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April 30, 2019

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

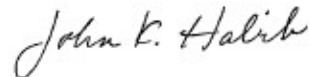
**RE: Review of Proposed Power Purchase Agreements  
Pursuant to R.I. Gen. Laws § 39-31  
Docket No. 4929**

Dear Ms. Massaro:

Enclosed for filing with the Rhode Island Public Utilities Commission (PUC) is National Grid's<sup>1</sup> Attachment C to Supplemental response PUC-3-7 that was inadvertently omitted from the submission on Friday, April 26, 2019.

Please contact me at 617-951-1400 if you have any questions regarding this filing.

Very truly yours,



John K. Habib, Esq.  
R.I. Bar # 7431

cc: Docket No. 4929 Service List

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<sup>1</sup> The Narragansett Electric Company d/b/a National Grid (National Grid or the Company).

**Docket No. 4929 -- National Grid's Review of PPA w/ WWD Rev I, LLC**

**Service List updated 4/23/2019**

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The Narragansett Electric Company  
d/b/a National Grid  
RIPUC Docket No. 4929  
Discovery Log

DATA SET	DATA REQUEST	DATE ISSUED	DATE FILED	WITNESS	TOPIC	Attachment	CONFIDENTIAL ATTACHMENT
<b>COMMISSION SET 1</b>							
COMMISSION SET 1	PUC 1-1	2/25/2019	3/7/2019	Timothy J. Brennan and Corinne M. DiDomenico	Pricing		
COMMISSION SET 1	PUC 1-2	2/25/2019	3/7/2019	Timothy J. Brennan and Corinne M. DiDomenico	Pricing		
COMMISSION SET 1	PUC 1-3	2/25/2019	3/7/2019	Timothy J. Brennan and Corinne M. DiDomenico	Transmission		
COMMISSION SET 1	PUC 1-4	2/25/2019	3/7/2019	Timothy J. Brennan and Corinne M. DiDomenico	Transmission		
COMMISSION SET 1	PUC 1-5	2/25/2019	3/7/2019	Timothy J. Brennan and Corinne M. DiDomenico	Transmission		
COMMISSION SET 1	PUC 1-6	2/25/2019	3/7/2019	Timothy J. Brennan and Corinne M. DiDomenico	Transmission		
COMMISSION SET 1	PUC 1-7	2/25/2019	3/7/2019	Timothy J. Brennan and Corinne M. DiDomenico	Transmission		
COMMISSION SET 1	PUC 1-8	2/25/2019	3/7/2019	Timothy J. Brennan and Corinne M. DiDomenico	Pricing		
COMMISSION SET 1	PUC 1-9	2/25/2019	3/7/2019	Timothy J. Brennan and Corinne M. DiDomenico	Transmission		
COMMISSION SET 1	PUC 1-10	2/25/2019	3/7/2019	Timothy J. Brennan and Corinne M. DiDomenico	Cost Recovery		
COMMISSION SET 1	PUC 1-11	2/25/2019	3/7/2019	Timothy J. Brennan and Corinne M. DiDomenico	Transmission		
COMMISSION SET 1	PUC 1-12	2/25/2019	3/7/2019	Timothy J. Brennan and Corinne M. DiDomenico	Cost Recovery		
COMMISSION SET 1	PUC 1-13	2/25/2019	3/7/2019	Timothy J. Brennan and Corinne M. DiDomenico	Transmission		
COMMISSION SET 1	PUC 1-14	2/25/2019	3/7/2019	Timothy J. Brennan and Corinne M. DiDomenico	Transmission		
COMMISSION SET 1	PUC 1-15	2/25/2019	3/7/2019	Timothy J. Brennan and Corinne M. DiDomenico	Pricing		
COMMISSION SET 1	PUC 1-16	2/25/2019	3/7/2019	Timothy J. Brennan and Corinne M. DiDomenico	Transmission		
COMMISSION SET 1	PUC 1-17	2/25/2019	3/7/2019	Timothy J. Brennan and Corinne M. DiDomenico	PPA Terms		

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<b>COMMISSION SET 2</b>							
COMMISSION SET 2	PUC 2-1	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Transmission		
COMMISSION SET 2	PUC 2-2	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Capacity and Reliability		
COMMISSION SET 2	PUC 2-3	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Capacity and Reliability		
COMMISSION SET 2	PUC 2-4	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Capacity and Reliability		
COMMISSION SET 2	PUC 2-5	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Value of Products		
COMMISSION SET 2	PUC 2-6	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Value of Products		
COMMISSION SET 2	PUC 2-7	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Value of Products		
COMMISSION SET 2	PUC 2-8	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Value of Products		
COMMISSION SET 2	PUC 2-9	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Value of Products		
COMMISSION SET 2	PUC 2-9 Supplemental	3/8/2019	4/16/2019	Timothy J. Brennan and Corinne M. DiDomenico	Value of Products		
COMMISSION SET 2	PUC 2-10	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Value of Products	Att. PUC 2-10	
COMMISSION SET 2	PUC 2-11	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Value of Products		
COMMISSION SET 2	PUC 2-12	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Emissions and RECs		
COMMISSION SET 2	PUC 2-13	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Emissions and RECs		
COMMISSION SET 2	PUC 2-14	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Emissions and RECs	Att. PUC 2-14	
COMMISSION SET 2	PUC 2-15	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Emissions and RECs		
COMMISSION SET 2	PUC 2-16	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Emissions and RECs	Att. PUC 2-16-1 and Att. PUC 2-16-2	
COMMISSION SET 2	PUC 2-17	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Emissions and RECs		
COMMISSION SET 2	PUC 2-18	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Other Contract Provisions		
COMMISSION SET 2	PUC 2-19	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Other Contract Provisions		
COMMISSION SET 2	PUC 2-20	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Other Contract Provisions		
COMMISSION SET 2	PUC 2-21	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Other Contract Provisions		
COMMISSION SET 2	PUC 2-22	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Other Contract Provisions		

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COMMISSION SET 2	PUC 2-23	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Other Contract Provisions		
COMMISSION SET 2	PUC 2-24	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Other Contract Provisions		
COMMISSION SET 2	PUC 2-25	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Reasonableness and RFP		
COMMISSION SET 2	PUC 2-26	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Reasonableness and RFP		
COMMISSION SET 2	PUC 2-27	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Reasonableness and RFP		
COMMISSION SET 2	PUC 2-28	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Reasonableness and RFP		
COMMISSION SET 2	PUC 2-29	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Reasonableness and RFP		
COMMISSION SET 2	PUC 2-30	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Reasonableness and RFP		
COMMISSION SET 2	PUC 2-31	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Reasonableness and RFP		
COMMISSION SET 2	PUC 2-32	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Reasonableness and RFP		
COMMISSION SET 2	PUC 2-33	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Reasonableness and RFP		
COMMISSION SET 2	PUC 2-34	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Reasonableness and RFP		
COMMISSION SET 2	PUC 2-35	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Reasonableness and RFP	Att. PUC 2-35 Redacted	Att. PUC 2-35 Confidential
COMMISSION SET 2	PUC 2-36	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Reasonableness and RFP	Att. PUC 2-36 Redacted	Att. PUC 2-36 Confidential
COMMISSION SET 2	PUC 2-36 Supplemental	3/8/2019	4/16/2019	Timothy J. Brennan and Corinne M. DiDomenico	Reasonableness and RFP	Att. PUC 2-36 Supp. Redacted	Att. PUC 2-36 Supp. Confidential
COMMISSION SET 2	PUC 2-37	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Jobs and Economic Benefits		
COMMISSION SET 2	PUC 2-38	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Jobs and Economic Benefits		
COMMISSION SET 2	PUC 2-39	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Jobs and Economic Benefits		
COMMISSION SET 2	PUC 2-40	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Jobs and Economic Benefits		
COMMISSION SET 2	PUC 2-41	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Jobs and Economic Benefits		
COMMISSION SET 2	PUC 2-42	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling	Att. PUC 2-42	
COMMISSION SET 2	PUC 2-43	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling		
COMMISSION SET 2	PUC 2-44	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling		
COMMISSION SET 2	PUC 2-45	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling		
COMMISSION SET 2	PUC 2-46	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Cost Recovery and Remuneration		
COMMISSION SET 2	PUC 2-47	3/8/2019	3/18/2019	Timothy J. Brennan and Corinne M. DiDomenico	Cost Recovery and Remuneration		

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DATA SET	DATA REQUEST	DATE ISSUED	DATE FILED	WITNESS	TOPIC	Attachment	CONFIDENTIAL ATTACHMENT
<b>COMMISSION SET 3</b>							
COMMISSION SET 3	PUC-3-1	4/1/2019	4/15/2019	Timothy J. Brennan and Corinne M. DiDomenico	Follow up		
COMMISSION SET 3	PUC-3-2	4/1/2019	4/15/2019	Timothy J. Brennan and Corinne M. DiDomenico	Follow up		
COMMISSION SET 3	PUC-3-3	4/1/2019	4/15/2019	Timothy J. Brennan and Corinne M. DiDomenico	Follow up		
COMMISSION SET 3	PUC-3-4	4/1/2019	4/11/2019	Timothy J. Brennan and Corinne M. DiDomenico	Follow up		
COMMISSION SET 3	PUC-3-5	4/1/2019	4/11/2019	Timothy J. Brennan and Corinne M. DiDomenico	RECs	Att. PUC-3-5	
COMMISSION SET 3	PUC-3-6	4/1/2019	4/15/2019	Timothy J. Brennan and Corinne M. DiDomenico	Docket 4600 Benefit-Cost Framework	Att. PUC-3-6	
COMMISSION SET 3	PUC-3-7	4/1/2019	4/16/2019	Timothy J. Brennan and Corinne M. DiDomenico	Docket 4600 Benefit-Cost Framework		
COMMISSION SET 3	PUC-3-7 Supplemental	4/1/2019	4/26/2019	Timothy J. Brennan and Corinne M. DiDomenico	Docket 4600 Benefit-Cost Framework	Att. PUC-3-7-C	PUC-3-7-A Confidential and PUC-3-7-B Confidential
COMMISSION SET 3	PUC-3-8	4/1/2019	4/15/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling	Att. PUC-3-8-1, Att. PUC-3-8-2 and PUC-3-8-3	Att. PU-3-8-2 Confidential and Att. PUC-8-3 Confidential
COMMISSION SET 3	PUC-3-9	4/1/2019	4/15/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling		
COMMISSION SET 3	PUC-3-10	4/1/2019	4/11/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling		
COMMISSION SET 3	PUC-3-11	4/1/2019	4/11/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling	Att. PUC-3-11-1 and Att. PUC-3-11-2	
COMMISSION SET 3	PUC-3-12	4/1/2019	4/11/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling		
COMMISSION SET 3	PUC-3-13	4/1/2019	4/16/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling		
COMMISSION SET 3	PUC-3-14	4/1/2019	4/16/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling		
COMMISSION SET 3	PUC-3-15	4/1/2019	4/11/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling		
COMMISSION SET 3	PUC-3-16	4/1/2019	4/11/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling		
COMMISSION SET 3	PUC-3-17	4/1/2019	4/11/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling		
COMMISSION SET 3	PUC-3-18	4/1/2019	4/11/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling		
COMMISSION SET 3	PUC-3-19	4/1/2019	4/11/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling	Att. PUC-3-19	
COMMISSION SET 3	PUC-3-20	4/1/2019	4/11/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling		
COMMISSION SET 3	PUC-3-21	4/1/2019	4/16/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling		
COMMISSION SET 3	PUC-3-22	4/1/2019	4/16/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling		
COMMISSION SET 3	PUC-3-23	4/1/2019	4/16/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling		
COMMISSION SET 3	PUC-3-24	4/1/2019	4/16/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling		
COMMISSION SET 3	PUC-3-25	4/1/2019	4/16/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling		
COMMISSION SET 3	PUC-3-26	4/1/2019	4/11/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling	Att. PUC-3-19	
COMMISSION SET 3	PUC-3-27	4/1/2019	4/15/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling	Att. PUC-3-27-1 and Att. PUC-3-27-2	
COMMISSION SET 3	PUC-3-28	4/1/2019	4/15/2019	Timothy J. Brennan and Corinne M. DiDomenico	Alternatives		
COMMISSION SET 3	PUC-3-29	4/1/2019	4/15/2019	Timothy J. Brennan and Corinne M. DiDomenico	Alternatives		

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COMMISSION SET 3	PUC-3-30	4/1/2019	4/26/2019	Timothy J. Brennan and Corinne M. DiDomenico	Alternatives		
COMMISSION SET 3	PUC-3-31	4/1/2019	4/11/2019	Timothy J. Brennan and Corinne M. DiDomenico	Alternatives		
COMMISSION SET 3	PUC-3-32	4/1/2019	4/11/2019	Timothy J. Brennan and Corinne M. DiDomenico	Alternatives		
COMMISSION SET 3	PUC-3-33	4/1/2019	4/11/2019	Timothy J. Brennan and Corinne M. DiDomenico	Alternatives		



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<b>COMMISSION SET 4</b>							
COMMISSION SET 4	PUC-4-1	4/3/2019	4/15/2019	Timothy J. Brennan and Corinne M. DiDomenico	Other Energy Procurement		
COMMISSION SET 4	PUC-4-2	4/3/2019	4/11/2019	Timothy J. Brennan and Corinne M. DiDomenico	Other Energy Procurement		
COMMISSION SET 4	PUC-4-3	4/3/2019	4/15/2019	Timothy J. Brennan and Corinne M. DiDomenico	Other Energy Procurement	Att. PUC-4-3-1 Redacted and Att. PUC-4-3-2 Redacted	Att. PUC-4-3-1 Confidential and Att. PUC-4-3-2 Confidential
COMMISSION SET 4	PUC-4-4	4/3/2019	4/15/2019	Timothy J. Brennan and Corinne M. DiDomenico	Other Energy Procurement		
COMMISSION SET 4	PUC-4-4 CONFIDENTIAL	4/3/2019	4/15/2019	Timothy J. Brennan and Corinne M. DiDomenico	Other Energy Procurement		
COMMISSION SET 4	PUC-4-5	4/3/2019	4/16/2019	Timothy J. Brennan and Corinne M. DiDomenico	Other Energy Procurement		
COMMISSION SET 4	PUC-4-5 CONFIDENTIAL	4/3/2019	4/16/2019	Timothy J. Brennan and Corinne M. DiDomenico	Other Energy Procurement		
COMMISSION SET 4	PUC-4-6	4/3/2019	4/16/2019	Timothy J. Brennan and Corinne M. DiDomenico	Other Energy Procurement		
<b>COMMISSION SET 5</b>							
COMMISSION SET 5	PUC-5-1	4/5/2019	4/16/2019	Timothy J. Brennan and Corinne M. DiDomenico	Value of Products		
COMMISSION SET 5	PUC-5-2	4/5/2019	4/16/2019	Timothy J. Brennan and Corinne M. DiDomenico	Value of Products		
COMMISSION SET 5	PUC-5-3	4/5/2019	4/15/2019	Timothy J. Brennan and Corinne M. DiDomenico	Other Contract Provisions		
COMMISSION SET 5	PUC-5-4	4/5/2019	4/16/2019	Timothy J. Brennan and Corinne M. DiDomenico	Cost Recovery		
COMMISSION SET 5	PUC-5-5	4/5/2019	4/16/2019	Timothy J. Brennan and Corinne M. DiDomenico	Cost Recovery		
COMMISSION SET 5	PUC-5-6	4/5/2019	4/16/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling	Att. PUC-5-6	
COMMISSION SET 5	PUC-5-7	4/5/2019	4/26/2019	Timothy J. Brennan and Corinne M. DiDomenico	Modeling	Att. PUC-5-7	Att. PUC-5-7-A Confidential and PUC-5-7-B Confidential
COMMISSION SET 5	PUC-5-8	4/5/2019	4/15/2019	Timothy J. Brennan and Corinne M. DiDomenico	Last Resort Service		
COMMISSION SET 5	PUC-5-9	4/5/2019	4/15/2019	Timothy J. Brennan and Corinne M. DiDomenico	Remuneration		

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DATA SET	DATA REQUEST	DATE ISSUED	DATE FILED	WITNESS	TOPIC	Attachment	CONFIDENTIAL ATTACHMENT
<b>DIVISION SET 1</b>							
DIVISION SET 1	DIV 1-1	2/25/2019	3/8/2019	Timothy J. Brennan and Corinne M. DiDomenico	Remuneration	Att. DIV 1-1	
DIVISION SET 1	DIV 1-2	2/25/2019	3/8/2019	Timothy J. Brennan and Corinne M. DiDomenico	Remuneration	Att. DIV 1-2	
DIVISION SET 1	DIV 1-3	2/25/2019	3/8/2019	Timothy J. Brennan and Corinne M. DiDomenico	Remuneration		
DIVISION SET 1	DIV 1-4	2/26/2019	3/8/2019	Timothy J. Brennan, Corinne M. DiDomenico & Robert B. Hevert	Remuneration		
DIVISION SET 1	DIV 1-5	2/26/2019	3/8/2019	Timothy J. Brennan, Corinne M. DiDomenico & Robert B. Hevert	Remuneration		
DIVISION SET 1	DIV 1-6	2/26/2019	3/8/2019	Timothy J. Brennan, Corinne M. DiDomenico & Robert B. Hevert	Remuneration		
DIVISION SET 1	DIV 1-7	2/26/2019	3/8/2019	Timothy J. Brennan, Corinne M. DiDomenico & Robert B. Hevert	Remuneration		
DIVISION SET 1	DIV 1-8	2/26/2019	3/8/2019	Robert B. Hevert	Remuneration		
DIVISION SET 1	DIV 1-9	2/26/2019	3/8/2019	Robert B. Hevert	Remuneration		
DIVISION SET 1	DIV 1-10	2/26/2019	3/8/2019	Robert B. Hevert	Remuneration		
DIVISION SET 1	DIV 1-11	2/26/2019	3/8/2019	Robert B. Hevert	Remuneration		
DIVISION SET 1	DIV 1-12	2/26/2019	3/8/2019	Robert B. Hevert	Remuneration	Att. DIV 1-12-1, DIV 1-12-2, DIV 1-12-3, DIV 1-12-4, DIV 1-12-5, DIV 1-12-6, DIV 1-12-7, DIV 1-12-8, DIV 1-12-9, DIV 1-12-10, DIV 1-12-11, DIV 1-12-12, DIV 1-12-13, DIV 1-12-14, DIV 1-12-15, DIV 1-12-16, DIV 1-12-17, DIV 1-12-18, & DIV 1-12-19	
DIVISION SET 1	DIV 1-13	2/26/2019	3/8/2019	Timothy J. Brennan, Corinne M. DiDomenico & Robert B. Hevert	Remuneration		
DIVISION SET 1	DIV 1-14	2/26/2019	3/8/2019	Robert B. Hevert	Remuneration		
DIVISION SET 1	DIV 1-15	2/26/2019	3/8/2019	Timothy J. Brennan, Corinne M. DiDomenico & Robert B. Hevert	Remuneration		

PUC 3-7

Request:

Referencing Schedule NG-7 on Bates page 364 and Schedule NG-5 on Bates page 313:

- a. Does National Grid believe the entire cost of the proposal in 2018\$ is \$1,333,945,342 or is National Grid reporting the program costs?
- b. If National Grid is only reporting the program costs, please explain why the total costs of the Facility and related facilities, and all other costs associated with the PPA are not included in Schedule NG-7 and Schedule NG-5. Please specifically include an explanation of why the direct cost of the project does not include transmission.
- c. Please provide National Grid's estimate for the following:
  - i. costs of the Delivery Facility including financing costs, all associated system upgrades, operations and maintenance (O&M) costs, decommissioning costs, siting and permitting costs, other legal and regulatory costs, administrative costs not captured in O&M costs, and any other costs associated with the construction and operation of the Delivery Facility;
  - ii. costs of the Facility including financing costs, all associated operations and maintenance (O&M) costs, decommissioning costs, siting and permitting costs, other legal and regulatory costs, administrative costs not captured in O&M costs, and any other costs associated with the construction and operation of the Delivery Facility, excluding sunk costs such as the costs associated with the RFP and the current proceeding;
  - iii. projected losses of entities (inside and outside of Rhode Island) that sell (or otherwise monetize) energy and renewable energy products that will have reduced value because of the effect National Grid expects the Facility will have on markets for these products, including National Grid's own products purchased through Long-Term Contracting Standard for Renewable Energy, Distributed Generation Standard Contracts, and Renewable Energy Growth Program;
  - iv. any administrative costs to National Grid for related to cost recovery and marketing products from the facility not included above;

- v. costs and benefits to local tourism and businesses, in particular, any costs or benefits to commercial fishing, that are not captured in the "Economic Benefit to Rhode Island" category;
- vi. environmental costs and benefits, including wildlife impact, not included in the societal impact of greenhouse gas and NOx emissions;
- d. If National Grid does not have information responsive to parts c.i and c.ii, please provide National Grid's estimate for all revenues, including the PPA revenue, that are necessary to support the construction and operation of the Facility and Delivery Facility, and that will be ultimately paid for by entities other than DWW (e.g., taxpayers supporting an investment tax credit and ratepayers supporting Forward Capacity Market revenue).
- e. Please update the RI Test for the proposal using information responsive to parts c and d.

Supplemental Response:

National Grid and its consultant, TCR, have completed additional analysis of the projected costs to entities inside and outside of Rhode Island that sell energy and RECs that will have reduced value because of the effect National Grid expects the Facility will have on markets for those products, including National Grid's products purchased through long-term contracts, as requested in part (c)(iii), above. Additionally, consistent with the intent of the Docket 4600 analysis to consider societal benefits and costs, TCR has also calculated indirect costs and benefits attributable to other New England states.

An updated RI Test for the proposal using this information is provided as Attachment PUC 3-7-A. In addition, a confidential version of the quantitative workbook supporting the updated RI Test is provided as Attachment PUC 3-7-B (Confidential). The Company has also prepared an updated version of Schedule NG-7 reflecting this additional analysis, provided as Attachment PUC 3-7-C.

The updated RI Test includes the following revised or additional indirect benefits:

- Indirect REC market price change impact;
- Impact of reduction in gas supply costs to other New England states gas customers;
- Indirect benefit – energy market price change impact for other New England states; and
- Indirect benefit – REC market price change impact for other New England states.

The updated RI Test includes the following additional indirect costs:

- Indirect energy revenue reduction for existing long-term contracts in Rhode Island;

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- Indirect REC revenue reduction for existing long-term contracts in Rhode Island;
- Indirect energy revenue reduction for existing long-term contracts in other New England states; and
- Indirect REC revenue reduction for existing long-term contracts in other New England states.

Values reported for reduction in gas supply costs to other New England states includes Massachusetts and Connecticut, using data readily available to National Grid. While other states in ISO-NE may experience additional reduction in gas supply costs, National Grid is unable to quantify those costs and benefits at this time. The additional indirect benefits and cost for Energy and RECs from other New England states includes MA, CT, VT, NH and ME, using data contained in the quantitative workbook Attachment PUC 3-7-B (Confidential).

After considering the additional indirect benefits and costs to other New England states and the indirect energy and REC revenue reduction for existing long-term contracts in Rhode Island and other New England states, the projected total net benefits increase to approximately \$3.5 billion, with a total benefit cost test ratio of 2.71.

**Rhode Island Renewable Energy Long Term Contract RFP  
Docket 4600 Benefit-Cost Framework - Applicable Category Summary**

Power System Level (Cost/Benefit Categories)			(NPV in 2018\$)	Description of quantitative values or reason for exclusion:
(1) Energy Supply & Transmission Operating Value of Energy Provided or Saved (Time- & Location-	Applicable/Quantifiable	\$933,754,251		Market value of Energy from Project + Increase in Project PPA market value from year with extreme Winter prices occurring once in 15 years
(2) Renewable Energy Credit Cost/Value	Applicable/Quantifiable	\$430,227,231		Market value of Project RECs retired (used) for RES or sold
(3) Retail Supplier Risk Premium	Not Applicable (N/A)	\$0		PPA is a long term contract for wholesale power supply at a fixed price.
(4) Forward Commitment: Capacity Value	Applicable/Not Quantifiable	-		Beyond the capabilities of the modeling system to quantify accurately. <b>Neutral impact.</b>
(5) Forward Commitment: Avoided Ancillary Services Value	Applicable/Not Quantifiable	-		Beyond the capabilities of the modeling system to quantify accurately. <b>Negative impact, insignificant.</b>
(6) Utility / Third Party Developer Renewable Energy, Efficiency, or DER costs	Applicable/Quantifiable	(\$1,333,945,342)		PPA cost of energy and RECs.
(7) Electric Transmission Capacity Costs / Value	Applicable/Quantifiable	\$0		The Proposal contains a fixed PPA price for energy and REC, with all interconnection and transmission upgrades included in PPA price. The project is commitment to interconnect to the ISO-NE "PTF" at the Capacity Capability Interconnection Standard, as defined by ISO-NE.
(8) Electric transmission infrastructure costs for Site Specific Resources	Applicable/Quantifiable	\$0		The Proposal contains a fixed PPA price for energy and REC, with all interconnection and transmission upgrades included in PPA price. The project is required to interconnect to the ISO-NE "PTF" at the Capacity Capability Interconnection Standard, as defined by ISO-NE.
(9) Net risk benefits to utility system operations (generation, transmission, distribution)	N/A	\$0		Generation supply will be interconnected at the ISO-NE "PTF". This resource is not a DER.
(10) Option value of individual resources	Applicable/Quantifiable	\$215,455,678		RI Energy Market Price Change Impact + RI REC Market Price Change Impact + Benefit to Rhode Island Gas Customers due to Gas Use Reduction (Benefits)
Option value of individual resources	Applicable/Quantifiable	(\$113,251,584)		RI Energy Market Price Change Impact + RI REC Market Price Change Impact (Revenue Reduction for existing Long Term Contracts)
Option value of individual resources	Applicable/Quantifiable	\$3,023,398,021		Other NE States Energy Market Price Change Impact + Other NE States REC Market Price Change Impact + Benefit to Other NE States Gas Customers due to Gas Use Reduction (Benefits)
Option value of individual resources	Applicable/Quantifiable	(\$564,879,589)		Other NE States Energy Market Price Change Impact + Other NE States REC Market Price Change Impact (Revenue Reduction for existing Long Term Contracts)
(11) Investment under Uncertainty: Real Options Cost / Value	Applicable/Quantifiable	Included in categories (1, 2, 6, 10)		Project was selected based on a competitive process of multiple proposals. Evaluation and benefit cost analysis was compared to a basecase that provided a "but for" or "counterfactual" projection of the costs of electric energy, RECs, and carbon emissions associated with Rhode Island electricity consumption under a future in which no proposals are selected.
(12) Energy Demand Reduction Induced Price Effect	N/A	\$0		Generation supply is not an Energy DRIP, but the proposal's indirect benefit impact on market LMP price change and REC price change is listed above.
(13) Greenhouse gas compliance costs (Embedded Cost)	Applicable/Quantifiable	Included in category (1)		Greenhouse gas compliance costs (GGC) is embedded as a fuel related cost in the model analysis to determine the quantitative market impacts listed above.
(14) Criteria air pollutant and other environmental compliance costs	Applicable/Not quantifiable	-		Not significant value to quantify or differentiate between projects
(15) Innovation and Learning by Doing	Applicable/Not quantifiable	-		The benefits of innovation in the OSW industry and by the developer have been captured in the bid pricing of the contract, including, but not limited to any potential federal tax credits <b>economies of scale, and first mover advantage. Positive impact significant.</b>
(16) Distribution capacity costs	N/A	\$0		Generation supply will be interconnected at the ISO-NE "PTF". Distribution level category is not applicable to this project.
(17) Distribution delivery costs	N/A	\$0		Generation supply will be interconnected at the ISO-NE "PTF". Distribution level category is not applicable to this project.
(18) Distribution system safety loss/gain	N/A	\$0		Generation supply will be interconnected at the ISO-NE "PTF". Distribution level category is not applicable to this project.
(19) Distribution system performance	N/A	\$0		Generation supply will be interconnected at the ISO-NE "PTF". Distribution level category is not applicable to this project.
(20) Utility low income	N/A	\$0		Generation supply will be interconnected at the ISO-NE "PTF". Distribution level category is not applicable to this project.
(21) Distribution system and customer reliability / resilience impacts	N/A	\$0		Generation supply will be interconnected at the ISO-NE "PTF". Distribution level category is not applicable to this project.
(22) Distribution system safety loss/gain	N/A	\$0		Generation supply will be interconnected at the ISO-NE "PTF". Distribution level category is not applicable to this project.

Customer Level (Cost/Benefit Categories)				
(23) Program participant / prosumer benefits / costs	N/A	\$0		Proposed rate recovery through distribution rates applicable to all distribution customers.
(24) Participant non-energy costs/benefits: Oil, Gas, Water, Waste Water	N/A	\$0		Proposed rate recovery through distribution rates applicable to all distribution customers.
(25) Low-Income Participant Benefits	N/A	\$0		Proposed rate recovery through distribution rates applicable to all distribution customers.
(26) Consumer Empowerment & Choice	N/A	\$0		Proposed rate recovery through distribution rates applicable to all distribution customers.
(27) Non-participant (equity) rate and bill impacts	N/A	\$0		Proposed rate recovery through distribution rates applicable to all distribution customers.

Societal Level (Cost/Benefit Categories)				
(28) Greenhouse gas externality costs	Applicable/Quantifiable	\$533,172,942		Impact of Reduction in GHG Emissions
(29) Criteria air pollutant and other environmental externality costs	Applicable/Quantifiable	\$10,761,161		Impact of Reduction in NOx Emissions
(30) Conservation and community benefits	Applicable/Not quantifiable	-		The project must obtain all required federal, state and local permits. This category calls for consideration of land use impacts, including loss of carbon sink, habitat, historical value, and sense of place, as well as the equity in distribution of harmful or nuisance infrastructure. DWW explained how it intends to minimize land use impacts, including through the federal, state and local permitting process, in Section 6 of its bid related to siting and zoning, and Section 7 of its bid related to environmental assessments and permitting. Any associated costs not mitigated through applicable permitting processes are not quantifiable at this time. <b>Negative impact, unknown magnitude.</b>
(31) Non-energy costs/benefits: Economic Development	Applicable/Quantifiable	\$405,125,090		Economic Benefit to Rhode Island
(32) Innovation and knowledge spillover	Applicable/Not quantifiable	-		Rhode Island's leadership and contribution to emerging off-shore wind industry brings opportunities to drive down costs, attract future development, increase diversity of clean energy supply, and encourage a clean energy economy bringing investment and jobs to the region. Additional value brought by DWW's experience developing off-shore wind in the US and opportunity to take advantage of expiring federal tax incentives, <b>economies of scale, and first mover advantage. Positive impact, large.</b>
(33) Societal Low-Income Impacts	N/A	\$0		Proposed rate recovery through distribution rates applicable to all distribution customers.
(34) Public Health	Applicable/Not quantifiable	Included in category (28) and (29)		Navigant Report (Schedule NG-6), "Pollutants emitted by the electric power sector cause damage to human health, including increased morbidity and mortality. Over the course of its operating life, the Revolution Wind Rhode Island project will displace thermal generation which will result in reduced emissions of harmful pollutants, which can be translated to societal benefits". The societal benefits for GHG and NOx emissions reduction are listed above in (28) and (29). <b>Positive impact, significant.</b>
(35) National Security and US international influence	Applicable/Not quantifiable	Included in category (1) and (28)		The project will contribute to reducing oil consumption, attributed to winter fuel switching, by approximately 270,000 Bbls. The economic and environmental impacts have been captured in the market value and GHG emission reduction listed in (1) and (28). <b>Positive impact, small.</b>

**Total Net Benefits: \$3,539,817,859**