Request IR-1:

Please provide in Excel-compatible format the calculations and data used to produce the values in Figure 26 of the application (page 62) and identify the sources of all the data that is used.

Response IR-1:

All forecast modeling and calculations explained in Appendix B are done in NS Power's forecasting software, Metrix ND. The class level forecast output from the software is combined with NS Power's large customer information to create the final forecast. Confidential Attachment 1 is the spreadsheet combining all the class forecasts. The residential forecast on the Energy Annual Profile page needs to be combined with information on the HP tab to get the final residential forecast.

Synapse IR-1 Attachment 1 has been removed due to confidentiality.

Request IR-2:

Identify specifically how the load forecast values in the application relate to the values and tables in the filed 2015 Load Forecast in Appendix A.

Response IR-2:

The load forecast values in the Application are not related to the values and tables in the filed 2015 Load Forecast in Appendix A. The 2015 Load Forecast in Appendix A is NS Power's most recent 10 year load forecast report and was included in the application because it is a required component of the Base Cost of Fuel standardized filing.

A new forecast was created for Application. Information on the derivation of the load forecast values used in the Application is found in Appendix B. Please refer to SBA IR-12.

Request IR-3:

Please explain the justification for using the actual 2015 load number as the base year value for the forecast in Figure 26 although that may not have been a typical year.

Response IR-3:

The most recent year's actual results were included to provide context for the forecast amounts. A similar approach was taken in other figures in the Application such as Figures 6 and 23.

Request IR-4:

The net system requirement values in Figure 26 of the application (page 62) are higher than the Energy Requirement values in Table A1 in Appendix A SR-02 (Appendix A SR-02 Attachment 1 Page 32 of 65). Please explain the reasons for those differences.

Response IR-4:

Please refer to Synapse IR-2.

Request IR-5:

Figure 11 of the 2015 Load Forecast in Appendix A indicates annual incremental DSM savings of 100 GWh and 18 MW per year. But the Board letter of October 21, 2015 noted that a DSM goal of 135 GWh should be achieved consistent with the M06733 Board approval. Please indicate in detail how that would affect the results shown in Forecast Appendix A, specifically Tables A1 through A4.

Response IR-5:

Please refer to NSUARB IR-6 to see the 2015 load forecast restated with the values from the 2016 – 2018 DSM Procurement proceeding.

Request IR-6:

Please indicate in detail how this DSM change would affect the values in Figure 26 of the application.

Response IR-6:

Please refer to Synapse IR-2.

Request IR-7:

Please indicate where these changes in the load forecast would affect various aspects of the FSP application. That is, which specific figures, tables and results would be affected.

Response IR-7:

A change in load has pervasive effects on the FSP application. The figures below were identified as potentially being impacted by a change in load.

Figure 1 – 2017-2020 Percent Changes in Base Cost Rate Revenue by Rate Class
Figure 2 – Average Rate Increases Without FAM and RSA Adjustments
Figure 3 – CONFIDENTIAL Comparative Physical Solid Fuel Portfolio 2016-2019
Figure 6 – NS Power Fuel Costs Per MWh 2015-2020
Figure 7 – 2017 BCF Component Price Changes vs 2016 BCF Compliance Filing
Figure 8 – 2018 BCF Component Price Changes vs 2017 BCF
Figure 9 – 2019 BCF Component Price Changes vs 2018 BCF
Figure 10 – CONFIDENTIAL Comparison of Cost of Fuel/MWh 2016-2019
Figure 11 – 2016 BCF Compliance and 2017-2019 BCF Fuel and Purchased Power Cost by Fuel Type
Figure 12 – 2016 BCF Compliance and 2017-2019 BCF Generation Mix by Type
Figure 13 – CONFIDENTIAL Solid Fuel Mix 2016 BCF Compliance Filing and 2017-2019 BCF
Figure 14 – CONFIDENTIAL Delivered Solid Fuel Costs / MT 2016-2019
Figure 17 – CONFIDENTIAL Natural Gas Cost Comparison 2016-2019
Figure 18 – CONFIDENTIAL HFO Costs Comparison 2016-2019
Figure 19 – CONFIDENTIAL LFO Pricing Comparison 2016 – 2019
Figure 22 – COMFIT Forecast 2017 - 2019
Figure 23 – CONFIDENTIAL Forecast Import Volumes and Pricing 2017-2019
Figure 25 – Impact of Below-the-Line Customer Classes on Base Cost of Fuel

1 Figure 26 – Load Forecast by Sector 2015 - 2019

2 Figure 29 – Projected Rate Increases under Fuel Stability Plan Including 2020

3 Figure 30 – Total Fuel Cost 2016-2020

4 Figure 31 – Projected Fuel Cost Components 2017-2020

Request IR-8:

For each of those effects please provide the precise nature of the changes. e.g. how would the values in Figure 1 (page 22) be affected. Please also provide in Excel-compatible format the details of the calculations behind those changes.

Response IR-8:

The Company has not made determinations about how potential load changes referred to in Synapse IR-7 might affect rate changes of individual rate classes. Such determinations would require comprehensive analyses of generation mix, fuel costs, and revenues which the Company has not had time to perform for the purpose of these requests. Any change in actual load or fuel costs will flow through the FAM so that customers only pay actual costs incurred.

Request IR-9:

Also how would the $7.75 million increase cited on page 29, line 10 change with these load changes? Please explain those changes in detail. Please provide in Excel-compatible format the details of the calculations behind those changes.

Response IR-9:

Please refer to Attachment 1. The cost variance due to load would be ($7.8) million.

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	Fuel and Purchased Power Cost	MWh	$/MWh
2019	$ 670,039,787	$ 11,070,000	$ 60.53
2016	$ 541,984,078	$ 11,198,986	$ 48.40
Difference	$ 128,055,709	(128,986)	$ 12.13

Load Variance $ (7,807,204.33)

Request IR-10:

Please indicate how the values and results in Appendix B "Load Forecasting Methodology" are reflected in the Load Forecast as filed in Appendix A.

Response IR-10:

The values and results in Appendix B are the supporting information for the BCF load forecast. The information in Appendix A supports last year's load forecast and is independent of Appendix B. Please refer to Synapse IR-2.

Request IR-11:

On pages 10-12 of Appendix B "Load Forecasting Methodology" there is a discussion of the DSM embedded in the forecast. Please explain in detail how those effects are, or are not, included in the 2015 Load Forecast in Appendix A – specifically Tables A1 through A4.

Response IR-11:

The effects of embedded DSM are not included at all in the 2015 Load Forecast in Appendix A. The analysis to quantify the effects of embedded DSM was done after the 2015 Load Forecast was filed in April 2015. Please refer to Synapse IR-2.

Request IR-12:

Figure 10 in Appendix B (page 12) seems to indicate that about 124 GWh of DSM savings were projected, but that the application of the DSM variable coefficients reduce this to about 70 GWh. Please explain in detail the calculations behind both the projected savings and the adjustments.

Response IR-12:

The 2016 to 2018 projected DSM savings targets are from Efficiency One's DSM plan covering the 2016 –2018 period, approved by the UARB in August 2015. In December 2015 provincial legislation was introduced capping DSM spending in 2019 to the average from 2016 – 2018. For the BCF load forecast, 2019 savings were held equal to 2018 levels.

The adjusted savings are equal to the projected savings multiplied by the calculated DSM coefficient. The calculations for 2017 are provided as an example below.

2017	Projected DSM	X	DSM Coefficient	=	Adjusted DSM
Residential:	59.8 GWh	X	0.622	=	37.2 GWh
Com & Ind:	64.9 GWh	X	0.517	=	33.56 GWh

Request IR-13:

In addition please provide the details on how the embedded DSM effects are calculated, including all the data and the associated computations. Please include in that the annual incremental and cumulative DSM values and their source(s).

Response IR-13:

Details on how the embedded DSM effects are calculated can be found in Appendix B, page 11.

Please refer to Attachment 1 for the historical annual incremental and cumulative DSM values used to determine the level of embedded DSM. The sources of the DSM annual savings are:

- 2008: M02787, Nova Scotia's 2009 Electricity Demand Side Management Evaluation Report, Page 2
- 2009: M02787, Nova Scotia's 2009 Electricity Demand Side Management Evaluation Report, Page 2
- 2010: M03669, Exhibit E-3, 2010 Savings Verification Study, Page 6
- 2011: M05904, Exhibit E-2, 2012 DSM Evaluation Reports by Econoler, Page 9
- 2012: M05904, Exhibit E-2, 2012 DSM Evaluation Reports by Econoler, Page 9
- 2013: M06247, Exhibit E-2, 2015 DSM Plan Evidence, Page 5
- 2014: M06733, Exhibit E-2, 2014 DSM Evaluation Reports by Econoler, Page 10

1 • 2015: M06247, Exhibit E-2, 2015 DSM Plan Evidence, Page 26

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	Annual Residential DSM Savings (GWh)	Residential Cumulative DSM Savings (GWh)	Annual Commercial DSM Savings (GWh)	Commercial Cumulative DSM Savings (GWh)
2008	11.8	12	7	7
2009	38.6	50	19	27
2010	19.7	70	58	85
2011	40.2	110	90	175
2012	66.0	176	80	255
2013	72.0	248	78	333
2014	72.5	321	67	399
2015	54.7	376	57	456

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RES

Year	Month	Monthly Allocated			Full Year	Half Year
2008	1	1	0.083	0	12	6
2008	2	1	0.167	0	12	12
2008	3	1	0.250	0	142	71
2008	4	1	0.333	0	78	78
2008	5	1	0.417	0	2	0.91
2008	6	1	0.500	0		
2008	7	1	0.583	1		
2008	8	1	0.667	1		
2008	9	1	0.750	1		
2008	10	1	0.833	1		
2008	11	1	0.917	1		
2008	12	1	1.000	1		
2009	1	1	1.000	1		
2009	2	1	1.000	1		
2009	3	1	1.000	1		
2009	4	1	1.000	1		
2009	5	1	1.000	1		
2009	6	1	1.000	1		
2009	7	1	1.000	1		
2009	8	1	1.000	1		
2009	9	1	1.000	1		
2009	10	1	1.000	1		
2009	11	1	1.000	1		
2009	12	1	1.000	1		

COM

Year	Month	Monthly Allocated			Full Year	Half Year
2008	1	1	0.083	0	7	4
2008	2	1	0.167	0	12	12
2008	3	1	0.250	0	89	45
2008	4	1	0.333	0	78	78
2008	5	1	0.417	0	1	0.57
2008	6	1	0.500	0		
2008	7	1	0.583	0		
2008	8	1	0.667	0		
2008	9	1	0.750	0		
2008	10	1	0.833	0		
2008	11	1	0.917	1		
2008	12	1	1.000	1		
2009	1	1	1.000	1		
2009	2	1	1.000	1		
2009	3	1	1.000	1		
2009	4	1	1.000	1		
2009	5	1	1.000	1		
2009	6	1	1.000	1		
2009	7	1	1.000	1		
2009	8	1	1.000	1		
2009	9	1	1.000	1		
2009	10	1	1.000	1		
2009	11	1	1.000	1		
2009	12	1	1.000	1		

REDACTED (CONFIDENTIAL INFORMATION REMOVED)

RES

Year	Month	Monthly Allocated			Full Year	Half Year
2009	1	3	0.083	0	39	19
2009	2	3	0.167	0	12	12
2009	3	3	0.250	1	463	232
2009	4	3	0.333	1	78	78
2009	5	3	0.417	1	6	2.97
2009	6	3	0.500	1		
2009	7	3	0.583	2		
2009	8	3	0.667	2		
2009	9	3	0.750	2		
2009	10	3	0.833	2		
2009	11	3	0.917	3		
2009	12	3	1.000	3		
2010	1	3	1.000	3		
2010	2	3	1.000	3		
2010	3	3	1.000	3		
2010	4	3	1.000	3		
2010	5	3	1.000	3		
2010	6	3	1.000	3		
2010	7	3	1.000	3		
2010	8	3	1.000	3		
2010	9	3	1.000	3		
2010	10	3	1.000	3		
2010	11	3	1.000	3		
2010	12	3	1.000	3		

COM

Year	Month	Monthly Allocated			Full Year	Half Year
2009	1	1	0.083	0	19	10
2009	2	1	0.167	0	12	12
2009	3	1	0.250	0	229	114
2009	4	1	0.333	0	78	78
2009	5	1	0.417	1	3	1.47
2009	6	1	0.500	1		
2009	7	1	0.583	1		
2009	8	1	0.667	1		
2009	9	1	0.750	1		
2009	10	1	0.833	1		
2009	11	1	0.917	1		
2009	12	1	1.000	1		
2010	1	2	1.000	2		
2010	2	2	1.000	2		
2010	3	2	1.000	2		
2010	4	2	1.000	2		
2010	5	2	1.000	2		
2010	6	2	1.000	2		
2010	7	2	1.000	2		
2010	8	2	1.000	2		
2010	9	2	1.000	2		
2010	10	2	1.000	2		
2010	11	2	1.000	2		
2010	12	2	1.000	2		

REDACTED (CONFIDENTIAL INFORMATION REMOVED)

RES

Year	Month	Monthly Allocated			Full Year	Half Year
2010	1	2	0.083	0	20	10
2010	2	2	0.167	0	12	12
2010	3	2	0.250	0	237	118
2010	4	2	0.333	1	78	78
2010	5	2	0.417	1	3	1.52
2010	6	2	0.500	1		
2010	7	2	0.583	1		
2010	8	2	0.667	1		
2010	9	2	0.750	1		
2010	10	2	0.833	1		
2010	11	2	0.917	1		
2010	12	2	1.000	2		
2011	1	2	1.000	2		
2011	2	2	1.000	2		
2011	3	2	1.000	2		
2011	4	2	1.000	2		
2011	5	2	1.000	2		
2011	6	2	1.000	2		
2011	7	2	1.000	2		
2011	8	2	1.000	2		
2011	9	2	1.000	2		
2011	10	2	1.000	2		
2011	11	2	1.000	2		
2011	12	2	1.000	2		

COM

Year	Month	Monthly Allocated			Full Year	Half Year
2010	1	4	0.083	0	58	29
2010	2	4	0.167	1	12	12
2010	3	4	0.250	1	698	349
2010	4	4	0.333	1	78	78
2010	5	4	0.417	2	9	4.47
2010	6	4	0.500	2		
2010	7	4	0.583	3		
2010	8	4	0.667	3		
2010	9	4	0.750	3		
2010	10	4	0.833	4		
2010	11	4	0.917	4		
2010	12	4	1.000	4		
2011	1	5	1.000	5		
2011	2	5	1.000	5		
2011	3	5	1.000	5		
2011	4	5	1.000	5		
2011	5	5	1.000	5		
2011	6	5	1.000	5		
2011	7	5	1.000	5		
2011	8	5	1.000	5		
2011	9	5	1.000	5		
2011	10	5	1.000	5		
2011	11	5	1.000	5		
2011	12	5	1.000	5		

REDACTED (CONFIDENTIAL INFORMATION REMOVED)

RES

Year	Month	Monthly Allocated			Full Year	Half Year
2011	1	3	0.083	0	40	20
2011	2	3	0.167	1	12	12
2011	3	3	0.250	1	482	241
2011	4	3	0.333	1	78	78
2011	5	3	0.417	1	6	3.09
2011	6	3	0.500	2		
2011	7	3	0.583	2		
2011	8	3	0.667	2		
2011	9	3	0.750	2		
2011	10	3	0.833	3		
2011	11	3	0.917	3		
2011	12	3	1.000	3		
2012	1	3	1.000	3		
2012	2	3	1.000	3		
2012	3	3	1.000	3		
2012	4	3	1.000	3		
2012	5	3	1.000	3		
2012	6	3	1.000	3		
2012	7	3	1.000	3		
2012	8	3	1.000	3		
2012	9	3	1.000	3		
2012	10	3	1.000	3		
2012	11	3	1.000	3		
2012	12	3	1.000	3		

COM

Year	Month	Monthly Allocated			Full Year	Half Year
2011	1	7	0.083	1	90	45
2011	2	7	0.167	1	12	12
2011	3	7	0.250	2	1,084	542
2011	4	7	0.333	2	78	78
2011	5	7	0.417	3	14	6.95
2011	6	7	0.500	3		
2011	7	7	0.583	4		
2011	8	7	0.667	5		
2011	9	7	0.750	5		
2011	10	7	0.833	6		
2011	11	7	0.917	6		
2011	12	7	1.000	7		
2012	1	8	1.000	8		
2012	2	8	1.000	8		
2012	3	8	1.000	8		
2012	4	8	1.000	8		
2012	5	8	1.000	8		
2012	6	8	1.000	8		
2012	7	8	1.000	8		
2012	8	8	1.000	8		
2012	9	8	1.000	8		
2012	10	8	1.000	8		
2012	11	8	1.000	8		
2012	12	8	1.000	8		

REDACTED (CONFIDENTIAL INFORMATION REMOVED)

RES

Year	Month	Monthly Allocated			Full Year	Half Year
2012	1	5	0.083	0	66	33
2012	2	5	0.167	1	12	12
2012	3	5	0.250	1	792	396
2012	4	5	0.333	2	78	78
2012	5	5	0.417	2	10	5.08
2012	6	5	0.500	3		
2012	7	5	0.583	3		
2012	8	5	0.667	3		
2012	9	5	0.750	4		
2012	10	5	0.833	4		
2012	11	5	0.917	5		
2012	12	5	1.000	5		
2013	1	5	1.000	5		
2013	2	5	1.000	5		
2013	3	5	1.000	5		
2013	4	5	1.000	5		
2013	5	5	1.000	5		
2013	6	5	1.000	5		
2013	7	5	1.000	5		
2013	8	5	1.000	5		
2013	9	5	1.000	5		
2013	10	5	1.000	5		
2013	11	5	1.000	5		
2013	12	5	1.000	5		

COM

Year	Month	Monthly Allocated			Full Year	Half Year
2012	1	6	0.083	1	80	40
2012	2	6	0.167	1	12	12
2012	3	6	0.250	2	960	480
2012	4	6	0.333	2	78	78
2012	5	6	0.417	3	12	6.15
2012	6	6	0.500	3		
2012	7	6	0.583	4		
2012	8	6	0.667	4		
2012	9	6	0.750	5		
2012	10	6	0.833	5		
2012	11	6	0.917	6		
2012	12	6	1.000	6		
2013	1	7	1.000	7		
2013	2	7	1.000	7		
2013	3	7	1.000	7		
2013	4	7	1.000	7		
2013	5	7	1.000	7		
2013	6	7	1.000	7		
2013	7	7	1.000	7		
2013	8	7	1.000	7		
2013	9	7	1.000	7		
2013	10	7	1.000	7		
2013	11	7	1.000	7		
2013	12	7	1.000	7		

REDACTED (CONFIDENTIAL INFORMATION REMOVED)

RES

Year	Month	Monthly Allocated			Full Year	Half Year
2013	1	6	0.083	0	72	36
2013	2	6	0.167	1	12	12
2013	3	6	0.250	1	864	432
2013	4	6	0.333	2	78	78
2013	5	6	0.417	2	11	5.54
2013	6	6	0.500	3		
2013	7	6	0.583	3		
2013	8	6	0.667	4		
2013	9	6	0.750	4		
2013	10	6	0.833	5		
2013	11	6	0.917	5		
2013	12	6	1.000	6		
2014	1	6	1.000	6		
2014	2	6	1.000	6		
2014	3	6	1.000	6		
2014	4	6	1.000	6		
2014	5	6	1.000	6		
2014	6	6	1.000	6		
2014	7	6	1.000	6		
2014	8	6	1.000	6		
2014	9	6	1.000	6		
2014	10	6	1.000	6		
2014	11	6	1.000	6		
2014	12	6	1.000	6		

COM

Year	Month	Monthly Allocated			Full Year	Half Year
2013	1	6	0.083	0	78	39
2013	2	6	0.167	1	12	12
2013	3	6	0.250	1	933	466
2013	4	6	0.333	2	78	78
2013	5	6	0.417	2	12	5.98
2013	6	6	0.500	3		
2013	7	6	0.583	3		
2013	8	6	0.667	4		
2013	9	6	0.750	4		
2013	10	6	0.833	5		
2013	11	6	0.917	5		
2013	12	6	1.000	6		
2014	1	6	1.000	6		
2014	2	6	1.000	6		
2014	3	6	1.000	6		
2014	4	6	1.000	6		
2014	5	6	1.000	6		
2014	6	6	1.000	6		
2014	7	6	1.000	6		
2014	8	6	1.000	6		
2014	9	6	1.000	6		
2014	10	6	1.000	6		
2014	11	6	1.000	6		
2014	12	6	1.000	6		

REDACTED (CONFIDENTIAL INFORMATION REMOVED)

RES

Year	Month	Monthly Allocated			Full Year	Half Year
2014	1	6	0.083	0	72	36
2014	2	6	0.167	1	12	12
2014	3	6	0.250	1	870	435
2014	4	6	0.333	2	78	78
2014	5	6	0.417	2	11.15	5.58
2014	6	6	0.500	3		
2014	7	6	0.583	3		
2014	8	6	0.667	4		
2014	9	6	0.750	4		
2014	10	6	0.833	5		
2014	11	6	0.917	5		
2014	12	6	1.000	6		
2015	1	6	1.000	6		
2015	2	6	1.000	6		
2015	3	6	1.000	6		
2015	4	6	1.000	6		
2015	5	6	1.000	6		
2015	6	6	1.000	6		
2015	7	6	1.000	6		
2015	8	6	1.000	6		
2015	9	6	1.000	6		
2015	10	6	1.000	6		
2015	11	6	1.000	6		
2015	12	6	1.000	6		

COM

Year	Month	Monthly Allocated			Full Year	Half Year
2014	1	5	0.083	0	67	33
2014	2	5	0.167	1	12	12
2014	3	5	0.250	1	800	400
2014	4	5	0.333	2	78	78
2014	5	5	0.417	2	10.26	5.13
2014	6	5	0.500	3		
2014	7	5	0.583	3		
2014	8	5	0.667	3		
2014	9	5	0.750	4		
2014	10	5	0.833	4		
2014	11	5	0.917	5		
2014	12	5	1.000	5		
2015	1	6	1.000	6		
2015	2	6	1.000	6		
2015	3	6	1.000	6		
2015	4	6	1.000	6		
2015	5	6	1.000	6		
2015	6	6	1.000	6		
2015	7	6	1.000	6		
2015	8	6	1.000	6		
2015	9	6	1.000	6		
2015	10	6	1.000	6		
2015	11	6	1.000	6		
2015	12	6	1.000	6		

REDACTED (CONFIDENTIAL INFORMATION REMOVED)

RES

Year	Month	Monthly Allocated			Full Year	Half Year
2015	1	4	0.083	0	55	27
2015	2	4	0.167	1	12	12
2015	3	4	0.250	1	657	328
2015	4	4	0.333	1	78	78
2015	5	4	0.417	2	8	4.21
2015	6	4	0.500	2		
2015	7	4	0.583	2		
2015	8	4	0.667	3		
2015	9	4	0.750	3		
2015	10	4	0.833	4		
2015	11	4	0.917	4		
2015	12	4	1.000	4		
2016	1	5	1.000	5		
2016	2	5	1.000	5		
2016	3	5	1.000	5		
2016	4	5	1.000	5		
2016	5	5	1.000	5		
2016	6	5	1.000	5		
2016	7	5	1.000	5		
2016	8	5	1.000	5		
2016	9	5	1.000	5		
2016	10	5	1.000	5		
2016	11	5	1.000	5		
2016	12	5	1.000	5		

COM

Year	Month	Monthly Allocated			Full Year	Half Year
2015	1	4	0.083	0	57	28
2015	2	4	0.167	1	12	12
2015	3	4	0.250	1	678	339
2015	4	4	0.333	1	78	78
2015	5	4	0.417	2	9	4.35
2015	6	4	0.500	2		
2015	7	4	0.583	3		
2015	8	4	0.667	3		
2015	9	4	0.750	3		
2015	10	4	0.833	4		
2015	11	4	0.917	4		
2015	12	4	1.000	4		
2016	1	5	1.000	5		
2016	2	5	1.000	5		
2016	3	5	1.000	5		
2016	4	5	1.000	5		
2016	5	5	1.000	5		
2016	6	5	1.000	5		
2016	7	5	1.000	5		
2016	8	5	1.000	5		
2016	9	5	1.000	5		
2016	10	5	1.000	5		
2016	11	5	1.000	5		
2016	12	5	1.000	5		

REDACTED (CONFIDENTIAL INFORMATION REMOVED)

Year	Month	ResMonthly	ResCumlative	ComIndMonthly	ComIndCumlative
2001	1	-	-	-	-
2001	2	-	-	-	-
2001	3	-	-	-	-
2001	4	-	-	-	-
2001	5	-	-	-	-
2001	6	-	-	-	-
2001	7	-	-	-	-
2001	8	-	-	-	-
2001	9	-	-	-	-
2001	10	-	-	-	-
2001	11	-	-	-	-
2001	12	-	-	-	-
2002	1	-	-	-	-
2002	2	-	-	-	-
2002	3	-	-	-	-
2002	4	-	-	-	-
2002	5	-	-	-	-
2002	6	-	-	-	-
2002	7	-	-	-	-
2002	8	-	-	-	-
2002	9	-	-	-	-
2002	10	-	-	-	-
2002	11	-	-	-	-
2002	12	-	-	-	-
2003	1	-	-	-	-
2003	2	-	-	-	-
2003	3	-	-	-	-
2003	4	-	-	-	-
2003	5	-	-	-	-
2003	6	-	-	-	-
2003	7	-	-	-	-
2003	8	-	-	-	-
2003	9	-	-	-	-
2003	10	-	-	-	-
2003	11	-	-	-	-
2003	12	-	-	-	-
2004	1	-	-	-	-
2004	2	-	-	-	-
2004	3	-	-	-	-
2004	4	-	-	-	-
2004	5	-	-	-	-
2004	6	-	-	-	-
2004	7	-	-	-	-
2004	8	-	-	-	-
2004	9	-	-	-	-
2004	10	-	-	-	-

REDACTED (CONFIDENTIAL INFORMATION REMOVED)

Year	Month	ResMonthly	ResCumlative	ComIndMonthly	ComIndCumlative
2004	11	-	-	-	-
2004	12	-	-	-	-
2005	1	-	-	-	-
2005	2	-	-	-	-
2005	3	-	-	-	-
2005	4	-	-	-	-
2005	5	-	-	-	-
2005	6	-	-	-	-
2005	7	-	-	-	-
2005	8	-	-	-	-
2005	9	-	-	-	-
2005	10	-	-	-	-
2005	11	-	-	-	-
2005	12	-	-	-	-
2006	1	-	-	-	-
2006	2	-	-	-	-
2006	3	-	-	-	-
2006	4	-	-	-	-
2006	5	-	-	-	-
2006	6	-	-	-	-
2006	7	-	-	-	-
2006	8	-	-	-	-
2006	9	-	-	-	-
2006	10	-	-	-	-
2006	11	-	-	-	-
2006	12	-	-	-	-
2007	1	-	-	-	-
2007	2	-	-	-	-
2007	3	-	-	-	-
2007	4	-	-	-	-
2007	5	-	-	-	-
2007	6	-	-	-	-
2007	7	-	-	-	-
2007	8	-	-	-	-
2007	9	-	-	-	-
2007	10	-	-	-	-
2007	11	-	-	-	-
2007	12	-	-	-	-
2008	1	0	0	0	0
2008	2	0	0	0	0
2008	3	0	0	0	0
2008	4	0	0	0	0
2008	5	0	0	0	0
2008	6	0	0	0	0
2008	7	1	1	0	0
2008	8	1	1	0	0

REDACTED (CONFIDENTIAL INFORMATION REMOVED)

Year	Month	ResMonthly	ResCumlative	ComIndMonthly	ComIndCumlative
2008	9	1	1	0	0
2008	10	1	1	0	0
2008	11	1	1	1	1
2008	12	1	1	1	1
2009	1	1	1	1	1
2009	2	1	1	1	1
2009	3	1	2	1	1
2009	4	2	2	1	1
2009	5	2	2	1	1
2009	6	2	2	1	1
2009	7	2	3	1	1
2009	8	2	3	1	2
2009	9	3	3	1	2
2009	10	3	3	1	2
2009	11	3	4	1	2
2009	12	3	4	2	2
2010	1	3	4	2	3
2010	2	3	4	2	3
2010	3	3	5	2	3
2010	4	3	5	3	4
2010	5	3	5	3	4
2010	6	2	5	3	4
2010	7	2	5	3	5
2010	8	2	5	4	5
2010	9	2	5	4	6
2010	10	2	5	4	6
2010	11	2	6	4	6
2010	12	2	6	5	7
2011	1	2	6	5	8
2011	2	2	6	5	8
2011	3	2	6	5	9
2011	4	2	7	6	9
2011	5	2	7	6	10
2011	6	2	7	6	10
2011	7	3	7	6	11
2011	8	3	7	6	11
2011	9	3	7	7	12
2011	10	3	8	7	12
2011	11	3	8	7	13
2011	12	3	8	7	13
2012	1	4	10	7	15
2012	2	4	10	7	16
2012	3	4	10	7	16
2012	4	4	11	7	17
2012	5	4	11	7	17
2012	6	4	12	7	18

REDACTED (CONFIDENTIAL INFORMATION REMOVED)

Year	Month	ResMonthly	ResCumlative	ComIndMonthly	ComIndCumlative
2012	7	5	12	7	18
2012	8	5	13	7	19
2012	9	5	13	7	19
2012	10	5	13	7	20
2012	11	5	14	7	20
2012	12	5	14	7	21
2013	1	6	15	7	22
2013	2	6	16	7	22
2013	3	6	16	7	23
2013	4	6	17	7	23
2013	5	6	17	7	24
2013	6	6	17	7	24
2013	7	6	18	7	25
2013	8	6	18	7	25
2013	9	6	19	7	26
2013	10	6	19	7	26
2013	11	6	20	7	27
2013	12	6	20	6	27
2014	1	6	21	6	28
2014	2	6	22	6	29
2014	3	6	22	6	29
2014	4	6	23	6	29
2014	5	6	23	6	30
2014	6	6	23	6	30
2014	7	6	24	6	31
2014	8	6	24	6	31
2014	9	6	25	6	32
2014	10	6	25	6	32
2014	11	6	26	6	32
2014	12	6	26	6	33
2015	1	6	27	5	34
2015	2	6	27	5	34
2015	3	6	28	5	34
2015	4	6	28	5	35
2015	5	5	28	5	35
2015	6	5	29	5	35
2015	7	5	29	5	36
2015	8	5	30	5	36
2015	9	5	30	5	37
2015	10	5	30	5	37
2015	11	5	31	5	37
2015	12	5	31	5	38
2016	1	5	31	5	38
2016	2	5	31	5	38
2016	3	5	31	5	38
2016	4	5	31	5	38

REDACTED (CONFIDENTIAL INFORMATION REMOVED)

Year	Month	ResMonthly	ResCumlative	ComIndMonthly	ComIndCumlative
2016	5	5	31	5	38
2016	6	5	31	5	38
2016	7	5	31	5	38
2016	8	5	31	5	38
2016	9	5	31	5	38
2016	10	5	31	5	38
2016	11	5	31	5	38
2016	12	5	31	5	38
2017	1	5	31	5	38
2017	2	5	31	5	38
2017	3	5	31	5	38
2017	4	5	31	5	38
2017	5	5	31	5	38
2017	6	5	31	5	38
2017	7	5	31	5	38
2017	8	5	31	5	38
2017	9	5	31	5	38
2017	10	5	31	5	38
2017	11	5	31	5	38
2017	12	5	31	5	38
2018	1	5	31	5	38
2018	2	5	31	5	38
2018	3	5	31	5	38
2018	4	5	31	5	38
2018	5	5	31	5	38
2018	6	5	31	5	38
2018	7	5	31	5	38
2018	8	5	31	5	38
2018	9	5	31	5	38
2018	10	5	31	5	38
2018	11	5	31	5	38
2018	12	5	31	5	38
2019	1	5	31	5	38
2019	2	5	31	5	38
2019	3	5	31	5	38
2019	4	5	31	5	38
2019	5	5	31	5	38
2019	6	5	31	5	38
2019	7	5	31	5	38
2019	8	5	31	5	38
2019	9	5	31	5	38
2019	10	5	31	5	38
2019	11	5	31	5	38
2019	12	5	31	5	38
2020	1	5	31	5	38
2020	2	5	31	5	38

REDACTED (CONFIDENTIAL INFORMATION REMOVED)

Year	Month	ResMonthly	ResCumlative	ComIndMonthly	ComIndCumlative
2020	3	5	31	5	38
2020	4	5	31	5	38
2020	5	5	31	5	38
2020	6	5	31	5	38
2020	7	5	31	5	38
2020	8	5	31	5	38
2020	9	5	31	5	38
2020	10	5	31	5	38
2020	11	5	31	5	38
2020	12	5	31	5	38
2021	1	5	31	5	38
2021	2	5	31	5	38
2021	3	5	31	5	38
2021	4	5	31	5	38
2021	5	5	31	5	38
2021	6	5	31	5	38
2021	7	5	31	5	38
2021	8	5	31	5	38
2021	9	5	31	5	38
2021	10	5	31	5	38
2021	11	5	31	5	38
2021	12	5	31	5	38
2022	1	5	31	5	38
2022	2	5	31	5	38
2022	3	5	31	5	38
2022	4	5	31	5	38
2022	5	5	31	5	38
2022	6	5	31	5	38
2022	7	5	31	5	38
2022	8	5	31	5	38
2022	9	5	31	5	38
2022	10	5	31	5	38
2022	11	5	31	5	38
2022	12	5	31	5	38
2023	1	5	31	5	38
2023	2	5	31	5	38
2023	3	5	31	5	38
2023	4	5	31	5	38
2023	5	5	31	5	38
2023	6	5	31	5	38
2023	7	5	31	5	38
2023	8	5	31	5	38
2023	9	5	31	5	38
2023	10	5	31	5	38
2023	11	5	31	5	38
2023	12	5	31	5	38

REDACTED (CONFIDENTIAL INFORMATION REMOVED)

Year	Month	ResMonthly	ResCumlative	ComIndMonthly	ComIndCumlative
2024	1	5	31	5	38
2024	2	5	31	5	38
2024	3	5	31	5	38
2024	4	5	31	5	38
2024	5	5	31	5	38
2024	6	5	31	5	38
2024	7	5	31	5	38
2024	8	5	31	5	38
2024	9	5	31	5	38
2024	10	5	31	5	38
2024	11	5	31	5	38
2024	12	5	31	5	38
2025	1	5	31	5	38
2025	2	5	31	5	38
2025	3	5	31	5	38
2025	4	5	31	5	38
2025	5	5	31	5	38
2025	6	5	31	5	38
2025	7	5	31	5	38
2025	8	5	31	5	38
2025	9	5	31	5	38
2025	10	5	31	5	38
2025	11	5	31	5	38
2025	12	5	31	5	38
2026	1	5	31	5	38
2026	2	5	31	5	38
2026	3	5	31	5	38
2026	4	5	31	5	38
2026	5	5	31	5	38
2026	6	5	31	5	38
2026	7	5	31	5	38
2026	8	5	31	5	38
2026	9	5	31	5	38
2026	10	5	31	5	38
2026	11	5	31	5	38
2026	12	5	31	5	38
2027	1	5	31	5	38
2027	2	5	31	5	38
2027	3	5	31	5	38
2027	4	5	31	5	38
2027	5	5	31	5	38
2027	6	5	31	5	38
2027	7	5	31	5	38
2027	8	5	31	5	38
2027	9	5	31	5	38
2027	10	5	31	5	38

REDACTED (CONFIDENTIAL INFORMATION REMOVED)

Year	Month	ResMonthly	ResCumlative	ComIndMonthly	ComIndCumlative
2027	11	5	31	5	38
2027	12	5	31	5	38
2028	1	5	31	5	38
2028	2	5	31	5	38
2028	3	5	31	5	38
2028	4	5	31	5	38
2028	5	5	31	5	38
2028	6	5	31	5	38
2028	7	5	31	5	38
2028	8	5	31	5	38
2028	9	5	31	5	38
2028	10	5	31	5	38
2028	11	5	31	5	38
2028	12	5	31	5	38
2029	1	5	31	5	38
2029	2	5	31	5	38
2029	3	5	31	5	38
2029	4	5	31	5	38
2029	5	5	31	5	38
2029	6	5	31	5	38
2029	7	5	31	5	38
2029	8	5	31	5	38
2029	9	5	31	5	38
2029	10	5	31	5	38
2029	11	5	31	5	38
2029	12	5	31	5	38
2030	1	5	31	5	38
2030	2	5	31	5	38
2030	3	5	31	5	38
2030	4	5	31	5	38
2030	5	5	31	5	38
2030	6	5	31	5	38
2030	7	5	31	5	38
2030	8	5	31	5	38
2030	9	5	31	5	38
2030	10	5	31	5	38
2030	11	5	31	5	38
2030	12	5	31	5	38
2031	1	5	31	5	38
2031	2	5	31	5	38
2031	3	5	31	5	38
2031	4	5	31	5	38
2031	5	5	31	5	38
2031	6	5	31	5	38
2031	7	5	31	5	38
2031	8	5	31	5	38

REDACTED (CONFIDENTIAL INFORMATION REMOVED)

Year	Month	ResMonthly	ResCumlative	ComIndMonthly	ComIndCumlative
2031	9	5	31	5	38
2031	10	5	31	5	38
2031	11	5	31	5	38
2031	12	5	31	5	38
2032	1	5	31	5	38
2032	2	5	31	5	38
2032	3	5	31	5	38
2032	4	5	31	5	38
2032	5	5	31	5	38
2032	6	5	31	5	38
2032	7	5	31	5	38
2032	8	5	31	5	38
2032	9	5	31	5	38
2032	10	5	31	5	38
2032	11	5	31	5	38
2032	12	5	31	5	38
2033	1	5	31	5	38
2033	2	5	31	5	38
2033	3	5	31	5	38
2033	4	5	31	5	38
2033	5	5	31	5	38
2033	6	5	31	5	38
2033	7	5	31	5	38
2033	8	5	31	5	38
2033	9	5	31	5	38
2033	10	5	31	5	38
2033	11	5	31	5	38
2033	12	5	31	5	38
2034	1	5	31	5	38
2034	2	5	31	5	38
2034	3	5	31	5	38
2034	4	5	31	5	38
2034	5	5	31	5	38
2034	6	5	31	5	38
2034	7	5	31	5	38
2034	8	5	31	5	38
2034	9	5	31	5	38
2034	10	5	31	5	38
2034	11	5	31	5	38
2034	12	5	31	5	38
2035	1	5	31	5	38
2035	2	5	31	5	38
2035	3	5	31	5	38
2035	4	5	31	5	38
2035	5	5	31	5	38
2035	6	5	31	5	38

REDACTED (CONFIDENTIAL INFORMATION REMOVED)

Year	Month	ResMonthly	ResCumlative	ComIndMonthly	ComIndCumlative
2035	7	5	31	5	38
2035	8	5	31	5	38
2035	9	5	31	5	38
2035	10	5	31	5	38
2035	11	5	31	5	38
2035	12	5	31	5	38

Request IR-14:

How would such associated changes, if any, be reflected in the forecast used in the application? How would this affect the cost numbers in the application? Please be specific and provide the supporting calculations.

Response IR-14:

The impact of embedded DSM was taken into consideration for this Application and is reflected in the load forecast.

There is no impact to any cost numbers in the Application as the forecast already reflects the impacts of embedded DSM.