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September 16, 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 Division Data Requests – Set 4 Supplemental

Dear Ms. Massaro:

On behalf of National Grid,¹ enclosed are National Grid's supplemental responses to the Fourth Set of Data Requests issued by the Rhode Island Division of Public Utilities and Carriers in the above-referenced matter. Please note that Attachments DIV-4-4(b) and DIV-4-7(b) contain Highly Sensitive Confidential Information; a Motion for Protective Treatment is enclosed and the confidential versions of these attachments will be provided only the Public Utilities Commission and those parties that have executed the appropriate non-disclosure agreements.

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. Halik

John K. Habib

Enclosures

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

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

RHODE ISLAND PUBLIC UTILITIES COMMISSION

Review of Precedent Agreement with Algonquin Gas Transmission LLC for Capacity on the Access Northeast Project Pursuant to R.I.G.L. § 39-31 *et seq.*

Docket No. 4627

NATIONAL GRID'S REQUEST FOR PROTECTIVE TREATMENT OF CONFIDENTIAL INFORMATION

National Grid¹ hereby requests that the Rhode Island Public Utilities Commission (PUC) provide confidential treatment and grant protection from public disclosure of certain confidential, competitively sensitive, and proprietary information submitted in this proceeding, as permitted by PUC Rule 1.2(g) and R.I.G.L. § 38-2-2(4)(B). National Grid also hereby requests that, pending entry of that finding, the PUC preliminarily grant National Grid's request for confidential treatment pursuant to Rule 1.2 (g)(2).

I. BACKGROUND

On June 30, 2016, National Grid filed with the PUC its request for approval of a precedent agreement with Algonquin Gas Transmission LLC (Algonquin) for capacity on the Access Northeast Energy Project (ANE Project). In support of its request for approval, National Grid submitted initial testimony and supporting exhibits including a copy of the precedent agreement and the Company's analysis of the precedent agreement and ANE Project, including proprietary modeling information and analysis provided by

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The Narragansett Electric Company d/b/a National Grid (National Grid or the Company).

the Company's third-party consultants. For example, the testimony of Gary Wilmes of Black & Veatch Management Consulting LLC (Black & Veatch), provided detailed costbenefit analysis related to the ANE Project that was created using Black & Veatch's proprietary modeling.

On September 13, 2016 National Grid filed its responses to the Division of Public Utilities' (Division) Fourth Set of Data Requests. On September 16, 2016 National Grid filed supplemental responses to the Division's Fourth Set of Data Requests, specifically to Data Requests DIV 4-4 and DIV 4-7. Attachments DIV 4-4(b) and DIV 4-7(b) provided together with the Company's supplemental responses to Data Requests DIV 4-4 and DIV 4-7.

As noted above, the Company's affiliates Massachusetts Electric Company and Nantucket Electric Company each d/b/a National Grid have filed a similar request for approval of precedent agreements with Algonquin for capacity on the ANE Project with the Department. The Department has approved a two tier confidential document designation to provide an added layer of protective treatment in this related proceeding. This additional layer of protective treatment is necessary because certain intervenors granted full-party status in the Massachusetts proceeding are classified as bidders with respect to the request for proposals (RFP) that resulted in the precedent agreement that is the subject of this proceeding. The RFP was jointly simultaneously with the RFP issued by the Company's Massachusetts affiliates and Eversource Energy and, therefore, the Company expects that some or all of the parties who have intervened in the Massachusetts proceeding. Therefore, in order to ensure that confidential information is treated consistently across jurisdictions, the Company proposes to implement the same two-tier system for this proceeding. If the same parties intervene in this proceeding and the two-tier system is not utilized, the two-tier system being used in Massachusetts will be undermined and the Company (and its affiliates) will be placed at a competitive disadvantage. This result would be particularly problematic because it is expected that other pipeline projects will be proposed in the near future to address capacity restraint in the New England region.

In this proceeding, the Company proposed to adopt the same approach to ensure consistency across New England jurisdictions, and to prevent intervenors from gaining access to confidential information that has been restricted in Massachusetts. Each of the documents referenced in this Motion have been classified as either Confidential or Highly Sensitive Confidential Information, consistent with the Company's initial filing and as filed in Massachusetts. Although the PUC has declined to adopt the two-tier method of protective treatment proposed, the PUC has determined that National Grid can still mark documents as either HSCI or Confidential and enter into non-disclosure agreements appropriate for each classification.

The Company has provided redacted and unredacted versions of each of the HSCI Documents. Each of these documents and/or files contains confidential and proprietary contractual or economic analysis information. Therefore, National Grid requests that the PUC give the information contained in the unredacted version of the HSCI Documents protective treatment.

II. LEGAL STANDARD

The PUC's Rule 1.2(g) provides that access to public records shall be granted in accordance with the Access to Public Records Act (APRA), R.I.G.L. §38-2-1 *et seq.*

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Under APRA, all documents and materials submitted in connection with the transaction of official business by an agency is deemed to be a "public record," unless the information contained in such documents and materials falls within one of the exceptions specifically identified in R.I.G.L. §38-2-2(4). Therefore, to the extent that information provided to the PUC falls within one of the designated exceptions to the public records law, the PUC has the authority under the terms of APRA to deem such information to be confidential and to protect that information from public disclosure.

In that regard, R.I.G.L. §38-2-2(4)(B) provides that the following types of records shall not be deemed public:

Trade secrets and commercial or financial information obtained from a person, firm, or corporation which is of a privileged or confidential nature.

The Rhode Island Supreme Court has held that this confidential information exemption applies where disclosure of information would be likely either (1) to impair the Government's ability to obtain necessary information in the future; <u>or</u> (2) to cause substantial harm to the competitive position of the person from whom the information was obtained. <u>Providence Journal Company v. Convention Center Authority</u>, 774 A.2d 40 (R.I. 2001).

The first prong of the test is satisfied when information is voluntarily provided to the governmental agency and that information is of a kind that would customarily not be released to the public by the person from whom it was obtained. <u>Providence Journal</u>, 774 A.2d at 47.

III. BASIS FOR CONFIDENTIALITY

The HSCI Documents contain information and outputs that flow from proprietary modeling systems that are the property of the Company's consultant, Black & Veatch.

These models, including the assumptions, and the outputs resulting from the models were developed by Black & Veatch for its use in providing analytical and other services to its business clients, including the Company. The models are not available in the public domain, nor may the public access the models, inputs or outputs absent a binding contract for services with Black & Veatch. If publicly disclosed, these documents would provide competitively sensitive information to other parties and could seriously harm the competitive business position of Black & Veatch. Such a result would be contrary to the public interest.

IV. CONCLUSION

Accordingly, the Company requests that the PUC grant protective treatment to Attachments DIV-4-4(b) and DIV-4-7(b) filed with the Company's supplemental responses to the Division's Fourth Set of Data Requests on September 16, 2016.

WHEREFORE, the Company respectfully requests that the PUC grant its Motion for Protective Treatment as stated herein.

Respectfully submitted,

NATIONAL GRID

By its attorneys,

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Jennifer Brooks Hutchinson (RI Bar #6176) National Grid 280 Melrose Street Providence, RI 02907 (401) 784-7288

John K. Halik

John K. Habib, Esq. (RI Bar #7431) Keegan Werlin LLP 265 Franklin Street Boston, Massachusetts 02110 (617) 951-1400

Dated: September 16, 2016

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 National Grid's Request for Approval Of a Gas Capacity Contract and Cost Recovery Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests Issued August 30, 2016

Division 4-4 (Supp.)

Request:

For each supply node modeled within B&V's version of GPCM, please provide live excel spreadsheets with all inputs and calculations intact that provide the monthly supply curves including but not limited to price and quantity. Provide this information for each scenarios and/or sensitivity analyzed by B&V.

Response:

Please see Attachment DIV-4-4(a) (Highly Sensitive Confidential Information) for the monthly supply curves for the supply nodes used in Black & Veatch's analysis which have material impact on the net benefits analysis associated with the ANE Project. Such nodes include those located in the Gulf Coast, as well as the Marcellus and Utica shale regions which serve New England. These supply curves remained unchanged for each scenario/sensitivity. The Company will supplement this response with information from Eastern Canada supply nodes by Friday, August 19, 2016, although such supply nodes did not provide a meaningful level of information ultimately relevant to the Black & Veatch's net benefits analysis because supply from that area declines significantly over time due to high local demand for such supply.

Supplemental Response:

Please see Attachment DIV-4-4(b) (Highly Sensitive Confidential Information) for the monthly supply nodes for Eastern Canada supply.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's First Set of Data Requests DIV-4-4(b) Issued August 30, 2016 Page 1 of 13

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| Line # | Supply Type | Geographic Location | Time | Cnt | Supply Point 1 | Price Point 1 | Supply Point 2 | Price Point 2 | Elasticity |
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The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's First Set of Data Requests DIV-4-4(b) Issued August 30, 2016 Page 2 of 13

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The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's First Set of Data Requests DIV-4-4(b) Issued August 30, 2016 Page 3 of 13

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The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's First Set of Data Requests DIV-4-4(b) Issued August 30, 2016 Page 4 of 13

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The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's First Set of Data Requests DIV-4-4(b) Issued August 30, 2016 Page 5 of 13

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The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's First Set of Data Requests DIV-4-4(b) Issued August 30, 2016 Page 6 of 13

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The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's First Set of Data Requests DIV-4-4(b) Issued August 30, 2016 Page 7 of 13

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| Line # | Supply Type | Geographic Location | Time | Cnt | Supply Point 1 | Price Point 1 | Supply Point 2 | Price Point 2 | Elasticity |
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| 256 | Conventional | NS Offshore | | | | | | | |
| 257 | Conventional | NS Offshore | | | | | | | |
| 258 | Conventional | NS Offshore | | | | | | | |
| 259 | Conventional | NS Offshore | | | | | | | |
| 260 | Conventional | NS Offshore | | | | | | | |
| 261 | Conventional | NS Offshore | | | | | | | |
| 262 | Conventional | NS Offshore | | | | | | | |
| 263 | Conventional | NS Offshore | | | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's First Set of Data Requests DIV-4-4(b) Issued August 30, 2016 Page 8 of 13

| Column | А | В | С | D | E | F | G | н | I |
|--------|--------------|---------------------|------|-----|----------------|---------------|----------------|---------------|------------|
| Line # | Supply Type | Geographic Location | Time | Cnt | Supply Point 1 | Price Point 1 | Supply Point 2 | Price Point 2 | Elasticity |
| 264 | Conventional | NS Offshore | | | | | | | |
| 265 | Conventional | NS Offshore | | | | | | | |
| 266 | Conventional | NS Offshore | | | | | | | |
| 267 | Conventional | NS Offshore | | | | | | | |
| 268 | Conventional | NS Offshore | | | | | | | |
| 269 | Conventional | NS Offshore | | | | | | | |
| 270 | Conventional | NS Offshore | | | | | | | |
| 271 | Conventional | NS Offshore | | | | | | | |
| 272 | Conventional | NS Offshore | | | | | | | |
| 273 | Conventional | NS Offshore | | | | | | | |
| 274 | Conventional | NS Offshore | | | | | | | |
| 275 | Conventional | NS Offshore | | | | | | | |
| 276 | Conventional | NS Offshore | | | | | | | |
| 277 | Conventional | NS Offshore | | | | | | | |
| 278 | Conventional | NS Offshore | | | | | | | |
| 279 | Conventional | NS Offshore | | | | | | | |
| 280 | Conventional | NS Offshore | | | | | | | |
| 281 | Conventional | NS Offshore | | | | | | | |
| 282 | Conventional | NS Offshore | | | | | | | |
| 283 | Conventional | NS Offshore | | | | | | | |
| 284 | Conventional | NS Offshore | | | | | | | |
| 285 | Conventional | NS Offshore | | | | | | | |
| 286 | Conventional | NS Offshore | | | | | | | |
| 287 | Conventional | NS Offshore | | | | | | | |
| 288 | Conventional | NS Offshore | | | | | | | |
| 289 | Conventional | NS Offshore | | | | | | | |
| 290 | Conventional | NS Offshore | | | | | | | |
| 291 | Conventional | NS Offshore | | | | | | | |
| 292 | Conventional | NS Offshore | | | | | | | |
| 293 | Conventional | NS Offshore | | | | | | | |
| 294 | Conventional | NS Offshore | | | | | | | |
| 295 | Conventional | NS Offshore | | | | | | | |
| 296 | Conventional | NS Offshore | | | | | | | |
| 297 | Conventional | NS Offshore | | | | | | | |
| 298 | Conventional | NS Offshore | | | | | | | |
| 299 | Conventional | NS Offshore | | | | | | | |
| 300 | Conventional | NS Offshore | | | | | | | |
| 301 | Conventional | NS Offshore | | | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's First Set of Data Requests DIV-4-4(b) Issued August 30, 2016 Page 9 of 13

| Column | А | В | С | D | E | F | G | н | I. |
|--------|--------------|---------------------|------|-----|----------------|---------------|----------------|---------------|------------|
| Line # | Supply Type | Geographic Location | Time | Cnt | Supply Point 1 | Price Point 1 | Supply Point 2 | Price Point 2 | Elasticity |
| 302 | Conventional | NS Offshore | | | | | | | |
| 303 | Conventional | NS Offshore | | | | | | | |
| 304 | Conventional | NS Offshore | | | | | | | |
| 305 | Conventional | NS Offshore | | | | | | | |
| 306 | Conventional | NS Offshore | | | | | | | |
| 307 | Conventional | NS Offshore | | | | | | | |
| 308 | Conventional | NS Offshore | | | | | | | |
| 309 | Conventional | NS Offshore | | | | | | | |
| 310 | Conventional | NS Offshore | | | | | | | |
| 311 | Conventional | NS Offshore | | | | | | | |
| 312 | Conventional | NS Offshore | | | | | | | |
| 313 | Conventional | NS Offshore | | | | | | | |
| 314 | Conventional | NS Offshore | | | | | | | |
| 315 | Conventional | NS Offshore | | | | | | | |
| 316 | Conventional | NS Offshore | | | | | | | |
| 317 | Conventional | NS Offshore | | | | | | | |
| 318 | Conventional | NS Offshore | | | | | | | |
| 319 | Conventional | NS Offshore | | | | | | | |
| 320 | Conventional | NS Offshore | | | | | | | |
| 321 | Conventional | NS Offshore | | | | | | | |
| 322 | Conventional | NS Offshore | | | | | | | |
| 323 | Conventional | NS Offshore | | | | | | | |
| 324 | Conventional | NS Offshore | | | | | | | |
| 325 | Conventional | NS Offshore | | | | | | | |
| 326 | Conventional | NS Offshore | | | | | | | |
| 327 | Conventional | NS Offshore | | | | | | | |
| 328 | Conventional | NS Offshore | | | | | | | |
| 329 | Conventional | NS Offshore | | | | | | | |
| 330 | Conventional | NS Offshore | | | | | | | |
| 331 | Conventional | NS Offshore | | | | | | | |
| 332 | Conventional | NS Offshore | | | | | | | |
| 333 | Conventional | NS Offshore | | | | | | | |
| 334 | Conventional | NS Offshore | | | | | | | |
| 335 | Conventional | NS Offshore | | | | | | | |
| 336 | Conventional | NS Offshore | | | | | | | |
| 337 | Conventional | NS Offshore | | | | | | | |
| 338 | Conventional | NS Offshore | | | | | | | |
| 339 | Conventional | NS Offshore | | | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's First Set of Data Requests DIV-4-4(b) Issued August 30, 2016 Page 10 of 13

| Column | А | В | С | D | E | F | G | н | I |
|--------|--------------|---------------------|------|-----|----------------|---------------|----------------|---------------|------------|
| Line # | Supply Type | Geographic Location | Time | Cnt | Supply Point 1 | Price Point 1 | Supply Point 2 | Price Point 2 | Elasticity |
| 340 | Conventional | NS Offshore | | | | | | | |
| 341 | Conventional | NS Offshore | | | | | | | |
| 342 | Conventional | NS Offshore | | | | | | | |
| 343 | Conventional | NS Offshore | | | | | | | |
| 344 | Conventional | NS Offshore | | | | | | | |
| 345 | Conventional | NS Offshore | | | | | | | |
| 346 | Conventional | NS Offshore | | | | | | | |
| 347 | Conventional | NS Offshore | | | | | | | |
| 348 | Conventional | NS Offshore | | | | | | | |
| 349 | Conventional | NS Offshore | | | | | | | |
| 350 | Conventional | NS Offshore | | | | | | | |
| 351 | Conventional | NS Offshore | | | | | | | |
| 352 | Conventional | NS Offshore | | | | | | | |
| 353 | Conventional | NS Offshore | | | | | | | |
| 354 | Conventional | NS Offshore | | | | | | | |
| 355 | Conventional | NS Offshore | | | | | | | |
| 356 | Conventional | NS Offshore | | | | | | | |
| 357 | Conventional | NS Offshore | | | | | | | |
| 358 | Conventional | NS Offshore | | | | | | | |
| 359 | Conventional | NS Offshore | | | | | | | |
| 360 | Conventional | NS Offshore | | | | | | | |
| 361 | Conventional | NS Offshore | | | | | | | |
| 362 | Conventional | NS Offshore | | | | | | | |
| 363 | Conventional | NS Offshore | | | | | | | |
| 364 | Conventional | NS Offshore | | | | | | | |
| 365 | Conventional | NS Offshore | | | | | | | |
| 366 | Conventional | NS Offshore | | | | | | | |
| 367 | Conventional | NS Offshore | | | | | | | |
| 368 | Conventional | NS Offshore | | | | | | | |
| 369 | Conventional | NS Offshore | | | | | | | |
| 370 | Conventional | NS Offshore | | | | | | | |
| 371 | Conventional | NS Offshore | | | | | | | |
| 372 | Conventional | NS Offshore | | | | | | | |
| 373 | Conventional | NS Offshore | | | | | | | |
| 374 | Conventional | NS Offshore | | | | | | | |
| 375 | Conventional | NS Offshore | | | | | | | |
| 376 | Conventional | NS Offshore | | | | | | | |
| 377 | Conventional | NS Offshore | | | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's First Set of Data Requests DIV-4-4(b) Issued August 30, 2016 Page 11 of 13

| Column | А | В | С | D | E | F | G | н | I |
|--------|--------------|---------------------|------|-----|----------------|---------------|----------------|---------------|------------|
| Line # | Supply Type | Geographic Location | Time | Cnt | Supply Point 1 | Price Point 1 | Supply Point 2 | Price Point 2 | Elasticity |
| 378 | Conventional | NS Offshore | | | | | | | |
| 379 | Conventional | NS Offshore | | | | | | | |
| 380 | Conventional | NS Offshore | | | | | | | |
| 381 | Conventional | NS Offshore | | | | | | | |
| 382 | Conventional | NS Offshore | | | | | | | |
| 383 | Conventional | NS Offshore | | | | | | | |
| 384 | Conventional | NS Offshore | | | | | | | |
| 385 | Conventional | NS Offshore | | | | | | | |
| 386 | Conventional | NS Offshore | | | | | | | |
| 387 | Conventional | NS Offshore | | | | | | | |
| 388 | Conventional | NS Offshore | | | | | | | |
| 389 | Conventional | NS Offshore | | | | | | | |
| 390 | Conventional | NS Offshore | | | | | | | |
| 391 | Conventional | NS Offshore | | | | | | | |
| 392 | Conventional | NS Offshore | | | | | | | |
| 393 | Conventional | NS Offshore | | | | | | | |
| 394 | Conventional | NS Offshore | | | | | | | |
| 395 | Conventional | NS Offshore | | | | | | | |
| 396 | Conventional | NS Offshore | | | | | | | |
| 397 | Conventional | NS Offshore | | | | | | | |
| 398 | Conventional | NS Offshore | | | | | | | |
| 399 | Conventional | NS Offshore | | | | | | | |
| 400 | Conventional | NS Offshore | | | | | | | |
| 401 | Conventional | NS Offshore | | | | | | | |
| 402 | Conventional | NS Offshore | | | | | | | |
| 403 | Conventional | NS Offshore | | | | | | | |
| 404 | Conventional | NS Offshore | | | | | | | |
| 405 | Conventional | NS Offshore | | | | | | | |
| 406 | Conventional | NS Offshore | | | | | | | |
| 407 | Conventional | NS Offshore | | | | | | | |
| 408 | Conventional | NS Offshore | | | | | | | |
| 409 | Conventional | NS Offshore | | | | | | | |
| 410 | Conventional | NS Offshore | | | | | | | |
| 411 | Conventional | NS Offshore | | | | | | | |
| 412 | Conventional | NS Offshore | | | | | | | |
| 413 | Conventional | NS Offshore | | | | | | | |
| 414 | Conventional | NS Offshore | | | | | | | |
| 415 | Conventional | NS Offshore | | | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's First Set of Data Requests DIV-4-4(b) Issued August 30, 2016 Page 12 of 13

| Column | А | В | С | D | E | F | G | н | I |
|--------|--------------|---------------------|------|-----|----------------|---------------|----------------|---------------|------------|
| Line # | Supply Type | Geographic Location | Time | Cnt | Supply Point 1 | Price Point 1 | Supply Point 2 | Price Point 2 | Elasticity |
| 416 | Conventional | NS Offshore | | | | | | | |
| 417 | Conventional | NS Offshore | | | | | | | |
| 418 | Conventional | NS Offshore | | | | | | | |
| 419 | Conventional | NS Offshore | | | | | | | |
| 420 | Conventional | NS Offshore | | | | | | | |
| 421 | Conventional | NS Offshore | | | | | | | |
| 422 | Conventional | NS Offshore | | | | | | | |
| 423 | Conventional | NS Offshore | | | | | | | |
| 424 | Conventional | NS Offshore | | | | | | | |
| 425 | Conventional | NS Offshore | | | | | | | |
| 426 | Conventional | NS Offshore | | | | | | | |
| 427 | Conventional | NS Offshore | | | | | | | |
| 428 | Conventional | NS Offshore | | | | | | | |
| 429 | Conventional | NS Offshore | | | | | | | |
| 430 | Conventional | NS Offshore | | | | | | | |
| 431 | Conventional | NS Offshore | | | | | | | |
| 432 | Conventional | NS Offshore | | | | | | | |
| 433 | Conventional | NS Offshore | | | | | | | |
| 434 | Conventional | NS Offshore | | | | | | | |
| 435 | Conventional | NS Offshore | | | | | | | |
| 436 | Conventional | NS Offshore | | | | | | | |
| 437 | Conventional | NS Offshore | | | | | | | |
| 438 | Conventional | NS Offshore | | | | | | | |
| 439 | Conventional | NS Offshore | | | | | | | |
| 440 | Conventional | NS Offshore | | | | | | | |
| 441 | Conventional | NS Offshore | | | | | | | |
| 442 | Conventional | NS Offshore | | | | | | | |
| 443 | Conventional | NS Offshore | | | | | | | |
| 444 | Conventional | NS Offshore | | | | | | | |
| 445 | Conventional | NS Offshore | | | | | | | |
| 446 | Conventional | NS Offshore | | | | | | | |
| 447 | Conventional | NS Offshore | | | | | | | |
| 448 | Conventional | NS Offshore | | | | | | | |
| 449 | Conventional | NS Offshore | | | | | | | |
| 450 | Conventional | NS Offshore | | | | | | | |
| 451 | Conventional | NS Offshore | | | | | | | |
| 452 | Conventional | NS Offshore | | | | | | | |
| 453 | Conventional | NS Offshore | | | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's First Set of Data Requests DIV-4-4(b) Issued August 30, 2016 Page 13 of 13

| Column | А | В | С | D | E | F | G | н | I |
|--------|--------------|---------------------|------|-----|----------------|---------------|----------------|---------------|------------|
| Line # | Supply Type | Geographic Location | Time | Cnt | Supply Point 1 | Price Point 1 | Supply Point 2 | Price Point 2 | Elasticity |
| 454 | Conventional | NS Offshore | | | | | | | |
| 455 | Conventional | NS Offshore | | | | | | | |
| 456 | Conventional | NS Offshore | | | | | | | |
| 457 | Conventional | NS Offshore | | | | | | | |
| 458 | Conventional | NS Offshore | | | | | | | |
| 459 | Conventional | NS Offshore | | | | | | | |
| 460 | Conventional | NS Offshore | | | | | | | |
| 461 | Conventional | NS Offshore | | | | | | | |
| 462 | Conventional | NS Offshore | | | | | | | |
| 463 | Conventional | NS Offshore | | | | | | | |
| 464 | Conventional | NS Offshore | | | | | | | |
| 465 | Conventional | NS Offshore | | | | | | | |
| 466 | Conventional | NS Offshore | | | | | | | |
| 467 | Conventional | NS Offshore | | | | | | | |
| 468 | Conventional | NS Offshore | | | | | | | |
| 469 | Conventional | NS Offshore | | | | | | | |
| 470 | Conventional | NS Offshore | | | | | | | |
| 471 | Conventional | NS Offshore | | | | | | | |
| 472 | Conventional | NS Offshore | | | | | | | |
| 473 | Conventional | NS Offshore | | | | | | | |
| 474 | Conventional | NS Offshore | | | | | | | |
| 475 | Conventional | NS Offshore | | | | | | | |
| 476 | Conventional | NS Offshore | | | | | | | |
| 477 | Conventional | NS Offshore | | | | | | | |
| 478 | Conventional | NS Offshore | | | | | | | |
| 479 | Conventional | NS Offshore | | | | | | | |
| 480 | Conventional | NS Offshore | | | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 National Grid's Request for Approval Of a Gas Capacity Contract and Cost Recovery Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests Issued August 30, 2016 Page 1 of 2

Division 4-7 (Supp.)

Request:

Please provide live excel spreadsheets with all inputs and calculations intact that contain the following information as iJt was used or produced by B&V in its evaluation of the ANE project.

- a) Natural gas demand outputs monthly from GPCM for New England (aggregated or by state), separated by residential/commercial (LDC), industrial, and electric generation sectors for each scenarios and/or sensitivity analyzed by B&V.
- b) Prices assumed at National Balancing Point ("NBP") monthly and the "inframarginal" prices used in GPCM at Canaport and Everett for each scenarios and/or sensitivity analyzed by B&V.
- c) Residual fuel oil prices (NY Harbor Heating Oil No. 2) monthly, used as an input in the PROMOD and GPCM iterative process for each scenarios and/or sensitivity analyzed by B&V, if one was not used can you briefly describe the process or assumptions relating to fuel switching.
- d) The outputs for the gas pipeline flows monthly into New England on the following pipelines from GPCM (or the closest approximation to each point in the B&V model) for each scenarios and/or sensitivity analyzed by B&V (in MMCf/d).
 - i. Flows from New York to Connecticut on Algonquin Gas Transmission
 - ii. Flows from New York to Massachusetts on the 200 Line of Tennessee Gas Pipeline
 - iii. Flows on the Iroquois Pipeline that are delivered to customers in Connecticut and the net receipts onto Iroquois at the Brookfield interconnect with Algonquin.
 - iv. Flows on the Portland Natural Gas pipeline (imports or exports).
 - v. Flows on the Maritimes and North East Pipeline (imports or exports) net of the Canaport LNG imports.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 National Grid's Request for Approval Of a Gas Capacity Contract and Cost Recovery Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests Issued August 30, 2016

Response:

- a) Please see Attachment DIV-4-7(a) for the monthly outputs by sector for the Reference Case, Sensitivity Reference Case A and Sensitivity Reference Case B. The With ANE scenarios generally did not impact the monthly demand outputs.
- b) Black & Veatch did not make any assumptions regarding the projected National Balancing Point (NBP) monthly prices. The inframarginal costs do not exceed \$3.50/MMBtu (2015\$) over the analysis period.
- c) Please see Attachment OER-5-3(a) (Highly Sensitive Confidential Information) for the monthly liquid fuel prices used in the PROMOD analysis. These prices remained constant for all scenarios.
- d) Please see Exhibit AG-4-2 filed by the Company's Massachusetts affiliates in D.P.U. 16-05 for the requested information above. This exhibit was provided in response to Data Request PUC 11. The Company will supplement this part of the response with additional information by Friday, September 16, 2016.

Supplemental Response:

d) Please see Attachment DIV 4-7(b) (Highly Sensitive Confidential Information) for the requested information.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 1 of 46

| Column | А | В | С | D | E | F |
|----------|------------------|-----------|-----------|----------|------------------|-------------|
| | | | | | | |
| | | | | | Portland Natural | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 1 | Jan-19 | | | | | |
| 2 | Feb-19 | | | | | |
| 3 | Mar-19 | | | | | |
| 4 | Apr-19 | | | | | |
| 5 | May-19 | | | | | |
| 6 | Jun-19 | | | | | |
| 7 | Jul-19 | | | | | |
| 8 | Aug-19 | | | | | |
| 9 | Sep-19 | | | | | |
| 10 | Oct-19 | | | | | |
| 11 | Nov-19 | | | | | |
| 12 | Dec-19 | | | | | |
| 13 | Jan-20 | | | | | |
| 14 | Feb-20 | | | | | |
| 15 16 | Mar-20 | | | | | |
| 16 | Apr-20 | | | | | |
| 17 18 | May-20 Jun-20 | | | | | |
| 18 19 | Jul-20 Jul-20 | | | | | |
| 20 | Aug-20 | | | | | |
| 20 | Sep-20 | | | | | |
| 22 | Oct-20 | | | | | |
| 23 | Nov-20 | | | | | |
| 24 | Dec-20 | | | | | |
| 25 | Jan-21 | | | | | |
| 26 | Feb-21 | | | | | |
| 27 | Mar-21 | | | | | |
| 28 | Apr-21 | | | | | |
| 29 | May-21 | | | | | |
| 30 | Jun-21 | | | | | |
| 31 | Jul-21 | | | | | |
| 32 | Aug-21 | | | | | |
| 33 | Sep-21 | | | | | |
| 34 | Oct-21 | | | | | |
| 35 | Nov-21 | | | | | |

REDACTED The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 2 of 46 Ε F Column А В С D

| | | | | | Portland Natural | Maritimes & |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 36 | Dec-21 | | | | | |
| 37 | Jan-22 | | | | | |
| 38 | Feb-22 | | | | | |
| 39 | Mar-22 | | | | | |
| 40 | Apr-22 | | | | | |
| 41 | May-22 | | | | | |
| 42 | Jun-22 | | | | | |
| 43 | Jul-22 | | | | | |
| 44 | Aug-22 | | | | | |
| 45 | Sep-22 | | | | | |
| 46 | Oct-22 | | | | | |
| 47 | Nov-22 | | | | | |
| 48 | Dec-22 | | | | | |
| 49 | Jan-23 | | | | | |
| 50 | Feb-23 | | | | | |
| 51 | Mar-23 | | | | | |
| 52 | Apr-23 | | | | | |
| 53 | May-23 | | | | | |
| 54 | Jun-23 | | | | | |
| 55 | Jul-23 | | | | | |
| 56 | Aug-23 | | | | | |
| 57 | Sep-23 | | | | | |
| 58 | Oct-23 | | | | | |
| 59 | Nov-23 | | | | | |
| 60 | Dec-23 | | | | | |
| 61 | Jan-24 | | | | | |
| 62 | Feb-24 | | | | | |
| 63 | Mar-24 | | | | | |
| 64 | Apr-24 | | | | | |
| 65 | May-24 | | | | | |
| 66 | Jun-24 | | | | | |
| 67 | Jul-24 | | | | | |
| 68 | Aug-24 | | | | | |
| 69 | Sep-24 | | | | | |
| 70 | Oct-24 | | | | | |
| 71 | Nov-24 | | | | | |
| 72 | Dec-24 | | | | | |
| 73 | Jan-25 | | | | | |

REDACTED The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 3 of 46 Ε F Column А В С D

| 1 | T | | - | | Portland Natural | Maritimes & |
|----------|------------------|-----------|-----------|----------|------------------|-------------|
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 74 75 | Feb-25 | | | | | |
| 75 76 | Mar-25 | | | | | |
| 76 | Apr-25 | | | | | |
| | May-25 | | | | | |
| 78 79 | Jun-25 Jul-25 | | | | | |
| 79 80 | Aug-25 | | | | | |
| 80 81 | Sep-25 | | | | | |
| 81 | Oct-25 | | | | | |
| 83 | Nov-25 | | | | | |
| 84 | Dec-25 | | | | | |
| 85 | Jan-26 | | | | | |
| 86 | Feb-26 | | | | | |
| 87 | Mar-26 | | | | | |
| 88 | Apr-26 | | | | | |
| 89 | May-26 | | | | | |
| 90 | , Jun-26 | | | | | |
| 91 | Jul-26 | | | | | |
| 92 | Aug-26 | | | | | |
| 93 | Sep-26 | | | | | |
| 94 | Oct-26 | | | | | |
| 95 | Nov-26 | | | | | |
| 96 | Dec-26 | | | | | |
| 97 | Jan-27 | | | | | |
| 98 | Feb-27 | | | | | |
| 99 | Mar-27 | | | | | |
| 100 | Apr-27 | | | | | |
| 101 | May-27 | | | | | |
| 102 | Jun-27 | | | | | |
| 103 | Jul-27 | | | | | |
| 104 | Aug-27 | | | | | |
| 105 | Sep-27 | | | | | |
| 106 | Oct-27 | | | | | |
| 107 | Nov-27 | | | | | |
| 108 | Dec-27 | | | | | |
| 109 | Jan-28 | | | | | |
| 110 | Feb-28 | | | | | |
| 111 | Mar-28 | | | | | |

REDACTED The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 4 of 46 Ε F Column А В С D

| | | | _ | | Portland Natural | Maritimes & |
|------------|------------------|-----------|-----------|----------|------------------|-------------|
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 112 | Apr-28 | | | | | |
| 113 | May-28 | | | | | |
| 114 | Jun-28 | | | | | |
| 115 | Jul-28 | | | | | |
| 116 | Aug-28 | | | | | |
| 117 | Sep-28 | | | | | |
| 118 | Oct-28 | | | | | |
| 119 | Nov-28 | | | | | |
| 120 | Dec-28 | | | | | |
| 121 | Jan-29 | | | | | |
| 122 | Feb-29 | | | | | |
| 123 124 | Mar-29 | | | | | |
| 124 | Apr-29 May-29 | | | | | |
| 125 | Jun-29 | | | | | |
| 120 | Jul-29 | | | | | |
| 127 | Aug-29 | | | | | |
| 120 | Sep-29 | | | | | |
| 130 | Oct-29 | | | | | |
| 131 | Nov-29 | | | | | |
| 132 | Dec-29 | | | | | |
| 133 | Jan-30 | | | | | |
| 134 | Feb-30 | | | | | |
| 135 | Mar-30 | | | | | |
| 136 | Apr-30 | | | | | |
| 137 | May-30 | | | | | |
| 138 | Jun-30 | | | | | |
| 139 | Jul-30 | | | | | |
| 140 | Aug-30 | | | | | |
| 141 | Sep-30 | | | | | |
| 142 | Oct-30 | | | | | |
| 143 | Nov-30 | | | | | |
| 144 | Dec-30 | | | | | |
| 145 | Jan-31 | | | | | |
| 146 | Feb-31 | | | | | |
| 147 | Mar-31 | | | | | |
| 148 | Apr-31 | | | | | |
| 149 | May-31 | | | | | |

REDACTED The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 5 of 46 Ε F Column А В С D

| | | | | | Portland Natural | Maritimes & |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 150 | Jun-31 | | | | | |
| 151 | Jul-31 | | | | | |
| 152 | Aug-31 | | | | | |
| 153 | Sep-31 | | | | | |
| 154 | Oct-31 | | | | | |
| 155 | Nov-31 | | | | | |
| 156 | Dec-31 | | | | | |
| 157 | Jan-32 | | | | | |
| 158 | Feb-32 | | | | | |
| 159 | Mar-32 | | | | | |
| 160 | Apr-32 | | | | | |
| 161 | May-32 | | | | | |
| 162 | Jun-32 | | | | | |
| 163 | Jul-32 | | | | | |
| 164 | Aug-32 | | | | | |
| 165 | Sep-32 | | | | | |
| 166 | Oct-32 | | | | | |
| 167 | Nov-32 | | | | | |
| 168 | Dec-32 | | | | | |
| 169 | Jan-33 | | | | | |
| 170 | Feb-33 | | | | | |
| 171 | Mar-33 | | | | | |
| 172 | Apr-33 | | | | | |
| 173 | May-33 | | | | | |
| 174 | Jun-33 | | | | | |
| 175 | Jul-33 | | | | | |
| 176 | Aug-33 | | | | | |
| 177 | Sep-33 | | | | | |
| 178 | Oct-33 | | | | | |
| 179 | Nov-33 | | | | | |
| 180 | Dec-33 | | | | | |
| 181 | Jan-34 | | | | | |
| 182 | Feb-34 | | | | | |
| 183 | Mar-34 | | | | | |
| 184 | Apr-34 | | | | | |
| 185 | May-34 | | | | | |
| 186 | Jun-34 | | | | | |
| 187 | Jul-34 | | | | | |

REDACTED The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 6 of 46 Ε F Column А В С D

| | | | | | Portland Natural | Maritimes & |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 188 | Aug-34 | | | | | |
| 189 | Sep-34 | | | | | |
| 190 | Oct-34 | | | | | |
| 191 | Nov-34 | | | | | |
| 192 | Dec-34 | | | | | |
| 193 | Jan-35 | | | | | |
| 194 | Feb-35 | | | | | |
| 195 | Mar-35 | | | | | |
| 196 | Apr-35 | | | | | |
| 197 | May-35 | | | | | |
| 198 | Jun-35 | | | | | |
| 199 | Jul-35 | | | | | |
| 200 | Aug-35 | | | | | |
| 201 | Sep-35 | | | | | |
| 202 | Oct-35 | | | | | |
| 203 | Nov-35 | | | | | |
| 204 | Dec-35 | | | | | |
| 205 | Jan-36 | | | | | |
| 206 | Feb-36 | | | | | |
| 207 | Mar-36 | | | | | |
| 208 | Apr-36 | | | | | |
| 209 | May-36 | | | | | |
| 210 | Jun-36 | | | | | |
| 211 | Jul-36 | | | | | |
| 212 | Aug-36 | | | | | |
| 213 | Sep-36 | | | | | |
| 214 | Oct-36 | | | | | |
| 215 | Nov-36 | | | | | |
| 216 | Dec-36 | | | | | |
| 217 | Jan-37 | | | | | |
| 218 | Feb-37 | | | | | |
| 219 | Mar-37 | | | | | |
| 220 | Apr-37 | | | | | |
| 221 | May-37 | | | | | |
| 222 | Jun-37 | | | | | |
| 223 | Jul-37 | | | | | |
| 224 | Aug-37 | | | | | |
| 225 | Sep-37 | | | | | |

| | | | REDACTED | | The Narragans | ett Electric Company | | |
|--------|---|---|---|----------|-------------------------|----------------------|--|--|
| | | | | | | d/b/a National Grid | | |
| | | | | | RIF | PUC Docket No. 4627 | | |
| | | | Pursuant to R.I. Gen. Laws § 39-31-1 to 9 | | | | | |
| | | | | Response | es to Division's Fourth | Set of Data Requests | | |
| | | | | | | DIV-4-7(b) HSCI | | |
| | | | | | lss | ued August 30, 2016 | | |
| | | | | | | Page 7 of 46 | | |
| Column | А | В | С | D | E | F | | |

| | | | | | Portland Natural | Maritimes & |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| Line # | Time | Algonauin | Tennessee | Iroauois | Gas | Northeast |
| 226 | Oct-37 | | | | | |
| 227 | Nov-37 | | | | | |
| 228 | Dec-37 | | | | | |
| 229 | Jan-38 | | | | | |
| 230 | Feb-38 | | | | | |
| 231 | Mar-38 | | | | | |
| 232 | Apr-38 | | | | | |
| 233 | May-38 | | | | | |
| 234 | Jun-38 | | | | | |
| 235 | Jul-38 | | | | | |
| 236 | Aug-38 | | | | | |
| 237 | Sep-38 | | | | | |
| 238 | Oct-38 | | | | | |
| 239 | Nov-38 | | | | | |
| 240 | Dec-38 | | | | | |
| | | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 8 of 46

| Column | А | В | С | D | E Portland | F Maritimes & |
|--------|--------|-----------|-----------|----------|---------------|------------------|
| Line # | Time | Algonquin | Tennessee | Iroquois | Natural Gas | Northeast |
| 1 | Jan-19 | | | • | | |
| 2 | Feb-19 | | | | | |
| 3 | Mar-19 | | | | | |
| 4 | Apr-19 | | | | | |
| 5 | May-19 | | | | | |
| 6 | Jun-19 | | | | | |
| 7 | Jul-19 | | | | | |
| 8 | Aug-19 | | | | | |
| 9 | Sep-19 | | | | | |
| 10 | Oct-19 | | | | | |
| 11 | Nov-19 | | | | | |
| 12 | Dec-19 | | | | | |
| 13 | Jan-20 | | | | | |
| 14 | Feb-20 | | | | | |
| 15 | Mar-20 | | | | | |
| 16 | Apr-20 | | | | | |
| 17 | May-20 | | | | | |
| 18 | Jun-20 | | | | | |
| 19 | Jul-20 | | | | | |
| 20 | Aug-20 | | | | | |
| 21 | Sep-20 | | | | | |
| 22 | Oct-20 | | | | | |
| 23 | Nov-20 | | | | | |
| 24 | Dec-20 | | | | | |
| 25 | Jan-21 | | | | | |
| 26 | Feb-21 | | | | | |
| 27 | Mar-21 | | | | | |
| 28 | Apr-21 | | | | | |
| 29 | May-21 | | | | | |
| 30 | Jun-21 | | | | | |
| 31 | Jul-21 | | | | | |
| 32 | Aug-21 | | | | | |
| 33 | Sep-21 | | | | | |
| 34 | Oct-21 | | | | | |
| 35 | Nov-21 | | | | | |
| 36 | Dec-21 | | | | | |
| 37 | Jan-22 | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 9 of 46

| Column | А | В | С | D | E | F |
|----------|-------------|-----------|-----------|----------|-------------------------|--------------------------|
| Line # | Time | Algonquin | Tennessee | Iroquois | Portland Natural Gas | Maritimes & Northeast |
| 38 | Feb-22 | 0- 1- | | | | |
| 39 | Mar-22 | | | | | |
| 40 | Apr-22 | | | | | |
| 41 | May-22 | | | | | |
| 42 | , Jun-22 | | | | | |
| 43 | Jul-22 | | | | | |
| 44 | Aug-22 | | | | | |
| 45 | Sep-22 | | | | | |
| 46 | Oct-22 | | | | | |
| 47 | Nov-22 | | | | | |
| 48 | Dec-22 | | | | | |
| 49 | Jan-23 | | | | | |
| 50 | Feb-23 | | | | | |
| 51 | Mar-23 | | | | | |
| 52 | Apr-23 | | | | | |
| 53 | May-23 | | | | | |
| 54 | Jun-23 | | | | | |
| 55 | Jul-23 | | | | | |
| 56 | Aug-23 | | | | | |
| 57 | Sep-23 | | | | | |
| 58 | Oct-23 | | | | | |
| 59 | Nov-23 | | | | | |
| 60 | Dec-23 | | | | | |
| 61 | Jan-24 | | | | | |
| 62 | Feb-24 | | | | | |
| 63 | Mar-24 | | | | | |
| 64 | Apr-24 | | | | | |
| 65 | May-24 | | | | | |
| 66 | Jun-24 | | | | | |
| 67 | Jul-24 | | | | | |
| 68 | Aug-24 | | | | | |
| 69 | Sep-24 | | | | | |
| 70 | Oct-24 | | | | | |
| 71 | Nov-24 | | | | | |
| 72 | Dec-24 | | | | | |
| 73 | Jan-25 | | | | | |
| 74 | Feb-25 | | | | | |
| 75 | Mar-25 | | | | | |
| 76 77 | Apr-25 | | | | | |
| 77 | May-25 | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 10 of 46

| Column | А | В | С | D | E | F |
|--------|--------|-----------|-----------|----------|-------------------------|--------------------------|
| Line # | Time | Algonquin | Tennessee | Iroquois | Portland Natural Gas | Maritimes & Northeast |
| 78 | Jun-25 | | | | | |
| 79 | Jul-25 | | | | | |
| 80 | Aug-25 | | | | | |
| 81 | Sep-25 | | | | | |
| 82 | Oct-25 | | | | | |
| 83 | Nov-25 | | | | | |
| 84 | Dec-25 | | | | | |
| 85 | Jan-26 | | | | | |
| 86 | Feb-26 | | | | | |
| 87 | Mar-26 | | | | | |
| 88 | Apr-26 | | | | | |
| 89 | May-26 | | | | | |
| 90 | Jun-26 | | | | | |
| 91 | Jul-26 | | | | | |
| 92 | Aug-26 | | | | | |
| 93 | Sep-26 | | | | | |
| 94 | Oct-26 | | | | | |
| 95 | Nov-26 | | | | | |
| 96 | Dec-26 | | | | | |
| 97 | Jan-27 | | | | | |
| 98 | Feb-27 | | | | | |
| 99 | Mar-27 | | | | | |
| 100 | Apr-27 | | | | | |
| 101 | May-27 | | | | | |
| 102 | Jun-27 | | | | | |
| 103 | Jul-27 | | | | | |
| 104 | Aug-27 | | | | | |
| 105 | Sep-27 | | | | | |
| 106 | Oct-27 | | | | | |
| 107 | Nov-27 | | | | | |
| 108 | Dec-27 | | | | | |
| 109 | Jan-28 | | | | | |
| 110 | Feb-28 | | | | | |
| 111 | Mar-28 | | | | | |
| 112 | Apr-28 | | | | | |
| 113 | May-28 | | | | | |
| 114 | Jun-28 | | | | | |
| 115 | Jul-28 | | | | | |
| 116 | Aug-28 | | | | | |
| 117 | Sep-28 | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 11 of 46

| Column | А | В | С | D | E | F Maritimas 8 |
|--------|-------------|-------------|-----------|----------|-------------------------|--------------------------|
| Line # | Time | Algonquin | Tennessee | Iroquois | Portland Natural Gas | Maritimes & Northeast |
| 118 | Oct-28 | , "Bouldani | Termessee | noquois | | Northeast |
| 119 | Nov-28 | | | | | |
| 120 | Dec-28 | | | | | |
| 121 | Jan-29 | | | | | |
| 122 | Feb-29 | | | | | |
| 123 | Mar-29 | | | | | |
| 124 | Apr-29 | | | | | |
| 125 | May-29 | | | | | |
| 126 | , Jun-29 | | | | | |
| 127 | Jul-29 | | | | | |
| 128 | Aug-29 | | | | | |
| 129 | Sep-29 | | | | | |
| 130 | Oct-29 | | | | | |
| 131 | Nov-29 | | | | | |
| 132 | Dec-29 | | | | | |
| 133 | Jan-30 | | | | | |
| 134 | Feb-30 | | | | | |
| 135 | Mar-30 | | | | | |
| 136 | Apr-30 | | | | | |
| 137 | May-30 | | | | | |
| 138 | Jun-30 | | | | | |
| 139 | Jul-30 | | | | | |
| 140 | Aug-30 | | | | | |
| 141 | Sep-30 | | | | | |
| 142 | Oct-30 | | | | | |
| 143 | Nov-30 | | | | | |
| 144 | Dec-30 | | | | | |
| 145 | Jan-31 | | | | | |
| 146 | Feb-31 | | | | | |
| 147 | Mar-31 | | | | | |
| 148 | Apr-31 | | | | | |
| 149 | May-31 | | | | | |
| 150 | Jun-31 | | | | | |
| 151 | Jul-31 | | | | | |
| 152 | Aug-31 | | | | | |
| 153 | Sep-31 | | | | | |
| 154 | Oct-31 | | | | | |
| 155 | Nov-31 | | | | | |
| 156 | Dec-31 | | | | | |
| 157 | Jan-32 | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 12 of 46

| Column | А | В | С | D | E | F Maritimaa 8 |
|--------|--------|-------------|-----------|----------|-------------------------|--------------------------|
| Line # | Time | Algonquin | Tennessee | Iroquois | Portland Natural Gas | Maritimes & Northeast |
| 158 | Feb-32 | , "Bouldani | Termessee | noquois | | Northeast |
| 159 | Mar-32 | | | | | |
| 160 | Apr-32 | | | | | |
| 161 | May-32 | | | | | |
| 162 | Jun-32 | | | | | |
| 163 | Jul-32 | | | | | |
| 164 | Aug-32 | | | | | |
| 165 | Sep-32 | | | | | |
| 166 | Oct-32 | | | | | |
| 167 | Nov-32 | | | | | |
| 168 | Dec-32 | | | | | |
| 169 | Jan-33 | | | | | |
| 170 | Feb-33 | | | | | |
| 171 | Mar-33 | | | | | |
| 172 | Apr-33 | | | | | |
| 173 | May-33 | | | | | |
| 174 | Jun-33 | | | | | |
| 175 | Jul-33 | | | | | |
| 176 | Aug-33 | | | | | |
| 177 | Sep-33 | | | | | |
| 178 | Oct-33 | | | | | |
| 179 | Nov-33 | | | | | |
| 180 | Dec-33 | | | | | |
| 181 | Jan-34 | | | | | |
| 182 | Feb-34 | | | | | |
| 183 | Mar-34 | | | | | |
| 184 | Apr-34 | | | | | |
| 185 | May-34 | | | | | |
| 186 | Jun-34 | | | | | |
| 187 | Jul-34 | | | | | |
| 188 | Aug-34 | | | | | |
| 189 | Sep-34 | | | | | |
| 190 | Oct-34 | | | | | |
| 191 | Nov-34 | | | | | |
| 192 | Dec-34 | | | | | |
| 193 | Jan-35 | | | | | |
| 194 | Feb-35 | | | | | |
| 195 | Mar-35 | | | | | |
| 196 | Apr-35 | | | | | |
| 197 | May-35 | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 13 of 46

| Column | А | В | С | D | E | F |
|--------|--------|------------|-----------|----------|-------------------------|--------------------------|
| Line # | Time | Algonquin | Tennessee | Iroquois | Portland Natural Gas | Maritimes & Northeast |
| 198 | Jun-35 | / igonquin | Termessee | noquois | Natural Gas | Northeast |
| 199 | Jul-35 | | | | | |
| 200 | Aug-35 | | | | | |
| 200 | Sep-35 | | | | | |
| 201 | Oct-35 | | | | | |
| 202 | Nov-35 | | | | | |
| 203 | Dec-35 | | | | | |
| 205 | Jan-36 | | | | | |
| 205 | Feb-36 | | | | | |
| 207 | Mar-36 | | | | | |
| 208 | Apr-36 | | | | | |
| 209 | May-36 | | | | | |
| 210 | Jun-36 | | | | | |
| 211 | Jul-36 | | | | | |
| 212 | Aug-36 | | | | | |
| 213 | Sep-36 | | | | | |
| 214 | Oct-36 | | | | | |
| 215 | Nov-36 | | | | | |
| 216 | Dec-36 | | | | | |
| 217 | Jan-37 | | | | | |
| 218 | Feb-37 | | | | | |
| 219 | Mar-37 | | | | | |
| 220 | Apr-37 | | | | | |
| 221 | May-37 | | | | | |
| 222 | Jun-37 | | | | | |
| 223 | Jul-37 | | | | | |
| 224 | Aug-37 | | | | | |
| 225 | Sep-37 | | | | | |
| 226 | Oct-37 | | | | | |
| 227 | Nov-37 | | | | | |
| 228 | Dec-37 | | | | | |
| 229 | Jan-38 | | | | | |
| 230 | Feb-38 | | | | | |
| 231 | Mar-38 | | | | | |
| 232 | Apr-38 | | | | | |
| 233 | May-38 | | | | | |
| 234 | Jun-38 | | | | | |
| 235 | Jul-38 | | | | | |
| 236 | Aug-38 | | | | | |
| 237 | Sep-38 | | | | | |

REDACTEDThe Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4627Pursuant to R.I. Gen. Laws § 39-31-1 to 9Responses to Division's Fourth Set of Data Requests
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Issued August 30, 2016
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| Column | А | В | С | D | E | F | |
|--------|--------|-----------|-----------|----------|-------------|-------------|--|
| | | | | | Portland | Maritimes & | |
| Line # | Time | Algonquin | Tennessee | Iroquois | Natural Gas | Northeast | |
| 238 | Oct-38 | | | | | | |
| 239 | Nov-38 | | | | | | |
| 240 | Dec-38 | | | | | | |
| | | | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 15 of 46

| Column | А | В | С | D | E | F |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| | | | | | Portland Natural | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 1 | Jan-19 | | | | | |
| 2 | Feb-19 | | | | | |
| 3 | Mar-19 | | | | | |
| 4 | Apr-19 | | | | | |
| 5 | May-19 | | | | | |
| 6 | Jun-19 | | | | | |
| 7 | Jul-19 | | | | | |
| 8 | Aug-19 | | | | | |
| 9 | Sep-19 | | | | | |
| 10 | Oct-19 | | | | | |
| 11 | Nov-19 | | | | | |
| 12 | Dec-19 | | | | | |
| 13 | Jan-20 | | | | | |
| 14 | Feb-20 | | | | | |
| 15 | Mar-20 | | | | | |
| 16 | Apr-20 | | | | | |
| 17 | May-20 | | | | | |
| 18 | Jun-20 | | | | | |
| 19 | Jul-20 | | | | | |
| 20 | Aug-20 | | | | | |
| 21 | Sep-20 | | | | | |
| 22 | Oct-20 | | | | | |
| 23 | Nov-20 | | | | | |
| 24 | Dec-20 | | | | | |
| 25 | Jan-21 | | | | | |
| 26 | Feb-21 | | | | | |
| 27 | Mar-21 | | | | | |
| 28 | Apr-21 | | | | | |
| 29 | May-21 | | | | | |
| 30 | Jun-21 | | | | | |
| 31 | Jul-21 | | | | | |
| 32 | Aug-21 | | | | | |
| 33 | Sep-21 | | | | | |
| 34 | Oct-21 | | | | | |
| 35 | Nov-21 | | | | | |
| 36 | Dec-21 | | | | | |
| 37 | Jan-22 | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 16 of 46

| Column | А | В | С | D | E | F |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| | | | | | Portland Natural | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 38 | Feb-22 | | | | | |
| 39 | Mar-22 | | | | | |
| 40 | Apr-22 | | | | | |
| 41 | May-22 | | | | | |
| 42 | Jun-22 | | | | | |
| 43 | Jul-22 | | | | | |
| 44 | Aug-22 | | | | | |
| 45 | Sep-22 | | | | | |
| 46 | Oct-22 | | | | | |
| 47 | Nov-22 | | | | | |
| 48 | Dec-22 | | | | | |
| 49 | Jan-23 | | | | | |
| 50 | Feb-23 | | | | | |
| 51 | Mar-23 | | | | | |
| 52 | Apr-23 | | | | | |
| 53 | May-23 | | | | | |
| 54 | Jun-23 | | | | | |
| 55 | Jul-23 | | | | | |
| 56 | Aug-23 | | | | | |
| 57 | Sep-23 | | | | | |
| 58 | Oct-23 | | | | | |
| 59 | Nov-23 | | | | | |
| 60 | Dec-23 | | | | | |
| 61 | Jan-24 | | | | | |
| 62 | Feb-24 | | | | | |
| 63 | Mar-24 | | | | | |
| 64 | Apr-24 | | | | | |
| 65 | May-24 | | | | | |
| 66 | Jun-24 | | | | | |
| 67 | Jul-24 | | | | | |
| 68 | Aug-24 | | | | | |
| 69 | Sep-24 | | | | | |
| 70 | Oct-24 | | | | | |
| 71 | Nov-24 | | | | | |
| 72 | Dec-24 | | | | | |
| 73 | Jan-25 | | | | | |
| 74 | Feb-25 | | | | | |
| 75 | Mar-25 | | | | | |
| 76 | Apr-25 | | | | | |
| 77 | May-25 | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 17 of 46

| Column | А | В | С | D | E | F |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| | | | | | Portland Natural | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 78 | Jun-25 | | | | | |
| 79 | Jul-25 | | | | | |
| 80 | Aug-25 | | | | | |
| 81 | Sep-25 | | | | | |
| 82 | Oct-25 | | | | | |
| 83 | Nov-25 | | | | | |
| 84 | Dec-25 | | | | | |
| 85 | Jan-26 | | | | | |
| 86 | Feb-26 | | | | | |
| 87 | Mar-26 | | | | | |
| 88 | Apr-26 | | | | | |
| 89 | May-26 | | | | | |
| 90 | Jun-26 | | | | | |
| 91 | Jul-26 | | | | | |
| 92 | Aug-26 | | | | | |
| 93 | Sep-26 | | | | | |
| 94 | Oct-26 | | | | | |
| 95 | Nov-26 | | | | | |
| 96 | Dec-26 | | | | | |
| 97 | Jan-27 | | | | | |
| 98 | Feb-27 | | | | | |
| 99 | Mar-27 | | | | | |
| 100 | Apr-27 | | | | | |
| 101 | May-27 | | | | | |
| 102 | Jun-27 | | | | | |
| 103 | Jul-27 | | | | | |
| 104 | Aug-27 | | | | | |
| 105 | Sep-27 | | | | | |
| 106 | Oct-27 | | | | | |
| 107 | Nov-27 | | | | | |
| 108 | Dec-27 | | | | | |
| 109 | Jan-28 | | | | | |
| 110 | Feb-28 | | | | | |
| 111 | Mar-28 | | | | | |
| 112 | Apr-28 | | | | | |
| 113 | May-28 | | | | | |
| 114 | Jun-28 | | | | | |
| 115 | Jul-28 | | | | | |
| 116 | Aug-28 | | | | | |
| 117 | Sep-28 | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 18 of 46

| Column | А | В | С | D | E | F |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| | | | | | Portland Natural | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 118 | Oct-28 | | | | | |
| 119 | Nov-28 | | | | | |
| 120 | Dec-28 | | | | | |
| 121 | Jan-29 | | | | | |
| 122 | Feb-29 | | | | | |
| 123 | Mar-29 | | | | | |
| 124 | Apr-29 | | | | | |
| 125 | May-29 | | | | | |
| 126 | Jun-29 | | | | | |
| 127 | Jul-29 | | | | | |
| 128 | Aug-29 | | | | | |
| 129 | Sep-29 | | | | | |
| 130 | Oct-29 | | | | | |
| 131 | Nov-29 | | | | | |
| 132 | Dec-29 | | | | | |
| 133 | Jan-30 | | | | | |
| 134 | Feb-30 | | | | | |
| 135 | Mar-30 | | | | | |
| 136 | Apr-30 | | | | | |
| 137 | May-30 | | | | | |
| 138 | Jun-30 | | | | | |
| 139 | Jul-30 | | | | | |
| 140 | Aug-30 | | | | | |
| 141 | Sep-30 | | | | | |
| 142 | Oct-30 | | | | | |
| 143 | Nov-30 | | | | | |
| 144 | Dec-30 | | | | | |
| 145 | Jan-31 | | | | | |
| 146 | Feb-31 | | | | | |
| 147 | Mar-31 | | | | | |
| 148 | Apr-31 | | | | | |
| 149 | May-31 | | | | | |
| 150 | Jun-31 | | | | | |
| 151 | Jul-31 | | | | | |
| 152 | Aug-31 | | | | | |
| 153 | Sep-31 | | | | | |
| 154 | Oct-31 | | | | | |
| 155 | Nov-31 | | | | | |
| 156 | Dec-31 | | | | | |
| 157 | Jan-32 | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 19 of 46

| Column | А | В | С | D | E | F |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| | | | | | Portland Natural | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 158 | Feb-32 | | | | | |
| 159 | Mar-32 | | | | | |
| 160 | Apr-32 | | | | | |
| 161 | May-32 | | | | | |
| 162 | Jun-32 | | | | | |
| 163 | Jul-32 | | | | | |
| 164 | Aug-32 | | | | | |
| 165 | Sep-32 | | | | | |
| 166 | Oct-32 | | | | | |
| 167 | Nov-32 | | | | | |
| 168 | Dec-32 | | | | | |
| 169 | Jan-33 | | | | | |
| 170 | Feb-33 | | | | | |
| 171 | Mar-33 | | | | | |
| 172 | Apr-33 | | | | | |
| 173 | May-33 | | | | | |
| 174 | Jun-33 | | | | | |
| 175 | Jul-33 | | | | | |
| 176 | Aug-33 | | | | | |
| 177 | Sep-33 | | | | | |
| 178 | Oct-33 | | | | | |
| 179 | Nov-33 | | | | | |
| 180 | Dec-33 | | | | | |
| 181 | Jan-34 | | | | | |
| 182 | Feb-34 | | | | | |
| 183 | Mar-34 | | | | | |
| 184 | Apr-34 | | | | | |
| 185 | May-34 | | | | | |
| 186 | Jun-34 | | | | | |
| 187 | Jul-34 | | | | | |
| 188 | Aug-34 | | | | | |
| 189 | Sep-34 | | | | | |
| 190 | Oct-34 | | | | | |
| 191 | Nov-34 | | | | | |
| 192 | Dec-34 | | | | | |
| 193 | Jan-35 | | | | | |
| 194 | Feb-35 | | | | | |
| 195 | Mar-35 | | | | | |
| 196 | Apr-35 | | | | | |
| 197 | May-35 | | | | | |
| | | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 20 of 46

| Column | А | В | С | D | E | F |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| | | | | | Portland Natural | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 198 | Jun-35 | | | | | |
| 199 | Jul-35 | | | | | |
| 200 | Aug-35 | | | | | |
| 201 | Sep-35 | | | | | |
| 202 | Oct-35 | | | | | |
| 203 | Nov-35 | | | | | |
| 204 | Dec-35 | | | | | |
| 205 | Jan-36 | | | | | |
| 206 | Feb-36 | | | | | |
| 207 | Mar-36 | | | | | |
| 208 | Apr-36 | | | | | |
| 209 | May-36 | | | | | |
| 210 | Jun-36 | | | | | |
| 211 | Jul-36 | | | | | |
| 212 | Aug-36 | | | | | |
| 213 | Sep-36 | | | | | |
| 214 | Oct-36 | | | | | |
| 215 | Nov-36 | | | | | |
| 216 | Dec-36 | | | | | |
| 217 | Jan-37 | | | | | |
| 218 | Feb-37 | | | | | |
| 219 | Mar-37 | | | | | |
| 220 | Apr-37 | | | | | |
| 221 | May-37 | | | | | |
| 222 | Jun-37 | | | | | |
| 223 | Jul-37 | | | | | |
| 224 | Aug-37 | | | | | |
| 225 | Sep-37 | | | | | |
| 226 | Oct-37 | | | | | |
| 227 | Nov-37 | | | | | |
| 228 | Dec-37 | | | | | |
| 229 | Jan-38 | | | | | |
| 230 | Feb-38 | | | | | |
| 231 | Mar-38 | | | | | |
| 232 | Apr-38 | | | | | |
| 233 | May-38 | | | | | |
| 234 | Jun-38 | | | | | |
| 235 | Jul-38 | | | | | |
| 236 | Aug-38 | | | | | |
| 237 | Sep-38 | | | | | |

REDACTED The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 21 of 46

| Column | А | В | С | D | E | F |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| | | | | | Portland Natural | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 238 | Oct-38 | | | | | |
| 239 | Nov-38 | | | | | |
| 240 | Dec-38 | | | | | |
| | | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 22 of 46

| Column | А | В | С | D | E | F |
|--------|--------|-----------|-----------|----------|-------------|-------------|
| | | | | | Portland | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Natural Gas | Northeast |
| 1 | Jan-19 | | | | | |
| 2 | Feb-19 | | | | | |
| 3 | Mar-19 | | | | | |
| 4 | Apr-19 | | | | | |
| 5 | May-19 | | | | | |
| 6 | Jun-19 | | | | | |
| 7 | Jul-19 | | | | | |
| 8 | Aug-19 | | | | | |
| 9 | Sep-19 | | | | | |
| 10 | Oct-19 | | | | | |
| 11 | Nov-19 | | | | | |
| 12 | Dec-19 | | | | | |
| 13 | Jan-20 | | | | | |
| 14 | Feb-20 | | | | | |
| 15 | Mar-20 | | | | | |
| 16 | Apr-20 | | | | | |
| 17 | May-20 | | | | | |
| 18 | Jun-20 | | | | | |
| 19 | Jul-20 | | | | | |
| 20 | Aug-20 | | | | | |
| 21 | Sep-20 | | | | | |
| 22 | Oct-20 | | | | | |
| 23 | Nov-20 | | | | | |
| 24 | Dec-20 | | | | | |
| 25 | Jan-21 | | | | | |
| 26 | Feb-21 | | | | | |
| 27 | Mar-21 | | | | | |
| 28 | Apr-21 | | | | | |
| 29 | May-21 | | | | | |
| 30 | Jun-21 | | | | | |
| 31 | Jul-21 | | | | | |
| 32 | Aug-21 | | | | | |
| 33 | Sep-21 | | | | | |
| 34 | Oct-21 | | | | | |
| 35 | Nov-21 | | | | | |
| 36 | Dec-21 | | | | | |
| 37 | Jan-22 | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 23 of 46

| Column | А | В | С | D | E Portland | F Maritimes & |
|----------|------------------|-----------|-----------|----------|---------------|------------------|
| Line # | Time | Algonquin | Tennessee | Iroquois | Natural Gas | Northeast |
| 38 | Feb-22 | 0 | | • | | |
| 39 | Mar-22 | | | | | |
| 40 | Apr-22 | | | | | |
| 41 | May-22 | | | | | |
| 42 | Jun-22 | | | | | |
| 43 | Jul-22 | | | | | |
| 44 | Aug-22 | | | | | |
| 45 | Sep-22 | | | | | |
| 46 | Oct-22 | | | | | |
| 47 | Nov-22 | | | | | |
| 48 | Dec-22 | | | | | |
| 49 | Jan-23 | | | | | |
| 50 | Feb-23 | | | | | |
| 51 | Mar-23 | | | | | |
| 52 | Apr-23 | | | | | |
| 53 | May-23 | | | | | |
| 54 | Jun-23 | | | | | |
| 55 | Jul-23 | | | | | |
| 56 | Aug-23 | | | | | |
| 57 | Sep-23 | | | | | |
| 58 | Oct-23 | | | | | |
| 59 | Nov-23 | | | | | |
| 60 | Dec-23 | | | | | |
| 61 | Jan-24 | | | | | |
| 62 | Feb-24 | | | | | |
| 63 | Mar-24 | | | | | |
| 64 | Apr-24 | | | | | |
| 65 | May-24 | | | | | |
| 66 | Jun-24 | | | | | |
| 67 | Jul-24 | | | | | |
| 68 | Aug-24 | | | | | |
| 69 70 | Sep-24 | | | | | |
| 70 | Oct-24 | | | | | |
| 71 72 | Nov-24 | | | | | |
| 72 73 | Dec-24 Jan-25 | | | | | |
| 73 74 | Feb-25 | | | | | |
| 74 75 | Mar-25 | | | | | |
| 73 76 | Apr-25 | | | | | |
| 70 | May-25 | | | | | |
| , , | iviay-25 | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 24 of 46

| Column | А | В | С | D | E Portland | F Maritimes & |
|------------|------------------|-----------|-----------|----------|---------------|------------------|
| Line # | Time | Algonquin | Tennessee | Iroquois | Natural Gas | Northeast |
| 78 | Jun-25 | | | | | |
| 79 | Jul-25 | | | | | |
| 80 | Aug-25 | | | | | |
| 81 | Sep-25 | | | | | |
| 82 | Oct-25 | | | | | |
| 83 | Nov-25 | | | | | |
| 84 | Dec-25 | | | | | |
| 85 | Jan-26 | | | | | |
| 86 | Feb-26 | | | | | |
| 87 | Mar-26 | | | | | |
| 88 | Apr-26 | | | | | |
| 89 | May-26 | | | | | |
| 90 | Jun-26 | | | | | |
| 91 | Jul-26 | | | | | |
| 92 | Aug-26 | | | | | |
| 93 | Sep-26 | | | | | |
| 94 | Oct-26 | | | | | |
| 95 | Nov-26 | | | | | |
| 96 | Dec-26 | | | | | |
| 97 | Jan-27 | | | | | |
| 98 | Feb-27 | | | | | |
| 99 | Mar-27 | | | | | |
| 100 | Apr-27 | | | | | |
| 101 | May-27 | | | | | |
| 102 | Jun-27 | | | | | |
| 103 | Jul-27 | | | | | |
| 104 | Aug-27 | | | | | |
| 105 | Sep-27 Oct-27 | | | | | |
| 106 107 | Nov-27 | | | | | |
| 107 | Dec-27 | | | | | |
| 100 | Jan-28 | | | | | |
| 110 | Feb-28 | | | | | |
| 111 | Mar-28 | | | | | |
| 112 | Apr-28 | | | | | |
| 113 | May-28 | | | | | |
| 114 | Jun-28 | | | | | |
| 115 | Jul-28 | | | | | |
| 116 | Aug-28 | | | | | |
| 117 | Sep-28 | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 25 of 46

| Column | А | В | С | D | E Portland | F Maritimes & |
|------------|------------------|-----------|-----------|----------|---------------|------------------|
| Line # | Time | Algonquin | Tennessee | Iroquois | Natural Gas | Northeast |
| 118 | Oct-28 | 7 | | | | |
| 119 | Nov-28 | | | | | |
| 120 | Dec-28 | | | | | |
| 121 | Jan-29 | | | | | |
| 122 | Feb-29 | | | | | |
| 123 | Mar-29 | | | | | |
| 124 | Apr-29 | | | | | |
| 125 | May-29 | | | | | |
| 126 | Jun-29 | | | | | |
| 127 | Jul-29 | | | | | |
| 128 | Aug-29 | | | | | |
| 129 | Sep-29 | | | | | |
| 130 | Oct-29 | | | | | |
| 131 | Nov-29 | | | | | |
| 132 | Dec-29 | | | | | |
| 133 | Jan-30 | | | | | |
| 134 | Feb-30 | | | | | |
| 135 | Mar-30 | | | | | |
| 136 | Apr-30 | | | | | |
| 137 | May-30 | | | | | |
| 138 | Jun-30 | | | | | |
| 139 | Jul-30 | | | | | |
| 140 | Aug-30 | | | | | |
| 141 | Sep-30 | | | | | |
| 142 | Oct-30 | | | | | |
| 143 | Nov-30 | | | | | |
| 144 145 | Dec-30 Jan-31 | | | | | |
| 145 | Feb-31 | | | | | |
| 140 | Mar-31 | | | | | |
| 148 | Apr-31 | | | | | |
| 149 | May-31 | | | | | |
| 150 | Jun-31 | | | | | |
| 151 | Jul-31 | | | | | |
| 152 | Aug-31 | | | | | |
| 153 | Sep-31 | | | | | |
| 154 | Oct-31 | | | | | |
| 155 | Nov-31 | | | | | |
| 156 | Dec-31 | | | | | |
| 157 | Jan-32 | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 26 of 46

| Column | А | В | С | D | E Portland | F Maritimes & |
|------------|------------------|-----------|-----------|----------|---------------|------------------|
| Line # | Time | Algonquin | Tennessee | Iroquois | Natural Gas | Northeast |
| 158 | Feb-32 | | | noquoio | | |
| 159 | Mar-32 | | | | | |
| 160 | Apr-32 | | | | | |
| 161 | May-32 | | | | | |
| 162 | , Jun-32 | | | | | |
| 163 | Jul-32 | | | | | |
| 164 | Aug-32 | | | | | |
| 165 | Sep-32 | | | | | |
| 166 | Oct-32 | | | | | |
| 167 | Nov-32 | | | | | |
| 168 | Dec-32 | | | | | |
| 169 | Jan-33 | | | | | |
| 170 | Feb-33 | | | | | |
| 171 | Mar-33 | | | | | |
| 172 | Apr-33 | | | | | |
| 173 | May-33 | | | | | |
| 174 | Jun-33 | | | | | |
| 175 | Jul-33 | | | | | |
| 176 | Aug-33 | | | | | |
| 177 | Sep-33 | | | | | |
| 178 | Oct-33 | | | | | |
| 179 | Nov-33 | | | | | |
| 180 | Dec-33 | | | | | |
| 181 | Jan-34 | | | | | |
| 182 | Feb-34 | | | | | |
| 183 184 | Mar-34 | | | | | |
| 184 185 | Apr-34 May-34 | | | | | |
| 185 | Jun-34 | | | | | |
| 187 | Jul-34 | | | | | |
| 188 | Aug-34 | | | | | |
| 189 | Sep-34 | | | | | |
| 190 | Oct-34 | | | | | |
| 191 | Nov-34 | | | | | |
| 192 | Dec-34 | | | | | |
| 193 | Jan-35 | | | | | |
| 194 | Feb-35 | | | | | |
| 195 | Mar-35 | | | | | |
| 196 | Apr-35 | | | | | |
| 197 | May-35 | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 27 of 46

| Column | А | В | С | D | E Portland | F Maritimes & |
|------------|------------------|--------------|-----------|----------|---------------|------------------|
| Line # | Time | Algonquin | Tennessee | Iroquois | Natural Gas | Northeast |
| 198 | Jun-35 | / 1801144111 | Termessee | noquois | | Northeast |
| 199 | Jul-35 | | | | | |
| 200 | Aug-35 | | | | | |
| 201 | Sep-35 | | | | | |
| 202 | Oct-35 | | | | | |
| 203 | Nov-35 | | | | | |
| 204 | Dec-35 | | | | | |
| 205 | Jan-36 | | | | | |
| 206 | Feb-36 | | | | | |
| 207 | Mar-36 | | | | | |
| 208 | Apr-36 | | | | | |
| 209 | May-36 | | | | | |
| 210 | Jun-36 | | | | | |
| 211 | Jul-36 | | | | | |
| 212 | Aug-36 | | | | | |
| 213 | Sep-36 | | | | | |
| 214 | Oct-36 | | | | | |
| 215 | Nov-36 | | | | | |
| 216 | Dec-36 | | | | | |
| 217 | Jan-37 | | | | | |
| 218 | Feb-37 | | | | | |
| 219 | Mar-37 | | | | | |
| 220 | Apr-37 | | | | | |
| 221 | May-37 | | | | | |
| 222 | Jun-37 | | | | | |
| 223 | Jul-37 | | | | | |
| 224 | Aug-37 | | | | | |
| 225 | Sep-37 | | | | | |
| 226 227 | Oct-37 Nov-37 | | | | | |
| 227 | Dec-37 | | | | | |
| 228 | Jan-38 | | | | | |
| 230 | Feb-38 | | | | | |
| 230 | Mar-38 | | | | | |
| 231 | Apr-38 | | | | | |
| 233 | May-38 | | | | | |
| 234 | Jun-38 | | | | | |
| 235 | Jul-38 | | | | | |
| 236 | Aug-38 | | | | | |
| 237 | Sep-38 | | | | | |
| | | | | | | |

REDACTED The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 28 of 46

| Column | А | В | С | D | E | F |
|--------|--------|-----------|-----------|----------|-------------|-------------|
| | | | | | Portland | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Natural Gas | Northeast |
| 238 | Oct-38 | | | | | |
| 239 | Nov-38 | | | | | |
| 240 | Dec-38 | | | | | |
| | | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 29 of 46

| Column | А | В | С | D | Е | F |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| | | | | | Portland Natural | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 1 | Jan-19 | | | | | |
| 2 | Feb-19 | | | | | |
| 3 | Mar-19 | | | | | |
| 4 | Apr-19 | | | | | |
| 5 | May-19 | | | | | |
| 6 | Jun-19 | | | | | |
| 7 | Jul-19 | | | | | |
| 8 | Aug-19 | | | | | |
| 9 | Sep-19 | | | | | |
| 10 | Oct-19 | | | | | |
| 11 | Nov-19 | | | | | |
| 12 | Dec-19 | | | | | |
| 13 | Jan-20 | | | | | |
| 14 | Feb-20 | | | | | |
| 15 | Mar-20 | | | | | |
| 16 | Apr-20 | | | | | |
| 17 | May-20 | | | | | |
| 18 | Jun-20 | | | | | |
| 19 | Jul-20 | | | | | |
| 20 | Aug-20 | | | | | |
| 21 | Sep-20 | | | | | |
| 22 | Oct-20 | | | | | |
| 23 | Nov-20 | | | | | |
| 24 | Dec-20 | | | | | |
| 25 | Jan-21 | | | | | |
| 26 | Feb-21 | | | | | |
| 27 | Mar-21 | | | | | |
| 28 | Apr-21 | | | | | |
| 29 | May-21 | | | | | |
| 30 | Jun-21 | | | | | |
| 31 | Jul-21 | | | | | |
| 32 | Aug-21 | | | | | |
| 33 | Sep-21 | | | | | |
| 34 | Oct-21 | | | | | |
| 35 | Nov-21 | | | | | |
| 36 | Dec-21 | | | | | |
| 37 | Jan-22 | | | | | |
| | | | | | | |

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| Column | А | В | С | D | E | F |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| | | | | | Portland Natural | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 38 | Feb-22 | | | | | |
| 39 | Mar-22 | | | | | |
| 40 | Apr-22 | | | | | |
| 41 | May-22 | | | | | |
| 42 | Jun-22 | | | | | |
| 43 | Jul-22 | | | | | |
| 44 | Aug-22 | | | | | |
| 45 | Sep-22 | | | | | |
| 46 | Oct-22 | | | | | |
| 47 | Nov-22 | | | | | |
| 48 | Dec-22 | | | | | |
| 49 | Jan-23 | | | | | |
| 50 | Feb-23 | | | | | |
| 51 | Mar-23 | | | | | |
| 52 | Apr-23 | | | | | |
| 53 | May-23 | | | | | |
| 54 | Jun-23 | | | | | |
| 55 | Jul-23 | | | | | |
| 56 | Aug-23 | | | | | |
| 57 | Sep-23 | | | | | |
| 58 | Oct-23 | | | | | |
| 59 | Nov-23 | | | | | |
| 60 | Dec-23 | | | | | |
| 61 | Jan-24 | | | | | |
| 62 | Feb-24 | | | | | |
| 63 | Mar-24 | | | | | |
| 64 | Apr-24 | | | | | |
| 65 | May-24 | | | | | |
| 66 | Jun-24 | | | | | |
| 67 | Jul-24 | | | | | |
| 68 | Aug-24 | | | | | |
| 69 | Sep-24 | | | | | |
| 70 | Oct-24 | | | | | |
| 71 | Nov-24 | | | | | |
| 72 | Dec-24 | | | | | |
| 73 | Jan-25 | | | | | |
| 74 | Feb-25 | | | | | |
| 75 | Mar-25 | | | | | |
| 76 | Apr-25 | | | | | |
| 77 | May-25 | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 31 of 46

| Column | А | В | С | D | E | F |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| | | | | | Portland Natural | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 78 | Jun-25 | | | | | |
| 79 | Jul-25 | | | | | |
| 80 | Aug-25 | | | | | |
| 81 | Sep-25 | | | | | |
| 82 | Oct-25 | | | | | |
| 83 | Nov-25 | | | | | |
| 84 | Dec-25 | | | | | |
| 85 | Jan-26 | | | | | |
| 86 | Feb-26 | | | | | |
| 87 | Mar-26 | | | | | |
| 88 | Apr-26 | | | | | |
| 89 | May-26 | | | | | |
| 90 | Jun-26 | | | | | |
| 91 | Jul-26 | | | | | |
| 92 | Aug-26 | | | | | |
| 93 | Sep-26 | | | | | |
| 94 | Oct-26 | | | | | |
| 95 | Nov-26 | | | | | |
| 96 | Dec-26 | | | | | |
| 97 | Jan-27 | | | | | |
| 98 | Feb-27 | | | | | |
| 99 | Mar-27 | | | | | |
| 100 | Apr-27 | | | | | |
| 101 | May-27 | | | | | |
| 102 | Jun-27 | | | | | |
| 103 | Jul-27 | | | | | |
| 104 | Aug-27 | | | | | |
| 105 | Sep-27 | | | | | |
| 106 | Oct-27 | | | | | |
| 107 | Nov-27 | | | | | |
| 108 | Dec-27 | | | | | |
| 109 | Jan-28 | | | | | |
| 110 | Feb-28 | | | | | |
| 111 | Mar-28 | | | | | |
| 112 | Apr-28 | | | | | |
| 113 | May-28 | | | | | |
| 114 | Jun-28 | | | | | |
| 115 | Jul-28 | | | | | |
| 116 | Aug-28 | | | | | |
| 117 | Sep-28 | | | | | |
| | | | | | | |

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| Column | А | В | С | D | E | F |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| | | | | | Portland Natural | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 118 | Oct-28 | | | | | |
| 119 | Nov-28 | | | | | |
| 120 | Dec-28 | | | | | |
| 121 | Jan-29 | | | | | |
| 122 | Feb-29 | | | | | |
| 123 | Mar-29 | | | | | |
| 124 | Apr-29 | | | | | |
| 125 | May-29 | | | | | |
| 126 | Jun-29 | | | | | |
| 127 | Jul-29 | | | | | |
| 128 | Aug-29 | | | | | |
| 129 | Sep-29 | | | | | |
| 130 | Oct-29 | | | | | |
| 131 | Nov-29 | | | | | |
| 132 | Dec-29 | | | | | |
| 133 | Jan-30 | | | | | |
| 134 | Feb-30 | | | | | |
| 135 | Mar-30 | | | | | |
| 136 | Apr-30 | | | | | |
| 137 | May-30 | | | | | |
| 138 | Jun-30 | | | | | |
| 139 | Jul-30 | | | | | |
| 140 | Aug-30 | | | | | |
| 141 | Sep-30 | | | | | |
| 142 | Oct-30 | | | | | |
| 143 | Nov-30 | | | | | |
| 144 | Dec-30 | | | | | |
| 145 | Jan-31 | | | | | |
| 146 | Feb-31 | | | | | |
| 147 | Mar-31 | | | | | |
| 148 | Apr-31 | | | | | |
| 149 | May-31 | | | | | |
| 150 | Jun-31 | | | | | |
| 151 | Jul-31 | | | | | |
| 152 | Aug-31 | | | | | |
| 153 | Sep-31 | | | | | |
| 154 | Oct-31 | | | | | |
| 155 | Nov-31 | | | | | |
| 156 | Dec-31 | | | | | |
| 157 | Jan-32 | | | | | |

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| Column | А | В | С | D | E | F |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| | | | | | Portland Natural | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 158 | Feb-32 | | | | | |
| 159 | Mar-32 | | | | | |
| 160 | Apr-32 | | | | | |
| 161 | May-32 | | | | | |
| 162 | Jun-32 | | | | | |
| 163 | Jul-32 | | | | | |
| 164 | Aug-32 | | | | | |
| 165 | Sep-32 | | | | | |
| 166 | Oct-32 | | | | | |
| 167 | Nov-32 | | | | | |
| 168 | Dec-32 | | | | | |
| 169 | Jan-33 | | | | | |
| 170 | Feb-33 | | | | | |
| 171 | Mar-33 | | | | | |
| 172 | Apr-33 | | | | | |
| 173 | May-33 | | | | | |
| 174 | Jun-33 | | | | | |
| 175 | Jul-33 | | | | | |
| 176 | Aug-33 | | | | | |
| 177 | Sep-33 | | | | | |
| 178 | Oct-33 | | | | | |
| 179 | Nov-33 | | | | | |
| 180 | Dec-33 | | | | | |
| 181 | Jan-34 | | | | | |
| 182 | Feb-34 | | | | | |
| 183 | Mar-34 | | | | | |
| 184 | Apr-34 | | | | | |
| 185 | May-34 | | | | | |
| 186 | Jun-34 | | | | | |
| 187 | Jul-34 | | | | | |
| 188 | Aug-34 | | | | | |
| 189 | Sep-34 | | | | | |
| 190 | Oct-34 | | | | | |
| 191 | Nov-34 | | | | | |
| 192 | Dec-34 | | | | | |
| 193 | Jan-35 | | | | | |
| 194 | Feb-35 | | | | | |
| 195 | Mar-35 | | | | | |
| 196 | Apr-35 | | | | | |
| 197 | May-35 | | | | | |
| | | | | | | |

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| Column | А | В | С | D | E | F |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| | | | | | Portland Natural | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 198 | Jun-35 | | | | | |
| 199 | Jul-35 | | | | | |
| 200 | Aug-35 | | | | | |
| 201 | Sep-35 | | | | | |
| 202 | Oct-35 | | | | | |
| 203 | Nov-35 | | | | | |
| 204 | Dec-35 | | | | | |
| 205 | Jan-36 | | | | | |
| 206 | Feb-36 | | | | | |
| 207 | Mar-36 | | | | | |
| 208 | Apr-36 | | | | | |
| 209 | May-36 | | | | | |
| 210 | Jun-36 | | | | | |
| 211 | Jul-36 | | | | | |
| 212 | Aug-36 | | | | | |
| 213 | Sep-36 | | | | | |
| 214 | Oct-36 | | | | | |
| 215 | Nov-36 | | | | | |
| 216 | Dec-36 | | | | | |
| 217 | Jan-37 | | | | | |
| 218 | Feb-37 | | | | | |
| 219 | Mar-37 | | | | | |
| 220 | Apr-37 | | | | | |
| 221 | May-37 | | | | | |
| 222 | Jun-37 | | | | | |
| 223 | Jul-37 | | | | | |
| 224 | Aug-37 | | | | | |
| 225 | Sep-37 | | | | | |
| 226 | Oct-37 | | | | | |
| 227 | Nov-37 | | | | | |
| 228 | Dec-37 | | | | | |
| 229 | Jan-38 | | | | | |
| 230 | Feb-38 | | | | | |
| 231 | Mar-38 | | | | | |
| 232 | Apr-38 | | | | | |
| 233 | May-38 | | | | | |
| 234 | Jun-38 | | | | | |
| 235 | Jul-38 | | | | | |
| 236 | Aug-38 | | | | | |
| 237 | Sep-38 | | | | | |
| | | | | | | |

REDACTED The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 35 of 46

| Column | А | В | С | D | E | F |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| | | | | | Portland Natural | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 238 | Oct-38 | | | | | |
| 239 | Nov-38 | | | | | |
| 240 | Dec-38 | | | | | |
| | | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 36 of 46

| Column | А | В | С | D | E | F |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| | | | | | Portland Natural | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 1 | Jan-19 | | | | | |
| 2 | Feb-19 | | | | | |
| 3 | Mar-19 | | | | | |
| 4 | Apr-19 | | | | | |
| 5 | May-19 | | | | | |
| 6 | Jun-19 | | | | | |
| 7 | Jul-19 | | | | | |
| 8 | Aug-19 | | | | | |
| 9 | Sep-19 | | | | | |
| 10 | Oct-19 | | | | | |
| 11 | Nov-19 | | | | | |
| 12 | Dec-19 | | | | | |
| 13 | Jan-20 | | | | | |
| 14 | Feb-20 | | | | | |
| 15 | Mar-20 | | | | | |
| 16 | Apr-20 | | | | | |
| 17 | May-20 | | | | | |
| 18 | Jun-20 | | | | | |
| 19 | Jul-20 | | | | | |
| 20 | Aug-20 | | | | | |
| 21 | Sep-20 | | | | | |
| 22 | Oct-20 | | | | | |
| 23 | Nov-20 | | | | | |
| 24 | Dec-20 | | | | | |
| 25 | Jan-21 | | | | | |
| 26 | Feb-21 | | | | | |
| 27 | Mar-21 | | | | | |
| 28 | Apr-21 | | | | | |
| 29 | May-21 | | | | | |
| 30 | Jun-21 | | | | | |
| 31 | Jul-21 | | | | | |
| 32 | Aug-21 | | | | | |
| 33 | Sep-21 | | | | | |
| 34 | Oct-21 | | | | | |
| 35 | Nov-21 | | | | | |
| 36 | Dec-21 | | | | | |
| 37 | Jan-22 | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 37 of 46

| Column | А | В | С | D | E | F |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| | | | | | Portland Natural | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 38 | Feb-22 | | | | | |
| 39 | Mar-22 | | | | | |
| 40 | Apr-22 | | | | | |
| 41 | May-22 | | | | | |
| 42 | Jun-22 | | | | | |
| 43 | Jul-22 | | | | | |
| 44 | Aug-22 | | | | | |
| 45 | Sep-22 | | | | | |
| 46 | Oct-22 | | | | | |
| 47 | Nov-22 | | | | | |
| 48 | Dec-22 | | | | | |
| 49 | Jan-23 | | | | | |
| 50 | Feb-23 | | | | | |
| 51 | Mar-23 | | | | | |
| 52 | Apr-23 | | | | | |
| 53 | May-23 | | | | | |
| 54 | Jun-23 | | | | | |
| 55 | Jul-23 | | | | | |
| 56 | Aug-23 | | | | | |
| 57 | Sep-23 | | | | | |
| 58 | Oct-23 | | | | | |
| 59 | Nov-23 | | | | | |
| 60 | Dec-23 | | | | | |
| 61 | Jan-24 | | | | | |
| 62 | Feb-24 | | | | | |
| 63 | Mar-24 | | | | | |
| 64 | Apr-24 | | | | | |
| 65 | May-24 | | | | | |
| 66 | Jun-24 | | | | | |
| 67 | Jul-24 | | | | | |
| 68 | Aug-24 | | | | | |
| 69 | Sep-24 | | | | | |
| 70 | Oct-24 | | | | | |
| 71 | Nov-24 | | | | | |
| 72 | Dec-24 | | | | | |
| 73 | Jan-25 | | | | | |
| 74 | Feb-25 | | | | | |
| 75 | Mar-25 | | | | | |
| 76 | Apr-25 | | | | | |
| 77 | May-25 | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 38 of 46

| Column | А | В | С | D | E | F |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| | | | | | Portland Natural | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 78 | Jun-25 | | | | | |
| 79 | Jul-25 | | | | | |
| 80 | Aug-25 | | | | | |
| 81 | Sep-25 | | | | | |
| 82 | Oct-25 | | | | | |
| 83 | Nov-25 | | | | | |
| 84 | Dec-25 | | | | | |
| 85 | Jan-26 | | | | | |
| 86 | Feb-26 | | | | | |
| 87 | Mar-26 | | | | | |
| 88 | Apr-26 | | | | | |
| 89 | May-26 | | | | | |
| 90 | Jun-26 | | | | | |
| 91 | Jul-26 | | | | | |
| 92 | Aug-26 | | | | | |
| 93 | Sep-26 | | | | | |
| 94 | Oct-26 | | | | | |
| 95 | Nov-26 | | | | | |
| 96 | Dec-26 | | | | | |
| 97 | Jan-27 | | | | | |
| 98 | Feb-27 | | | | | |
| 99 | Mar-27 | | | | | |
| 100 | Apr-27 | | | | | |
| 101 | May-27 | | | | | |
| 102 | Jun-27 | | | | | |
| 103 | Jul-27 | | | | | |
| 104 | Aug-27 | | | | | |
| 105 | Sep-27 | | | | | |
| 106 | Oct-27 | | | | | |
| 107 | Nov-27 | | | | | |
| 108 | Dec-27 | | | | | |
| 109 | Jan-28 | | | | | |
| 110 | Feb-28 | | | | | |
| 111 | Mar-28 | | | | | |
| 112 | Apr-28 | | | | | |
| 113 | May-28 | | | | | |
| 114 | Jun-28 | | | | | |
| 115 | Jul-28 | | | | | |
| 116 | Aug-28 | | | | | |
| 117 | Sep-28 | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 39 of 46

| Column | А | В | С | D | E | F |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| | | | _ | | Portland Natural | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 118 | Oct-28 | | | | | |
| 119 | Nov-28 | | | | | |
| 120 | Dec-28 | | | | | |
| 121 | Jan-29 | | | | | |
| 122 | Feb-29 | | | | | |
| 123 | Mar-29 | | | | | |
| 124 | Apr-29 | | | | | |
| 125 | May-29 | | | | | |
| 126 | Jun-29 | | | | | |
| 127 | Jul-29 | | | | | |
| 128 | Aug-29 | | | | | |
| 129 | Sep-29 | | | | | |
| 130 | Oct-29 | | | | | |
| 131 | Nov-29 | | | | | |
| 132 | Dec-29 | | | | | |
| 133 | Jan-30 | | | | | |
| 134 | Feb-30 | | | | | |
| 135 | Mar-30 | | | | | |
| 136 | Apr-30 | | | | | |
| 137 | May-30 | | | | | |
| 138 | Jun-30 | | | | | |
| 139 | Jul-30 | | | | | |
| 140 | Aug-30 | | | | | |
| 141 | Sep-30 | | | | | |
| 142 | Oct-30 | | | | | |
| 143 | Nov-30 | | | | | |
| 144 | Dec-30 | | | | | |
| 145 | Jan-31 | | | | | |
| 146 | Feb-31 | | | | | |
| 147 | Mar-31 | | | | | |
| 148 | Apr-31 | | | | | |
| 149 | May-31 | | | | | |
| 150 | Jun-31 | | | | | |
| 151 | Jul-31 | | | | | |
| 152 | Aug-31 | | | | | |
| 153 | Sep-31 | | | | | |
| 154 | Oct-31 | | | | | |
| 155 | Nov-31 | | | | | |
| 156 | Dec-31 | | | | | |
| 157 | Jan-32 | | | | | |

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| Column | А | В | С | D | E | F |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| | | | | | Portland Natural | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 158 | Feb-32 | | | | | |
| 159 | Mar-32 | | | | | |
| 160 | Apr-32 | | | | | |
| 161 | May-32 | | | | | |
| 162 | Jun-32 | | | | | |
| 163 | Jul-32 | | | | | |
| 164 | Aug-32 | | | | | |
| 165 | Sep-32 | | | | | |
| 166 | Oct-32 | | | | | |
| 167 | Nov-32 | | | | | |
| 168 | Dec-32 | | | | | |
| 169 | Jan-33 | | | | | |
| 170 | Feb-33 | | | | | |
| 171 | Mar-33 | | | | | |
| 172 | Apr-33 | | | | | |
| 173 | May-33 | | | | | |
| 174 | Jun-33 | | | | | |
| 175 | Jul-33 | | | | | |
| 176 | Aug-33 | | | | | |
| 177 | Sep-33 | | | | | |
| 178 | Oct-33 | | | | | |
| 179 | Nov-33 | | | | | |
| 180 | Dec-33 | | | | | |
| 181 | Jan-34 | | | | | |
| 182 | Feb-34 | | | | | |
| 183 | Mar-34 | | | | | |
| 184 | Apr-34 | | | | | |
| 185 | May-34 | | | | | |
| 186 | Jun-34 | | | | | |
| 187 | Jul-34 | | | | | |
| 188 | Aug-34 | | | | | |
| 189 | Sep-34 | | | | | |
| 190 | Oct-34 | | | | | |
| 191 | Nov-34 | | | | | |
| 192 | Dec-34 | | | | | |
| 193 | Jan-35 | | | | | |
| 194 | Feb-35 | | | | | |
| 195 | Mar-35 | | | | | |
| 196 | Apr-35 | | | | | |
| 197 | May-35 | | | | | |

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| Column | А | В | С | D | E | F |
|------------|------------------|-----------|-----------|----------|------------------|-------------|
| | | | | | Portland Natural | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Gas | Northeast |
| 198 | Jun-35 | | | | | |
| 199 | Jul-35 | | | | | |
| 200 | Aug-35 | | | | | |
| 201 | Sep-35 | | | | | |
| 202 | Oct-35 | | | | | |
| 203 | Nov-35 | | | | | |
| 204 | Dec-35 | | | | | |
| 205 | Jan-36 | | | | | |
| 206 | Feb-36 | | | | | |
| 207 | Mar-36 | | | | | |
| 208 | Apr-36 | | | | | |
| 209 | May-36 | | | | | |
| 210 | Jun-36 | | | | | |
| 211 | Jul-36 | | | | | |
| 212 | Aug-36 | | | | | |
| 213 | Sep-36 | | | | | |
| 214 | Oct-36 | | | | | |
| 215 | Nov-36 | | | | | |
| 216 | Dec-36 | | | | | |
| 217 | Jan-37 | | | | | |
| 218 | Feb-37 | | | | | |
| 219 | Mar-37 | | | | | |
| 220 | Apr-37 | | | | | |
| 221 | May-37 | | | | | |
| 222 | Jun-37 | | | | | |
| 223 | Jul-37 | | | | | |
| 224 225 | Aug-37 Sep-37 | | | | | |
| 225 | Oct-37 | | | | | |
| 220 | Nov-37 | | | | | |
| 228 | Dec-37 | | | | | |
| 229 | Jan-38 | | | | | |
| 230 | Feb-38 | | | | | |
| 231 | Mar-38 | | | | | |
| 232 | Apr-38 | | | | | |
| 233 | May-38 | | | | | |
| 234 | , Jun-38 | | | | | |
| 235 | Jul-38 | | | | | |
| 236 | Aug-38 | | | | | |
| 237 | Sep-38 | | | | | |

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| Column | А | В | С | D | E | F |
|--------|--------|-----------|-----------|----------|------------------|-------------|
| | | | | | Portland Natural | Maritimes & |
| Line # | Time | Algonauin | Tennessee | Iroauois | Gas | Northeast |
| 238 | Oct-38 | | | | | |
| 239 | Nov-38 | | | | | |
| 240 | Dec-38 | | | | | |
| | | | | | | |

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| Column | А | В | С | D | E | F |
|--------|-----------|-----------|-----------|----------|-------------------------|--------------------------|
| | | | | | | |
| Line # | Time | Algonquin | Tennessee | Iroquois | Portland Natural Gas | Maritimes & Northeast |
| 1 | 1/1/2019 | | | | | |
| 2 | 2/1/2019 | | | | | |
| 3 | 12/1/2019 | | | | | |
| 4 | 1/1/2020 | | | | | |
| 5 | 2/1/2020 | | | | | |
| 6 | 12/1/2020 | | | | | |
| 7 | 1/1/2021 | | | | | |
| 8 | 2/1/2021 | | | | | |
| 9 | 12/1/2021 | | | | | |
| 10 | 1/1/2022 | | | | | |
| 11 | 2/1/2022 | | | | | |
| 12 | 12/1/2022 | | | | | |
| 13 | 1/1/2023 | | | | | |
| 14 | 2/1/2023 | | | | | |
| 15 | 12/1/2023 | | | | | |
| 16 | 1/1/2024 | | | | | |
| 17 | 2/1/2024 | | | | | |
| 18 | 12/1/2024 | | | | | |
| 19 | 1/1/2025 | | | | | |
| 20 | 2/1/2025 | | | | | |
| 21 | 12/1/2025 | | | | | |
| 22 | 1/1/2026 | | | | | |
| 23 | 2/1/2026 | | | | | |
| 24 | 12/1/2026 | | | | | |
| 25 | 1/1/2027 | | | | | |
| 26 | 2/1/2027 | | | | | |
| 27 | 12/1/2027 | | | | | |
| 28 | 1/1/2028 | | | | | |
| 29 | 2/1/2028 | | | | | |
| 30 | 12/1/2028 | | | | | |
| 31 | 1/1/2029 | | | | | |
| 32 | 2/1/2029 | | | | | |
| 33 | 12/1/2029 | | | | | |
| 34 | 1/1/2030 | | | | | |
| 35 | 2/1/2030 | | | | | |

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| | | | | | Portland | Maritimes & |
|--------|-----------|-----------|-----------|----------|-------------|-------------|
| Line # | Time | Algonquin | Tennessee | Iroquois | Natural Gas | Northeast |
| 36 | 12/1/2030 | | | | | |
| 37 | 1/1/2031 | | | | | |
| 38 | 2/1/2031 | | | | | |
| 39 | 12/1/2031 | | | | | |
| 40 | 1/1/2032 | | | | | |
| 41 | 2/1/2032 | | | | | |
| 42 | 12/1/2032 | | | | | |
| 43 | 1/1/2033 | | | | | |
| 44 | 2/1/2033 | | | | | |
| 45 | 12/1/2033 | | | | | |
| 46 | 1/1/2034 | | | | | |
| 47 | 2/1/2034 | | | | | |
| 48 | 12/1/2034 | | | | | |
| 49 | 1/1/2035 | | | | | |
| 50 | 2/1/2035 | | | | | |
| 51 | 12/1/2035 | | | | | |
| 52 | 1/1/2036 | | | | | |
| 53 | 2/1/2036 | | | | | |
| 54 | 12/1/2036 | | | | | |
| 55 | 1/1/2037 | | | | | |
| 56 | 2/1/2037 | | | | | |
| 57 | 12/1/2037 | | | | | |
| 58 | 1/1/2038 | | | | | |
| 59 | 2/1/2038 | | | | | |
| 60 | 12/1/2038 | | | | | |
| | | | | | | |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4627 Pursuant to R.I. Gen. Laws § 39-31-1 to 9 Responses to Division's Fourth Set of Data Requests DIV-4-7(b) HSCI Issued August 30, 2016 Page 45 of 46

| Column | А | В | С | D | Е | F |
|--------|-----------|-----------|-----------|----------|-------------|-------------|
| | | | | | | |
| | | | | | Portland | Maritimes & |
| Line # | Time | Algonquin | Tennessee | Iroquois | Natural Gas | Northeast |
| 1 | 1/1/2019 | Aigonquin | Termessee | lioquois | Natural Gas | Northeast |
| 1 2 | 2/1/2019 | | | | | |
| 2 | 12/1/2019 | | | | | |
| 4 | 1/1/2020 | | | | | |
| 5 | 2/1/2020 | | | | | |
| 6 | 12/1/2020 | | | | | |
| 7 | 1/1/2021 | | | | | |
| 8 | 2/1/2021 | | | | | |
| 9 | 12/1/2021 | | | | | |
| 10 | 1/1/2022 | | | | | |
| 11 | 2/1/2022 | | | | | |
| 12 | 12/1/2022 | | | | | |
| 13 | 1/1/2023 | | | | | |
| 14 | 2/1/2023 | | | | | |
| 15 | 12/1/2023 | | | | | |
| 16 | 1/1/2024 | | | | | |
| 17 | 2/1/2024 | | | | | |
| 18 | 12/1/2024 | | | | | |
| 19 | 1/1/2025 | | | | | |
| 20 | 2/1/2025 | | | | | |
| 21 | 12/1/2025 | | | | | |
| 22 | 1/1/2026 | | | | | |
| 23 | 2/1/2026 | | | | | |
| 24 | 12/1/2026 | | | | | |
| 25 | 1/1/2027 | | | | | |
| 26 | 2/1/2027 | | | | | |
| 27 | 12/1/2027 | | | | | |
| 28 | 1/1/2028 | | | | | |
| 29 | 2/1/2028 | | | | | |
| 30 | 12/1/2028 | | | | | |
| 31 | 1/1/2029 | | | | | |

2/1/2029

12/1/2029

1/1/2030

2/1/2030

32

33

34

35

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| Line # | Time | Algonquin | Tennessee | Iroquois | Portland Natural Gas | Maritimes & Northeast |
|--------|-----------|-----------|-----------|----------|-------------------------|--------------------------|
| 36 | 12/1/2030 | 0 | | | | |
| 37 | 1/1/2031 | | | | | |
| 38 | 2/1/2031 | | | | | |
| 39 | 12/1/2031 | | | | | |
| 40 | 1/1/2032 | | | | | |
| 41 | 2/1/2032 | | | | | |
| 42 | 12/1/2032 | | | | | |
| 43 | 1/1/2033 | | | | | |
| 44 | 2/1/2033 | | | | | |
| 45 | 12/1/2033 | | | | | |
| 46 | 1/1/2034 | | | | | |
| 47 | 2/1/2034 | | | | | |
| 48 | 12/1/2034 | | | | | |
| 49 | 1/1/2035 | | | | | |
| 50 | 2/1/2035 | | | | | |
| 51 | 12/1/2035 | | | | | |
| 52 | 1/1/2036 | | | | | |
| 53 | 2/1/2036 | | | | | |
| 54 | 12/1/2036 | | | | | |
| 55 | 1/1/2037 | | | | | |
| 56 | 2/1/2037 | | | | | |
| 57 | 12/1/2037 | | | | | |
| 58 | 1/1/2038 | | | | | |
| 59 | 2/1/2038 | | | | | |
| 60 | 12/1/2038 | | | | | |