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August 4, 2016

BY HAND DELIVERY

Luly E. Massaro, Commission Clerk
Rhode Island Public Utilities Commission
89 Jefferson Boulevard
Warwick, RI 02888

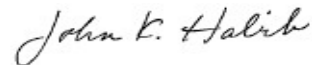
Re: Docket 4627 – In Re: Request for Approval of Firm Transportation Contracts
with Algonquin Gas Transmission, LLC for the Access Northeast Project
Responses to NEER Data Requests – Set 1

Dear Ms. Massaro:

On behalf of National Grid,¹ enclosed are National Grid's responses to the First Set of Data Requests issued by NextEra Energy Resources, LLC in the above-referenced matter. Please note that the response to Data Request NEER 1-1 contains Highly Sensitive Confidential Information that was previously filed in response to Data Request PUC 1-1 together with a Motion for Protective Treatment. We therefore request that this response be protected pursuant to the Motion for Protective Treatment filed on July 22, 2016.

Thank you for your attention to matter. If you have any questions, please contact me at (617) 951-1400, or Jennifer Brooks Hutchinson at 401-784-7685.

Very truly yours,



John K. Habib

¹ The Narragansett Electric Company d/b/a National Grid.

NEER 1-1

Request:

Refer to Schedule GJW-3. Please provide all analyses, inputs and workpapers (i.e., analyses of underlying data that are used to create a figure or table) that support Table 5 and associated analysis presented or relied upon in the development of the "7.0 Natural Gas and Electric Price Impacts – LNG Import Scenarios" in native file format as a fully functional Excel file, including but not limited to:

- a) The complete set of GPCM and Promod model input files and output files in native format that produce all the results presented in Schedule GJW-3 at Table 5.
- b) The underlying natural gas price series associated with the results shown in this table and for all other regions of the country that are available from the GPCM analysis.
- c) Please provide LNG price forecasts used in the gas market modeling analysis and all workpapers, calculations, and sources used to develop LNG price forecasts, including the prices of LNG used to model the results found in Table 5.
- d) Please provide the sendout levels by the smallest time step used by the modeling for the complete modeling time horizon as a fully functional Excel file. For example, if sendout levels are monthly, please provide the data on a monthly basis. In addition, please explain how the sendout is used in the gas market modeling.
- e) Please provide a breakdown of the Annual Benefits and Costs for each case modeled, providing separately costs and benefits on a monthly and monthly on- and off-peak basis for the entire modeling time horizon. Please provide any data included in your response as a fully functional Excel file.

Response:

(a-e). Please see the response of the Company's Massachusetts affiliates to Information Request NEER-6-6 filed in D.P.U. 16-05 and provided in this docket in response to Data Request PUC 1-1 for the requested information. A copy of the response to Information Request NEER 6-6 is also provided together with this response.

Information Request NEER-6-6

Request:

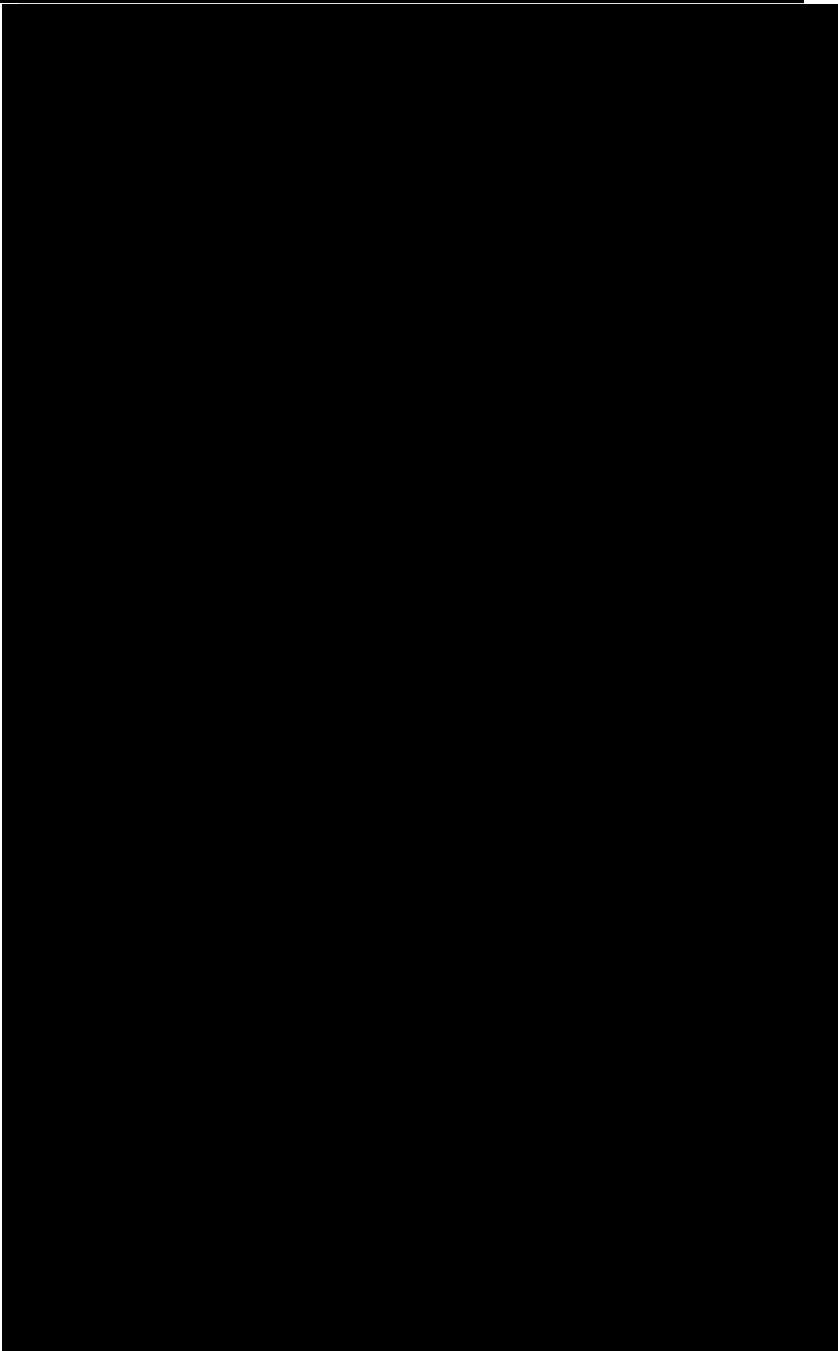
Refer to Rhode Island Public Utilities Commission Docket No. 4627, *The Narragansett Electric Company d/b/a National Grid, Request for Approval of a Gas Capacity Contract and Cost Recovery*, Schedule GJW-3, "Evaluation of Long-term Economic Benefits from Proposed Incremental Energy Infrastructure into New England" ("Schedule GJW-3"). Please provide all analyses, inputs and workpapers (i.e., analyses of underlying data that are used to create a figure or table) that support Table 5 and associated analysis presented or relied upon in the development of the "7.0 Natural Gas and Electric Price Impacts — LNG Import Scenarios" in native file format as a fully functional Excel file, including but not limited to:

- (a) The complete set of GPCM and Promod model input files and output files in native format that produce all the results presented in Schedule GJW-3 at Table 5.
- (b) The underlying natural gas price series associated with the results shown in this table and for all other regions of the country that are available from the GPCM analysis.
- (c) Please provide LNG price forecasts used in the gas market modeling analysis and all workpapers, calculations, and sources used to develop LNG price forecasts, including the prices of LNG used to model the results found in Table 5.
- (d) Please provide the sendout levels by the smallest time step used by the modeling for the complete modeling time horizon as a fully functional Excel file. For example, if sendout levels are monthly, please provide the data on a monthly basis. In addition, please explain how the sendout is used in the gas market modeling.
- (e) Please provide a breakdown of the Annual Benefits and Costs for each case modeled, providing separately costs and benefits on a monthly and monthly on- and off-peak basis for the entire modeling time horizon. Please provide any data included in your response as a fully functional Excel file.

Response:

- (a) Please see Attachment NEER-6-6(a) for the data found in Table 5. All relevant input and output files are provided in NEER-2-55(a)-(e) (Highly Sensitive Confidential Information).

- (b) Please see Attachment NEER-2-55(d) (Highly Sensitive Confidential Information) for the relevant regional gas prices used in the analysis.
- (c) Black & Veatch assumed that incremental LNG volumes in the With GDF Suez and With Repsol scenarios to be inframarginal, similar to the LNG prices in the Reference Case. Black & Veatch assumed that these LNG volumes are part of a long-term supply agreement, where these committed LNG supplies would be delivered and sold at the market price, irrespective of global LNG market prices.
- (d) Please see Attachment NEER-6-6(b) (Highly Sensitive Confidential Information) for the LNG sendout for the With GDF Suez and With Repsol scenarios.
- (e) Please see Attachment AG-1-46(a) (Highly Sensitive Confidential Information) for the annual benefits and costs for the With GDF Suez and With Repsol scenarios.

Column	A	B	C
Line #	Date	With GDF Suez -Everett LNG Terminal Sendout (MMcf/d)	With Repsol - Canaport LNG Terminal Sendout (MMcf/d)
1	Jan-18		
2	Feb-18		
3	Mar-18		
4	Apr-18		
5	May-18		
6	Jun-18		
7	Jul-18		
8	Aug-18		
9	Sep-18		
10	Oct-18		
11	Nov-18		
12	Dec-18		
13	Jan-19		
14	Feb-19		
15	Mar-19		
16	Apr-19		
17	May-19		
18	Jun-19		
19	Jul-19		
20	Aug-19		
21	Sep-19		
22	Oct-19		
23	Nov-19		
24	Dec-19		
25	Jan-20		
26	Feb-20		
27	Mar-20		
28	Apr-20		
29	May-20		
30	Jun-20		
31	Jul-20		
32	Aug-20		
33	Sep-20		
34	Oct-20		
35	Nov-20		
36	Dec-20		

Column	A	B	C
Line #	Date	With GDF Suez -Everett LNG Terminal Sendout (MMcf/d)	With Repsol - Canaport LNG Terminal Sendout (MMcf/d)
37	Jan-21		
38	Feb-21		
39	Mar-21		
40	Apr-21		
41	May-21		
42	Jun-21		
43	Jul-21		
44	Aug-21		
45	Sep-21		
46	Oct-21		
47	Nov-21		
48	Dec-21		
49	Jan-22		
50	Feb-22		
51	Mar-22		
52	Apr-22		
53	May-22		
54	Jun-22		
55	Jul-22		
56	Aug-22		
57	Sep-22		
58	Oct-22		
59	Nov-22		
60	Dec-22		
61	Jan-23		
62	Feb-23		
63	Mar-23		
64	Apr-23		
65	May-23		
66	Jun-23		
67	Jul-23		
68	Aug-23		
69	Sep-23		
70	Oct-23		
71	Nov-23		
72	Dec-23		

Column	A	B	C
Line #	Date	With GDF Suez -Everett LNG Terminal Sendout (MMcf/d)	With Repsol - Canaport LNG Terminal Sendout (MMcf/d)
73	Jan-24		
74	Feb-24		
75	Mar-24		
76	Apr-24		
77	May-24		
78	Jun-24		
79	Jul-24		
80	Aug-24		
81	Sep-24		
82	Oct-24		
83	Nov-24		
84	Dec-24		
85	Jan-25		
86	Feb-25		
87	Mar-25		
88	Apr-25		
89	May-25		
90	Jun-25		
91	Jul-25		
92	Aug-25		
93	Sep-25		
94	Oct-25		
95	Nov-25		
96	Dec-25		
97	Jan-26		
98	Feb-26		
99	Mar-26		
100	Apr-26		
101	May-26		
102	Jun-26		
103	Jul-26		
104	Aug-26		
105	Sep-26		
106	Oct-26		
107	Nov-26		
108	Dec-26		

Column	A	B	C
Line #	Date	With GDF Suez -Everett LNG Terminal Sendout (MMcf/d)	With Repsol - Canaport LNG Terminal Sendout (MMcf/d)
109	Jan-27		
110	Feb-27		
111	Mar-27		
112	Apr-27		
113	May-27		
114	Jun-27		
115	Jul-27		
116	Aug-27		
117	Sep-27		
118	Oct-27		
119	Nov-27		
120	Dec-27		
121	Jan-28		
122	Feb-28		
123	Mar-28		
124	Apr-28		
125	May-28		
126	Jun-28		
127	Jul-28		
128	Aug-28		
129	Sep-28		
130	Oct-28		
131	Nov-28		
132	Dec-28		
133	Jan-29		
134	Feb-29		
135	Mar-29		
136	Apr-29		
137	May-29		
138	Jun-29		
139	Jul-29		
140	Aug-29		
141	Sep-29		
142	Oct-29		
143	Nov-29		
144	Dec-29		

Column	A	B	C
Line #	Date	With GDF Suez -Everett LNG Terminal Sendout (MMcf/d)	With Repsol - Canaport LNG Terminal Sendout (MMcf/d)
145	Jan-30		
146	Feb-30		
147	Mar-30		
148	Apr-30		
149	May-30		
150	Jun-30		
151	Jul-30		
152	Aug-30		
153	Sep-30		
154	Oct-30		
155	Nov-30		
156	Dec-30		
157	Jan-31		
158	Feb-31		
159	Mar-31		
160	Apr-31		
161	May-31		
162	Jun-31		
163	Jul-31		
164	Aug-31		
165	Sep-31		
166	Oct-31		
167	Nov-31		
168	Dec-31		
169	Jan-32		
170	Feb-32		
171	Mar-32		
172	Apr-32		
173	May-32		
174	Jun-32		
175	Jul-32		
176	Aug-32		
177	Sep-32		
178	Oct-32		
179	Nov-32		
180	Dec-32		

Column	A	B	C
Line #	Date	With GDF Suez -Everett LNG Terminal Sendout (MMcf/d)	With Repsol - Canaport LNG Terminal Sendout (MMcf/d)
181	Jan-33		
182	Feb-33		
183	Mar-33		
184	Apr-33		
185	May-33		
186	Jun-33		
187	Jul-33		
188	Aug-33		
189	Sep-33		
190	Oct-33		
191	Nov-33		
192	Dec-33		
193	Jan-34		
194	Feb-34		
195	Mar-34		
196	Apr-34		
197	May-34		
198	Jun-34		
199	Jul-34		
200	Aug-34		
201	Sep-34		
202	Oct-34		
203	Nov-34		
204	Dec-34		
205	Jan-35		
206	Feb-35		
207	Mar-35		
208	Apr-35		
209	May-35		
210	Jun-35		
211	Jul-35		
212	Aug-35		
213	Sep-35		
214	Oct-35		
215	Nov-35		
216	Dec-35		

Column	A	B	C
Line #	Date	With GDF Suez -Everett LNG Terminal Sendout (MMcf/d)	With Repsol - Canaport LNG Terminal Sendout (MMcf/d)
217	Jan-36		
218	Feb-36		
219	Mar-36		
220	Apr-36		
221	May-36		
222	Jun-36		
223	Jul-36		
224	Aug-36		
225	Sep-36		
226	Oct-36		
227	Nov-36		
228	Dec-36		
229	Jan-37		
230	Feb-37		
231	Mar-37		
232	Apr-37		
233	May-37		
234	Jun-37		
235	Jul-37		
236	Aug-37		
237	Sep-37		
238	Oct-37		
239	Nov-37		
240	Dec-37		
241	Jan-38		
242	Feb-38		
243	Mar-38		
244	Apr-38		
245	May-38		
246	Jun-38		
247	Jul-38		
248	Aug-38		
249	Sep-38		
250	Oct-38		
251	Nov-38		
252	Dec-38		

NEER 1-2

Request:

Refer to Schedule GJW-3. At page 14 Exh. Schedule GJW-3 states: "Over the analysis period, our analysis assumed an average annual sendout at the terminal to be approximately 150 MMcf/d with peak winter sendout of approximately 250 MMCF/d, similar to the observed volumes during the 2014-2015 winter season."

- a) Please provide the sendout levels by the smallest time step used by the modeling for the complete modeling time horizon as a fully functional Excel file. For example, if sendout levels are monthly, please provide the data on a monthly basis. In addition, please explain how the sendout is used in the gas market modeling.
- b) If the gas market model solves for natural gas delivery or supply capability, was the model adjusted or altered to constrain Everett at the stated sendout levels? If so, describe in full how the model was adjusted or altered to constrain Everett at the stated sendout levels, and state the basis for that adjustment or alteration
- c) Please provide LNG price forecasts used in the gas market modeling analysis and all workpapers, calculations, and sources used to develop LNG price forecasts

Response:

(a)-(c) Please see the response of the Company's Massachusetts affiliates to Information Request NEER 1-11 filed in D.P.U. 16-05 and provided in this docket in response to Data Request PUC 1-1 for the requested information. A copy of the response to Information Request NEER 1-11 is also provided together with this response.

Information Request NEER-1-11

Request:

Refer to NG-JNC-3 at 13. The B&V Report states at page 13: "Over the analysis period, our analysis assumed an average annual sendout at the terminal to be approximately 150 MMcf/d with peak winter sendout of approximately 250 MMCF/d, similar to the observed volumes during the 2014-2015 winter season."

(a) Please provide the sendout levels by the smallest time step used by the modeling for the complete modeling time horizon as a fully functional Excel file. For example, if sendout levels are monthly, please provide the data on a monthly basis. In addition, please explain how the sendout is used in the gas market modeling.

(b) If the gas market model solves for natural gas delivery or supply capability, was the model adjusted or altered to constrain Everett at the stated sendout levels? If so, describe in full how the model was adjusted or altered to constrain Everett at the stated sendout levels, and state the basis for that adjustment or alteration.

(c) Please provide LNG price forecasts used in the gas market modeling analysis and all workpapers, calculations, and sources used to develop LNG price forecasts.

Response:

(a) Black & Veatch's projected Everett terminal sendout is provided in Attachment NEER 1-11(a). In the attachment, the regasified LNG sendout volumes are in MMcf/d for a given month. These volumes only include deliveries to Algonquin Gas Transmission, Tennessee Gas Pipeline, Boston Gas d/b/a National Grid and the Constellation Mystic Power generation facility. The Everett LNG terminal sendout volumes are utilized in the GPCM model as part of the available gas supply to meet New England gas demand.

(b) Black & Veatch assumed that projected Everett LNG terminal sendout would be similar to recent historical observed send-out volumes. While the Everett terminal has a maximum daily vaporization quantity well above the assumed sendout volumes, the historical observed volumes are more reflective of the current attractiveness of the New England market as an LNG import destination market.

- (c) Black & Veatch understands that the current LNG cargoes that the Everett LNG facility receives are part of a long-term supply agreement with minimum volume requirements, and arrive regardless of the global LNG or local market prices. Black & Veatch assumed that the regasified Everett LNG send out price would be inframarginal at the projected import volumes.