

Division 18-1

Request:

Please provide Attachment DIV 1-6-3 in Excel.

Response:

Please refer to Attachment DIV 1-6-1 provided with the Company's response to Division 1-6.

Division 18-2

Request:

Page 17, lines 15-17 of the Testimony of Ned Allis Depreciation-Electric indicates that for Account 362, Station Equipment, the life tables for both experience bands 1969-2016 and 1993-2016 are included in the 2016 Electric Depreciation Study (Schedule NWA-2 Electric) on pages VII-46 to VII-48. Pages VII-46 to VII-48 of Attachment DIV 1-5 do not show the life table for experience band 1993-2016 for Account 362 (the request references Attachment DIV 1-5 since the filed Schedule NWA-2 Electric does not contain pages with the label VII-46 to VII-48). Please provide the life table referenced on page 17, lines 15-17 of the Testimony of Ned Allis Depreciation-Electric.

Response:

Please refer to Pages 117 to 119 of Attachment DIV 1-2-7 provided with the Company's response to Division 1-2 for the requested life table.

Division 18-3

Request:

Attachment DIV 1-6-1 shows a retirement of \$2,339,745 of 1999 vintage in 2013 in Account 355. Please provide an explanation of the amount of the largest three retirements included in the retirement amount of \$2,339,745 of 1999 vintage in 2013 for Account 355.

Response:

The three largest retirements included in this retirement amount are listed in the table below. These retirements were due to the relocation and reconductoring of the T172 Line along the West Farnum - Kent County right of way.

company	utility_account	retirement_unit	vintage	Activity Year	Retirements	quantity	cost
Narragansett E&G	35500-FRTRAN-POLES AND FIXTURES TRA	POLE, WOOD, 61' - 70', SO	1999	2013	Retirement	(27)	(102,187)
Narragansett E&G	35500-FRTRAN-POLES AND FIXTURES TRA	CROSSARM, METAL	1999	2013	Retirement	(23)	(89,732)
Narragansett E&G	35500-FRTRAN-POLES AND FIXTURES TRA	POLE, WOOD, 71' - 80', SO	1999	2013	Retirement	(12)	(81,903)

Account 355 is the transmission account for Poles and Fixtures. The revenue requirement associated with the Company's transmission-related plant investment and transmission operations and maintenance (O&M) expenses are recovered from the Company's affiliate, New England Power Company, pursuant to the FERC-approved Integrated Facilities Agreement. Consequently, transmission plant investment and transmission O&M expenses are not included in the base distribution rate request in this proceeding.

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Division 18-4

Request:

Attachment DIV 1-6-1 shows a retirement of \$1,337,545 of 1991 vintage in 2013 in Account 355. Please provide an explanation of the amount of the largest three retirements included in the retirement amount of \$1,337,545 of 1991 vintage in 2013 for Account 355.

Response:

The three largest retirements included in this retirement amount are listed in the table below. These retirements were due to the relocation and reconductoring of the T172 Line along the West Farnum - Kent County right of way.

company	utility_account	retirement_unit	vintage	Activity Year	Retirements	quantity	cost
Narragansett E&G	35500-FRTRAN-POLES AND FIXTURES TRA	POLE, WOOD, 51' - 60', SO	1991	2013	Retirement	(36)	(138,561)
Narragansett E&G	35500-FRTRAN-POLES AND FIXTURES TRA	POLE, WOOD, 61' - 70', SO	1991	2013	Retirement	(18)	(77,298)
Narragansett E&G	35500-FRTRAN-POLES AND FIXTURES TRA	POLE, WOOD, 61' - 70', SO	1991	2013	Retirement	(14)	(75,657)

Account 355 is the transmission account for Poles and Fixtures. The revenue requirement associated with the Company's transmission- related plant investment as well as transmission operations and maintenance (O&M) expenses are recovered from the Company's affiliate; New England Power Company, pursuant to the FERC approved Integrated Facilities Agreement. Consequently, transmission plant investment and transmission O&M expenses are not included in the base rate request in this proceeding.

Division 18-5

Request:

Attachment DIV 1-6-1 shows a retirement of \$600,848 of 1953 vintage in 2001 in Account 355. Please provide an explanation of the amount of the largest three retirements included in the retirement amount of \$600,848 of 1953 vintage in 2001 for Account 355.

Response:

The information requested is maintained in the Company's former plant accounting system, which was replaced in 2004 and is inactive. The information maintained in that system is not readily accessible. Also, the information requested is for periods that exceed the record retention requirements pursuant to the Code of Federal Regulations.

Division 18-6

Request:

Attachment DIV 1-6-1 shows a retirement of \$4,447,693 of 1966 vintage in 1993 in Account 364. Please provide an explanation of the amount of the largest three retirements included in the retirement amount of \$4,447,693 of 1966 vintage in 1993 for Account 364.

Response:

The information requested is maintained in the Company's former plant accounting system, which was replaced in 2004 and is inactive. The information maintained in that system is not readily accessible. Also, the information requested is for periods that exceed the record retention requirements pursuant to the Code of Federal Regulations.

Division 18-7

Request:

Attachment DIV 1-6-1 shows a retirement of \$7,310,723 of 1966 vintage in 1993 in Account 365. Please provide an explanation of the amount of the largest three retirements included in the retirement amount of \$7,310,723 of 1966 vintage in 1993 for Account 365.

Response:

The information requested is maintained in the Company's former plant accounting system, which was replaced in 2004 and is inactive. The information maintained in that system is not readily accessible. Also, the information requested is for periods that exceed the record retention requirements pursuant to the Code of Federal Regulations.

Division 18-8

Request:

Page VII-45 to Page VII-48 of Attachment DIV 1-5 shows the Service Life Statistics for Account 362 (the request references Attachment DIV 1-5 since the filed Schedule NWA-2 Electric does not contain pages with the account headings).

- a. Was any Iowa curve, dispersion, average life, or other life used in any way in the adjustment or alteration of the historical life data used to calculate the Original Curve shown on page VII-45 of Attachment DIV 1-5? If so, please provide the Iowa curve, dispersion, average life, or other life used.
- b. If the response to part (a) is yes, please explain why the historical data was adjusted or altered.
- c. If the response to part (a) is yes, please provide the unaltered historical life data for Account 362 in a format similar to the data provided in Attachment DIV 1-6-1. If the data is not available in the requested format, please provide the data in whatever format the data is available.

Response:

- a. No. An Iowa curve, dispersion, average life, or other life were not used for adjustments or alterations of the historical life data used for the original life tables for Account 362.
- b. Not applicable.
- c. Not applicable.

Division 18-9

Request:

Page VII-71 of Attachment DIV 1-5 shows the Service Life Statistics for Accounts 370.1, 370.2, 370.3, and 370.35 Meters (the request references Attachment DIV 1-5 since the filed Schedule NWA-2 Electric does not contain pages with the account headings). This page shows significant retirements of \$2,502,004 during the age interval of 0 to 0.5 and \$1,398,604 during the age interval of 0.5 to 1.5. Please provide an explanation of these significant retirements in the early age intervals of 0 to 0.5 and 0.5 to 1.5 included in the retirement service life statistics for Accounts 370.1, 370.2, 370.3, and 370.35 Meters.

Response:

Early retirements can occur when there is a defect or issue discovered with the installed meters. One such instance occurred where a manufacturing defect was discovered with the capacitor. The entire population of this type of meter was retired and the manufacturer had to replace the batch.

The retirements at these ages were not considered to be recurring and therefore were given little consideration in the estimation of the survivor curve for these accounts, as demonstrated on the graph shown at Schedule NWA-2-ELECTRIC, page VII-70. The estimate for this account was based primarily on the typical life expectancies of newer electric meters, the current survivor curve estimate for this account, and factors such as technological obsolescence.

Division 18-10

Request:

Page VIII-5 of Attachment DIV 1-5 shows a \$6,098,326 Cost of Removal in 2014 for Account 355, Poles and Fixtures. (This request references Attachment DIV 1-5 since the filed Schedule NWA-2 Electric does not contain pages with the account headings.)

- a. Provide the name of the projects in which this Cost of Removal occurred and provide the dollar amount for this project included in this \$6,098,326 amount.
- b. For the project named in response to part (a) explain in detail how the Cost of Removal was calculated. For example, is the Cost of Removal amount based on a percentage of the total labor for the project?
- c. How much reimbursement did the Company receive from any entity for any reason for the project named in response to part (a)? (By "reimbursement" we mean payments for the project from an entity other than payments from the general body of ratepayers in their normal utility rates.)
- d. Provide response to parts (a) through (c) for the \$1,132,464 Cost of Removal in 2015.

Response:

- a. Table 1 below sets forth the names of the projects in which the cost of removal occurred in the amount of \$6,098,326 in 2014 for Account 355.

**Table 1**

<b>Account 355, Poles and Fixtures</b>	<b>2014</b>
<b>Funding Projects</b>	<b>Cost of Removal</b>
C023966 - New 345 kV Line MA/RI Brd - W Farn	(111,328)
C023967 - New 345 kV Line WFarnum-Kent County	(202,226)
C023969 - Move S-171 Line.	(2,702,146)
C023974 - S-171S Reconductor	(45,230)
C024167 - Kent County 345-115 kV Sub Phase I	(7,935)
C024479 - Move T-172 Line	(2,747,904)
C024483 - T-172S Reconductor	(58,927)
C031388 - M13-L14 Taps State L - Tiverton ACR	(191,349)
C038666 - Tx Storm D/F Blanket Line Co5360	(4,748)
C041983 - Shun Pike Sub - Tx Line Tap Phase 1	(25,841)
C042288 - Tx Asset PS&I Blanket Line Co5360	(692)
<b>Grand Total</b>	<b>(6,098,326)</b>

Account 355 is the transmission account for Poles and Fixtures. The revenue requirement associated with the Company's transmission-related plant investment and transmission operations and maintenance (O&M) expenses are recovered from the Company's affiliate, New England Power Company, pursuant to the FERC-approved Integrated Facilities Agreement. Consequently, transmission plant investment and transmission O&M expenses are not included in the base distribution rate request in this proceeding.

- b. Please see the Company's response to Division 1-11, a copy of which is provided as Attachment DIV 18-10 for ease of reference.
- c. The Company has not identified any reimbursements for the projects listed in Table 1 above; however, any reimbursements related to cost of removal would be included in the amounts shown in Table 1.
- d.
  - (a) Table 2 below sets forth the names of the projects in which the cost of removal occurred in the amount of the \$1,132,464 in 2015 for Account 355.

**Table 2**

<b>Account 355, Poles and Fixtures</b>	<b>2015</b>
<b>Funding Projects</b>	<b>Cost of Removal</b>
C003168 - Tx Asset D/F Blanket Line Co5360	(10,558)
C009531 - Wood Pole Management - NECO	(93,575)
C023966 - New 345 kV Line MA/RI Brd - W Farn	(2,213)
C024479 - Move T-172 Line	(29,995)
C028016 - Tx I&M Repair Prgm Line Co5360.	(103,283)
C032970 - Q143-R144 Refurb (Co 49 Part).	(880,511)
C049284 - Conductor Clearance - NEC Program	(12,330)
<b>Grand Total</b>	<b>(1,132,464)</b>

- (b) Please see the Company's response to Division 1-11, a copy of which is provided as Attachment DIV 18-10 for ease of reference.
- (c) The Company has not identified any reimbursements for the projects listed in Table 2 above; however, any reimbursements related to cost of removal would be included in the amounts shown in Table 2.

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Division 1-11

Request:

Regarding allocating cost between cost of removal and replacement asset.

- (a) In Account 364 when a pole is retired, removed, and a new pole installed in the same hole or very near to the same hole, how is the labor and equipment costs allocated between cost of removal and the replacement addition?
- (b) If a percent allocator is used, please provide the workpapers or documents that support the establishment of that percent allocator.
- (c) When did the company first implement the allocation procedure described in part (a)? If a different allocation procedure was used since 2006, please provide a description of the allocation method used and why the company changed the method.
- (d) Please provide the same information for the other accounts included in the NWA-2 Electric (2016 Electric Depreciation Study).

Response:

- (a) For electric distribution work orders created after July 2014, National Grid has implemented a process called "Work Order Simplification", which enables a more straightforward and consistent approach for charging work orders and deriving capitalization of charges. With Work Order Simplification, each work order design determines the apportionment of charges to capital (CAPEX), cost of removal (COR), or operating expense (OPEX) accounts for the major categories of work for that particular work order.

As an example, if a work order design calls for a pole replacement, the component tasks included in the work order design define estimated labor, overheads, transportation, and materials for that work order. These component cost estimates also define valid accounting for work order charges such as crew time, invoices, materials, and others. This valid accounting also derives the capitalization splits for charges to these same accounting strings.

Prepared by or under the supervision of: Ned Allis

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Specifically, when a crew member charges his or her time to valid work order accounting<sup>1</sup>, that accounting string derives the capitalization splits for the corresponding tasks. Behind-the-scenes configurations automatically determine the apportionment of the charges to the correct CAPEX/COR/OPEX account.

For electric distribution, National Grid has created operation codes for the most frequently performed overhead and underground tasks. With operation codes on a work order reflecting the design of that specific work order, subsequent charges will derive capitalization splits that are appropriate for that same work order. The Work Order Simplification process has enabled charges to more accurately reflect the intended capitalization of charges based on actual work order designs and work performed.

Please note that the Work Order Simplification process described above applies to electric distribution capital investment covering FERC Accounts 360 to 369. Other capital work order types, such as electric transmission investment (FERC Accounts 350 to 359), substation investment, and general plant investment, follow the legacy process where the work order design creates valid accounting where each operation derives a singular capitalization.

- (b) Please see the Company's response to part (a) above, which explains that a percent allocator is not used.
- (c) The Work Order Simplification process described in part (a) above was adopted for electric distribution work orders created after July 2014. During the period from November 2012, when SAP was first implemented, to July 2014, electric distribution work orders were created with operation codes that corresponded to more granular tasks categories that each derived single capitalization. These granular operation codes were replaced with higher-level Work Order Simplification operation codes with capitalization that splits behind the scenes.

For example, the Work Order Simplification operation code 1071 corresponds to "Electric Distribution Pole/Anchor/Guy Install/Remove/Maintain" that derives split capitalization for charges that replaced 12 more granular operation codes, which were more specific to individual tasks performed to complete the work. For example, from November 2012 to June 2014, these more specific operation codes that were replaced by operation code 1071 included CAPEX/COR/OPEX operation codes 1232 corresponding

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<sup>1</sup> Work order accounting includes the work order number plus a SAP operation code, which is a four-digit numeric value that corresponds with the work being performed. For example, operation code 1071 corresponds to "Electric Distribution Pole/Anchor/Guy Install/Remove/Maintain".

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to "Pole Wood up to 59' Install"; 1233 corresponding to "Pole Wood up to 59' Remove"; and 1234 corresponding to "Pole Wood Maintenance", respectively. It was difficult for the employees performing this work to account for their time at such a granular level. Since the start of Work Order Simplification, the employee performing the installation and removal of a wood pole of less than 59 feet in height would select operation code 1071 for the time spent to complete that work.

- (d) Please see the Company's response to part (a) above.

Prepared by or under the supervision of: Ned Allis

Division 18-11

Request:

Page VIII-6 of Attachment DIV 1-5 shows a \$7,599,876 Cost of Removal in 2014 for Account 356, Overhead Conductors and Devices. (This request references Attachment since the filed Schedule NWA-2 Electric does not contain pages with the account headings.)

- a. Provide the name of the projects in which this Cost of Removal occurred and provide the dollar amount for this project included in this \$7,599,876 amount.
- b. For the project named in response to part (a) explain in detail how the Cost of Removal was calculated. For example, is the Cost of Removal amount based on a percentage of the total labor for the project?
- c. How much reimbursement did the Company receive from any entity for any reason for the project named in response to part (a)? (By "reimbursement" we mean payments for the project from an entity other than payments from the general body of ratepayers in their normal utility rates.)

Response:

- a. Table 1 below sets forth the names of the projects in which the cost of removal occurred in the amount of \$7,599,876 in 2014 for Account 356.

**Table 1**

<b>Account 356, Overhead Conductors and Devices</b>	<b>Cost of Removal</b>
Funding Projects	2014
C003168 - Tx Asset D/F Blanket Line Co5360	(3,145)
C023966 - New 345 kV Line MA/RI Brd - W Farn	(64,034)
C023967 - New 345 kV Line WFarnum-Kent County	(151,050)
C023969 - Move S-171 Line.	(2,657,553)
C023974 - S-171S Reconductor	(57,321)
C024167 - Kent County 345-115 kV Sub Phase I	(11,312)
C024479 - Move T-172 Line	(4,328,418)
C024483 - T-172S Reconductor	(35,752)
C031388 - M13-L14 Taps State L - Tiverton ACR	(199,727)
C031845 - X3-P11 Targeted IFR.	(50,083)
C038666 - Tx Storm D/F Blanket Line Co5360	(252)
C041983 - Shun Pike Sub - Tx Line Tap Phase 1	(13,803)
C042288 - Tx Asset PS&I Blanket Line Co5360	(6,532)
C043553 - Highland Dr. Taps	(20,895)
<b>Grand Total</b>	<b>(7,599,876)</b>

Account 356 is the transmission account for Overhead Conductors and Devices. The revenue requirement associated with the Company's transmission-related plant investment and transmission operations and maintenance (O&M) expenses are recovered from the Company's affiliate, New England Power Company, pursuant to the FERC-approved Integrated Facilities Agreement. Consequently, transmission plant investment and transmission O&M expenses are not included in the base distribution rate request in this proceeding.

- b. Please see the Company's response to Division 1-11, a copy of which is provided as Attachment DIV 18-10 with the Company's response to Division 18-10.
- c. The Company has not identified any reimbursements for the projects listed in Table 1 above; however, any reimbursements related to cost of removal would be included in the amounts shown in Table 1.

Division 18-12

Request:

Page VIII-10 of Attachment DIV 1-5 shows a \$2,830,961 Cost of Removal in 2014 for Account 364, Poles, Towers, and Fixtures. (This request references Attachment DIV 1-5 since the filed Schedule NWA-2 Electric does not contain pages with the account headings.)

- a. Provide the name of the projects in which this Cost of Removal occurred and provide the dollar amount for this project included in this \$2,830,961 amount.
- b. For the project named in response to part (a) explain in detail how the Cost of Removal was calculated. For example, is the Cost of Removal amount based on a percentage of the total labor for the project?
- c. How much reimbursement did the Company receive from any entity for any reason for the project named in response to part (a)? (By "reimbursement" we mean payments for the project from an entity other than payments from the general body of ratepayers in their normal utility rates.)
- d. Please provide the information requests in parts (a)-(c) except for the \$2,201,258 Cost of Removal in 2012.
- e. Please provide the information requests in parts (a)-(c) except for the \$2,140,467 Cost of Removal in 2015.
- f. Please provide the information requests in parts (a)-(c) except for the \$2,421,632 Cost of Removal in 2016.

Response:

- a. Table 1 below sets forth the names of the projects in which the cost of removal occurred in the amount of \$2,830,961 for Account 364.

**Table 1**

<b>Account 364, Poles, Towers , and Fixtures</b>	<b>Cost of Removal</b>
Funding Projects	2014
C001225 - INST DUCTLN& CBLs FRIP-RW BRID	(410,376)
C002538 - Targeted Pole Replace FY'05-CAPITAL	(632)
C005461 - FH - OS Feeder Hardening	(150,970)
C005505 - IE - OS Dist Transformer Upgrades	(23,269)
C005524 - IE - OS Cutout Replacements	(539)
C006644 - IE - OS Targeted Pole Replace	(5,526)
C008627 - York Ave. Sub #174 Convert 4kV load	(177)
C008775 - DOTR-Conant St R/R Bridge Pawtucket	(3,640)
C014630 - HWY-Smithfield Av, Lincoln	(384)
C016122 - IE - OS ERR	(5,484)
C016468 - HWY-Improvement Warwick Neck Ave.	(1,129)
C021151 - FUTURE USE LAND RI RETIREMENT	(625,556)
C022433 - OSD Storm Cap Confirm Program Proj	(246,598)
C025979 - NE South - OS_Fdr Patrol Work	(507)
C026281 - I&M - OS D-Line OH Work From Insp.	(99,715)
C027245 - Relocate 23kV 2227 & 22230	(350,821)
C028851 - Recon. 38F5 and 2227 Greenville Ave	(35,843)
C028884 - Install Johnston 18F10 Feeder	(37,894)
<b>Subtotal</b>	<b>(1,999,060)</b>

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**(Table 1 continued)**

<b>Account 364, Poles, Towers , and Fixtures</b>	<b>Cost of Removal</b>
Funding Projects	2014
C028900 - Recond. 2228 Johnston sub - Randall	(2,969)
C030827 - I-195 Contr 11, Part 21RE-1	(4,202)
C031181 - DOTR-Pawtucket Br 550, Pine St Br	(460)
C032256 - Replace Getaways 107W53 and 107W65	(12,328)
C032355 - DOTR-Waterfront DrWarren AvDexterRd	3,645
C033786 - DOTR-Frenchtown Brook Bridge 435	(4,429)
C036516 - Kilvert St 87 - New Fdr (DLine)	(1,707)
C036683 - DOTR-Natick Bridge No. 383 Warw/WW	(4,784)
C047322 - IRURD Saddle Rock Road	(2,147)
C055465 - OKONITE COMPANY, Cumberland RI	254
CD00002 - Miriam Hospital Second Feeder Servi	(8,455)
CD00138 - West Farnum Station Offload MakeRe	(49)
CD00246 - DOTR-Bartons Corner Bridge No. 518	(5,791)
CD00373 - Watch Hill UG Phase 2	(859)
CD00393 - 112W41 main line extension along pa	(10,271)
CD00409 - DOTR-Improvements to Division St, E	(2,234)
CD00437 - DOTR-Route 102 Widening, N. Kingsto	(1,906)
CD00641 - Retire Pawtuxet Substation (D-Line)	(621)
CD00657 - Service to Tockwotton Home, Waterfr	(8,007)
CD00723 - New Shun Pike Substation-23kV Sub	(470)
CD00808 - 68F3 - Kings Factory Rd stepdown co	(15,306)
CD01080 - NBC Seekonk CSO interceptor	3,510
CD01087 - Wakefield 17F1 Feeder Upgrades	(3,802)
COS0010 - Ocean St-Dist-New Bus-Resid Blankt	(29,010)
COS0011 - Ocean St-Dist-New Bus-Comm Blanket.	(57,063)
COS0012 - Ocean St-Dist-St Light Blanket.	(920)
COS0013 - Ocean St-Dist-Public Require Blnkt	(6,852)
COS0014 - Ocean St-Dist-Damage&Failure Blnkt	(164,733)
COS0015 - Ocean St-Dist-Reliability Blanket.	(21,424)
COS0016 - Ocean St-Dist-Load Relief Blanket.	(9,797)
COS0017 - Ocean St-Dist-Asset Replace Blankt	(466,435)
COS0022 - Ocean St-Dist-3rd Party Attch Blnkt	7,720
<b>Subtotal</b>	<b>(831,901)</b>
<b>Grand Total</b>	<b>(2,830,961)</b>

- b. Please see the Company's response to Division 1-11, a copy of which is provided as Attachment DIV 18-10 with the Company's response to Division 18-10 for ease of reference.
- c. The Company received a reimbursement of \$60,440.43 for Project C030827 listed in Table 1 to part a. above. Only \$1,869 of this amount is associated with cost of removal, and the cost of removal portion associated with Account 364 is included in the amount shown above for this project.

- d. (a) Table 2 below sets forth the names of the projects in which the Cost of Removal occurred in the amount of \$2,201,258 in 2012 for Account 364.

**Table 2**

<b>Account 364, Poles, Towers , and Fixtures</b>	<b>Cost of Removal</b>
Funding Projects	2012
C001164 - SEGMENT 4B LINC 7 CUMBERLAND	970
C001175 - I-195 RELOCATIONS - PART 3/Cont 6	(23,222)
C001183 - REPLACE BRIDGE 769 & 774	(692)
C001216 - MAPLEVILLE BRIDGE	1,067
C002535 - HWY-ROYAL MILLS BRIDGE NO.27	(3,176)
C005461 - FH - OS Feeder Hardening	(224,083)
C005463 - FH - OS Targeted Pole Replacement	(677)
C005485 - IE - OS Recloser Installations	(2,182)
C005505 - IE - OS Dist Transformer Upgrades	(108,209)
C005524 - IE - OS Cutout Replacements	(893)
C006644 - IE - OS Targeted Pole Replace	(56,040)
C008386 - HWY-Main Road Bridge No. 648	405
C009885 - DOTR-Stillwater Viaduct Bridge #278	(6,290)
C009886 - DOTR-Hartford Av 6A C-1	(64)
C012079 - DOTR-Repl Bridges 446 & 447	(1,163)
C012438 - I-195 Contr 10 - Fox Point vicinity	(681)
C014825 - OSD Storm Cap Confirm Proj	(4,670)
C015200 - Woonsocket Sub - 3 Dist. fdrs	(11,140)
C015409 - Newport Phase 1 (D-Line)	(63,361)
C022433 - OSD Storm Cap Confirm Program Proj	(203,666)
C023012 - 63F6 Ext 2 PH down Ten Rod Rd	(4,000)
C024180 - Coventry MITS (Dist Line)	(45,499)
C025979 - NE South - OS_Fdr Patrol Work	(474)
C026281 - I&M - OS D-Line OH Work From Insp.	(1,667)
C027123 - Watch Hill OH to UG, Westerly RI	(5,552)
C027245 - Relocate 23kV 2227 & 22230	(2,652)
C027911 - Replace open wire secondary-NE OS	(900)
C027950 - Kent County 22F2 Love Ln SPCA Rplc.	(48,741)
C028364 - Kent County Relocation 3309 Line.	(3,686)
<b>SubTotal</b>	<b>(820,937)</b>

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<b>Account 364, Poles, Towers , and Fixtures</b>	<b>Cost of Removal</b>
Funding Projects	2012
C028944 - NEEWS Distrib/SubTran Relocation	(2,431)
C029043 - DOTR- Recon Pawtucket Brdge 550	(1,618)
C031181 - DOTR-Pawtucket Br 550, Pine St Br	(2,223)
C032256 - Replace Getaways 107W53 and 107W65	(4,040)
C032355 - DOTR-Waterfront DrWarren AvDexterRd	(4,256)
C032363 - Inst. Mainline Cond. 6J6 and Conv.	(2,492)
C033786 - DOTR-Frenchtown Brook Bridge 435	(1,449)
C034605 - DOTR-NK-Reloc P.11-2 Boston Neck Rd	(376)
C034624 - Cox Wireless DAS Project	5,878
C041945 - 328 CCR	9
CD00018 - Targeted Reliability Improvement 2	(979)
CD00037 - New England Institute of Technology	5,045
CD00051 - Kent Farms URD, Wampanoag 48F5	(3,102)
CD00092 - Fdr 1131 Mars Plastics - Olneyville	(1,061)
CD00131 - Annaquatucket River URD_Daniel Dr	(296)
CD00240 - DOTR: I-195 RELOC./SIGNAL IMPROVEM	(3)
CD00251 - Ocean Ave Utility Burial Project -	3,510
CD00328 - Lighttower RI Fiber Make Ready Proje	36
CD00492 - Install Cable - Fdr 146J14 - Newport	(864)
CD00690 - NBC -Tunnel Project, Providence	(711)
CD00729 - Boston Scientific Service Upgrade	(13,451)
COS0010 - Ocean St-Dist-New Bus-Resid Blankt	(545,605)
COS0011 - Ocean St-Dist-New Bus-Comm Blanket.	(34,298)
COS0012 - Ocean St-Dist-St Light Blanket.	(327)
COS0013 - Ocean St-Dist-Public Require Blnkt	(42,976)
COS0014 - Ocean St-Dist-Damage&Failure Blnkt	(266,625)
COS0015 - Ocean St-Dist-Reliability Blanket.	(45,966)
COS0016 - Ocean St-Dist-Load Relief Blanket.	(6,097)
COS0017 - Ocean St-Dist-Asset Replace Blankt	(429,676)
COS0022 - Ocean St-Dist-3rd Party Attch Blnkt	16,125
SubTotal	(1,380,321)
<b>Grand Total</b>	<b>(2,201,258)</b>

- d. (b) Please see the Company's response to Division 1-11, a copy of which is provided as Attachment DIV 18-10 with the Company's response to Division 18-10 for ease of reference.
  
- d. (c) The Company has not identified any reimbursements for the projects listed in the table above; however, any reimbursements related to cost of removal would be included in the amounts shown above.

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- e. (a) Table 3 below sets forth the names of the projects in which the cost of removal occurred in the amount of \$2,140,467 in 2015 for Account 364.

**Table 3**

<b>Account 364, Poles, Towers , and Fixtures</b>	<b>Cost of Removal</b>
Funding Projects	2015
C001077 - DOTR-Trestle Trail Bike Path, Cov.	(432)
C005461 - FH - OS Feeder Hardening	(4,276)
C005505 - IE - OS Dist Transformer Upgrades	(85,874)
C006644 - IE - OS Targeted Pole Replace	(7,936)
C012179 - DOTR-Repl Great Island Bridge No499	(2,142)
C022433 - OSD Storm Cap Confirm Program Proj	(265,990)
C026281 - I&M - OS D-Line OH Work From Insp.	(288,371)
C027222 - West Farnum - Rem. Dist. Equipment	(5,773)
C028921 - New London Ave (D-Line)	(438)
C028932 - Recon. 0.5 Miles Segment of 2232	(7,963)
C031026 - DOTR-Pocasset River Bridge No. 23	(2,622)
C032575 - Pockets of Poor Performance - OS	(14,366)
C034002 - Johnston Sub 12kV Expansion Getawa.	(1,362)
C035087 - DOTR-Apponaug Circulator Imprv Warw	(14,900)
C036232 - Langworthy Substation (D-Line)	(3,198)
C036397 - Clarkson - new 13F10 feeder (line)	(137)
C036450 - 83F2 Load Relief - New Fdr (Dline)	(10,986)
C036516 - Kilvert St 87 - New Fdr (DLine)	(18,957)
C046352 - Volt Var Dline RI Pilot Project	(12,931)
C046506 - Tunk Hill Road, Scituate RI, Storm	(45,977)
C047495 - DG SVC OCI Solar RI-233	(4,089)
C048798 - 1000 Danielle Dr, Burrillville, R	(8,035)
C050657 - Senesco, N Kingstown, RI	(4,029)
C051646 - DG Svc to Soltas Enrgy Prov, RI	(1,034)
C053268 - Pawtucket No 1 Bus Sect 73 Relief	(10,983)
C053666 - RI DOT Billing for Closed Projects	1,909
C053946 - 45J4 45J6 Fdr Tie Carr Ln Jamestown	(6,086)
CD00138 - West Farnum Station Offload MakeRe	(208)
CD00246 - DOTR-Bartons Corner Bridge No. 518	2,261
<b>Sub Total</b>	<b>(824,925)</b>

(continued on next page)

**(Table 3 continued)**

<b>Account 364, Poles, Towers , and Fixtures</b>	<b>Cost of Removal</b>
Funding Projects	2015
CD00641 - Retire Pawtuxet Substation (D-Line)	(11,007)
CD00659 - Eldred Sub Asset Replacement(D-Lin	(10,126)
CD00752 - NBC - 1 Service Rd, Providence RI	11,062
CD00925 - Interim Plan to Serve CVS Data Cent	(1,061)
CD00932 - Worden Pond Rd Conversion So. Kings	(481)
CD00937 - IRURD Village Green Rehab	(14)
CD01080 - NBC Seekonk CSO interceptor	(125)
CD01243 - Pontiac substation Flood Restoratio	(1,723)
COS0010 - Ocean St-Dist-New Bus-Resid Blankt	(2,483,848)
COS0011 - Ocean St-Dist-New Bus-Comm Blanket.	(76,062)
COS0012 - Ocean St-Dist-St Light Blanket.	(4,819)
COS0013 - Ocean St-Dist-Public Require Blnkt	(80,766)
COS0014 - Ocean St-Dist-Damage&Failure Blnkt	(489,443)
COS0015 - Ocean St-Dist-Reliability Blanket.	1,919,279
COS0016 - Ocean St-Dist-Load Relief Blanket.	(15,313)
COS0017 - Ocean St-Dist-Asset Replace Blankt	(99,297)
COS0022 - Ocean St-Dist-3rd Party Attch Blnkt	28,203
SunTotal	(1,315,542)
<b>Grand Total</b>	<b>(2,140,467)</b>

- e. (b) Please see the Company's response to Division 1-11, a copy of which is provided as Attachment DIV 18-10 with the Company's response to Division 18-10 for ease of reference.
- e. (c) The Company has not identified any reimbursements for the projects listed in the table above; however, any reimbursements related to cost of removal would be included in the amounts shown above.

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- f. (a) Table 4 below sets forth the names of the projects in which the cost of removal occurred in the amount of \$2,421,632 in 2016 for Account 364.

**Table 4**

<b>Account 364, Poles, Towers , and Fixtures</b>	<b>Cost of Removal</b>
Funding Projects	2016
C005461 - FH - OS Feeder Hardening	(50,137)
C005505 - IE - OS Dist Transformer Upgrades	(34,385)
C006644 - IE - OS Targeted Pole Replace	(175)
C008775 - DOTR-Conant St R/R Bridge Pawtucket	3,245
C010126 - DOTR-Recnst Branch Av Br No976 Prov	3,795
C016122 - IE - OS ERR	(23,055)
C022433 - OSD Storm Cap Confirm Program Proj	(404,072)
C026281 - I&M - OS D-Line OH Work From Insp.	(60,378)
C028628 - Newport SubTrans & Dist Conversion	(75,553)
C029141 - DOTR-N. Broadway, Bridges 478&479	(24)
C031026 - DOTR-Pocasset River Bridge No. 23	128
C031181 - DOTR-Pawtucket Br 550, Pine St Br	310
C032991 - DOTR-Exeter, Ten Rod Rd Bridge #591	2,422
C033350 - DOTR-Prov Viaduct Bridge No. 578	(2,884)
C034624 - Cox Wireless DAS Project	(693)
C035087 - DOTR-Apponaug Circulator Imprv Warw	22,792
C036397 - Clarkson - new 13F10 feeder (line)	(14,866)
C036450 - 83F2 Load Relief - New Fdr (Dline)	(4,028)
C036516 - Kilvert St 87 - New Fdr (DLine)	(5,063)
C046352 - Volt Var Dline RI Pilot Project	(16,081)
C046398 - Memorial Blvd Easton's Beach inst d	(2,444)
C046832 - CLARKE St Feeder Upgrades (D-Line)	(12,590)
C047377 - IRURD Wethersfield Commons	(175)
C047422 - IRURD Maplewood	(11,538)
C049981 - Nsnville 127W41 New Customer Load	(92,373)
C050017 - Daggett Ave MC Retirement (D-Line)	(52,594)
C050422 - Admrl St 9J1 Line Relocation	8,445
C050615 - Indian Ave, Middletown RI.	(850)
C051892 - DOTR-N.Prov-1R Woonasquatucket Av	(17)
<b>Subtotal</b>	<b>(822,840)</b>

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**(Table 5 continued)**

<b>Account 364, Poles, Towers , and Fixtures</b>	<b>Cost of Removal</b>
Funding Projects	2016
C052709 - 3phse to 1425 Cranston St, Cranston	2,014
C053268 - Pawtucket No 1 Bus Sect 73 Relief	(120,187)
C053666 - RI DOT Billing for Closed Projects	46,353
C054005 - SHARPE BUILDING ASSC-Foundry Bld 4	(225)
C055228 - Hobbs Brook 2nd Fdr Svc Johnston RI	(1,872)
C055268 - AMGEN 35 kV-Second Feeder Service	18,190
C055465 - OKONITE COMPANY, Cumberland RI	(3,468)
C058281 - DG Svc to rTerra Johnston, RI	(2,557)
C059663 - Cutout Mnted Recloser Program_RI	(2,224)
C061446 - NARRAGANSETT INDIAN, Charlestown RI	(1,583)
C061826 - DG Svc to Foster Solar Foster RI	(3,441)
C063146 - DG Svc to Brandywick N Smithfield,	(3,210)
C065646 - SEAVIEW INN LLC, Middletown RI	(1,398)
C065888 - WED 15MW DG Service D-Line	(500)
C070328 - Cedar Ridge new dev W GreenwichRI	(785)
C071971 - UPG Verizon Charlestown RI	391
CD00189 - DOTR-Central Bridge No. 182 Replace	(2,186)
CD00373 - Watch Hill UG Phase 2	(15,587)
CD00641 - Retire Pawtuxet Substation (D-Line)	(3,388)
CD00766 - I-195 Contract 15 - Providence	(5,067)
CD01025 - Converting Customers to 127W41 fro	(1,063)
CD01205 - DOTR-Hussey Memorial Bridge No. 011	(1,799)
COS0010 - Ocean St-Dist-New Bus-Resid Blankt	(708,097)
COS0011 - Ocean St-Dist-New Bus-Comm Blanket.	(124,471)
COS0012 - Ocean St-Dist-St Light Blanket.	(514)
COS0013 - Ocean St-Dist-Public Require Blnkt	(94,485)
COS0014 - Ocean St-Dist-Damage&Failure Blnkt	(290,568)
COS0015 - Ocean St-Dist-Reliability Blanket.	(55,566)
COS0016 - Ocean St-Dist-Load Relief Blanket.	(10,757)
COS0017 - Ocean St-Dist-Asset Replace Blankt	(216,058)
COS0022 - Ocean St-Dist-3rd Party Attch Blnkt	5,316
Suntotal	(1,598,792)
<b>Grand Total</b>	<b>(2,421,632)</b>

- f. (b) Please see the Company's response to Division 1-11, a copy of which is provided as Attachment DIV 18-10 with the Company's response to Division 18-10 for ease of reference.
  
- f. (c) The Company has not identified any reimbursements for the projects listed in the table above; however, any reimbursements related to cost of removal would be included in the amounts shown above.

Division 18-13

Request:

Page VIII-15 of Attachment DIV 1-5 shows a \$3,624,708 Cost of Removal in 2016 for Accounts 369.1 and 369.2, Services. (This request references Attachment DIV 1-5 since the filed Schedule NWA-2 Electric does not contain pages with the account headings.)

- a. Provide the name of the projects in which this Cost of Removal occurred and provide the dollar amount for this project included in this \$3,624,708 amount.
- b. For the project named in response to part (a) explain in detail how the Cost of Removal was calculated. For example, is the Cost of Removal amount based on a percentage of the total labor for the project?
- c. How much reimbursement did the Company receive from any entity for any reason for the project named in response to part (a)? (By "reimbursement" we mean payments for the project from an entity other than payments from the general body of ratepayers in their normal utility rates.)
- d. Please provide the information requests in parts (a)-(c) except for the \$1,883,058 Cost of Removal in 2015.

Response:

- a. Table 1 below sets forth the names of the projects in which the cost of removal occurred in the amount of \$3,624,708 in 2016 for Accounts 369.1 and 369.2, Services.

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**Table 1**

<b>Accounts 369.1 and 369.2 Services</b>	<b>Cost of Removal</b>
Funding Projects	2016
C001077 - DOTR-Trestle Trail Bike Path, Cov.	(46)
C005505 - IE - OS Dist Transformer Upgrades	(15,306)
C005524 - IE - OS Cutout Replacements	(813)
C006644 - IE - OS Targeted Pole Replace	(1,646)
C022433 - OSD Storm Cap Confirm Program Proj	(574,940)
C026281 - I&M - OS D-Line OH Work From Insp.	(162,034)
C028628 - Newport SubTrans & Dist Conversion	(9,400)
C031026 - DOTR-Pocasset River Bridge No. 23	15
C033350 - DOTR-Prov Viaduct Bridge No. 578	386
C036397 - Clarkson - new 13F10 feeder (line)	(11,090)
C036516 - Kilvert St 87 - New Fdr (DLine)	(61,524)
C046352 - Volt Var Dline RI Pilot Project	(1,813)
C047377 - IRURD Wethersfield Commons	(148)
C049981 - Nsnville 127W41 New Customer Load	(36)
C050017 - Daggett Ave MC Retirement (D-Line)	(16,178)
C050422 - Admrl St 9J1 Line Relocation	185
C050615 - Indian Ave, Middletown RI.	(10)
C052686 - Prov RI Survey/Repl UG sec. cables	(13,891)
C053268 - Pawtucket No 1 Bus Sect 73 Relief	(2,709)
C054005 - SHARPE BUILDING ASSC-Foundry Bld 4	(395)
C055392 - RI UG Cable Repl Program - Secondar	(22,649)
CD00135 - I-195 Contract 14 - Providence	(9,719)
CD00373 - Watch Hill UG Phase 2	(16,685)
CD00641 - Retire Pawtuxet Substation (D-Line)	(1,957)
CD00766 - I-195 Contract 15 - Providence	24,210
COS0010 - Ocean St-Dist-New Bus-Resid Blankt	(562,401)
COS0011 - Ocean St-Dist-New Bus-Comm Blanket.	(286,961)
COS0012 - Ocean St-Dist-St Light Blanket.	(97)
COS0013 - Ocean St-Dist-Public Require Blnkt	(19,780)
COS0014 - Ocean St-Dist-Damage&Failure Blnkt	(1,546,680)
COS0015 - Ocean St-Dist-Reliability Blanket.	(109,081)
COS0016 - Ocean St-Dist-Load Relief Blanket.	(7,595)
COS0017 - Ocean St-Dist-Asset Replace Blankt	(200,860)
COS0022 - Ocean St-Dist-3rd Party Attch Blnkt	6,940
<b>Grand Total</b>	<b>(3,624,708)</b>

- b. Please see the Company's response to Division 1-11, a copy of which is provided as Attachment DIV 18-10 with the Company's response to Division 18-10 for ease of reference.

- c. The Company has not identified any reimbursements for the projects listed above in the response to part a.; however, any reimbursements related to cost of removal would be included in the amounts shown in the response to part a. above.

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d.(a) Table 2 below sets forth the names of the projects in which the Cost of Removal occurred in the amount of \$1,883,058 in 2016 for Accounts 369.1 and 369.2, Services.

**Table 2**

<b>Accounts 369.1 and 369.2 Services</b>	<b>Cost of Removal</b>
Funding Projects	2015
C005461 - FH - OS Feeder Hardening	(980)
C005505 - IE - OS Dist Transformer Upgrades	(22,900)
C006644 - IE - OS Targeted Pole Replace	(1,237)
C022433 - OSD Storm Cap Confirm Program Proj	(235,705)
C026281 - I&M - OS D-Line OH Work From Insp.	(79,149)
C028932 - Recon. 0.5 Miles Segment of 2232	(1,155)
C031026 - DOTR-Pocasset River Bridge No. 23	(90)
C035087 - DOTR-Apponaug Circulator Imprv Warw	(23)
C036232 - Langworthy Substation (D-Line)	(90)
C036516 - Kilvert St 87 - New Fdr (DLine)	(24,993)
C046506 - Tunk Hill Road, Scituate RI, Storm	(380)
C047396 - IRURD Silver Maple Drive	(1,068)
C047495 - DG SVC OCI Solar RI-233	(5,773)
C050657 - Senesco, N Kingstown, RI	(43)
C052686 - Prov RI Survey/Repl UG sec. cables	(33,176)
C055392 - RI UG Cable Repl Program - Secondar	(27,457)
CD00641 - Retire Pawtuxet Substation (D-Line)	(3,142)
CD00752 - NBC - 1 Service Rd, Providence RI	1,063
COS0010 - Ocean St-Dist-New Bus-Resid Blankt	(382,747)
COS0011 - Ocean St-Dist-New Bus-Comm Blanket.	(170,296)
COS0012 - Ocean St-Dist-St Light Blanket.	(1,647)
COS0013 - Ocean St-Dist-Public Require Blnkt	(12,199)
COS0014 - Ocean St-Dist-Damage&Failure Blnkt	(782,427)
COS0015 - Ocean St-Dist-Reliability Blanket.	(80,211)
COS0016 - Ocean St-Dist-Load Relief Blanket.	(2,498)
COS0017 - Ocean St-Dist-Asset Replace Blankt	(71,893)
COS0022 - Ocean St-Dist-3rd Party Attch Blnkt	57,157
<b>Grand Total</b>	<b>(1,883,058)</b>

d.(b). Please see the Company's response to Division 1-11, a copy of which is provided as Attachment DIV 18-10 with the Company's response to Division 18-10 for ease of reference.

d.(c) The Company has not identified any reimbursements related to the projects listed above in the response to part d(a). However, any reimbursements related to cost of removal would be included in the amounts shown in the response to part d(a) above.

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Division 18-17

Request:

Attachment DIV 1-26-1 shows a retirement of \$2,110,129 of 1969 vintage in 2014 in Account 380. Please provide an explanation of the amount of the largest three retirements included in the retirement amount of \$2,110,129 of 1969 vintage in 2014 for Account 380.

Response:

The three largest retirements included in this retirement amount are listed in the table below. The first row is for retirements associated with a mandated Gas Service Replacement Program. The retirements in the last two rows were retired as a part of a building demolition at 51 Lafayette Street, Wakefield, Rhode Island.

company	utility_account	retirement_unit	vintage	Activity Year	Retirements	quantity	cost
Narragansett E&G	38000-RIGASD-GAS SERVICES	MAIN, PLASTIC-NGRID INSTALL	1969	2014	Retirement	(34,934)	(2,109,206)
Narragansett E&G	38000-RIGASD-GAS SERVICES	MAIN, PLASTIC-NGRID INSTALL	1969	2014	Retirement	(5)	(302)
Narragansett E&G	38000-RIGASD-GAS SERVICES	MAIN, PLASTIC-NGRID INSTALL	1969	2014	Retirement	(4)	(242)

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Division 18-18

Request:

Attachment DIV 1-26-1 shows a retirement of \$590,844 of 1998 vintage in 2013 in Account 382. Please provide an explanation of the amount of the largest three retirements included in the retirement amount of \$590,844 of 1998 vintage in 2013 for Account 382.

Response:

The three largest retirements included in this retirement amount are listed in the table below. These retirements were a part of the Gas Meter Installation and Replacement Program.

company	utility_account	retirement_unit	vintage	Activity Year	Retirements	quantity	cost
Narragansett E&G	38220-RIGASD-SML METER& REG INSTL C	METER INSTALLATION	1998	2013	Retirement	(95)	(62,025)
Narragansett E&G	38220-RIGASD-SML METER& REG INSTL C	METER INSTALLATION	1998	2013	Retirement	(41)	(26,768)
Narragansett E&G	38220-RIGASD-SML METER& REG INSTL C	METER INSTALLATION	1998	2013	Retirement	(34)	(22,197)

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Division 18-19

Request:

Attachment DIV 1-26-1 shows a retirement of \$408,043 of 1998 vintage in 2014 in Account 382. Please provide an explanation of the amount of the largest three retirements included in the retirement amount of \$408,043 of 1998 vintage in 2014 for Account 382.

Response:

The three largest retirements included in this retirement amount are listed in the table below. These retirements were a part of the Gas Meter Installation and Replacement Program.

company	utility_account	retirement_unit	vintage	Activity Year	Retirements	quantity	cost
Narragansett E&G	38220-RIGASD-SML METER& REG INSTL C	METER INSTALLATION	1998	2014	Retirement	(14)	(9,141)
Narragansett E&G	38220-RIGASD-SML METER& REG INSTL C	METER INSTALLATION	1998	2014	Retirement	(13)	(8,488)
Narragansett E&G	38220-RIGASD-SML METER& REG INSTL C	METER INSTALLATION	1998	2014	Retirement	(10)	(6,529)

Division 18-20

Request:

Page VIII-8 of Schedule NWA-2 Gas shows a \$3,102,719 Cost of Removal in 2012 for Accounts 376.1, 376.12, and 376.13, Mains.

- a. Provide the name of the projects in which this Cost of Removal occurred and provide the dollar amount for this project included in this \$3,102,719 amount.
- b. For the project named in response to part (a) explain in detail how the Cost of Removal was calculated. For example, is the Cost of Removal amount based on a percentage of the total labor for the project?
- c. How much reimbursement did the Company receive from any entity for any reason for the project named in response to part (a)? (By "reimbursement" we mean payments for the project from an entity other than payments from the general body of ratepayers in their normal utility rates.)
- d. Please provide the information requests in parts (a)-(c) except for the \$1,402,558 Cost of Removal in 2015.
- e. Please provide the information requests in parts (a)-(c) except for the \$1,013,777 Cost of Removal in 2016.

Response:

- a. Table 1 sets forth the projects in which the cost of removal occurred in the amount of \$3,102,719 in 2012 for Accounts 376.1, 376.12, and 376.13, Mains.

**Table 1**

<b>Accounts 376.1, 376.12 and 376.12 Mains</b>	<b>Cost of Removal</b>
<b>Funding Projects</b>	<b>2012</b>
C016919 - I195 HAYWOOD PK., PROV-Bud. Cat. 20	(31,816)
C016925 - 3RD RAIL RI FRT RAIL IMPROV-Bud. Ca	(356)
C016933 - WARREN BRIDGE #124-Bud. Cat. 200	(14,552)
C027483 - Hartford Ave Johnston	(21,000)
C036224 - ROMANO VINEYARD WAY	(1,466)
C037062 - NATICK AVE CULVERT	(1,536)
C037145 - Rte 3 Improvements Main Relay	(15,469)
C037407 - Rte 91 Improvements, Westerly, RI	(302)
C037442 - NBC Contract OF027 Relay	(47,306)
C039243 - Water Intrusion	(29,653)
C039268 - Pressure Regulating Facilities	(9,163)
C039553 - PVD-NBC 037	(809)
C039762 - Old Atwood Ave	(175)
C039943 - Wood St (Garfield to Woodlawn Ave)	(1,450)
CON0029 - Mandated Service & Service Cutoff	(18,620)
CON0030 - Leak Repair scheduled/unscheduled	(78,909)
CON0034 - RI-Gas-Main Repl-Age-RI Blnkt	(668,736)
CON0036 - RI-Gas-Main Repl-SysEnhan-RI Blnkt	(11,694)
CON0038 - RI-Gas-Regltr Stat Repl-RI Blanket	(73,524)
CON0040 - RI-Gas-Repl Serv Install-RI Blanket	(64,386)
CON0050 - RI-Gas-Main New Grwth-RI Blanket	(13,114)
CON0054 - RI-Gas-New Serv Inst-RI Blanket	(2,455)
CON0060 - RI-Gas-Main Repl Govt-RI Blanket	(1,968,776)
CON0066 - Gas Main Encroachment	(30,882)
Miscellaneous Adjustment	3,430
<b>Grand Total</b>	<b>(3,102,719)</b>

- b. Please see the Company's response to Division 1-29, attached hereto as Attachment DIV 18-20 for ease of reference.
- c. The Company has not identified any reimbursements for the projects listed in Table 1 above; however, any reimbursements related to cost of removal would be included in the amounts shown above.

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- d. (a) Table 2 below sets forth the projects in which the cost of removal occurred in the amount of \$1,402,558 in 2015 for Accounts 376.1, 376.12, and 376.13, Mains.

**Table 2**

<b>Account 380 Services</b>	<b>Cost of Removal</b>
Funding Projects	2015
C031693 - RI Gas Scrap	(130,587)
C037342 - Omega Pond Dam Fish Passage Mn Rely	(69)
C043243 - NBC Woonasquatucket CSO Mn Relays	(1,029)
C044752 - RIDOT 195 Cont 15 - Reimbursables	(186)
C048063 - Canal Street - Regulator Reloc	(1,748)
C051526 - RIDOT: Apponaug Curculator	(188,601)
C054484 - New Business Residential Pilot	(2,065)
CON0029 - Mandated Service & Service Cutoff	(2,400)
CON0030 - Leak Repair scheduled/unscheduled	(12,896)
CON0034 - RI-Gas-Main Repl-Age-RI Blnkt	(191,242)
CON0036 - RI-Gas-Main Repl-SysEnhan-RI Blnkt	(27,417)
CON0038 - RI-Gas-Regltr Stat Repl-RI Blanket	(4,999)
CON0040 - RI-Gas-Repl Serv Install-RI Blanket	(683)
CON0054 - RI-Gas-New Serv Inst-RI Blanket	(1,116)
CRCC102 - New Bus - Res -RI.	(3,255)
CRCC104 - New Bus - Com -RI	22,460
CRCC111 - Growth reinforce - Proactive-RI	(143,806)
CRCC203 - Bare Steel Main Replace-RI	(64,769)
CRCC207 - CI Main Replace < 10"-RI	(183,573)
CRCC306 - Main Repl Pub work non-reimb-RI	(368,090)
CRCC307 - Main Repl Pub work reimb-RI	(4,319)
CRCC308 - Gas Main Encroach Parallel-RI	(12,390)
CRCC312 - Gas Main Encroach Undermined-RI	(26,532)
CRCC401 - Gas Planning - Reliability-RI.	(5,203)
CRFS210 - React Main & Serv Work Nonleak-RI.	(107)
CRFS219 - Leak Invest/Repair Serv & Main-RI	(38,024)
CRFS309 - Service Demolitions-RI	(593)
CRIC402 - Pres Reg Facil - proactive-RI	(11,178)
Miscellaneous Adjustment	1,856
<b>Grand Total</b>	<b>(1,402,558)</b>

- d. (b) Please see the Company's response to Division 1-29, attached hereto as Attachment DIV 18-20 for ease of reference.
- d. (c) The Company received a reimbursement amount of \$1,779.67 for Work Order C044752 and \$396.51 for Work Order CRCC307 listed in Table 2 above; however, none of these reimbursement amounts are related to the cost of removal for these projects.
- e. (a) Table 3 sets forth the names of the projects in which the Cost of Removal occurred in the amount of \$1,013,777 in 2016 for Accounts 376.1, 376.12, and 376.13, Mains.

**Table 3**

<b>Account 380 Services</b>	<b>Cost of Removal</b>
Funding Projects	2016
C031693 - RI Gas Scrap	(53,289)
C051525 - Atwells Ave bridge	(17,451)
C051526 - RIDOT: Apponaug Curculator	(10,387)
C054484 - New Business Residential Pilot	(252)
CON0034 - RI-Gas-Main Repl-Age-RI Blnkt	(101,260)
CON0040 - RI-Gas-Repl Serv Install-RI Blanket	(3,647)
CON0066 - Gas Main Encroachment	(1,003)
CRCC102 - New Bus - Res -RI.	(516)
CRCC104 - New Bus - Com -RI	(9,288)
CRCC111 - Growth reinforce - Proactive-RI	(278,704)
CRCC203 - Bare Steel Main Replace-RI	(201,528)
CRCC207 - CI Main Replace < 10"-RI	(133,767)
CRCC306 - Main Repl Pub work non-reimb-RI	(122,309)
CRCC307 - Main Repl Pub work reimb-RI	(308)
CRCC308 - Gas Main Encroach Parallel-RI	(50,471)
CRCC312 - Gas Main Encroach Undermined-RI	(11,281)
CRFS210 - React Main & Serv Work Nonleak-RI.	(3,177)
CRFS219 - Leak Invest/Repair Serv & Main-RI	(367)
CRFS309 - Service Demolitions-RI	0
CRIC402 - Pres Reg Facil - proactive-RI	(14,772)
<b>Grand Total</b>	<b>(1,013,777)</b>

- e. (b) Please see the Company's response to Division 1-29, attached hereto as Attachment DIV 18-20.

- e. (c) The Company received a reimbursement amount of \$396,581 for Work Order CRCC307 listed above; however, none of this reimbursement amount is related to the cost of removal for this project.

Division 1-29

Request:

NWA-2 Gas (2016 Gas Depreciation Study) includes the net salvage history for Account 376 - Mains.

- (a) Is it a correct statement that the Mains in Account 376 are generally retired in place? If this is not a correct statement, provide the corrected statement and the support for the corrected statement.
- (b) In total for the years 2012-2016, were at least 75% of the Mains in Account 376 that retired during those years retired in place? If this is not a correct statement, provide the corrected statement and the support for the corrected statement.
- (c) In total for the years 2012-2016, what percent of the Mains in Account 376 that were retired during those years retired in place?
- (d) If the response to part (b) is something other than an unqualified affirmative, explain the most frequent reason that the Mains were not retired in place, and explain how they were physically retired (for example dug up the entire length and physically removed).

Response:

- (a) Yes. The vast majority (greater than 95 percent) of Narragansett Gas' mains that are retired are retired in place. The Company infrequently removes retired mains from the ground.
- (b) Yes. For the years 2012-2016, at least 75 percent of the mains in Account 376 that were retired were retired in place.
- (c) The Company does not track this information; however, most mains are retired in place.
- (d) Not applicable.

Division 18-21

Request:

18-21. Page VIII-12 of Schedule NWA-2 Gas shows a \$2,410,293 Cost of Removal in 2012 for Account 380, Services.

- a. Provide the name of the projects in which this Cost of Removal occurred and provide the dollar amount for this project included in this \$2,410,293 amount.
- b. For the project named in response to part (a) explain in detail how the Cost of Removal was calculated. For example, is the Cost of Removal amount based on a percentage of the total labor for the project?
- c. How much reimbursement did the Company receive from any entity for any reason for the project named in response to part (a)? (By "reimbursement" we mean payments for the project from an entity other than payments from the general body of ratepayers in their normal utility rates.)
- d. Please provide the information requests in parts (a)-(c) except for the \$2,366,279 Cost of Removal in 2014.
- e. Please provide the information requests in parts (a)-(c) except for the \$2,183,582 Cost of Removal in 2015.

Response:

- a. Table 1 below sets forth the names of the projects in which the cost of removal occurred in the amount of \$2,410,293 for Account 380, Services.

**Table 1**

<b>Account 380 Services</b>	<b>Cost of Removal</b>
Funding Projects	2012
C017141 - Paving	(3,260)
C017648 - FAP - Smithfield Av.	(344)
C021471 - Misc. Legacy FAP Projects	4,282
C031892 - Service Replacement Program	(471,327)
C033090 - RI Upratings/Deratings FY09/10	(2,212)
C037442 - NBC Contract OF027 Relay	(3,196)
C039267 - CI Joint Encapsulation	(445)
CON0029 - Mandated Service & Service Cutoff	(697,324)
CON0030 - Leak Repair scheduled/unscheduled	(582,568)
CON0032 - RI-Gas-Main Repl-Damage Blnkt	(353)
CON0034 - RI-Gas-Main Repl-Age-RI Blnkt	(133,925)
CON0036 - RI-Gas-Main Repl-SysEnhan-RI Blnkt	(3,092)
CON0040 - RI-Gas-Repl Serv Install-RI Blanket	(423,854)
CON0050 - RI-Gas-Main New Grwth-RI Blanket	(15,459)
CON0054 - RI-Gas-New Serv Inst-RI Blanket	(55,633)
CON0060 - RI-Gas-Main Repl Govt-RI Blanket	(15,363)
CON0062 - Tools-RI	(11)
CON0066 - Gas Main Encroachment	(2,780)
Miscellaneous Adjustment	(3,430)
<b>Grand Total</b>	<b>(2,410,293)</b>

- b. Please see the Company's response to Division 1-29, a copy of which is provided as Attachment DIV 18-20 with the Company's response to Division 18-20 for ease of reference.
- c. The Company has not identified any reimbursements for the projects listed in Table 1 above; however, any reimbursements related to cost of removal would be included in the amounts shown above.
- d. (a) Table 2 below sets forth the names of the projects in which the cost of removal occurred in the amount of \$2,366,279 in 2014 Account 380, Services.

**Table 2**

<b>Account 380 Services</b>	<b>Cost of Removal</b>
Funding Projects	2014
C031892 - Service Replacement Program	(158,963)
C033090 - RI Upratings/Deratings FY09/10	(994)
C037407 - Rte 91 Improvements, Westerly, RI	158,641
C039267 - CI Joint Encapsulation	(2,248)
C043465 - RIDOT 195 Cont 14 - Reimbursable	(115)
CAP0048 - Capital Overheads	(79)
CON0029 - Mandated Service & Service Cutoff	(668,403)
CON0030 - Leak Repair scheduled/unscheduled	(356,200)
CON0034 - RI-Gas-Main Repl-Age-RI Blnkt	(22,759)
CON0040 - RI-Gas-Repl Serv Install-RI Blanket	(96,707)
CON0050 - RI-Gas-Main New Grwth-RI Blanket	(989)
CON0054 - RI-Gas-New Serv Inst-RI Blanket	(95,550)
CON0066 - Gas Main Encroachment	(2,048)
CRCC102 - New Bus - Res -RI.	(782)
CRCC104 - New Bus - Com -RI	(6,714)
CRCC203 - Bare Steel Main Replace-RI	(4,328)
CRCC207 - CI Main Replace < 10"-RI	(2,620)
CRCC218 - Proact Serv Replace Prog-RI	(21,534)
CRFN219 - Leak Invest/Repair Serv & Main-RI	(7,669)
CRFN309 - Service Demolitions-RI	(38,174)
CRFN310 - Cappd Alve-IRA/IRMA- RI	(2,250)
CRFS210 - React Main & Serv Work Nonleak-RI.	(19,061)
CRFS219 - Leak Invest/Repair Serv & Main-RI	(178,182)
CRFS309 - Service Demolitions-RI	(836,830)
CRFS310 - Cappd Alve-IRA/IRMA- RI	(1,722)
<b>Grand Total</b>	<b>(2,366,279)</b>

- d. (b) Please see the Company's response to Division 1-29, a copy of which is provided as Attachment DIV 18-20 with the Company's response to Division 18-20 for ease of reference.
- d. (c) The Company received a reimbursement amount of \$1,779.67 for Work Order C043465 listed above; however, none of this reimbursement amount is related to the cost of removal for this project.

- e. (a) Table 3 below sets forth the names of the projects in which the cost of removal occurred in the amount of the \$2,183,582 in 2015, for Account 380, Services.

**Table 3**

<b>Account 380 Services</b>	<b>Cost of Removal</b>
<b>Funding Projects</b>	<b>2015</b>
C031892 - Service Replacement Program	(92,708)
C033090 - RI Upratings/Deratings FY09/10	(1,623)
C039267 - CI Joint Encapsulation	(21,899)
CON0029 - Mandated Service & Service Cutoff	(367,668)
CON0030 - Leak Repair scheduled/unscheduled	(216,582)
CON0034 - RI-Gas-Main Repl-Age-RI Blnkt	(12,046)
CON0040 - RI-Gas-Repl Serv Install-RI Blanket	(10,393)
CON0050 - RI-Gas-Main New Grwth-RI Blanket	(1,026)
CON0054 - RI-Gas-New Serv Inst-RI Blanket	(22,255)
CRCC102 - New Bus - Res -RI.	(741)
CRCC111 - Growth reinforce - Proactive-RI	(696)
CRCC203 - Bare Steel Main Replace-RI	(358)
CRCC207 - CI Main Replace < 10"-RI	(7,739)
CRCC218 - Proact Serv Replace Prog-RI	(85,979)
CRCC306 - Main Repl Pub work non-reimb-RI	(119)
CRCC401 - Gas Planning - Reliability-RI.	(144)
CRFN210 - React Main & Serv Work Nonleak-RI.	(1,135)
CRFN211 - CI Joint Encapsulate (RI hub rule)	(300)
CRFN219 - Leak Invest/Repair Serv & Main-RI	(65,919)
CRFN309 - Service Demolitions-RI	(125,774)
CRFN310 - Cappd Alve-IRA/IRMA- RI	(39,983)
CRFS210 - React Main & Serv Work Nonleak-RI.	(21,242)
CRFS219 - Leak Invest/Repair Serv & Main-RI	(457,697)
CRFS309 - Service Demolitions-RI	(510,994)
CRFS310 - Cappd Alve-IRA/IRMA- RI	(118,562)
<b>Grand Total</b>	<b>(2,183,582)</b>

- e. (b) Please see the Company's response to Division 1-29, a copy of which is provided as Attachment DIV 18-20 with the Company's response to Division 18-20 for ease of reference.

- e. (c) The Company has not identified any reimbursements for the projects listed in Table 3 above; however, any reimbursements related to cost of removal would be included in the amounts shown above.