAR 2027	0.00	50.00	0.00
	ENGTGPDracut	APR 2027	OCT 2027	0.00	50.00	0.00
	ENGTGPDracut	NOV 2027	MAR 2028	0.00	50.00	0.00
	ENGTGPDracut	APR 2028	OCT 2028	0.00	50.00	0.00
	ENGTGPDracut	NOV 2028	MAR 2029	0.00	50.00	0.00
	ENGTGPDracut	APR 2029	OCT 2029	0.00	50.00	0.00
	ENGTGPDracut	NOV 2029	MAR 2030	0.00	50.00	0.00
	ENGTGPDracut	APR 2030	OCT 2030	0.00	50.00	0.00
	ENGTGPDracut	NOV 2030	MAR 2031	0.00	50.00	0.00
	ENGTGPDracut	APR 2031	OCT 2031	0.00	50.00	0.00
	ENGTGPDracut	NOV 2031	MAR 2032	0.00	50.00	0.00
	ENGTGPDracut	APR 2032	OCT 2032	0.00	50.00	0.00
	ENGTGPDracut	NOV 2032	MAR 2033	0.00	50.00	0.00
	ENGTGPDracut	APR 2033	OCT 2033	0.00	50.00	0.00
	ENGTGPDracut	NOV 2033	MAR 2034	0.00	50.00	0.00
	ENGTGPDracut	APR 2034	OCT 2034	0.00	50.00	0.00
	ENGTGPDracut	NOV 2034	MAR 2035	0.00	50.00	0.00
	ENGTGPDracut	APR 2035	OCT 2035	0.00	50.00	0.00
	ENGTGPDracut	NOV 2035	MAR 2036	0.00	50.00	0.00
	ENGTGPDracut	APR 2036	OCT 2036	0.00	50.00	0.00
	ENGTGPDracut	NOV 2036	MAR 2037	0.00	50.00	0.00
	ENGTGPDracut	APR 2037	OCT 2037	0.00	50.00	0.00
	ENGTGPDracut	NOV 2037	MAR 2038	0.00	50.00	0.00

RESOURCE MIX RESULTS

Units: MDT

Contract	Start Date	End Date	Min Level	Max Level	Result MDQ
ENGTGPDracut	APR 2038	SEP 2038	0.00	50.00	0.00
ENGTGPConLat	NOV 2018	MAR 2019	0.00	65.00	53.14
ENGTGPConLat	APR 2019	OCT 2019	0.00	65.00	65.00
ENGTGPConLat	NOV 2019	MAR 2020	0.00	65.00	49.99
ENGTGPConLat	APR 2020	OCT 2020	0.00	65.00	65.00
ENGTGPConLat	NOV 2020	MAR 2021	0.00	65.00	47.52
ENGTGPConLat	APR 2021	OCT 2021	0.00	65.00	65.00
ENGTGPConLat	NOV 2021	MAR 2022	0.00	65.00	44.66
ENGTGPConLat	APR 2022	OCT 2022	0.00	65.00	63.78
ENGTGPConLat	NOV 2022	MAR 2023	0.00	65.00	41.90
ENGTGPConLat	APR 2023	OCT 2023	0.00	65.00	62.11
ENGTGPConLat	NOV 2023	MAR 2024	0.00	65.00	38.96
ENGTGPConLat	APR 2024	OCT 2024	0.00	65.00	60.80
ENGTGPConLat	NOV 2024	MAR 2025	0.00	65.00	36.33
ENGTGPConLat	APR 2025	OCT 2025	0.00	65.00	59.46
ENGTGPConLat	NOV 2025	MAR 2026	0.00	65.00	33.98
ENGTGPConLat	APR 2026	OCT 2026	0.00	65.00	58.15
ENGTGPConLat	NOV 2026	MAR 2027	0.00	65.00	31.46
ENGTGPConLat	APR 2027	OCT 2027	0.00	65.00	56.78
ENGTGPConLat	NOV 2027	MAR 2028	0.00	65.00	28.81
ENGTGPConLat	APR 2028	OCT 2028	0.00	65.00	55.36
ENGTGPConLat	NOV 2028	MAR 2029	0.00	65.00	26.41
ENGTGPConLat	APR 2029	OCT 2029	0.00	65.00	54.00
ENGTGPConLat	NOV 2029	MAR 2030	0.00	65.00	23.90
ENGTGPConLat	APR 2030	OCT 2030	0.00	65.00	52.63
ENGTGPConLat	NOV 2030	MAR 2031	0.00	65.00	20.86
ENGTGPConLat	APR 2031	OCT 2031	0.00	65.00	51.19
ENGTGPConLat	NOV 2031	MAR 2032	0.00	65.00	18.14
ENGTGPConLat	APR 2032	OCT 2032	0.00	65.00	49.74
ENGTGPConLat	NOV 2032	MAR 2033	0.00	65.00	15.38
ENGTGPConLat	APR 2033	OCT 2033	0.00	65.00	48.23
ENGTGPConLat	NOV 2033	MAR 2034	0.00	65.00	12.51
ENGTGPConLat	APR 2034	OCT 2034	0.00	65.00	46.68
ENGTGPConLat	NOV 2034	MAR 2035	0.00	65.00	9.56
ENGTGPConLat	APR 2035	OCT 2035	0.00	65.00	45.15
ENGTGPConLat	NOV 2035	MAR 2036	0.00	65.00	6.65
ENGTGPConLat	APR 2036	OCT 2036	0.00	65.00	43.73
ENGTGPConLat	NOV 2036	MAR 2037	0.00	65.00	3.96
ENGTGPConLat	APR 2037	OCT 2037	0.00	65.00	42.30
ENGTGPConLat	NOV 2037	MAR 2038	0.00	65.00	1.23
ENGTGPConLat	APR 2038	SEP 2038	0.00	65.00	40.84

- Draw 0

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SENDOUT® Version 14.1.1
Report 1X (Continued)

RESOURCE MIX RESULTS

Units: MDT

Contract	Start Date	End Date	Min Level	Max Level	Result MDQ
AtlBr Trnspn	NOV 2018	MAR 2019	0.00	65.00	18.93
AtlBr Trnspn	APR 2019	OCT 2019	0.00	65.00	42.66
AtlBr Trnspn	NOV 2019	MAR 2020	0.00	65.00	16.36
AtlBr Trnspn	APR 2020	OCT 2020	0.00	65.00	41.77
AtlBr Trnspn	NOV 2020	MAR 2021	0.00	65.00	14.54
AtlBr Trnspn	APR 2021	OCT 2021	0.00	65.00	41.23
AtlBr Trnspn	NOV 2021	MAR 2022	0.00	65.00	12.77
AtlBr Trnspn	APR 2022	OCT 2022	0.00	65.00	40.71
AtlBr Trnspn	NOV 2022	MAR 2023	0.00	65.00	11.06
AtlBr Trnspn	APR 2023	OCT 2023	0.00	65.00	40.27
AtlBr Trnspn	NOV 2023	MAR 2024	0.00	65.00	8.95
AtlBr Trnspn	APR 2024	OCT 2024	0.00	65.00	39.67
AtlBr Trnspn	NOV 2024	MAR 2025	0.00	65.00	7.61
AtlBr Trnspn	APR 2025	OCT 2025	0.00	65.00	39.11
AtlBr Trnspn	NOV 2025	MAR 2026	0.00	65.00	6.16
AtlBr Trnspn	APR 2026	OCT 2026	0.00	65.00	38.72
AtlBr Trnspn	NOV 2026	MAR 2027	0.00	65.00	4.60
AtlBr Trnspn	APR 2027	OCT 2027	0.00	65.00	38.32
AtlBr Trnspn	NOV 2027	MAR 2028	0.00	65.00	2.64
AtlBr Trnspn	APR 2028	OCT 2028	0.00	65.00	37.59
AtlBr Trnspn	NOV 2028	MAR 2029	0.00	65.00	1.47
AtlBr Trnspn	APR 2029	OCT 2029	0.00	65.00	37.16
AtlBr Trnspn	NOV 2029	MAR 2030	0.00	65.00	0.00
AtlBr Trnspn	APR 2030	OCT 2030	0.00	65.00	36.67
AtlBr Trnspn	NOV 2030	MAR 2031	0.00	65.00	0.00
AtlBr Trnspn	APR 2031	OCT 2031	0.00	65.00	36.24
AtlBr Trnspn	NOV 2031	MAR 2032	0.00	65.00	0.00
AtlBr Trnspn	APR 2032	OCT 2032	0.00	65.00	35.80
AtlBr Trnspn	NOV 2032	MAR 2033	0.00	65.00	0.00
AtlBr Trnspn	APR 2033	OCT 2033	0.00	65.00	35.35
AtlBr Trnspn	NOV 2033	MAR 2034	0.00	65.00	0.00
AtlBr Trnspn	APR 2034	OCT 2034	0.00	65.00	34.86
AtlBr Trnspn	NOV 2034	MAR 2035	0.00	65.00	0.00
AtlBr Trnspn	APR 2035	OCT 2035	0.00	65.00	34.41
AtlBr Trnspn	NOV 2035	MAR 2036	0.00	65.00	0.00
AtlBr Trnspn	APR 2036	OCT 2036	0.00	65.00	33.98
AtlBr Trnspn	NOV 2036	MAR 2037	0.00	65.00	0.00
AtlBr Trnspn	APR 2037	OCT 2037	0.00	65.00	33.55
AtlBr Trnspn	NOV 2037	MAR 2038	0.00	65.00	0.00
AtlBr Trnspn	APR 2038	SEP 2038	0.00	65.00	34.51

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

DG 14-380

Petition for Approval of a Firm Transportation Agreement with the Tennessee Gas Pipeline
Company, LLC

OCA Data Requests - Set 2

Date Request Received: 3/27/15
Request No. OCA 2-3

Date of Response: 4/13/15
Respondent: Francisco C. DaFonte

REQUEST

Ref. DaFonte Testimony, FCD-3, and OCA 2-1 and OCA 2-2. Please provide a concise comparison across the SENDOUT ® runs requested in OCA 2-1, and OCA 2-2 and the NED SENDOUT ® run for total portfolio cost, supply cost, demand cost, mitigation, and net cost (in excel format with all cells enabled and formulas intact).

RESPONSE:

Confidential Attachment OCA-2-3 compares the results of the NED SENDOUT® run at 115,000 Dth of capacity to the runs requested in OCA 2-1 and OCA 2-2. The referenced Attachment FCD-3 did not include capacity mitigation revenue so the Company utilized the NED SENDOUT® run provided in its response to Staff request Staff 1-16 for comparison purposes.

Pursuant to Puc 203.08, the Company has a good faith basis for seeking confidential treatment of information in this response. The Company will submit a motion for confidential treatment regarding this information at or before the commencement of the hearing in such proceedings.

The comparison of the C2C run in OCA-2-1 can be summarized as follows:

- Page 1, Column {n} = compares the total portfolio costs between the NED and C2C runs
- Page 1, Column {o} = compares the NED supply costs to the C2C Dracut Baseload and Dracut Swing supply costs
- Page 1, Column {p} = compares the NED Demand Costs to the C2C, Dracut and Concord Lateral Demand Costs
- Page 1, Column {q} = compares the mitigation costs between the NED and C2C runs
- Page 1, Column {r} = compares the net costs between the NED and C2C runs

The comparison of the Atlantic Bridge run in OCA-2-2 can be summarized as follows:

- Page 2, Column {n} = compares the total portfolio costs between the NED and Atlantic Bridge runs

Page 2, Column {o } = compares the NED supply costs to the Atlantic Bridge Dracut Baseload and Dracut Swing supply costs

Page 2, Column {p} = compares the NED Demand Costs to the Atlantic Bridge, Dracut and Concord Lateral Demand Costs

Page 2, Column {q} = compares the mitigation costs between the NED and Atlantic Bridge runs

Page 2, Column {r} = compares the net costs between the NED and Atlantic Bridge runs

	(a) Report 1	(b) Report 1	(c) Report 1	(d) Report 1	(e) Report 1	(f) Report 1	(g) Report 1	(h) Report 1	(i)-(j) Report 1
Split Year	Total Costs (\$000's)	C2C Supply Costs (\$000's)	Dracut Swing Costs (\$000's)	C2C Demand Costs (\$000's)	Concord Lat Demand Costs (\$000's)	Dracut Demand Costs (\$000's)	Mitigation Costs (\$000's)	Net Costs (\$000's)	
2018 19	163,146	43,656	1,234	33,690		5,549	6,887	156,259	
2019 20	169,356	48,215	1,310	33,690		5,549	6,221	163,135	
2020 21	173,143	51,175	1,613	33,690		5,549	5,858	167,285	
2021 22	177,371	54,152	1,715	33,690		5,549	5,428	171,943	
2022 23	181,318	57,136	2,024	33,690		5,549	4,972	176,346	
2023 24	185,506	60,710	2,017	33,690		5,549	4,157	181,349	
2024 25	187,863	62,176	2,151	33,690		5,549	4,094	183,769	
2025 26	190,448	64,195	2,249	33,690		5,549	3,707	186,741	
2026 27	193,047	66,376	2,299	33,690		5,549	3,269	189,778	
2027 28	196,666	69,195	2,358	33,690		5,549	2,782	193,834	
2028 29	198,884	70,593	2,492	33,690		5,549	2,742	196,142	
2029 30	202,142	72,518	2,637	33,690		5,549	2,700	199,442	
2030 31	205,820	74,535	3,554	33,690		5,549	2,660	203,160	
2031 32	210,703	77,179	4,756	33,690		5,549	2,613	208,090	
2032 33	213,360	78,716	5,338	33,690		5,549	2,534	210,826	
2033 34	217,642	80,776	6,727	33,690		5,549	2,486	215,156	
2034 35	222,150	82,851	8,272	33,690		5,549	2,433	219,717	
2035 36	228,497	85,584	11,151	33,690		5,549	2,368	226,129	
2036 37	231,789	86,915	12,736	33,690		5,549	2,330	229,459	
2037 38	236,642	89,914	14,146	33,690		5,549	2,054	234,588	
	3,985,493	1,376,567	90,779	673,800		110,980	72,295	3,913,198	

NPV = \$2,912,535 \$990,746 \$59,391 \$501,222 \$82,555 \$57,253 \$2,855,282

REDACTED

	(k) Report 1	(l) Report 1	(m) Report 1	(n) Report 1	
Split Year	Total Costs (\$000's)	Supply Costs (\$000's)	NED Demand Costs (\$000's)	Cost Mitigation (\$000's)	Net Costs (\$000's)
2018 19	159,560	46,643		16,622	142,938
2019 20	165,608	51,465		15,850	149,758
2020 21	169,188	54,257		14,937	154,251
2021 22	173,273	57,424		14,219	159,054
2022 23	177,100	60,459		13,509	163,591
2023 24	181,412	63,984		12,845	168,567
2024 25	183,427	65,696		12,134	171,293
2025 26	185,921	67,853		11,539	174,382
2026 27	188,477	70,056		10,902	177,575
2027 28	191,975	73,007		10,276	181,699
2028 29	193,826	74,678		9,628	184,198
2029 30	196,524	77,005		8,994	187,530
2030 31	199,387	79,492		8,245	191,142
2031 32	203,211	82,745		7,586	195,625
2032 33	205,272	84,616		6,865	198,407
2033 34	208,370	87,325		6,141	202,229
2034 35	211,551	90,112		5,403	206,148
2035 36	215,737	93,699		4,690	211,047
2036 37	217,852	95,611		4,005	213,847
2037 38	220,957	98,399		3,319	217,638
	3,848,628	1,474,526		197,709	3,651,482

\$2,818,582 \$1,059,291 \$156,604 \$2,661,978

	(n) Report 1	(o) Report 1	(p) Report 1	(q) Report 1	(r) Report 1
Split Year	Total Costs (\$000's)	Supply Costs (\$000's)	Demand Costs (\$000's)	Cost Mitigation (\$000's)	Net Costs (\$000's)
2018 19	3,586	-1,753	-402	-9,735	13,321
2019 20	3,748	-1,940	-402	-9,629	13,377
2020 21	3,955	-1,469	-402	-9,079	13,034
2021 22	4,098	-1,557	-402	-8,791	12,889
2022 23	4,218	-1,299	-402	-8,537	12,755
2023 24	4,094	-1,257	-402	-8,688	12,782
2024 25	4,436	-1,369	-402	-8,040	12,476
2025 26	4,527	-1,409	-402	-7,832	12,359
2026 27	4,570	-1,381	-402	-7,633	12,203
2027 28	4,691	-1,454	-402	-7,494	12,185
2028 29	5,058	-1,593	-402	-6,886	11,944
2029 30	5,618	-1,850	-402	-6,294	11,912
2030 31	6,433	-1,403	-402	-5,585	12,018
2031 32	7,492	-810	-402	-4,973	12,465
2032 33	8,088	-562	-402	-4,331	12,419
2033 34	9,272	178	-402	-3,655	12,927
2034 35	10,599	1,011	-402	-2,970	13,569
2035 36	12,760	3,036	-402	-2,322	15,082
2036 37	13,937	4,040	-402	-1,675	15,612
2037 38	15,685	5,661	-402	-1,265	16,950
	136,865	-7,180	-8,040	-125,414	262,279

\$93,953 (\$9,153) (\$5,981) (\$99,787) \$193,740

REDACTED

65,000 Dth Atlantic Bridge SENDOUT Run w/ CAPACITY RELEASE

2017-2038 Transportation Agreement
 Testimony of Chattopadhyay
 Attachment PKC-2

2017-2038 Transportation Agreement
 Testimony of Chattopadhyay
 Attachment PKC-2

Split Year	Report 1	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(a) - (h)
		Report 1	Report 1	Report 1	Report 1	Report 1	Report 1	Report 1		
		Total Costs (\$000's)	Atl Br Supply Costs (\$000's)	Dracut Swing Costs (\$000's)	Atl Br Demand Costs (\$000's)	Concord Lat Demand Costs (\$000's)	Dracut Demand Costs (\$000's)	Mitigation Costs (\$000's)	Net Costs (\$000's)	
2018	19	166,844	40,814	2,367	39,601		5,549	8,807	158,037	
2019	20	172,909	45,141	2,523	39,601		5,549	8,100	164,809	
2020	21	176,531	47,726	2,949	39,601		5,549	7,558	168,973	
2021	22	180,652	50,599	3,074	39,601		5,549	7,058	173,594	
2022	23	184,531	53,373	3,563	39,601		5,549	6,580	177,951	
2023	24	188,873	56,627	3,636	39,601		5,549	6,002	182,871	
2024	25	190,881	58,298	3,708	39,601		5,549	5,593	185,288	
2025	26	193,399	60,225	3,842	39,601		5,549	5,185	188,214	
2026	27	195,954	62,201	3,963	39,601		5,549	4,749	191,205	
2027	28	199,414	64,997	3,989	39,601		5,549	4,190	195,224	
2028	29	201,286	66,502	4,137	39,601		5,549	3,844	197,442	
2029	30	204,000	68,635	4,243	39,601		5,549	3,423	200,577	
2030	31	207,338	70,547	4,620	39,601		5,549	3,377	203,961	
2031	32	211,714	73,092	5,144	39,601		5,549	3,331	208,383	
2032	33	214,190	74,666	5,516	39,601		5,549	3,283	210,907	
2033	34	217,939	76,447	6,149	39,601		5,549	3,232	214,707	
2034	35	221,859	78,427	6,917	39,601		5,549	3,183	218,676	
2035	36	226,985	82,986	8,212	39,601		5,549	3,138	223,847	
2036	37	229,669	84,314	9,208	39,601		5,549	3,093	226,576	
2037	38	233,297	87,600	9,115	39,601		5,549	2,712	230,585	
		4,018,265	1,303,217	96,875	792,020		110,980	96,438	3,921,827	
NPV =		\$2,941,470	\$936,139	\$67,468	\$589,163		\$82,555	\$76,309	\$2,865,161	

REDACTED

Split Year	Report 1	(i)	(j)	(k)	(l)	(m)	(i) - (l)
		Report 1	Report 1	Report 1	Report 1	Report 1	
		Total Costs (\$000's)	Supply Costs (\$000's)	NED Demand Costs (\$000's)	Cost Mitigation (\$000's)	Net Costs (\$000's)	
2018	19	159,560	46,643		16,622	142,938	
2019	20	165,608	51,465		15,850	149,758	
2020	21	169,188	54,257		14,937	154,251	
2021	22	173,273	57,424		14,219	159,054	
2022	23	177,100	60,459		13,509	163,591	
2023	24	181,412	63,994		12,845	168,567	
2024	25	183,427	65,696		12,134	171,293	
2025	26	185,921	67,853		11,539	174,382	
2026	27	188,477	70,056		10,902	177,575	
2027	28	191,975	73,007		10,276	181,699	
2028	29	193,826	74,678		9,628	184,198	
2029	30	196,524	77,005		8,994	187,530	
2030	31	199,387	79,492		8,245	191,142	
2031	32	203,211	82,745		7,586	195,625	
2032	33	205,272	84,616		6,865	198,407	
2033	34	208,370	87,325		6,141	202,229	
2034	35	211,551	90,112		5,403	206,148	
2035	36	215,737	93,699		4,690	211,047	
2036	37	217,852	95,611		4,005	213,847	
2037	38	220,957	98,399		3,319	217,638	
		3,848,628	1,474,526		197,709	3,651,482	
NPV =		\$2,818,582	\$1,059,291		\$156,604	\$2,661,978	

Postive = Atl Br is GREATER; Negative = Atl Br is LESS

Split Year	Report 1	(n)	(o)	(p)	(q)	(r)	(n) - (o)
		Report 1	Report 1	Report 1	Report 1	Report 1	
		Total Costs (\$000's)	Supply Costs (\$000's)	Demand Costs (\$000's)	Cost Mitigation (\$000's)	Net Costs (\$000's)	
2018	19	7,284	-3,462	5,509	-7,815	15,099	
2019	20	7,301	-3,801	5,599	-7,750	15,051	
2020	21	7,343	-3,582	5,599	-7,379	14,722	
2021	22	7,379	-3,751	5,599	-7,161	14,540	
2022	23	7,431	-3,523	5,599	-6,929	14,360	
2023	24	7,461	-3,721	5,599	-6,843	14,304	
2024	25	7,454	-3,690	5,599	-6,541	13,995	
2025	26	7,478	-3,786	5,599	-6,354	13,832	
2026	27	7,477	-3,892	5,599	-6,153	13,630	
2027	28	7,439	-4,021	5,599	-6,086	13,525	
2028	29	7,460	-4,039	5,599	-5,784	13,244	
2029	30	7,476	-4,127	5,599	-5,571	13,047	
2030	31	7,951	-4,325	5,599	-4,868	12,819	
2031	32	8,503	-4,509	5,599	-4,255	12,758	
2032	33	8,918	-4,434	5,599	-3,582	12,500	
2033	34	9,569	-4,729	5,599	-2,909	12,478	
2034	35	10,308	-4,768	5,599	-2,220	12,528	
2035	36	11,248	-2,501	5,599	-1,552	12,800	
2036	37	11,817	-2,089	5,599	-912	12,729	
2037	38	12,340	-1,684	5,599	-607	12,947	
		169,637	-74,434	111,890	-101,271	270,908	
NPV =		\$122,889	(\$55,683)	\$83,212	(\$80,731)	\$203,620	

REDACTED

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

DG 14-380

Petition for Approval of a Firm Transportation Agreement with the Tennessee Gas Pipeline
Company, LLC

OCA Data Requests - Set 2

Date Request Received: 3/27/15
Request No. OCA 2-5

Date of Response: 4/13/15
Respondent: Francisco C. DaFonte

REQUEST

Ref. Company's response to Data Request Staff 1-12.

- a. Please conduct a SENDOUT ® analysis for the NED option using NED capacity amount of 105,000 Dth-per day. Assume any deficiency would be met from other sources (including Dracut) using the least-cost alternatives available. Please clearly identify any additional assumptions made for the SENDOUT® run. Report the annual total portfolio cost, supply cost, demand cost, mitigation, and net costs for 2018-19 to 2037-38 (in excel format akin to the Company's response to Staff 1-16(a) with all cells enabled and formulas intact). Also, include two columns to show respectively NED Total Take, and Rest-of-Portfolio Total Take.
- b. Please conduct a SENDOUT ® analysis for the NED option using NED capacity amount of 95,000 Dth-per day. Assume any deficiency would be met from other sources (including Dracut) using the least-cost alternatives available. Please clearly identify any additional assumptions made for the SENDOUT® run. Report the annual total portfolio cost, supply cost, demand cost, mitigation, and net costs for 2018-19 to 2037-38 (in excel format akin to the Company's response to Staff 1-16(a) with all cells enabled and formulas intact). Also, include two columns to show respectively NED Total Take, and Rest-of-Portfolio Total Take.
- c. Please conduct a SENDOUT ® analysis for the NED option using NED capacity amount of 85,000 Dth-per day. Assume any deficiency would be met from other sources (including Dracut) using the least-cost alternatives available. Please clearly identify any additional assumptions made for the SENDOUT® run. Report the annual total portfolio cost, supply cost, demand cost, mitigation, and net costs for 2018-19 to 2037-38 (in excel format akin to the Company's response to Staff 1-16(a) with all cells enabled and formulas intact). Also, include two columns to show respectively NED Total Take, and Rest-of-Portfolio Total Take.
- d. Please conduct a SENDOUT ® analysis for the NED option using NED capacity amount of 75,000 Dth-per day. Assume any deficiency would be met from other sources (including Dracut) using the least-cost alternatives available. Please clearly identify any

additional assumptions made for the SENDOUT® run. Report the annual total portfolio cost, supply cost, demand cost, mitigation, and net costs for 2018-19 to 2037-38 (in excel format akin to the Company's response to Staff 1-16(a) with all cells enabled and formulas intact). Also, include two columns to show respectively NED Total Take, and Rest-of-Portfolio Total Take.

- e. Please conduct a SENDOUT ® analysis for the NED option using NED capacity amount of 65,000 Dth-per day. Assume any deficiency would be met from other sources (including Dracut) using the least-cost alternatives available. Please clearly identify any additional assumptions made for the SENDOUT® run. Report the annual total portfolio cost, supply cost, demand cost, mitigation, and net costs for 2018-19 to 2037-38 (in excel format akin to the Company's response to Staff 1-16(a) with all cells enabled and formulas intact). Also, include two columns to show respectively NED Total Take, and Rest-of-Portfolio Total Take.

RESPONSE:

Please see Attachment OCA 2-5 for the requested SENDOUT® output for parts (a) through (e). Pursuant to Puc 203.08, the Company has a good faith basis for seeking confidential treatment of information in this response. The Company will submit a motion for confidential treatment regarding this information at or before the commencement of the hearing in such proceedings.

- a. Assumptions in the SENDOUT® run for the 105,000 Dth per day NED scenario include maintaining the blended Dracut capacity rate of approximately \$0.30 per Dth in order to satisfy the 10,000 Dth per day of unsupplied demand as a result of reducing the NED capacity by 10,000. For the Dracut supply assumption, the Company assumed the following for each month:

January - the average of the 10 highest basis days for the past 3 winters.
December and February - the average of the 20 highest basis days for the past 3 winters.
November and March - the average of the 30 highest basis days for the past 3 winters.
- b. Assumptions in the SENDOUT® run for the 95,000 Dth per day NED scenario include maintaining the existing Dracut capacity contracts until their expiration and then terminating each with the exception of needing to retain 20,000 Dth after the last contract expiration at the end of October 2029 in order to satisfy the 20,000 Dth per day of unsupplied demand as a result of reducing the NED capacity by 20,000. For the Dracut supply assumption, the Company assumed the following for each month:

January - the average of the 10 highest basis days for the past 3 winters.
December and February - the average of the 20 highest basis days for the past 3 winters.
November and March - the average of the 30 highest basis days for the past 3 winters.

- c. Assumptions in the SENDOUT® run for the 85,000 Dth per day NED scenario include maintaining the existing Dracut capacity contracts until their expiration and then terminating each with the exception of needing to retain 30,000 Dth after the last contract expiration at the end of October 2029 in order to satisfy the 30,000 Dth per day of unsupplied demand as a result of reducing the NED capacity by 30,000. For the Dracut supply assumption, the Company assumed the following for each month:

January - the average of the 10 highest basis days for the past 3 winters.

December and February - the average of the 20 highest basis days for the past 3 winters.

November and March - the average of the 30 highest basis days for the past 3 winters.

- d. Assumptions in the SENDOUT® run for the 75,000 Dth per day NED scenario include maintaining the existing Dracut capacity for 30,000 Dth per day and reducing the Dracut capacity contract from 20,000 Dth per day to 10,000 Dth per day upon its expiration after October 2020 in order to satisfy the 40,000 Dth per day of unsupplied demand as a result of reducing the NED capacity by 40,000. For the Dracut supply assumption, the Company assumed the following for each month:

January - the average of the 10 highest basis days for the past 3 winters.

December and February - the average of the 20 highest basis days for the past 3 winters.

November and March - the average of the 30 highest basis days for the past 3 winters.

- e. Assumptions in the SENDOUT® run for the 65,000 Dth per day NED scenario include maintaining the existing Dracut capacity throughout the forecast period in order to satisfy the 50,000 Dth per day of unsupplied demand as a result of reducing the NED capacity by 50,000. For the Dracut supply assumption, the Company assumed the following for each month:

January - the average of the 10 highest basis days for the past 3 winters.

December and February - the average of the 20 highest basis days for the past 3 winters.

It should be noted that any reduction in the NED capacity would limit the Company's ability to satisfy design day requirements and would not take into account the increased demand scenarios and potential propane plant retirements as detailed in the Company's response to Staff request Staff Tech-23. It should also be noted that the Precedent Agreement filed for approval in this docket does not contemplate any volumes below 100,000 Dth and would require renegotiated terms and conditions to address any lower volume.

105,000 Dth NED SENDOUT Run

Split Year	(a) Report 1	(b) Report 1	(c) Report 1	(d) Report 1	(e) {a} - {d}	(f) Report 1	(g) Report 1
	Total Costs	NED Supply Costs	NED Demand Costs	Cost Mitigation	Net Costs	NED Take	Rest of Portfolio Take
2018 19	159,865	45,163		16,610	143,255	10,124	7,736
2019 20	165,951	49,999		15,838	150,113	10,753	7,716
2020 21	169,518	52,848		14,925	154,593	11,028	7,649
2021 22	173,600	56,042		14,206	159,394	11,348	7,620
2022 23	177,427	59,154		13,497	163,930	11,680	7,588
2023 24	181,745	62,701		12,832	168,913	12,107	7,597
2024 25	183,727	64,460		12,121	171,606	12,293	7,547
2025 26	186,216	66,623		11,527	174,689	12,569	7,535
2026 27	188,750	68,891		10,890	177,860	12,857	7,514
2027 28	192,219	71,872		10,264	181,955	13,246	7,530
2028 29	194,059	73,578		9,616	184,443	13,437	7,485
2029 30	196,737	75,949		8,982	187,755	13,721	7,470
2030 31	199,569	78,485		8,233	191,336	14,027	7,454
2031 32	203,371	81,776		7,574	195,797	14,437	7,470
2032 33	205,441	83,671		6,853	198,588	14,640	7,427
2033 34	208,516	86,420		6,129	202,387	14,962	7,414
2034 35	211,658	89,328		4,973	206,685	15,306	7,382
2035 36	215,805	92,958		4,247	211,558	15,735	7,401
2036 37	217,927	94,919		3,547	214,380	15,924	7,357
2037 38	221,031	97,697		2,864	218,167	16,222	7,337
	3,853,132	1,452,534		195,728	3,657,404		

NPV = \$2,822,157 \$1,042,316 [REDACTED] \$155,853 \$2,666,304

95,000 Dth NED SENDOUT Run

	(a) Report 1	(b) Report 1	(c) Report 1	(d) Report 1	(e) {a} - {d}	(f) Report 1	(g) Report 1
Split Year	Total Costs	NED Supply Costs	NED Demand Costs	Cost Mitigation	Net Costs	NED Take	Rest of Portfolio Take
2018 19	160,344	43,205		15,655	144,689	9,574	8,284
2019 20	166,490	48,047		14,952	151,538	10,236	8,243
2020 21	169,037	50,837		14,398	154,639	10,522	8,163
2021 22	173,227	53,999		13,919	159,308	10,858	8,118
2022 23	177,037	57,152		13,320	163,717	11,216	8,058
2023 24	181,479	60,703		12,779	168,700	11,657	8,053
2024 25	183,327	62,596		12,146	171,181	11,876	7,970
2025 26	185,748	64,874		11,552	174,196	12,179	7,930
2026 27	188,195	67,179		10,915	177,280	12,480	7,896
2027 28	191,605	70,238		10,288	181,317	12,890	7,891
2028 29	193,411	72,010		9,640	183,771	13,099	7,828
2029 30	194,588	74,407		8,970	185,618	13,394	7,802
2030 31	197,382	76,992		8,221	189,161	13,715	7,770
2031 32	201,159	80,323		7,562	193,597	14,137	7,775
2032 33	203,174	82,270		6,840	196,334	14,354	7,718
2033 34	206,224	85,056		6,117	200,107	14,687	7,693
2034 35	209,294	88,235		4,900	204,394	15,095	7,597
2035 36	212,997	92,132		3,020	209,977	15,567	7,573
2036 37	215,293	93,975		2,930	212,363	15,741	7,544
2037 38	218,584	96,712		2,822	215,762	16,036	7,527
	3,828,595	1,420,942		190,946	3,637,649		

NPV = \$2,806,476 \$1,017,924 [REDACTED] \$152,071 \$2,654,405

85,000 Dth NED SENDOUT Run

Split Year	(a) Report 1	(b) Report 1	(c) Report 1	(d) Report 1	(e) {a} - {d}	(f) Report 1	(g) Report 1
	Total Costs	NED Supply Costs	NED Demand Costs	Cost Mitigation	Net Costs	NED Take	Rest of Portfolio Take
2018 19	155,302	42,970		12,864	142,438	9,502	8,367
2019 20	161,529	47,546		12,237	149,292	10,087	8,393
2020 21	164,127	50,157		11,757	152,370	10,326	8,360
2021 22	168,372	53,121		11,349	157,023	10,614	8,364
2022 23	172,232	56,077		10,824	161,408	10,926	8,350
2023 24	176,705	59,519		10,318	166,387	10,344	9,369
2024 25	178,770	61,162		9,960	168,810	11,512	8,337
2025 26	181,387	63,218		9,619	171,768	11,770	8,343
2026 27	184,036	65,299		9,247	174,789	12,027	8,353
2027 28	187,645	68,126		8,795	178,850	12,391	8,395
2028 29	189,549	69,762		8,460	181,089	12,576	8,356
2029 30	192,273	72,196		8,021	184,252	12,892	8,308
2030 31	195,203	74,780		7,541	187,662	13,225	8,265
2031 32	199,035	78,150		6,946	192,089	13,666	8,250
2032 33	201,181	80,077		6,594	194,587	13,892	8,184
2033 34	204,332	82,848		6,098	198,234	14,233	8,151
2034 35	207,162	86,683		4,887	202,275	14,792	7,906
2035 36	210,467	90,784		2,994	207,473	15,299	7,846
2036 37	212,805	92,603		2,904	209,901	15,474	7,816
2037 38	216,192	95,294		2,797	213,395	15,767	7,801
	3,758,304	1,390,372		164,212	3,594,092		

NPV = \$2,751,393 \$996,217 [REDACTED] \$129,585 \$2,621,808

75,000 Dth NED SENDOUT Run

Split Year	(a) Report 1	(b) Report 1	(c) Report 1	(d) Report 1	(e) {a} - {d}	(f) Report 1	(g) Report 1
	Total Costs	NED Supply Costs	NED Demand Costs	Cost Mitigation	Net Costs	NED Take	Rest of Portfolio Take
2018 19	150,192	42,970		10,001	140,191	9,502	8,367
2019 20	156,419	47,546		9,360	147,059	10,087	8,393
2020 21	159,599	50,141		8,931	150,668	10,324	8,362
2021 22	163,844	53,104		8,523	155,321	10,611	8,367
2022 23	167,706	56,077		7,997	159,709	10,926	8,350
2023 24	172,182	59,542		7,478	164,704	11,348	8,365
2024 25	174,247	61,182		7,133	167,114	11,515	8,334
2025 26	176,858	63,199		6,792	170,066	11,767	8,345
2026 27	179,509	65,299		6,421	173,088	12,027	8,353
2027 28	183,119	68,126		5,954	177,165	12,391	8,395
2028 29	185,033	69,697		5,647	179,386	12,561	8,371
2029 30	187,826	71,907		5,276	182,550	12,820	8,381
2030 31	190,809	74,299		4,854	185,955	13,108	8,383
2031 32	194,697	77,463		4,310	190,387	13,500	8,417
2032 33	196,892	79,216		4,034	192,858	13,686	8,392
2033 34	200,102	81,786		3,613	196,489	13,981	8,405
2034 35	203,265	85,426		2,884	200,381	14,508	8,192
2035 36	208,304	88,631		2,829	205,475	14,882	8,266
2036 37	210,869	90,312		2,801	208,068	15,032	8,262
2037 38	214,623	92,737		2,755	211,868	15,282	8,290
	3,676,095	1,378,660		117,593	3,558,502		

NPV = \$2,688,435 \$989,215 [REDACTED] \$93,257 \$2,595,178

65,000 Dth NED SENDOUT Run

Split Year	(a) Report 1	(b) Report 1	(c) Report 1	(d) Report 1	(e) {a} - {d}	(f) Report 1	(g) Report 1
	Total Costs	NED Supply Costs	NED Demand Costs	Cost Mitigation	Net Costs	NED Take	Rest of Portfolio Take
2018 19	145,082	42,970		7,138	137,944	9,502	8,367
2019 20	151,309	47,546		6,483	144,826	10,087	8,392
2020 21	155,077	50,157		6,104	148,973	10,326	8,360
2021 22	159,322	53,121		5,696	153,626	10,614	8,364
2022 23	163,182	56,077		5,171	158,011	10,926	8,350
2023 24	167,655	59,519		4,637	163,018	11,344	8,369
2024 25	169,720	61,162		4,307	165,413	11,512	8,337
2025 26	172,337	63,218		3,966	168,371	11,770	8,342
2026 27	174,985	65,299		3,594	171,391	12,027	8,353
2027 28	178,595	68,126		3,114	175,481	12,391	8,395
2028 29	180,512	69,716		2,820	177,692	12,564	8,368
2029 30	183,640	71,725		2,738	180,902	12,792	8,408
2030 31	187,167	73,876		2,685	184,482	13,043	8,448
2031 32	191,882	76,680		2,638	189,244	13,381	8,537
2032 33	194,420	78,284		2,581	191,839	13,544	8,535
2033 34	198,574	80,496		2,535	196,039	13,784	8,604
2034 35	202,730	83,709		2,238	200,492	14,248	8,455
2035 36	209,056	86,437		2,184	206,872	14,554	8,596
2036 37	212,296	87,827		2,156	210,140	14,665	8,631
2037 38	217,275	89,848		2,114	215,161	14,861	8,713
	3,614,816	1,365,793		74,899	3,539,917		

NPV = \$2,638,042 \$981,558 [REDACTED] \$59,539 \$2,578,503

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

DG 14-380

Petition for Approval of a Firm Transportation Agreement with the Tennessee Gas Pipeline
Company, LLC

Staff Data Requests - Set 1

Date Request Received: 1/14/15
Request No. Staff 1-12

Date of Response: 1/30/15
Respondent: Francisco C. DaFonte

REQUEST:

Ref. DaFonte Testimony, Bates p. 22, lines 1-11. Please provide the amount of the annual reservation charge and the average annual Dth cost based on the projected load factor over the 20-year term of the Market Path Firm Agreement. Please provide the same information to include or exclude changes in annual reservation charges anticipated as result of entering the Market Path Firm Agreement. Explain each change, if any.

RESPONSE:

The amount of the annual reservation charge and the average annual Dth cost over the 20-year term of the Market Path Firm Agreement can be found within the SENDOUT® run in DaFonte Testimony Attachment FCD-3 starting on Bates p.108. A summary of these costs is provided in Attachment Staff-1-12.xlsx along with a summary of the same information net of any reservation charge reductions attributable to other portfolio changes.

