

January 20, 2015

**BY HAND DELIVERY AND ELECTRONIC MAIL**

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

**RE: Docket 4539 - National Grid's Proposed FY 2016 Electric Infrastructure, Safety, and Reliability Plan**  
**Response to PUC Data Requests – Set 1**

Dear Ms. Massaro:

On behalf of National Grid,<sup>1</sup> I have enclosed ten (10) copies of the Company's response to the Rhode Island Public Utilities Commission's (PUC) First Set of Data Requests in the above-referenced docket.

Pursuant to PUC Rule 1.2(g) and R.I. Gen. Laws § 38-2-2(4)(B), I have enclosed a motion for confidential treatment of Attachment PUC 1-1-2. For the PUC's review, I have also enclosed one copy of the CD-ROM that contains the confidential version of Attachment PUC 1-1-2.

Thank you for your attention to this matter. If you have any questions, please contact me at 781-907-2121.

Very truly yours,



Raquel J. Webster

Enclosures

cc: Steve Scialabba, Division  
Greg Booth, Division  
Leo Wold, Esq.  
James Lanni, Division  
Al Contente, Division

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

Certificate of Service

I hereby certify that a copy of the cover letter and any materials accompanying this certificate was electronically transmitted to the individuals listed below.

Copies of this filing are being hand delivered to the Rhode Island Public Utilities Commission and the Rhode Island Division of Public Utilities and Carriers.



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Joanne M. Scanlon

January 20, 2015

Date

**Docket No. 4539 National Grid's FY 2016 Electric Infrastructure, Safety and Reliability Plan - Service List as of 1/8/15**

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<b>File an original &amp; nine copies w/:</b> Luly E. Massaro, Commission Clerk Public Utilities Commission	<a href="mailto:Luly.massaro@puc.ri.gov">Luly.massaro@puc.ri.gov</a>	401-780-2107
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**STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS  
RHODE ISLAND PUBLIC UTILITIES COMMISSION**

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**FY 2016 Proposed Electric ISR Plan**

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**Docket No. 4539**

**NATIONAL GRID'S MOTION FOR PROTECTIVE TREATMENT  
OF CONFIDENTIAL INFORMATION**

National Grid<sup>1</sup> respectfully requests that the Rhode Island Public Utilities Commission (PUC) provide confidential treatment and grant protection from public disclosure certain confidential, competitively sensitive, and proprietary information submitted in this proceeding, as permitted by PUC Rule 1.2(g) and R.I. Gen. Laws § 38-2-2(4)(B). National Grid also respectfully 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 January 20, 2015, National Grid filed with the PUC its responses to the PUC's First Set of Data Requests in this matter. In PUC Data Request No. 1-1, the PUC requests a copy of any data responses the Company provided to the Rhode Island Division of Public Utilities and Carriers (Division) as part of its review of National Grid's proposed FY 2015 Electric Infrastructure, Safety, and Reliability Plan (Plan) prior to when National filed the Plan with the PUC. Accordingly, the Company has enclosed documents it produced in response to the Division's first and second set of data requests relating to the Plan.

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

In responding to the Division's data request R-I-11<sup>2</sup>, the Company included a password-protected CD-ROM that contained the Quonset and Providence Long-Term Supply Studies. These studies contain highly confidential, proprietary, privileged, and sensitive Critical Energy Infrastructure (CEII) Information. Therefore, National Grid respectfully requests that the PUC afford confidential treatment to the information contained in Confidential Attachment PUC 1-1-2 on CD-ROM, which includes the confidential studies that were attached to the Company's response to Division data request R-I-11.

## **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. Gen. Laws § 38-2-1 *et seq.* Under the APRA, all documents and materials submitted in connection with the transaction of official business by an agency is considered a "public record," unless the information contained in such documents and materials falls within one of the exceptions specifically identified in R.I. Gen. Laws § 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 the APRA to treat such information as confidential and to protect that information from public disclosure.

In that regard, R.I. Gen. Laws. § 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.

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<sup>2</sup> Division R-I-11 was part of the Divisions first set of data requests to the Company. However, the Company responded to this data request separately.

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

The first prong of the test is satisfied when information is provided voluntarily 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. Providence Journal, 774 A.2d at 47.

### **III. BASIS FOR CONFIDENTIALITY**

The CEII information contained in Attachment PUC 1-1-2 is highly confidential and proprietary for reasons of system security, and disclosure of this information would have serious adverse effects on the integrity of National Grid's infrastructure and system security. As such, this CEII information satisfies the test for exceptions to the APRA and, therefore, warrants protection from public disclosure.

### **IV. CONCLUSION**

Accordingly, the Company respectfully requests that the PUC grant protective treatment to confidential Attachment PUC 1-1-2 on CD-ROM.

**WHEREFORE**, the Company respectfully requests that the PUC grant its Motion for Protective Treatment of Confidential Attachment PUC 1-1-2 on CD-ROM.

Respectfully submitted,

**NATIONAL GRID**

By its attorneys,



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Raquel J. Webster, RI Bar # 9064  
National Grid  
40 Sylvan Road  
Waltham, MA 02451  
(781)-907-2121

Dated: January 20, 2015

PUC 1-1

Request:

Please provide a copy of any data responses provided to the Division of Public Utilities and Carriers as part of its review of National Grid's FY 2015 Electric Infrastructure, Safety, and Reliability Proposal prior to being filed with the Commission.

Response:

Attached are copies of the Company's data responses and attachments that were provided to the Division of Public Utilities and Carriers (Division) as part of the Division's review of the Company's proposed FY 2016 Electric Infrastructure, Safety and Reliability Plan. The enclosed responses include:

- Attachment PUC 1-1-1: Company's responses to Division's First Set of Data Requests, dated November 14, 2014.
- Confidential Attachment PUC 1-1-2: Company's response to Division R-I-11, dated November 19, 2014. This confidential attachment is being provided on a password-protected CD-ROM.
- Attachment PUC 1-1-3: Company's responses to Division's Second Set of Data Requests, dated November 19, 2014.
- Attachment PUC 1-1-4: Company's response to Division R-II-4, dated December 9, 2014.

Pursuant to PUC Rule 1.2(g), the Company seeks confidential treatment of Confidential Attachment PUC 1-1-2, which contains two studies that contain confidential Critical Energy Infrastructure (CEII) Information. Specifically, the attachments provided in response to Division R-I-11 are password-protected files and were provided to the Division on a confidential password-protected CD-ROM as Confidential-DIV R-I-11-Attachment 1 (Quonset Study) and Confidential-DIV-R-I-11-Attachment 2 (Providence Long-Term Supply Study).

For the PUC's review, the Company has enclosed one (1) confidential CD-ROM that contains the above-referenced studies as password-protected files.

In addition, the Company has enclosed three CD-ROMs that contain Excel files of the attachments the Company provided to the Division in response to Division Data Requests R-I-1, R-I-2, and R-I-4.



**Raquel J. Webster**  
Senior Counsel

November 14, 2014

**BY HAND DELIVERY & ELECTRONIC MAIL**

Luly E. Massaro, Clerk  
Rhode Island Division of Public Utilities and Carriers  
89 Jefferson Boulevard  
Warwick, RI 02888

**RE: National Grid's Proposed FY 2016 Electric Infrastructure, Safety, and Reliability Plan  
Responses to Division Data Requests – Set 1**

Dear Ms. Massaro:

I have enclosed five (5) copies of National Grid's<sup>1</sup> responses to the Division's First Set of Data Requests issued in the above-referenced matter.

Please be advised that the Company has enclosed three (3) CD-ROMs, which contain attachments in Excel format, as requested by the Division in several data requests. I have sent a copy of these responses (including the CD-ROM with the Excel files) to Greg Booth, the Division's consultant, by overnight mail.

Please note that National Grid's response to the Division's Data Request R-I-11 is pending. National Grid will file its response to that data request early next week.

Thank you for your attention to this transmittal. If you have any questions, please contact me at (781) 907-2121.

Very truly yours,

A handwritten signature in blue ink, appearing to read "Raquel Webster", with a stylized flourish at the end.

Raquel J. Webster

Enclosures

cc: Steve Scialabba  
Leo Wold, Esq.  
Jim Lanni  
Al Contente

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

The Narragansett Electric Company  
d/b/a National Grid  
In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's First Set of Data Requests  
Issued October 30, 2014

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Division R-I-1  
(General)

Request:

From FY 2016 ISR filing dated 10/10/14 Section 2; provide Attachment 2 (project detail for proposed capital spending) and Attachment 5 (capital plan budget and details) in Excel format.

Response:

Please see Attachment DIV-R-I-1 (CD-ROM), which includes Attachment 2 and Attachment 5 in Excel format.

The Narragansett Electric Company  
d/b/a National Grid  
In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's First Set of Data Requests  
Issued October 30, 2014

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Division R-I-2  
(General)

Request:

From Prefile Planning Information on LRP Part III dated 8/19/2014; provide Feeder and Transformer load Projections Tables in Excel format.

Response:

Please see Attachment DIV-R-I-2 (CD-ROM) for Feeder and Transformer load Projections Tables in Excel format.

The Narragansett Electric Company  
d/b/a National Grid

In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's First Set of Data Requests  
Issued October 30, 2014

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Division R-I-3  
(General)

Request:

Provide photographs of South Street substation.

Response:

Please see the attached South Street substation photos, which are summarized as follows:

- Inside photos have a naming convention specifying the substation section, followed by the building floor, followed by the phase. For example, "S3" represents section 3 and "1F" specifies first floor. The phase is represented by either "A", "B", or "C" as appropriate.
- Attachment 1 to DIV-R-I-3 (SouthStSub\_Exterior\_11kVBus-NEside).jpg – shows 11kV exterior bus from the northeast corner of the station.
- Attachment 2 to DIV-R-I-3 (SouthStSub\_S2\_1F\_C\_doorway).jpg – shows doorway designations identifying location within the building.
- Attachment 3 to DIV-R-I-3 (SouthStSub\_S3\_2F\_B\_hallway).jpg – shows a typical section hallway with disconnect compartments to lower left, reactor compartments to upper left, and breakers cubicles to the right of the photo.
- Attachment 4 to DIV-R-I-3 (SouthStSub\_S3\_2F\_B\_1B1111\_topbreakerarea).jpg – shows the top of a breaker and area above the breaker with bus connections, instrument transformers, and disconnects.
- Attachment 5 to DIV-R-I-3 (SouthStSub\_S2\_1F\_C\_1151\_dash-3 switches).jpg – shows a typical disconnect compartment.
- Attachment 6 to DIV-R-I-3 (SouthStSub\_S2\_1F\_C\_1151\_dash-3 opmech).jpg – shows the operating mechanism for the disconnect.
- Attachment 7 to DIV-R-I-3 (SouthStSub\_S2\_1F\_C\_1151\_reactor).jpg – shows a typical reactor compartment.

Prepared by or under the supervision of: Ryan Constable

The Narragansett Electric Company  
d/b/a National Grid  
In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's First Set of Data Requests  
Issued October 30, 2014

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Division R-I-3  
(General), page 2

- Attachment 8 to DIV-R-I-3 (SouthStSub\_S2\_1F\_C\_1151\_compartment transition).jpg – shows the transition from the disconnect compartment to the reactor compartment.

## South Street Sub (Exterior 11 kV Bus-NE Side)

Attachment 1-DIV-R-I-3  
In Re: Rhode Island Division's Review of  
FY 2016 Proposed Electric ISR Plan  
Responses to Division's Data Requests - Set 1  
Issued October 30, 2014  
Page 1 of 1



## South Street Sub-S2 1FC Doorway



## South Street Sub-S3-2FB Hallway



## South Street Sub-S3 2FB 1B1111 Top Breaker Area

Attachment 4-DIV-R-1-3  
In Re: Rhode Island Division's Review of  
FY 2016 Proposed Electric ISR Plan  
Responses to Division's Data Requests - Set 1  
Issued October 30, 2014  
Page 1 of 1



## South Street Sub-S2 F1 C1151 -Dash 3 Switches

Attachment 5-DIV-R-I-3  
In Re: Rhode Island Division's Review of  
FY 2016 Proposed Electric ISR Plan  
Responses to Division's Data Requests - Set 1  
Issued October 30, 2014  
Page 1 of 1



### South Street Sub-S2 1F C1151-Dash 3 Opmech



## South Street Sub-S2 1F C1151-Reactor

Attachment 7-DIV-R-I-3  
In Re: Rhode Island Division's Review of  
FY 2016 Proposed Electric ISR Plan  
Responses to Division's Data Requests - Set 1  
Issued October 30, 2014  
Page 1 of 1



## South Street Sub-S2 1F C1151-Compartment Transition

Attachment 8-DIV-R-I-3  
In Re: Rhode Island Division's Review of  
FY 2016 Proposed Electric ISR Plan  
Responses to Division's Data Requests - Set 1  
Issued October 30, 2014  
Page 1 of 1



The Narragansett Electric Company  
d/b/a National Grid  
In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's First Set of Data Requests  
Issued October 30, 2014

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Division R-I-4  
(East Bay and Providence Short-Term CYME modeling)

Request:

Provide actual peak loads for 2009 - 2013 for East Bay and Providence.

Response:

Please see Attachment DIV-R-I-4, which reflects the actual peak loads for 2009-2013 for East Bay and Providence. Please note that the response to Division R-I-6 contains additional information regarding feeder ratings that are included in Attachment DIV-R-I-4 (CD-ROM).

Attachment DIV-R-I-4  
In Re: Rhode Island Division's Review of  
FY 2016 Proposed Electric ISR Plan  
Responses to Division's Data Requests - Set 1  
Issued October 30, 2014  
Page 1 of 4

Attachment DIV-R-I-4 / Attachment DIV-R-I-6 - Actual Peak Loads 2009-2013 and Equipment Ratings - Feeders  
2014 Annual Planning  
East Bay & Providence Study Areas

Study Area	Substation	Voltage (kV)	Feeder	Normal Limiting Element	Normal Element Specifics	SN Rating (Amps)	Emergency Limiting Element	Emergency Element Specifics	SE Rating (Amps)	Actual Loads				
										2009 Amps	2010 Amps	2011 Amps	2012 Amps	2013 Amps
East Bay	Barrington 4	12.47	4F1	OH Line	336.4 AI	515	OH Line	336.4 AI	515	300	341	499	387	305
East Bay	Barrington 4	12.47	4F2	Relay/Fuse	Safe Carry	510	Relay/Fuse	Safe Carry	510	360	375	356	428	432
East Bay	Bristol 51A	12.47	51F1	OH Line	477 AI (COSMOS) Bare	645	OH Line	477 AI (COSMOS) Bare	645	436	402	478	439	472
East Bay	Bristol 51A	12.47	51F2	OH Line	477 AI Spcr	530	Relay/Fuse	Safe Carry	612	340	347	428	420	437
East Bay	Bristol 51A	12.47	51F3	UG Cable	750 AI	502	UG Cable	Cutaway	567	336	433	368	360	392
East Bay	Kent Corners 47	4.16	47J2	Relay/Fuse	Relay Safe Carry	408	Relay/Fuse	Relay Safe Carry	408	252	276	300	264	296
East Bay	Kent Corners 47	4.16	47J3	Relay/Fuse	Relay Safe Carry	408	Relay/Fuse	Relay Safe Carry	408	208	244	330	288	308
East Bay	Kent Corners 47	4.16	47J4	Relay/Fuse	Relay Safe Carry	408	Relay/Fuse	Relay Safe Carry	408	320	360	296	344	336
East Bay	Phillipsdale 20	12.47	20F1	OH Line	336.4 AI Spcr	425	OH Line	336.4 AI Spcr	450	266	269	259	274	296
East Bay	Phillipsdale 20	12.47	20F2	OH Line	336.4 AI Spcr	425	OH Line	336.4 AI Spcr	450	285	280	305	304	359
East Bay	Wampanoag 48	12.47	48F1	OH Line	400 CU (S+17A)	502	OH Line	400 CU (S+17A)	507	378	383	450	470	430
East Bay	Wampanoag 48	12.47	48F2	OH Line	336.4 AI	515	OH Line	336.4 AI	515	348	360	372	352	392
East Bay	Wampanoag 48	12.47	48F3	UG Cable	1000 AI	510	OH Line	336.4 AI	515	468	412	496	468	492
East Bay	Wampanoag 48	12.47	48F4	OH Line	477 AI Spcr	530	OH Line	Safe Carry	612	434	457	501	499	477
East Bay	Wampanoag 48	12.47	48F5	OH Line	400 Cu	485	313	400 Cu	490	314	473	373	348	406
East Bay	Wampanoag 48	12.47	48F6	OH Line	477 AI Spcr	530	OH Line	Safe Carry	612	389	445	520	452	370
East Bay	Warren 5	12.47	5F1	OH Line	336.4 AI Spcr	425	OH Line	336.4 AI Spcr	520	309	304	409	318	360
East Bay	Warren 5	12.47	5F2	OH Line	40AI (W+45A/S+50A)	434	OH Line	40AI (W+45A/S+50A)	434	306	384	403	353	377
East Bay	Warren 5	12.47	5F3	OH Line	336.4 AI	515	OH Line	336.4 AI	515	289	348	354	344	374
East Bay	Warren 5	12.47	5F4	OH Line	40AI (W+10A/S+15A)	510	OH Line	40AI (W+10A/S+15A)	510	357	428	430	411	443
East Bay	Waterman Avenue 78	12.47	78F3	Regulator	250 kVA 7.2 kV - 55C	409	Relay/Fuse	Safe Carry	489	200	220	220	220	232
East Bay	Waterman Avenue 78	12.47	78F4	Regulator	250 kVA 7.2 kV - 55C	409	Relay/Fuse	Safe Carry	489	189	213	230	208	218
Providence	Admiral St. 9	11.5	1115	UG Cable	Unknown	9999	0	0	0	133	150	50	0	127
Providence	Admiral St. 9	11.5	1117	Unknown	Unknown	9999	0	0	0	160	181	160	158	60
Providence	Admiral St. 9	11.5	1119	Unknown	Unknown	9999	0	0	0	87	95	77	100	40
Providence	Admiral St. 9	4.16	9J1	Regulator	250 Amp	297	Regulator	250 Amp	326	240	270	280	270	300
Providence	Admiral St. 9	4.16	9J2	Regulator	313 Amp	368	Regulator	313 Amp	441	133	158	160	153	157
Providence	Admiral St. 9	4.16	9J3	OH Line	1/0 AI	255	OH Line	1/0 AI	255	153	220	260	287	160
Providence	Admiral St. 9	4.16	9J5	Regulator	250 Amp	297	Regulator	250 Amp	326	160	170	153	162	182
Providence	Clarkson St. 13	12.47	13F1	UG Cable/Reserved	1000 Cu/Reserved	400	UG Cable	1000 Cu	533	234	239	294	168	157
Providence	Clarkson St. 13	12.47	13F10	UG Cable	1000 Cu	400	UG Cable	1000 Cu	533	0	0	0	0	0
Providence	Clarkson St. 13	12.47	13F2	UG Cable	1000 Cu	540	Relay Setting	720 A	612	485	720 A	476	497	471
Providence	Clarkson St. 13	12.47	13F3	UG Cable	1000 Cu	425	Relay Setting	720 A	612	362	376	391	393	393
Providence	Clarkson St. 13	12.47	13F4	UG Cable	1000 Cu	520	Relay Setting	720 A	612	399	442	440	435	451
Providence	Clarkson St. 13	12.47	13F5	UG Cable	1000 Cu	455	Relay Setting	720 A	612	297	328	335	313	327
Providence	Clarkson St. 13	12.47	13F6	UG Cable	1000 Cu	415	UG Cable	1000 Cu	542	294	305	212	303	321
Providence	Clarkson St. 13	12.47	13F7	UG Cable	1000 Cu	436	UG Cable	1000 Cu	571	259	261	251	295	271
Providence	Clarkson St. 13	12.47	13F8	UG Cable	1000 Cu	437	UG Cable	1000 Cu	563	379	365	278	272	265
Providence	Clarkson St. 13	12.47	13F9	OH Line	477 AI Spca	530	Relay Setting	720 A	612	351	401	411	403	418
Providence	Dyer St. 2	11.5	1103	UG Cable	Unknown	9999	0	0	0	163	160	166	173	192
Providence	Dyer St. 2	4.16	2J1	Current Transformer	400 Amp	408	Current Transformer	400 Amp	408	340	320	340	307	312
Providence	Dyer St. 2	4.16	2J10	Relay/Fuse	Safe Carry - 340A	340	Relay/Fuse	Safe Carry - 340A	340	147	165	190	163	168
Providence	Dyer St. 2	4.16	2J2	Reactor	300 Amp	354	Reactor	300 Amp	354	137	148	140	153	152
Providence	Dyer St. 2	4.16	2J3	Regulator	250 Amp	285	Regulator	250 Amp	313	60	87	75	75	93
Providence	Dyer St. 2	4.16	2J4	Regulator	250 Amp	297	Regulator	250 Amp	326	170	165	173	173	158
Providence	Dyer St. 2	4.16	2J5	Relay/Fuse	Safe Carry - 340A	340	Relay/Fuse	Safe Carry - 340A	340	123	152	128	133	133
Providence	Dyer St. 2	4.16	2J7	Reactor	300 Amp	354	Reactor	300 Amp	354	213	237	230	247	252
Providence	Dyer St. 2	4.16	2J8	Reactor	300 Amp	354	Reactor	300 Amp	354	183	189	190	193	200
Providence	Dyer St. 2	4.16	2J9	Reactor	300 Amp	354	Reactor	300 Amp	354	183	183	253	267	260
Providence	East George St. 77	4.16	77J1	UG Cable	750 AI	371	Relay/Fuse	Safe Carry - 408A	408	283	283	263	260	253
Providence	East George St. 77	4.16	77J2	UG Cable	750 AI	364	UG Cable	750 AI	495	313	337	367	363	377
Providence	East George St. 77	4.16	77J3	UG Cable	750 AI	371	OH Line	4/0 AI	385	283	303	307	290	327
Providence	East George St. 77	4.16	77J4	UG Cable	750 AI	364	UG Cable	750 AI	495	267	293	300	317	300
Providence	Elmwood 7 - Outdoor	12.47	7F1	OH Line	477 AI Spca	530	Relay Setting	720 A	612	275	335	384	328	334
Providence	Elmwood 7 - Outdoor	12.47	7F2	OH Line	477 AI Spca	530	Relay Setting	720 A	612	481	536	465	463	498
Providence	Elmwood 7 - Outdoor	12.47	7F4	OH Line	477 AI Spca	530	Relay Setting	720 A	612	340	442	577	387	423
Providence	Franklin Sq. 11	11.5	1112	Reactor Leads	425 Amp	280	Reactor Leads	425 Amp	280	55	62	63	67	73
Providence	Franklin Sq. 11	11.5	1121	UG Cable	500 PL	363	UG Cable	500 PL	455	71	81	89	89	91
Providence	Franklin Sq. 11	11.5	1123	Bus	350 Cu	404	Bus	350 Cu	404	35	40	47	27	27
Providence	Franklin Sq. 11	11.5	1125	Switch	Disconnect - 600A	696	Switch	Disconnect - 600A	834	344	179	196	189	140
Providence	Franklin Sq. 11	11.5	1126	UG Cable	500 Cu	327	UG Cable	500 Cu	450	282	221	217	217	243
Providence	Franklin Sq. 11	11.5	1149	UG Cable	Unknown	249	0	0	0	92	76	56	56	56
Providence	Franklin Sq. 11	11.5	1153	UG Cable	500 PL	313	UG Cable	500 PL	350	173	178	164	161	146
Providence	Geneva 71	4.16	71J1	Regulator	250 Amp	285	Regulator	250 Amp	313	208	229	228	216	272
Providence	Geneva 71	4.16	71J2	Regulator	333 Amp	379	Relay/Fuse	Safe Carry - 408A	408	87	96	149	100	120
Providence	Geneva 71	4.16	71J3	Regulator	333 Amp	379	Relay/Fuse	Safe Carry - 408A	408	164	200	188	176	188
Providence	Geneva 71	4.16	71J4	Regulator	300 Amp	346	Relay/Fuse	Safe Carry - 408A	408	200	216	212	204	196
Providence	Geneva 71	4.16	71J5	Regulator	300 Amp	342	Relay/Fuse	Safe Carry - 408A	408	272	324	312	285	328
Providence	Harris Ave. 12	11.5	1129	UG Cable	Unknown	9999	0	0	0	112	144	149	120	117
Providence	Harris Ave. 12	11.5	1131	UG Cable	Unknown	255	0	0	0	68	69	72	71	76
Providence	Harris Ave. 12	11.5	1133	UG Cable	Unknown	9999	0	0	0	80	80	83	128	80
Providence	Harris Ave. 12	11.5	1137	UG Cable	Unknown	9999	0	0	0	171	179	186	152	203
Providence	Harris Ave. 12	11.5	1145	UG Cable	Unknown	9999	0	0	0	85	83	96	80	83
Providence	Harris Ave. 12	11.5	1147	UG Cable	Unknown	9999	0	0	0	84	75	78	72	72
Providence	Harris Ave. 12	4.16	12J1	Regulator	250 Amp	285	Regulator	250 Amp	313	63	80	67	110	90
Providence	Harris Ave. 12	4.16	12J2	Regulator	333 Amp	379	Regulator	333 Amp	416	280	235	260	240	255

Attachment DIV-R-I-4 / Attachment DIV-R-I-6 - Actual Peak Loads 2009-2013 and Equipment Ratings - Feeders  
2014 Annual Planning  
East Bay & Providence Study Areas

Study Area	Substation	Voltage (kV)	Feeder	Normal Limiting Element	Normal Element Specifics	SN Rating (Amps)	Emergency Limiting Element	Emergency Element Specifics	SE Rating (Amps)	Actual Loads				
										2009	2010	2011	2012	2013
										Amps	Amps	Amps	Amps	Amps
Providence	Harris Ave. 12	4.16	12J3	Regulator	250 Amp	285	Regulator	250 Amp	313	62	61	150	75	80
Providence	Harris Ave. 12	4.16	12J4	Regulator	250 Amp	297	Regulator	250 Amp	326	223	240	273	257	268
Providence	Harris Ave. 12	4.16	12J5	Regulator	250 Amp	297	Regulator	250 Amp	326	80	102	100	100	113
Providence	Harris Ave. 12	4.16	12J6	Regulator	250 Amp	297	Regulator	250 Amp	326	163	157	150	125	143
Providence	Huntington Park 67	4.16	67J1	Regulator	300 Amp	354	Regulator	300 Amp	423	244	246	256	249	278
Providence	Knightsville 66	4.16	66J1	UG Cable	300 Cu	248	UG Cable	300 Cu	353	232	264	232	248	272
Providence	Knightsville 66	4.16	66J2	Regulator	333 Amp	379	Relay/Fuse	Safe Carry - 408A	408	287	304	328	304	320
Providence	Knightsville 66	4.16	66J3	Regulator	333 Amp	379	Relay/Fuse	Safe Carry - 408A	408	272	308	348	296	308
Providence	Knightsville 66	4.16	66J4	Regulator	333 Amp	379	Relay/Fuse	Safe Carry - 408A	408	236	272	260	256	256
Providence	Knightsville 66	4.16	66J5	Regulator	333 Amp	379	Relay/Fuse	Safe Carry - 408A	408	228	232	276	260	248
Providence	Lippitt Hill 79	12.47	79F1	UG Cable	1000 Al	459	UG Cable	1000 Cu	579	271	408	500	374	396
Providence	Lippitt Hill 79	12.47	79F2	UG Cable	1000 Al	459	UG Cable	1000 Cu	579	332	344	364	369	415
Providence	Olneyville 6	4.16	6J1	Current Transformer	300 Amp	306	Current Transformer	300 Amp	354	160	200	188	200	212
Providence	Olneyville 6	4.16	6J2	Current Transformer	300 Amp	306	Current Transformer	300 Amp	354	187	229	219	185	237
Providence	Olneyville 6	4.16	6J3	Current Transformer	300 Amp	306	Current Transformer	300 Amp	354	80	104	117	120	83
Providence	Olneyville 6	4.16	6J5	Current Transformer	300 Amp	306	Current Transformer	300 Amp	354	64	108	108	96	80
Providence	Olneyville 6	4.16	6J6	Current Transformer	300 Amp	306	Current Transformer	300 Amp	354	126	124	138	98	102
Providence	Olneyville 6	4.16	6J7	Current Transformer	300 Amp	306	Current Transformer	300 Amp	354	208	260	212	202	240
Providence	Olneyville 6	4.16	6J8	Current Transformer	300 Amp	306	Current Transformer	300 Amp	354	50	50	65	80	80
Providence	Point St. 76	12.47	76F1	UG Cable	1000 Cu	484	OH Line	4/0 Cu	490	337	413	418	399	418
Providence	Point St. 76	12.47	76F2	UG Cable	1000 Cu	500	Relay Setting	720 A	612	367	478	421	400	408
Providence	Point St. 76	12.47	76F3	Regulator	333 kVA	546	Regulator	3-333	653	232	227	232	269	262
Providence	Point St. 76	12.47	76F4	OH Line	477 Al Spca	530	Relay Setting	720 A	612	397	454	518	521	537
Providence	Point St. 76	12.47	76F5	UG Cable	1000 kcmil CU	448	UG Cable	1000 kcmil CU	570	414	450	501	473	486
Providence	Point St. 76	12.47	76F6	UG Cable	1000 Cu	518	Relay Setting	720 A	612	386	376	390	392	413
Providence	Point St. 76	12.47	76F7	UG Cable	1000 Cu	525	Relay Setting	720 A	612	392	434	456	445	476
Providence	Point St. 76	12.47	76F8	OH Line	477 Al Spca	530	Relay Setting	720 A	612	200	205	238	150	308
Providence	Rochambeau Ave. 37	4.16	37J1	UG Cable	500 PL	329	Relay/Fuse	Safe Carry - 408A	408	208	220	217	204	208
Providence	Rochambeau Ave. 37	4.16	37J2	UG Cable	300 PL	281	UG Cable	300 PL	349	189	216	247	216	228
Providence	Rochambeau Ave. 37	4.16	37J3	UG Cable	500 PL	303	Relay/Fuse	Safe Carry - 408A	408	227	242	245	243	257
Providence	Rochambeau Ave. 37	4.16	37J4	UG Cable	500 PL	278	UG Cable	500 PL	371	190	210	212	207	218
Providence	Rochambeau Ave. 37	4.16	37J5	UG Cable	750 Al	347	Relay/Fuse	Safe Carry - 408A	408	228	272	232	260	284
Providence	South St. 1	11.5	1101	UG Cable	Unknown	9999	0	0	0	195	192	219	211	233
Providence	South St. 1	11.5	1151	UG Cable	500 Cu	322	UG Cable	500 Cu	375	233	241	230	233	209
Providence	South St. 1	11.5	1152	UG Cable	500 Cu	326	UG Cable	500 Cu	389	216	214	195	192	150
Providence	South St. 1	11.5	1169	UG Cable	Unknown	9999	0	0	0	197	190	188	191	191
Providence	South St. 1	11.5	1171	UG Cable	Unknown	9999	0	0	0	80	45	40	46	48
Providence	Sprague St. 36	4.16	36J1	UG Cable	300 PL	236	UG Cable	300 PL	283	145	162	180	177	190
Providence	Sprague St. 36	4.16	36J2	UG Cable	300 PL	252	UG Cable	300 PL	299	147	163	178	183	211
Providence	Sprague St. 36	4.16	36J4	UG Cable	500 PL	344	UG Cable	500 PL	405	222	247	237	230	250
Providence	Sprague St. 36	4.16	36J5	OH Line	1/0 Cu	315	OH Line	1/0 Cu	315	163	168	177	183	193

Attachment DIV-R-I-4 / Attachment DIV-R-I-6 - Actual Peak Loads 2009-2013 and Equipment Ratings - Transformers  
2014 Annual Planning  
East Bay & Providence Study Areas

								Actual Load				
Study Area	Substation	Tranf. ID.	Voltage (kV)		Nameplate Rating	Rating (MVA)		2009	2010	2011	2012	2013
			From	To		SN	SE	MVA	MVA	MVA	MVA	MVA
East Bay	Barrington 14	1	23	12.47	25	35.19	35.19	14.0	15.5	18.5	17.6	15.9
East Bay	Bristol 51	1	115	12.47	40	56.9	63.4	17.0	19.0	18.0	17.3	18.7
East Bay	Bristol 51	2	23	12.47	20	25.1	29.8	7.4	9.0	9.3	9.1	9.4
East Bay	Kent Corners 47	T1	23	4.16	5	7.14	7.53	2.3	4.2	2.4	2.5	2.4
East Bay	Kent Corners 47	T2	23	4.16	5	6.82	8.07	3.2	3.6	4.5	4.0	4.3
East Bay	Phillipsdale 20	T1	115	23	56	56	56	7.4	10.0	10.3	17.9	19.4
East Bay	Phillipsdale 20	T2	115	23	33.3	45.32	56.75	7.5	7.5	7.7	8.5	8.7
East Bay	Phillipsdale 20	T3	23	12.47	20	25.16	28.87	11.2	12.8	12.3	12.5	14.0
East Bay	Wampanoag 48	T1	115	12.47	40	42.83	52.72	24.3	25.9	28.5	26.4	28.7
East Bay	Wampanoag 48	T2	115	12.47	40	52.36	55.33	24.5	24.8	31.2	28.1	26.8
East Bay	Warren 5	5	115	23	50	60.96	65.05	13.7	15.5	16.5	14.3	9.6
East Bay	Warren 5	6	115	23	50	59.6	64.17	15.0	15.2	18.0	16.5	22.5
East Bay	Warren 5	T1	115	12.47	40	48.28	53.43	6.7	7.6	7.8	9.4	15.9
East Bay	Warren 5	T2	115	12.47	40	50.62	59.57	19.9	19.8	20.3	22.0	17.7
East Bay	Waterman Ave. 78	T1	23	12.47	12.5	16.36	18.26	4.2	4.8	4.8	4.8	5.0
East Bay	Waterman Ave. 78	T2	23	12.47	12.5	16.36	18.26	4.1	5.0	5.0	4.5	4.7
Providence	Admiral Street 9	T1	23	11/4.16	15@11.5 & 7.5@4.16	15	15	7.6	7.2	5.7	6.1	5.5
Providence	Admiral Street 9	T2	23	11/4.16	15@11.5 & 7.5@4.16	15	15	0.0	0.0	0.0	0.0	0.0
Providence	Admiral Street 9	T3	115	23	50	62.1	63.7	22.2	0.0	21.0	18.2	22.0
Providence	Admiral Street 9	T4	115	23	50	63	64.9	21.7	0.0	20.4	18.0	21.6
Providence	Admiral Street 9	T5	23	4.16	12.5	15.13	15.36	5.1	6.2	6.1	6.4	5.8
Providence	Clarkson Street 13	T1	115	12.47	55	65.46	81.01	31.2	32.6	36.3	31.4	32.1
Providence	Clarkson Street 13	T2	115	12.47	55	65.16	80.24	32.9	29.7	30.8	30.1	30.4
Providence	Dyer St 2	T1	11.5	4.16	12.5	18.27	19.78	5.6	6.2	6.3	6.1	6.2
Providence	Dyer St 2	T2	11.5	4.16	12.5	18.25	19.74	5.6	6.2	6.3	6.1	6.2
Providence	East George St. 77	T1	23	4.16	9.375	12.59	15.27	3.6	4.4	4.1	4.0	4.4
Providence	East George St. 77	T2	23	4.16	9.375	12.59	15.27	4.0	4.5	4.8	4.9	4.9
Providence	Elmwood 7 (12.47 kV)	T2	23	12.47	33.3	40.58	45.78	24.1	26.7	30.8	25.4	27.1
Providence	Franklin Square 11	2207	11.5	23	12	16.06	18.75	5.8	6.5	6.5	2.1	2.1
Providence	Franklin Square 11	2210	11.5	23	15	17.14	15.85	7.2	9.7	9.7	7.3	9.0
Providence	Franklin Square 11	2220	11.5	23	15	17.7	19.3	9.2	14.0	14.0	8.3	9.9
Providence	Franklin Square 11	2260	11.5	23	12	16.06	18.75	4.2	4.7	4.7	4.8	4.7
Providence	Franklin Square 11	3320	11.5	34.5	20	25.87	29.66	4.8	7.0	7.0	5.3	5.4
Providence	Franklin Square 11	3324	11.5	34.5	20	25.75	29.5	4.9	9.0	9.0	5.3	5.4
Providence	Franklin Square 11	T1	115	11.5	40	50.65	61.04	22.2	24.0	24.0	22.0	25.0
Providence	Franklin Square 11	T2	115	11.5	40	51.24	56.69	23.0	24.0	24.0	21.0	24.5
Providence	Franklin Square 11	T3	115	11.5	40	51.24	56.69	27.0	30.0	30.0	26.1	29.0
Providence	Geneva 71	T1	23	4.16	9.375	11.54	14.19	6.9	7.9	7.8	3.5	4.0
Providence	Geneva 71	T2	23	4.16	9.375	11.85	14.61	0.0	0.0	0.0	3.5	4.0
Providence	Harris Avenue 12	T1	23	4.16	9.375	11.48	12.72	4.2	4.2	4.9	4.5	4.8
Providence	Harris Avenue 12	T2	23	4.16	7.5	9.06	11.52	4.0	2.0	2.3	2.1	2.0
Providence	Huntington Park 67	T1	23	4.16	3 - 1000	3	3	2.0	2.3	1.8	1.8	2.0
Providence	Knightsville 66	T1	22.9	4.16	7.5	10.48	11.02	5.3	5.3	6.2	4.9	5.1
Providence	Knightsville 66	T2	22.9	4.16	7.5	10.48	11.02	4.5	5.2	4.2	4.9	5.1
Providence	Lippitt Hill 79	T1	22.9	12.47	20	25.11	27.54	5.9	8.0	10.8	8.1	8.5

Attachment DIV-R-I-4 / Attachment DIV-R-I-6 - Actual Peak Loads 2009-2013 and Equipment Ratings - Transformers  
2014 Annual Planning  
East Bay & Providence Study Areas

								Actual Load				
Study Area	Substation	Tranf. ID.	Voltage (kV)		Nameplate Rating	Rating (MVA)		2009	2010	2011	2012	2013
			From	To		SN	SE	MVA	MVA	MVA	MVA	MVA
Providence	Lippitt Hill 79	T2	22.9	12.47	20	25.11	27.54	7.3	7.2	7.9	8.0	9.0
Providence	Olneyville 6	T1	11.5	4.16	9.375	11.8	13.02	3.6	4.1	7.5	3.5	3.7
Providence	Olneyville 6	T3	11.5	4.16	9.375	11.8	13.02	3.6	4.1	7.5	3.5	3.7
Providence	Point Street 76	T1	115	12.47	55	77	89.8	30.2	32.0	34.7	33.9	35.1
Providence	Point Street 76	T2	115	12.47	55	70.86	79.98	25.9	31.3	33.9	30.7	34.9
Providence	Rochambeau Ave 37	T1	22.9	4.16	9.375	11.96	13.12	2.4	3.2	3.5	3.0	3.2
Providence	Rochambeau Ave 37	T2	11.45	4.16	9.375	11.02	13.04	4.8	5.6	5.0	5.1	5.4
Providence	South Street 1	24	11.5	23	7.5	9.1	10.23	5.0	5.5	5.5	4.9	4.9
Providence	South Street 1	2201	11.5	23	7.5	7.5	7.5	3.1	3.1	3.1	2.8	2.7
Providence	South Street 1	2216	11.5	23	10	10	10	5.7	3.8	3.8	5.3	5.3
Providence	South Street 1	2248	11.5	23	10	12.81	14.33	7.2	7.4	7.4	7.0	7.7
Providence	South Street 1	T1	115	11.5	56	66.34	78.75	27.0	29.0	29.0	27.0	31.0
Providence	South Street 1	T2	115	11.5	56	66.78	77.14	16.2	23.0	23.0	25.0	30.0
Providence	South Street 1	T3	115	11.5	56	72.69	91.22	26.2	29.0	29.0	24.0	25.0
Providence	Sprague St. 36	T1	23	4.16	7.5	10.58	11.85	1.8	2.5	5.6	2.8	2.7
Providence	Sprague St. 36	T2	23	4.16	7.5	10.79	12	3.6	3.6	5.6	2.8	3.4

The Narragansett Electric Company  
d/b/a National Grid  
In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's First Set of Data Requests  
Issued October 30, 2014

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Division R-I-5  
(East Bay and Providence Short-Term CYME modeling)

Request:

Provide design criteria for long-range and short-range planning.

Response:

Please see Attachment DIV-R-I-5, which is the current Distribution Planning Guide (Revision 1, February 2011) ("Planning Guide"). The Planning Guide describes the normal and contingency analysis. It also describes considerations regarding safety, the environment, reliability, reactive compensation, load balance, voltage, and efficiency, as used in National Grid's distribution planning studies.

The Narragansett Electric Company  
d/b/a National Grid  
In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's First Set of Data Requests  
Issued October 30, 2014

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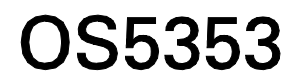
Division R-I-6  
(East Bay and Providence Short-Term CYME modeling)

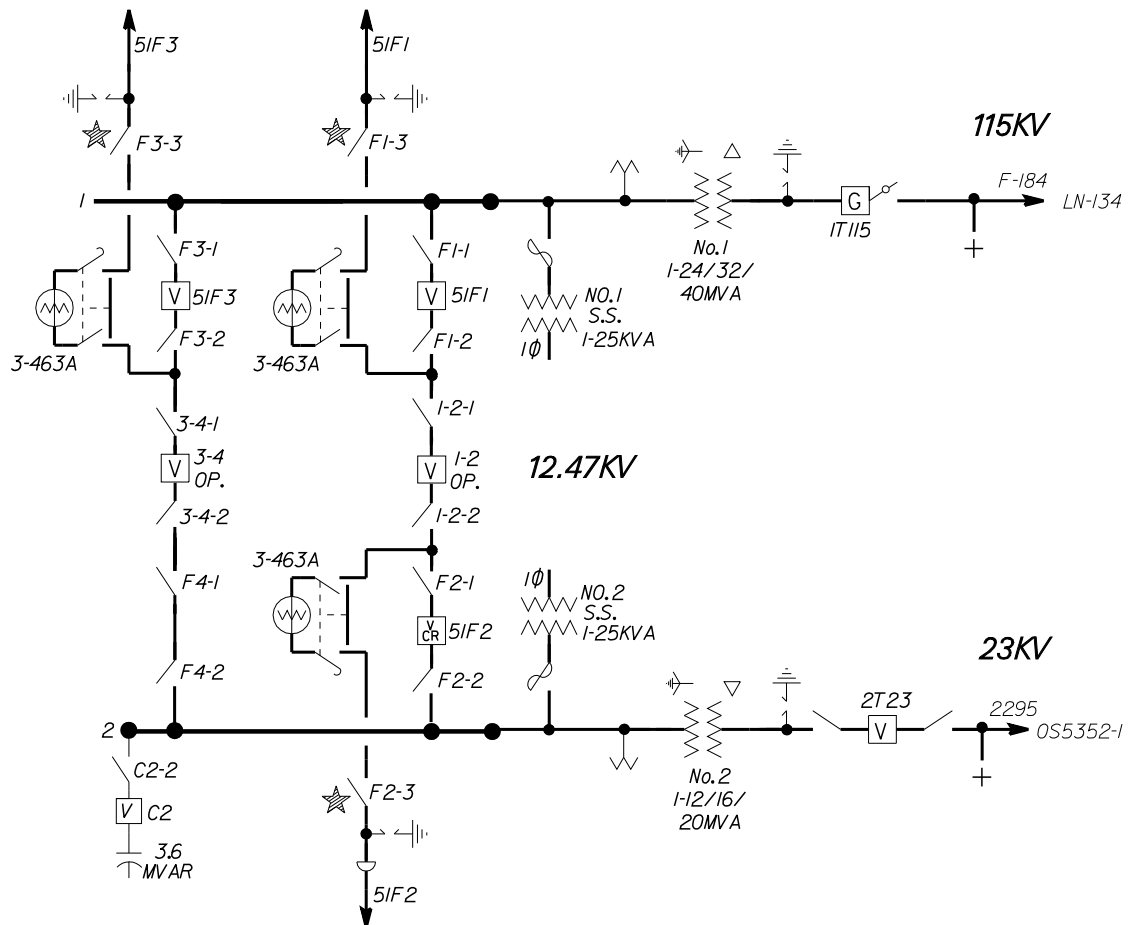
Request:

Provide substation one-lines with equipment ratings for East Bay and Providence.

Response:

Please see Attachment DIV-R-I-6-EastBay and Attachment DIV-R-I-6-Providence, which include the respective study area substation one-lines. Attachment DIV-R-I-6 also includes ratings for the study area equipment ratings. Please note that some potentially limiting equipment components require rating review prior to detailed area study analysis. These elements receive ratings of "9999" or "Unknown" until ratings reviews are completed.





+ MOBILE SUB CONN.  
★ DEMARCATION LINE OF AUTHORITY

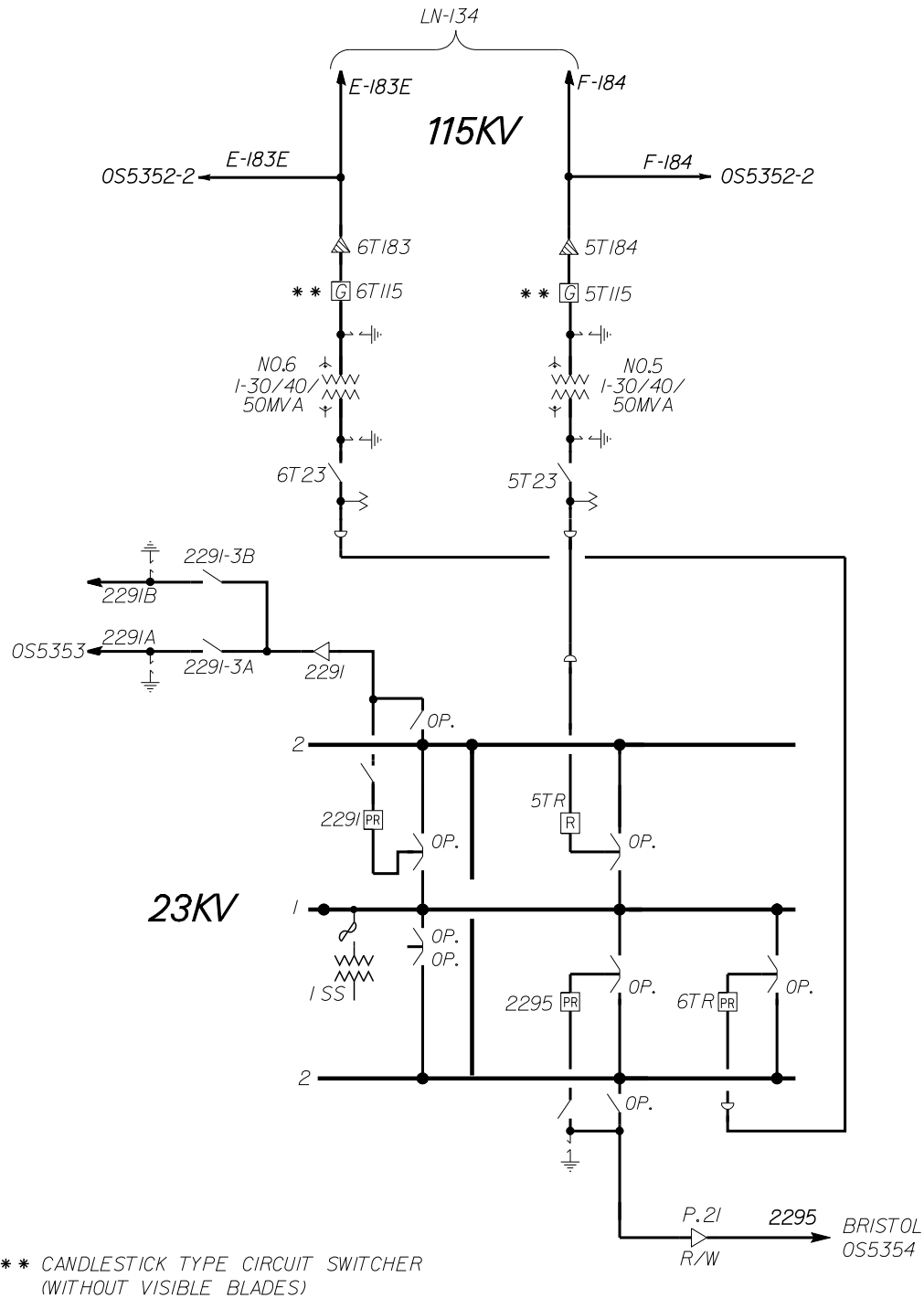


09-29-06



# OS5172





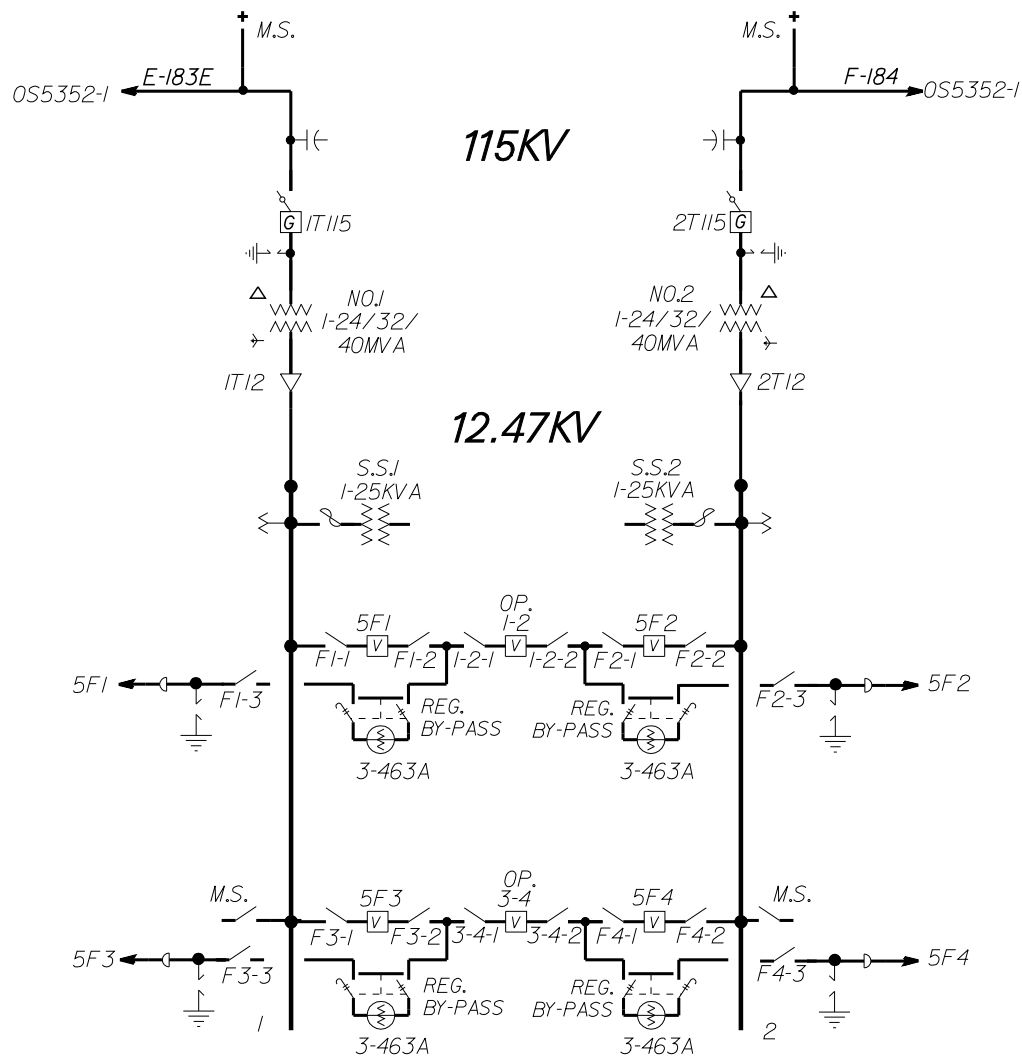
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**SHEET 1 OF 2**

**OCEAN STATE DIVISION**

**OS5352-1**

11-01-08

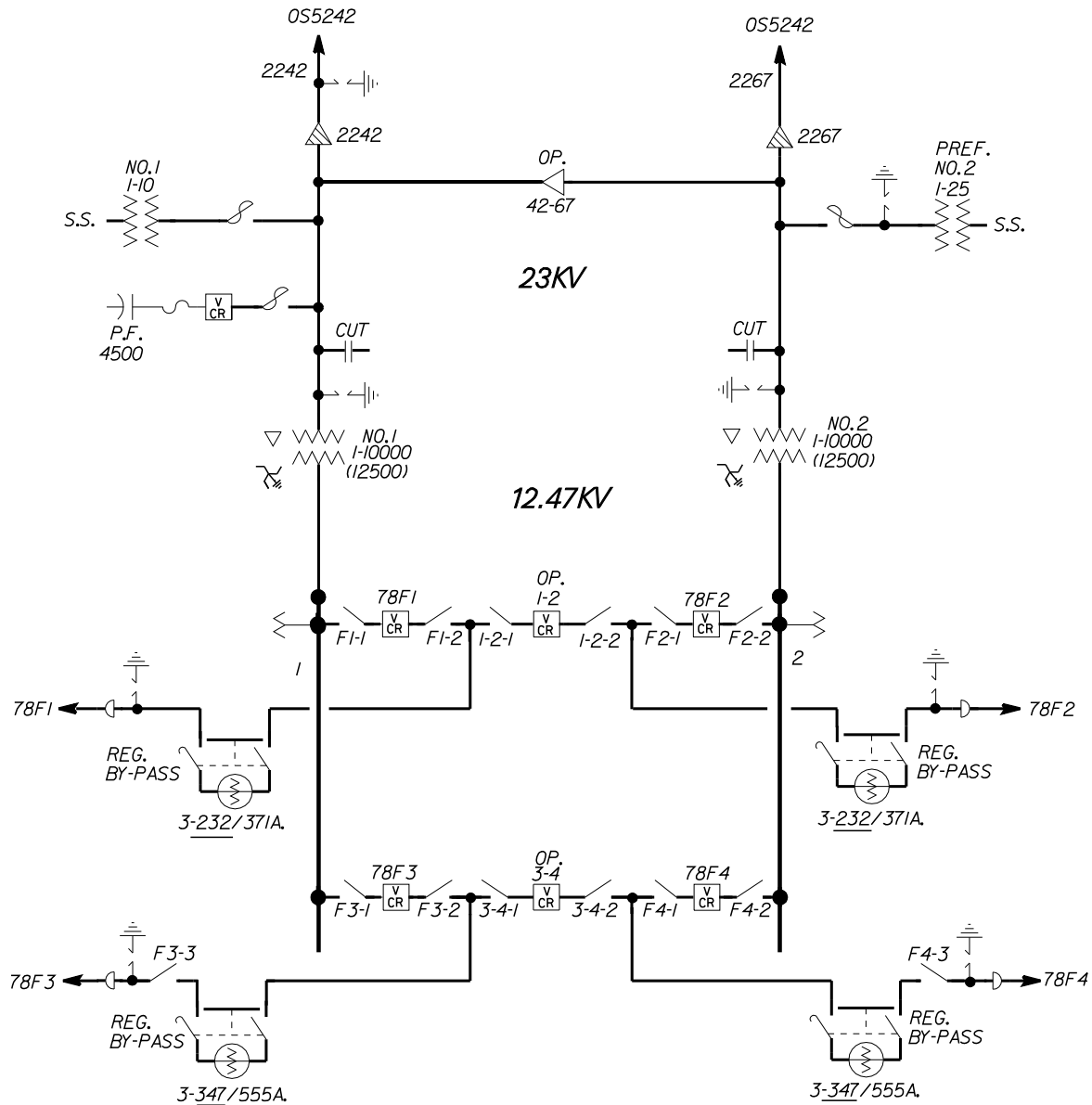


**WARREN NO. 5** (115KV-12.47KV)

***SHEET 2 OF 2***

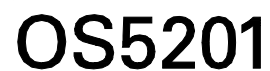
**OCEAN STATE DIVISION**

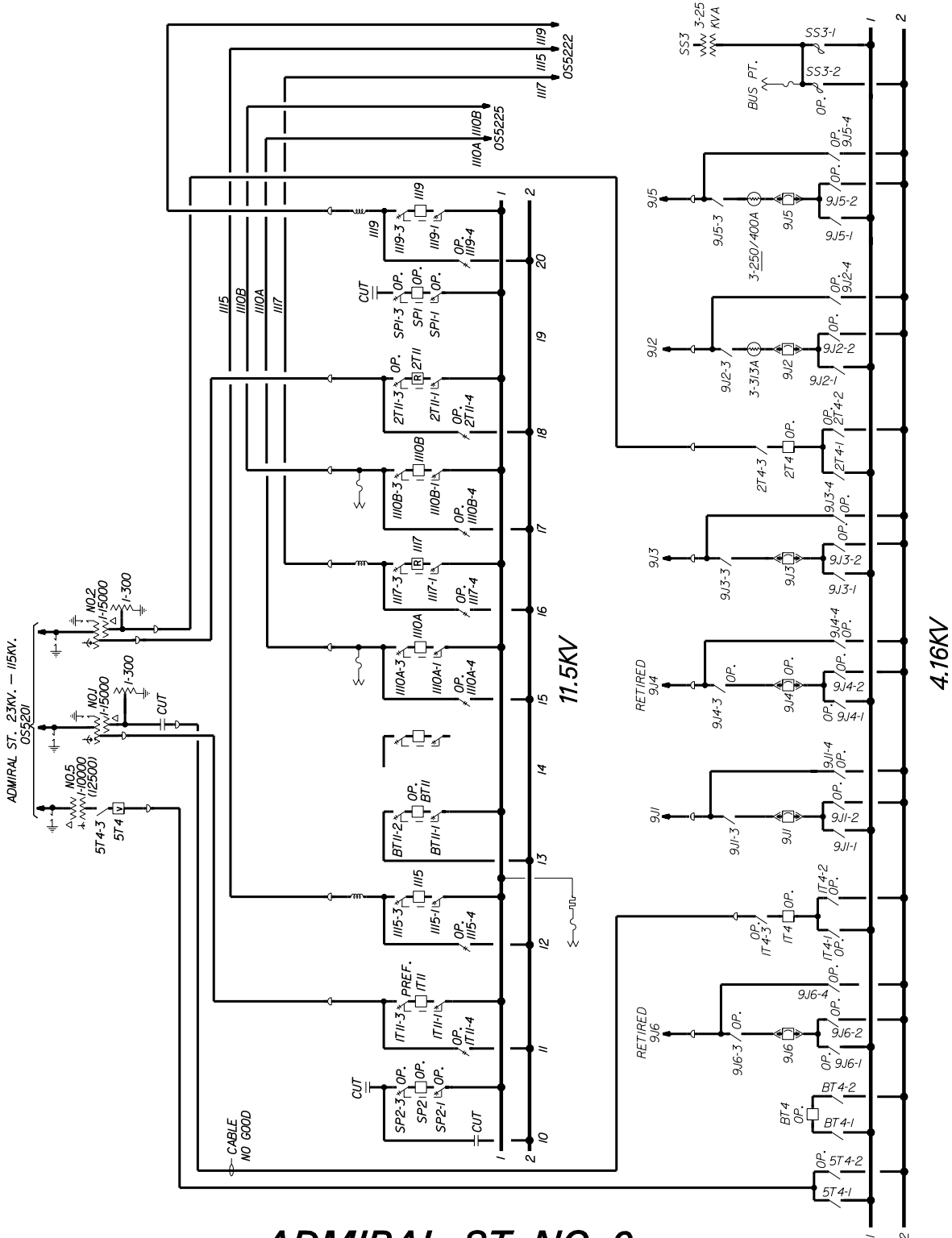
OS5352-2



**WATERMAN AVE. NO. 78**  
 OCEAN STATE DIVISION

**OS5241**



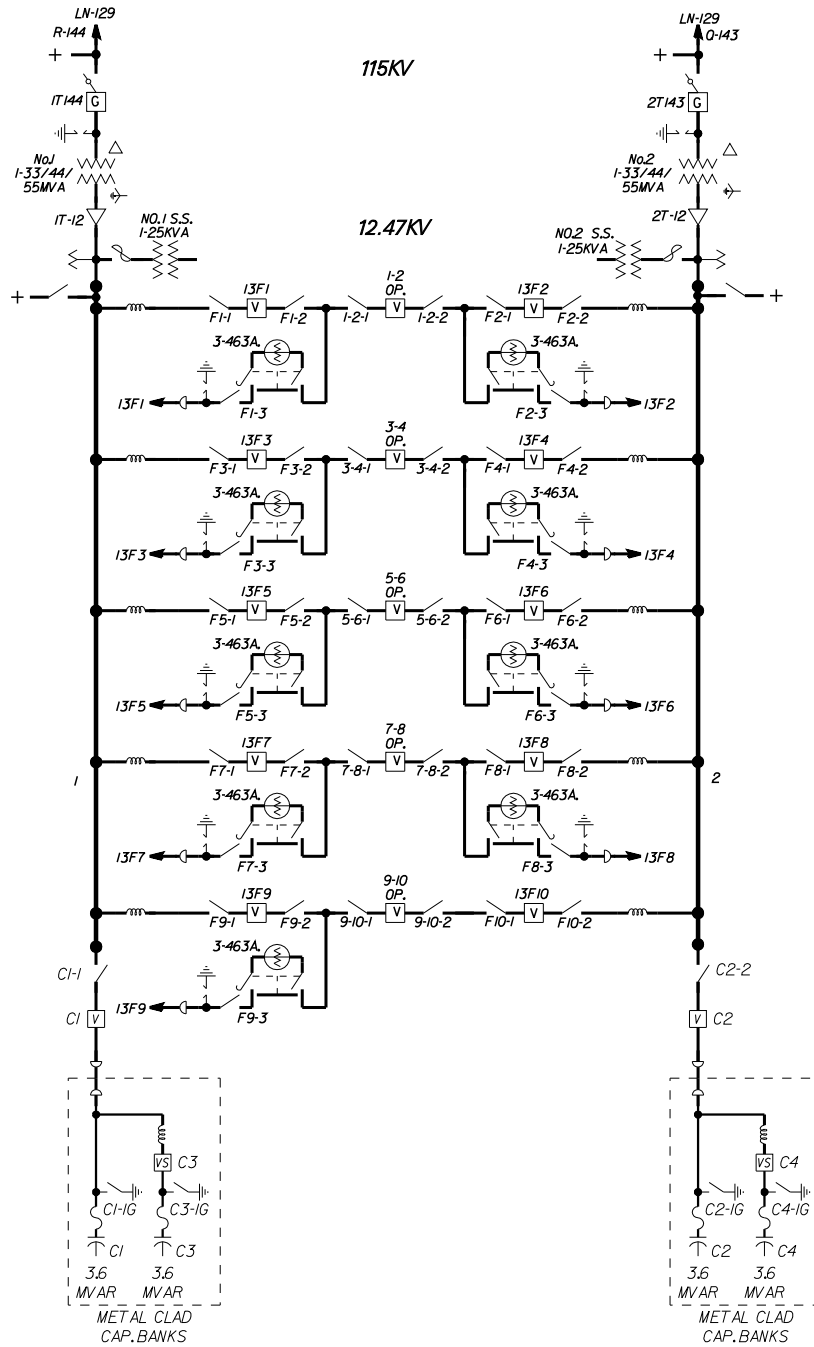


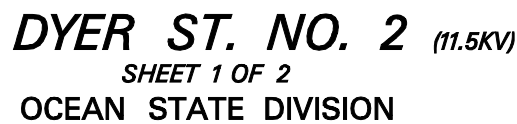
ADMIRAL ST. NO. 9 (11.5KV-4.16KV)

SHEET 2 OF 2

OCEAN STATE DIVISION

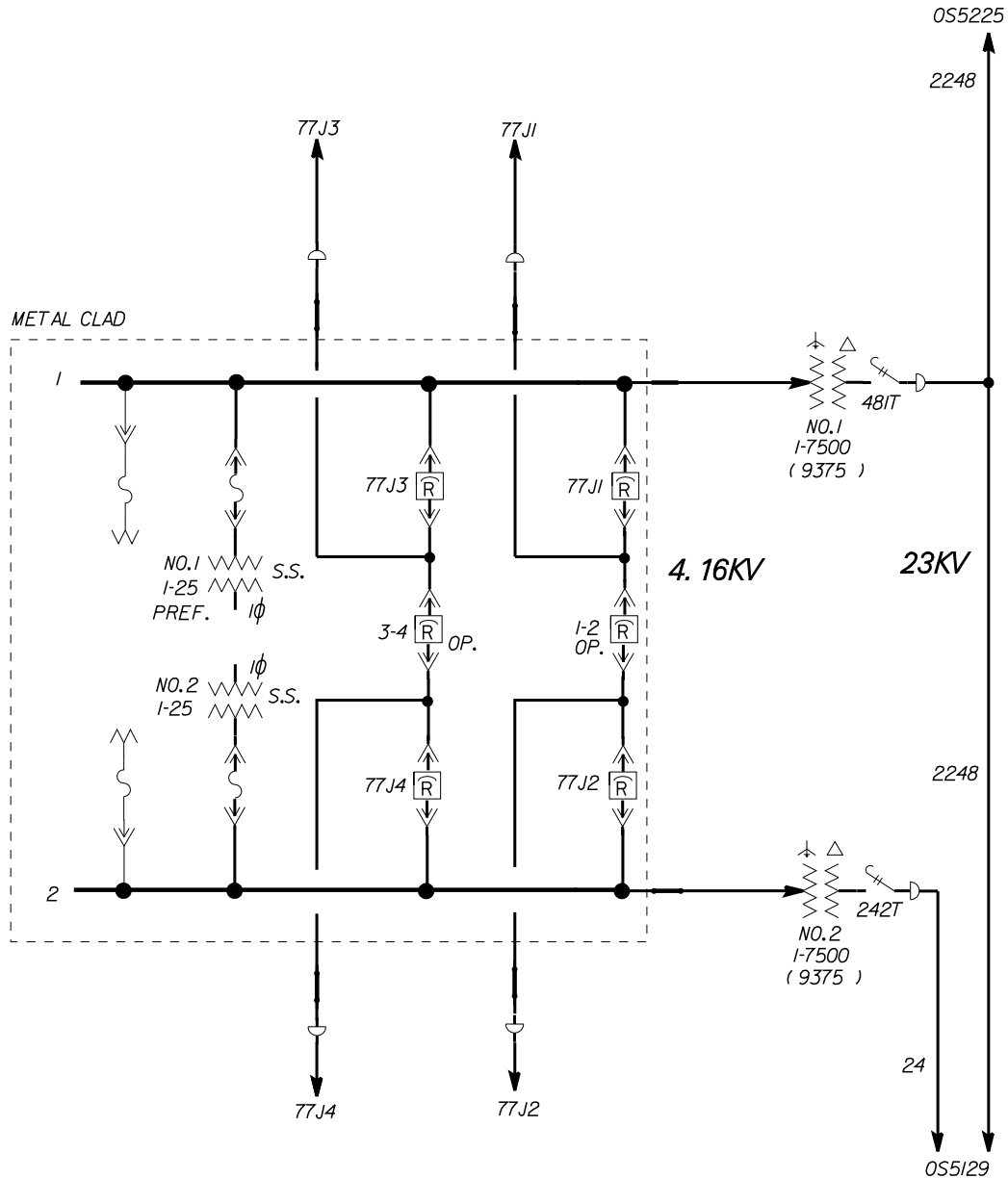
OS5202





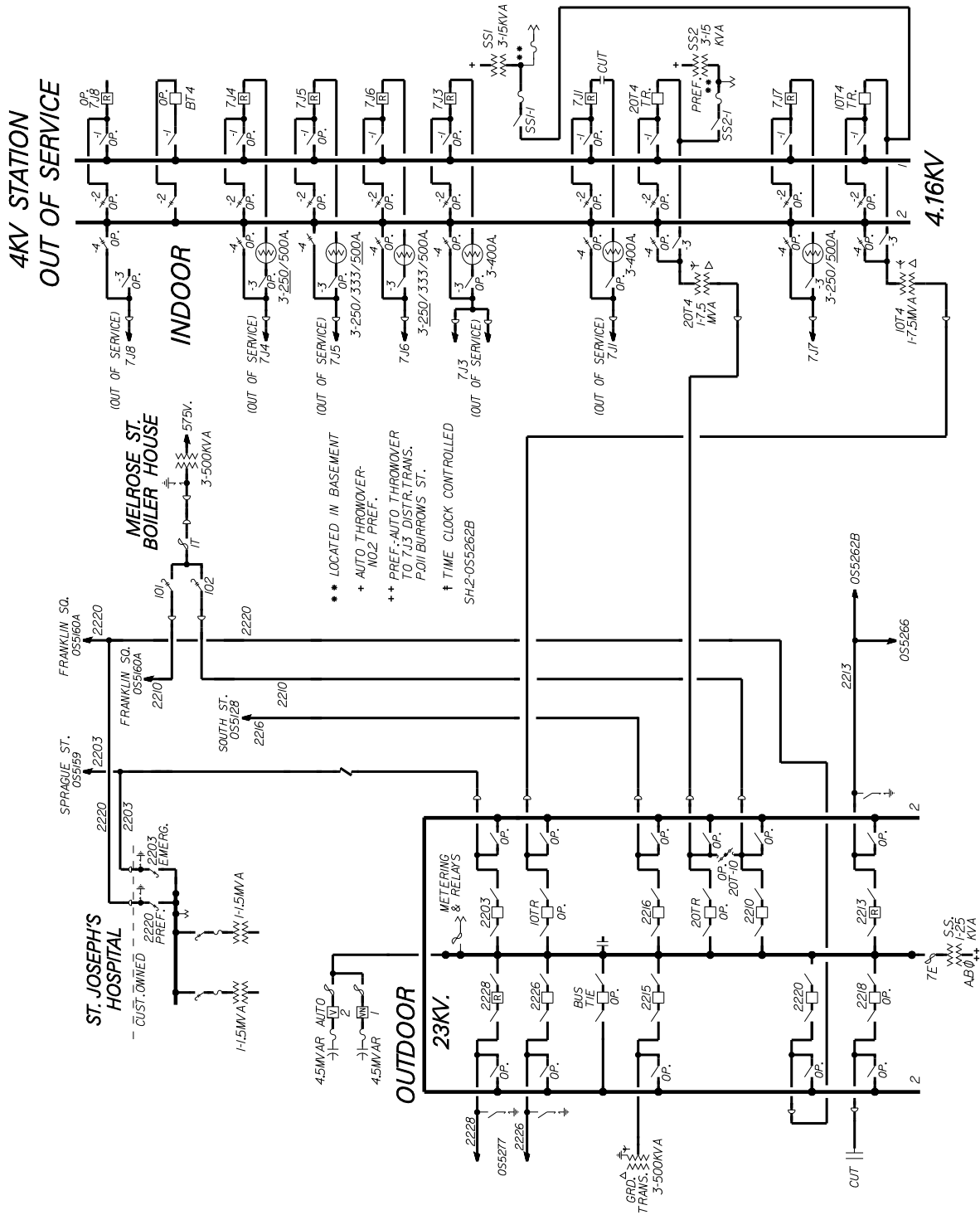
# OS5175



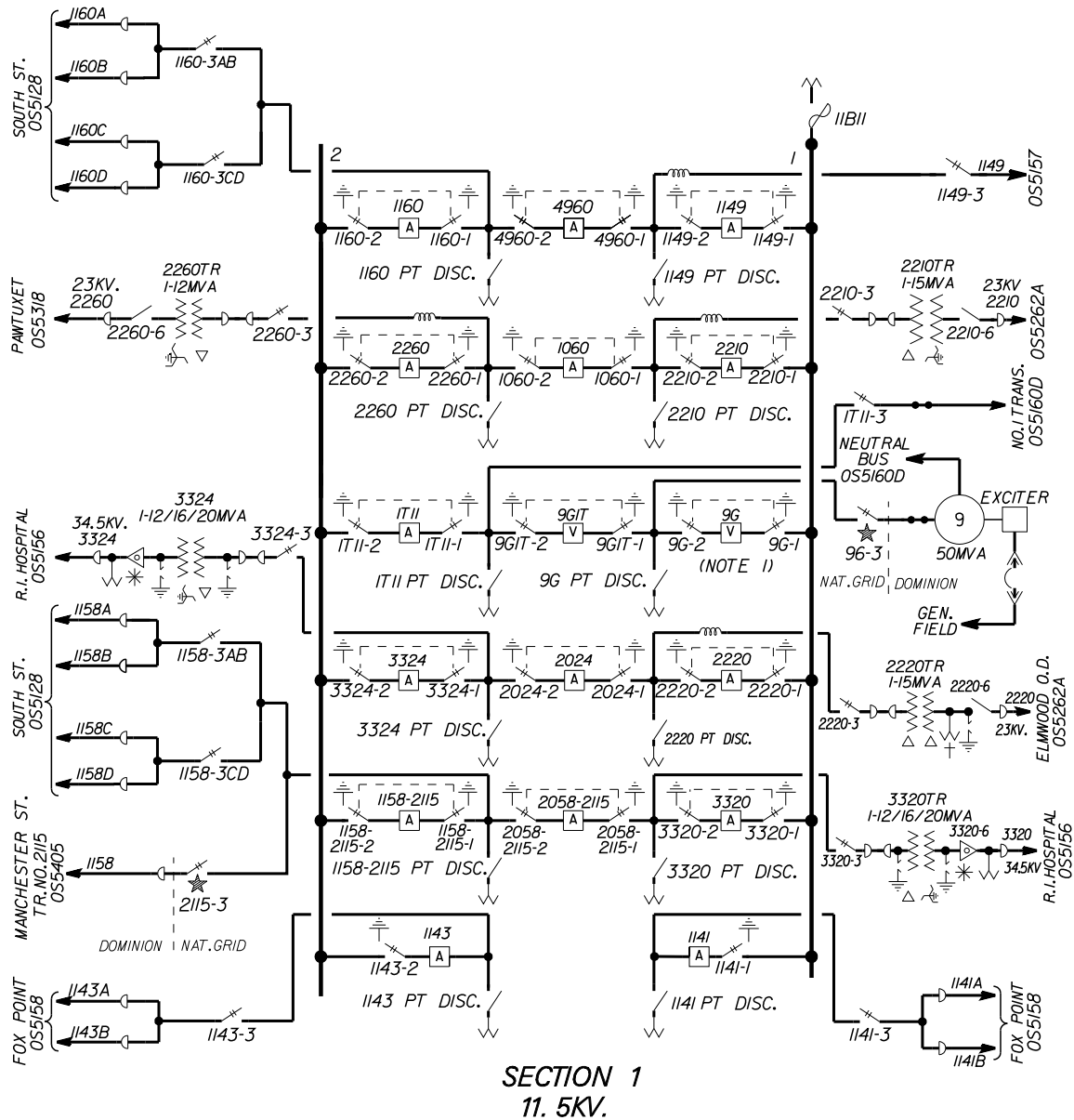


**EAST GEORGE ST. NO. 77**  
OCEAN STATE DIVISION

**OS5238**







★ DEMARCATION LINE OF AUTHORITY

† FOR GROUND RELAY ONLY

\* REMOTE OPERATED

NOTE 1 - OPEN CABLE DISC. 9G-1 & 9G-2 WHEN WORKING ON 9 GEN BREAKER IF GEN. OFF LINE.

**FRANKLIN SQ. & SWYD NO. 11**  
**11.5KV MANCHESTER ST. STA., GEN. NO. 9**  
 SHEET 1 OF 4

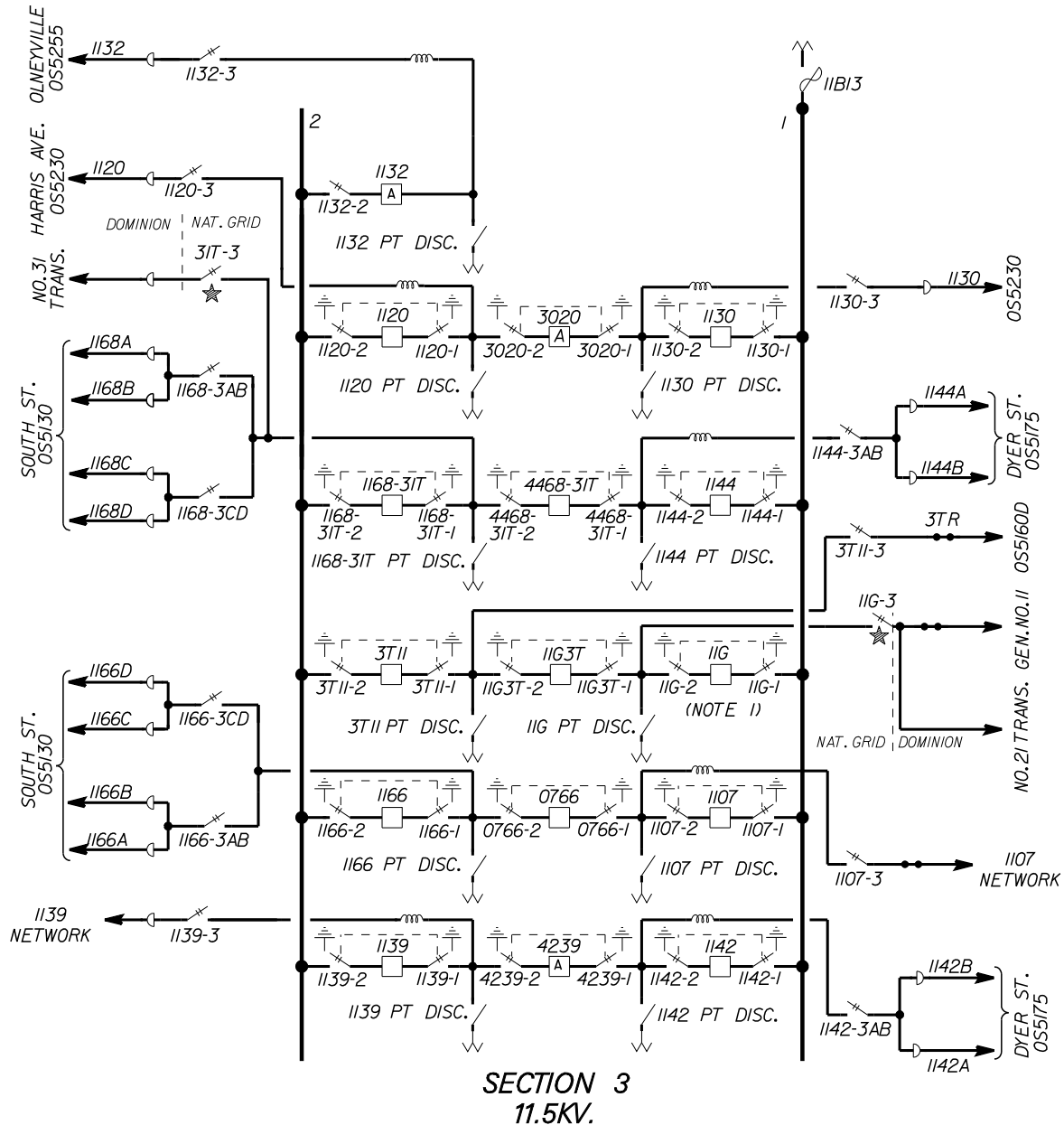
OCEAN STATE DIVISION

**OS5160A**



11.5KV  
SHEET 2 OF 4

OS5160B



★ DEMARCATION LINE OF AUTHORITY

NOTE 1 - OPEN CABLE DISC. IIG-1 & IIG-2 WHEN WORKING ON IIG GEN. BREAKER IF GEN. OFF LINE.

**FRANKLIN SQ. & SWYD NO. 11**

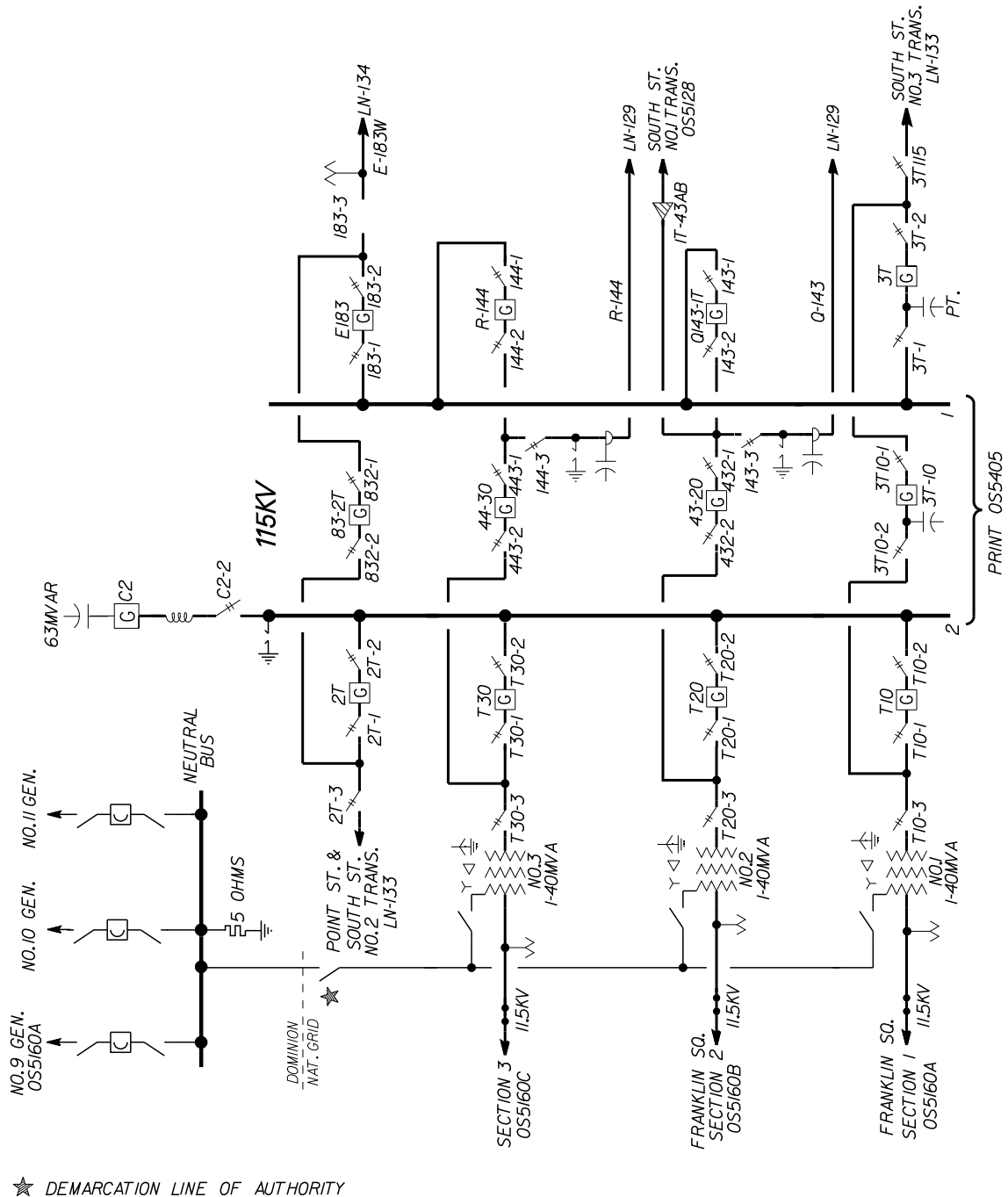
**11.5KV**

**SHEET 3 OF 4**

**OCEAN STATE DIVISION**

**OS5160C**

06/25/07



# FRANKLIN SQ. & SWYD NO. 11

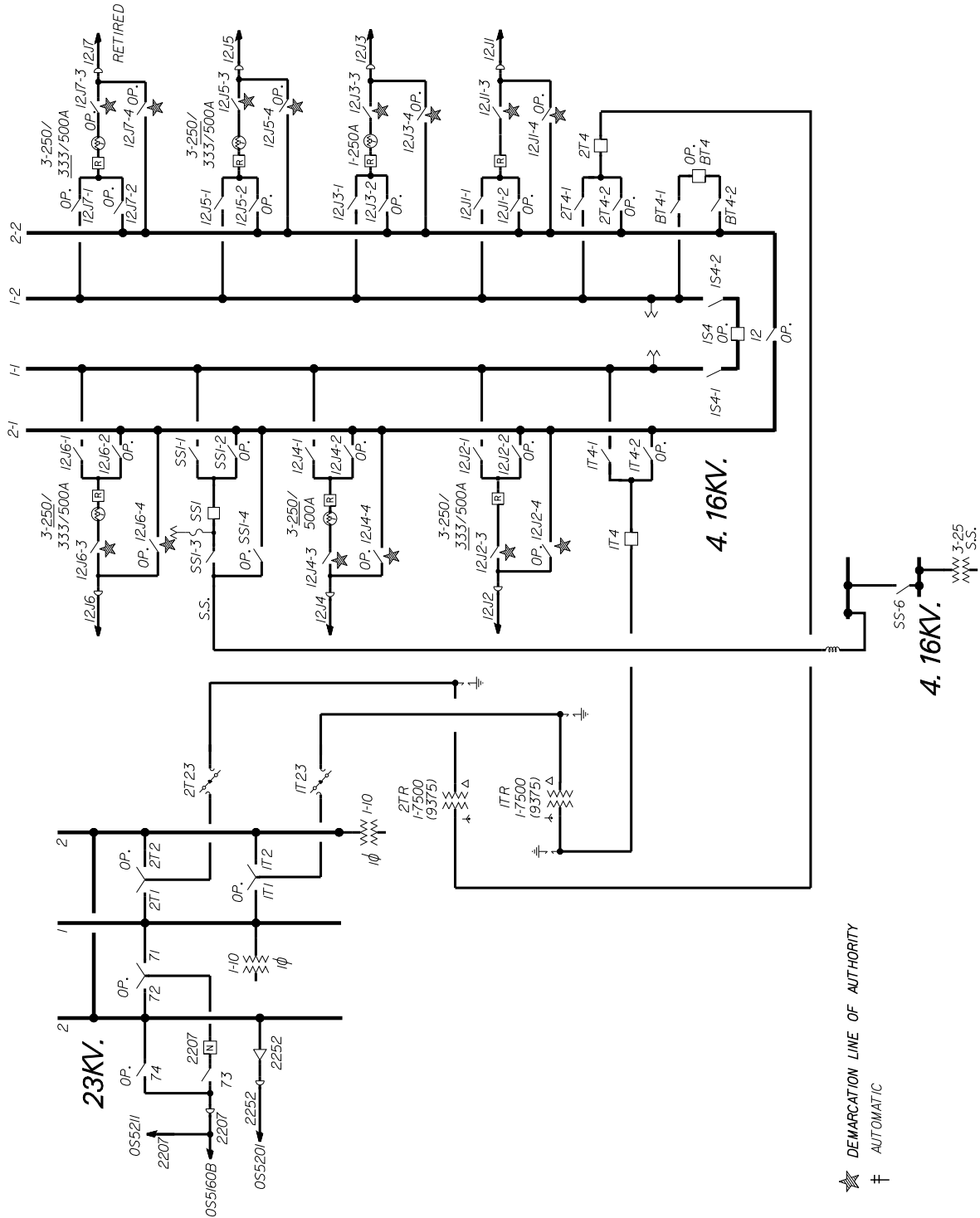
115KV (UNATTENDED)  
SHEET 4 OF 4

OCEAN STATE DIVISION

OS5160D



# OS5207

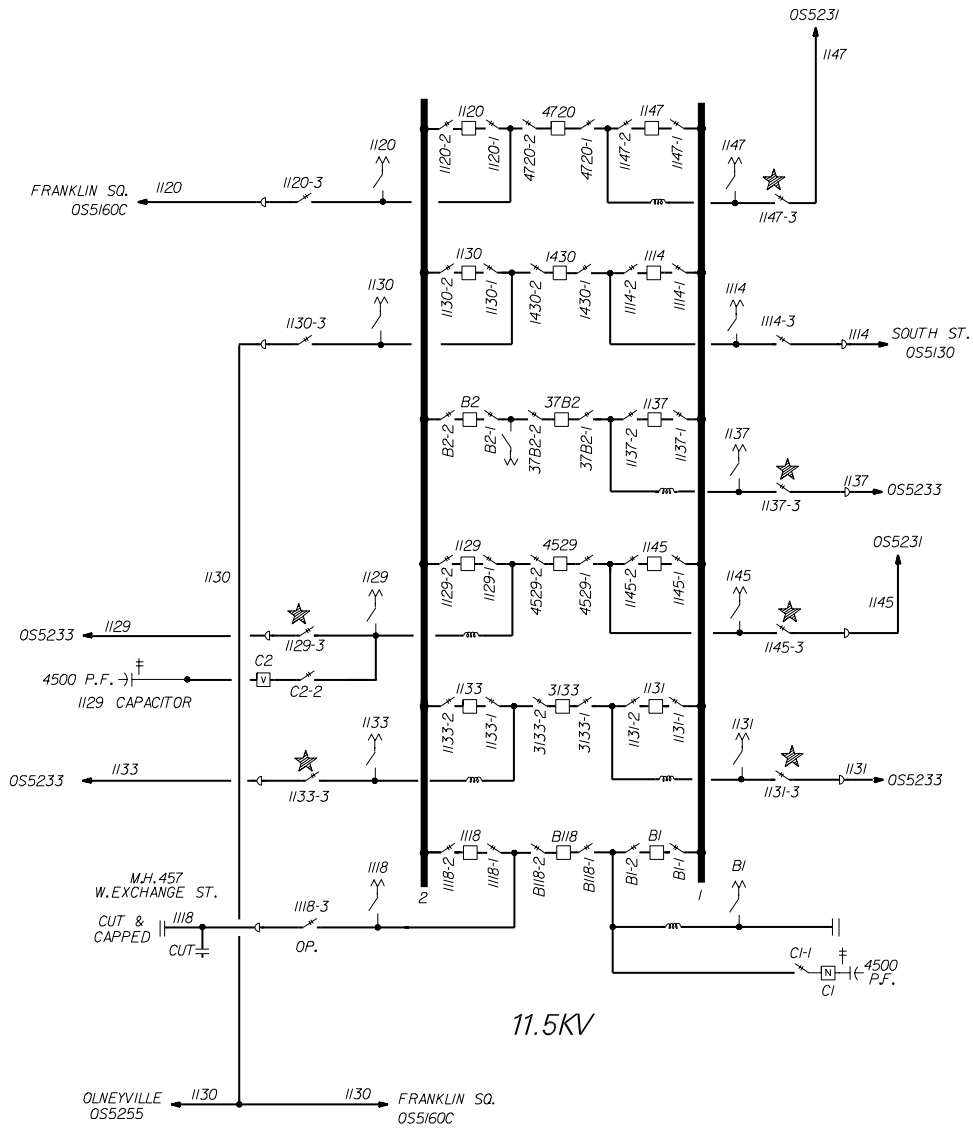


**HARRIS AVE. NO. 12** (23KV-4.16KV)

SHEET 1 OF 2

OCEAN STATE DIVISION

**OS5229**



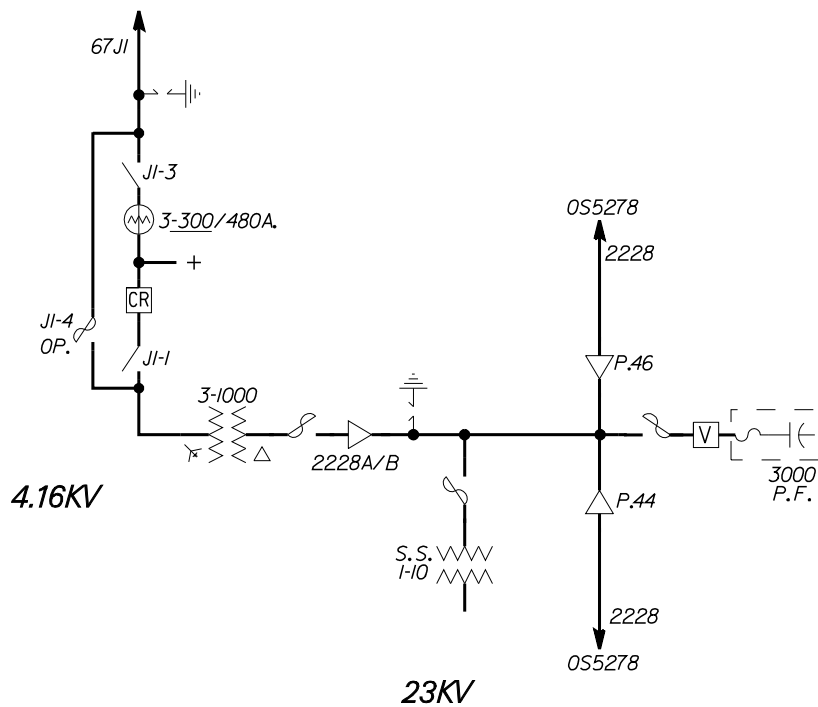
★ DEMARCATION LINE OF AUTHORITY  
† LOCATED IN BASEMENT

**HARRIS AVE. NO. 12 (11.5KV)**

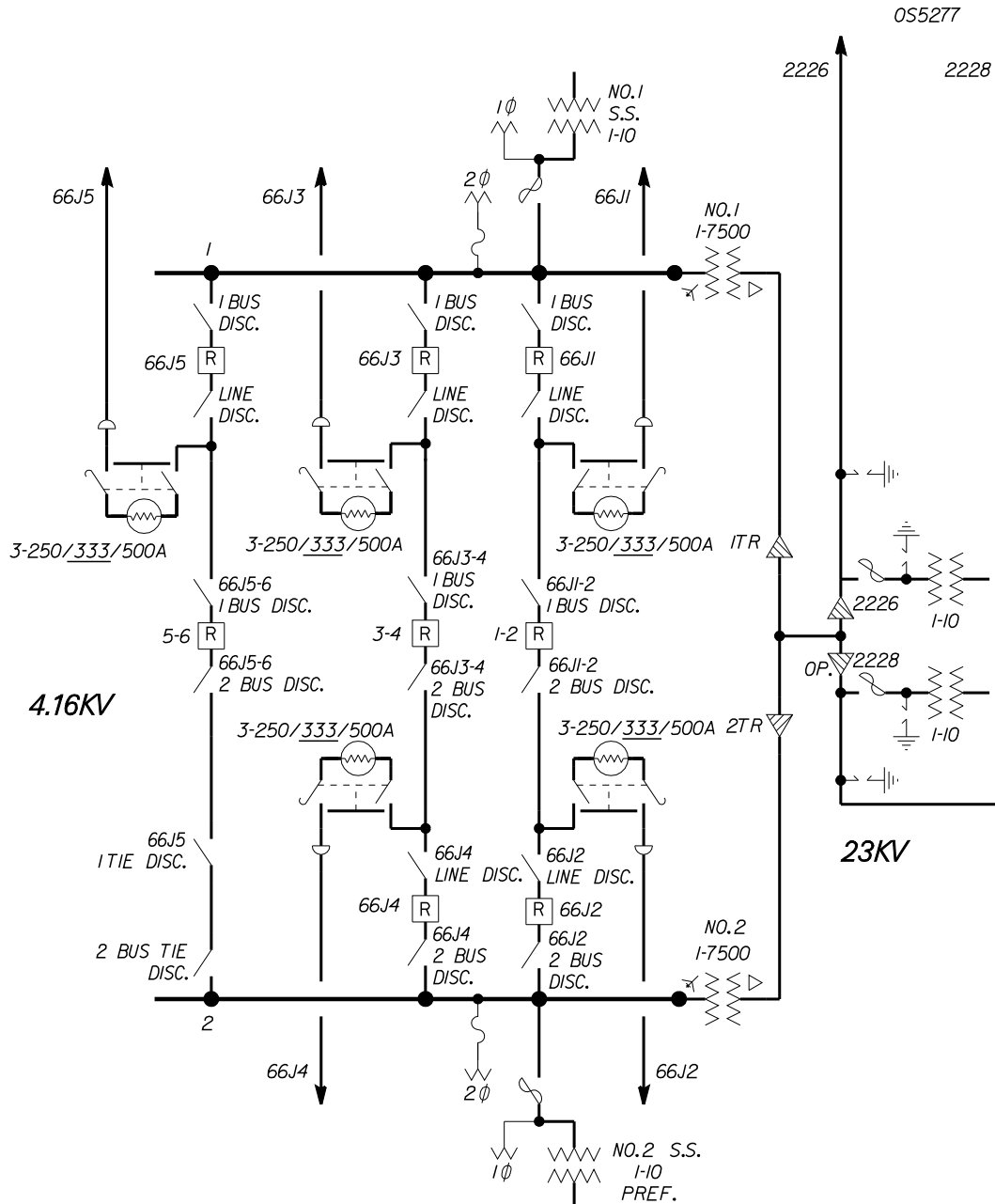
SHEET 2 OF 2

OCEAN STATE DIVISION

**OS5230**

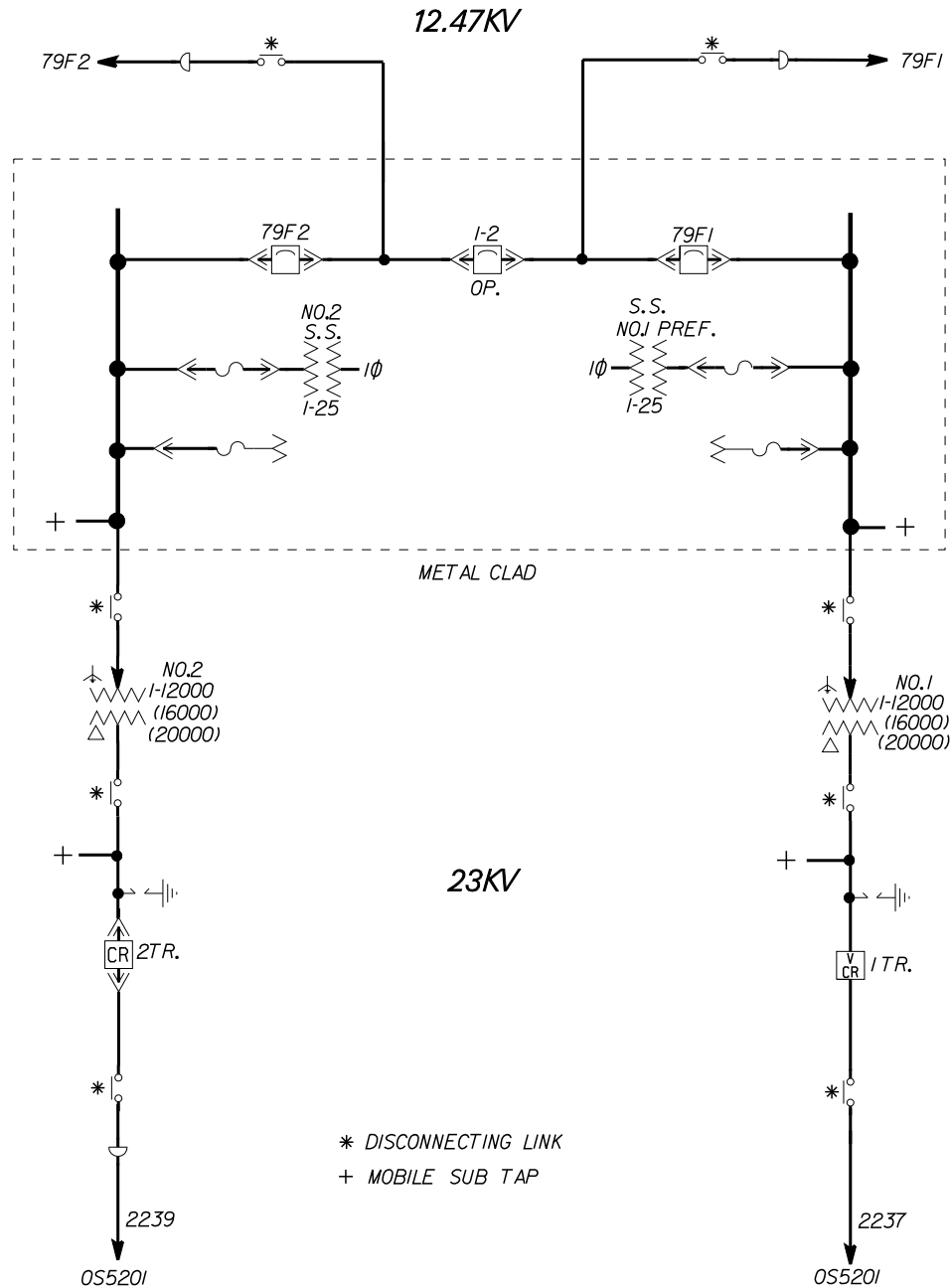


+ MOBILE SUB TAP



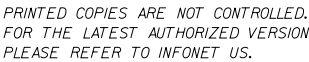
**KNIGHTSVILLE NO. 66**  
**OCEAN STATE DIVISION**

**OS5276**



**LIPPITT HILL NO. 79**  
**OCEAN STATE DIVISION**

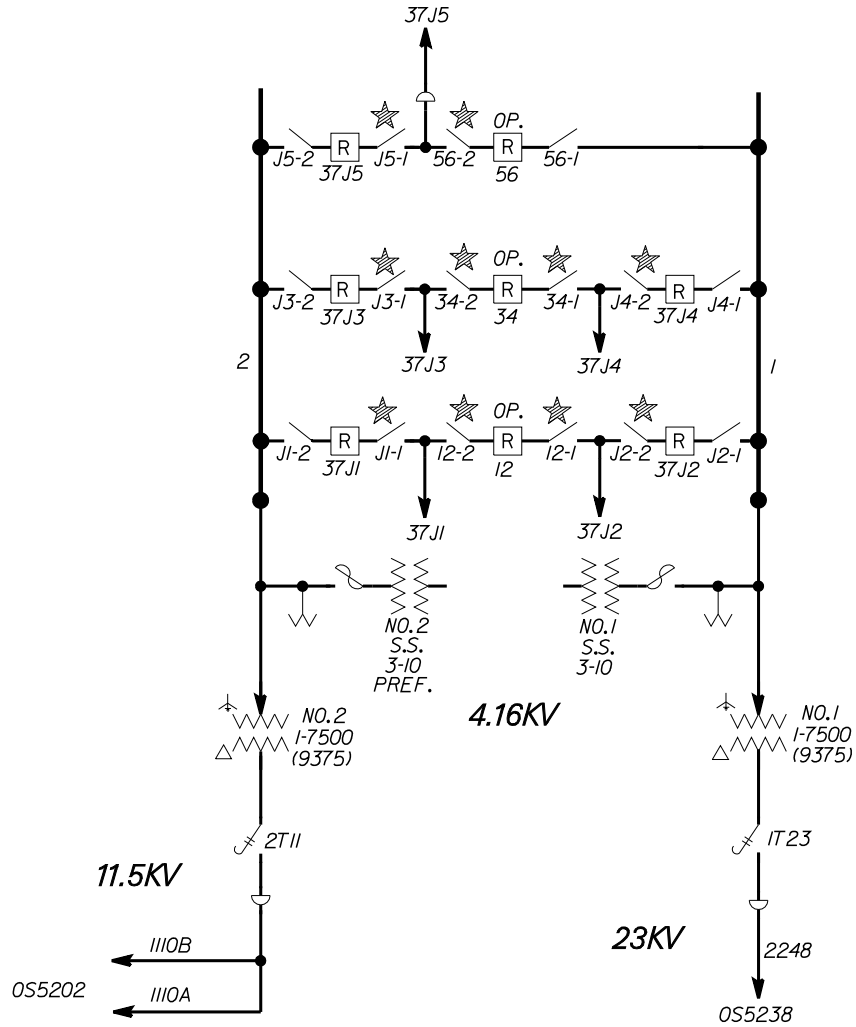
**OS5182**



# OS5255



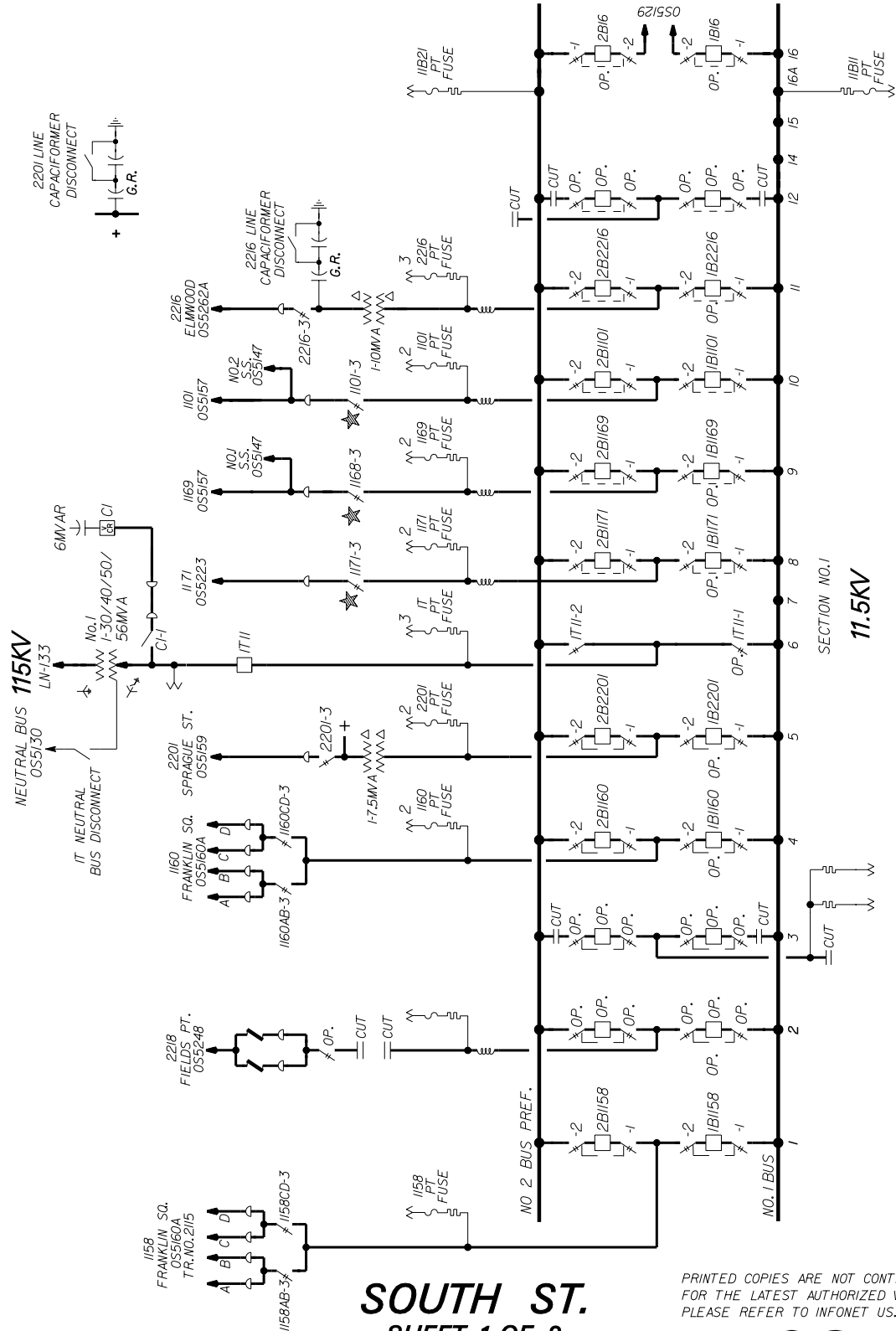
# OS5148



★ DEMARCATION LINE OF AUTHORITY

**ROCHAMBEAU AVE. NO. 37**  
 OCEAN STATE DIVISION

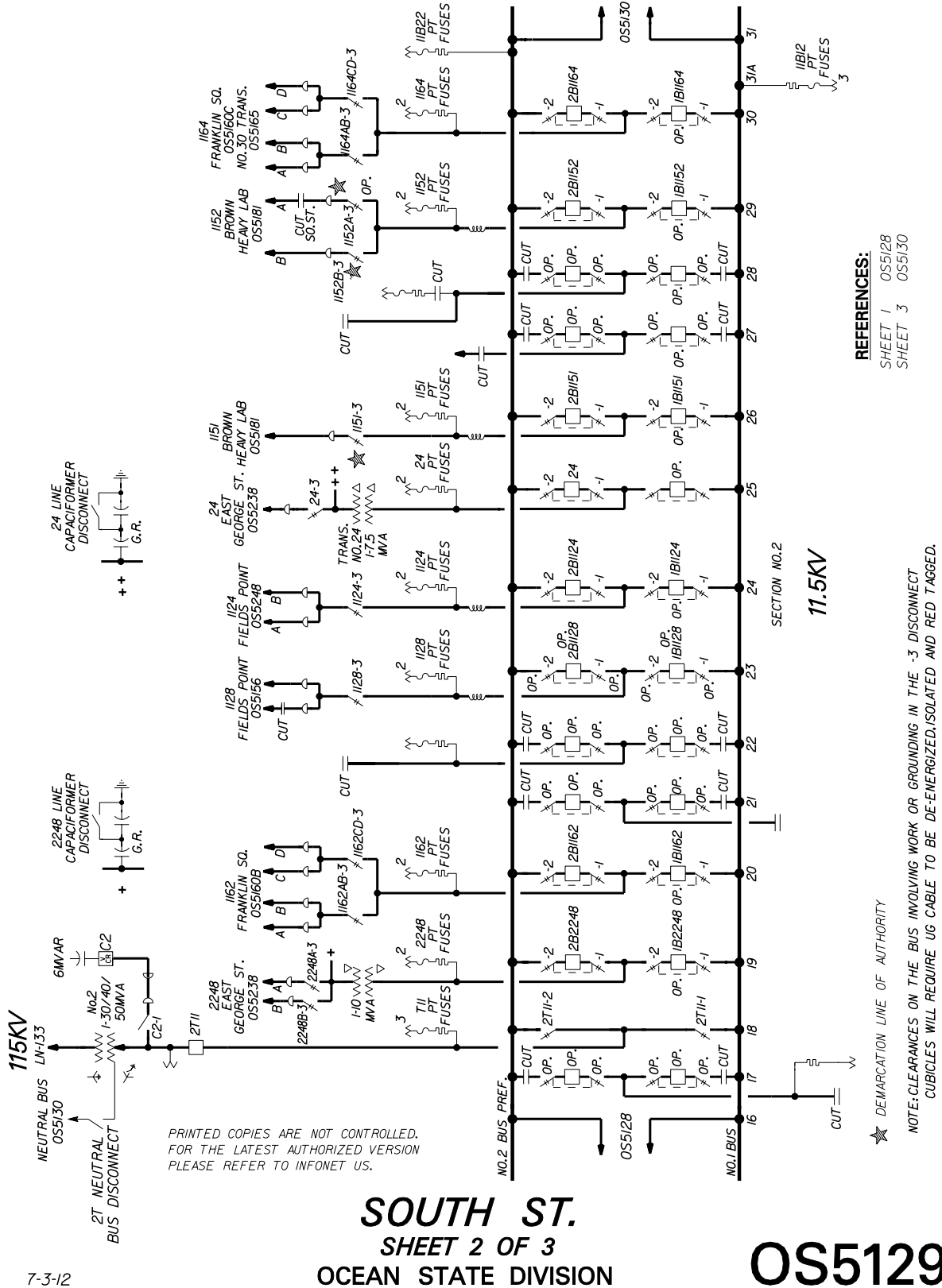
**OS5225**

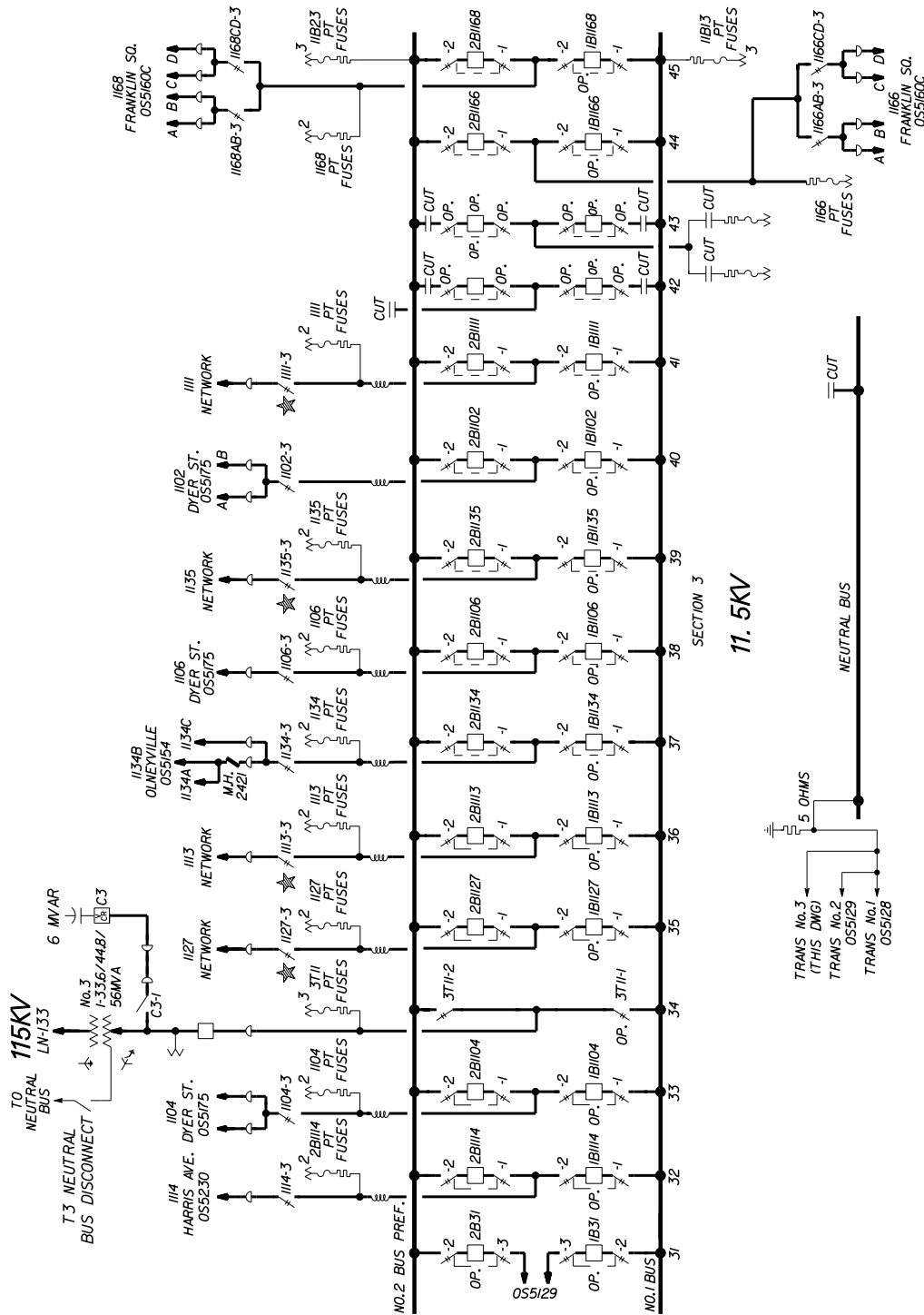


REFERENCES:  
SHEET 2 OS5129  
SHEET 3 OS5130

★ DEMARCATION LINE OF AUTHORITY  
NOTE: CLEARANCES ON THE BUS INVOLVING WORK OR GROUNDING IN THE -3 DISCONNECT CUBICLES WILL REQUIRE UG CABLE TO BE DE-ENERGIZED, ISOLATED AND RED TAGGED.

PRINTED COPIES ARE NOT CONTROLLED.  
FOR THE LATEST AUTHORIZED VERSION  
PLEASE REFER TO INFONET US.





REFERENCES:

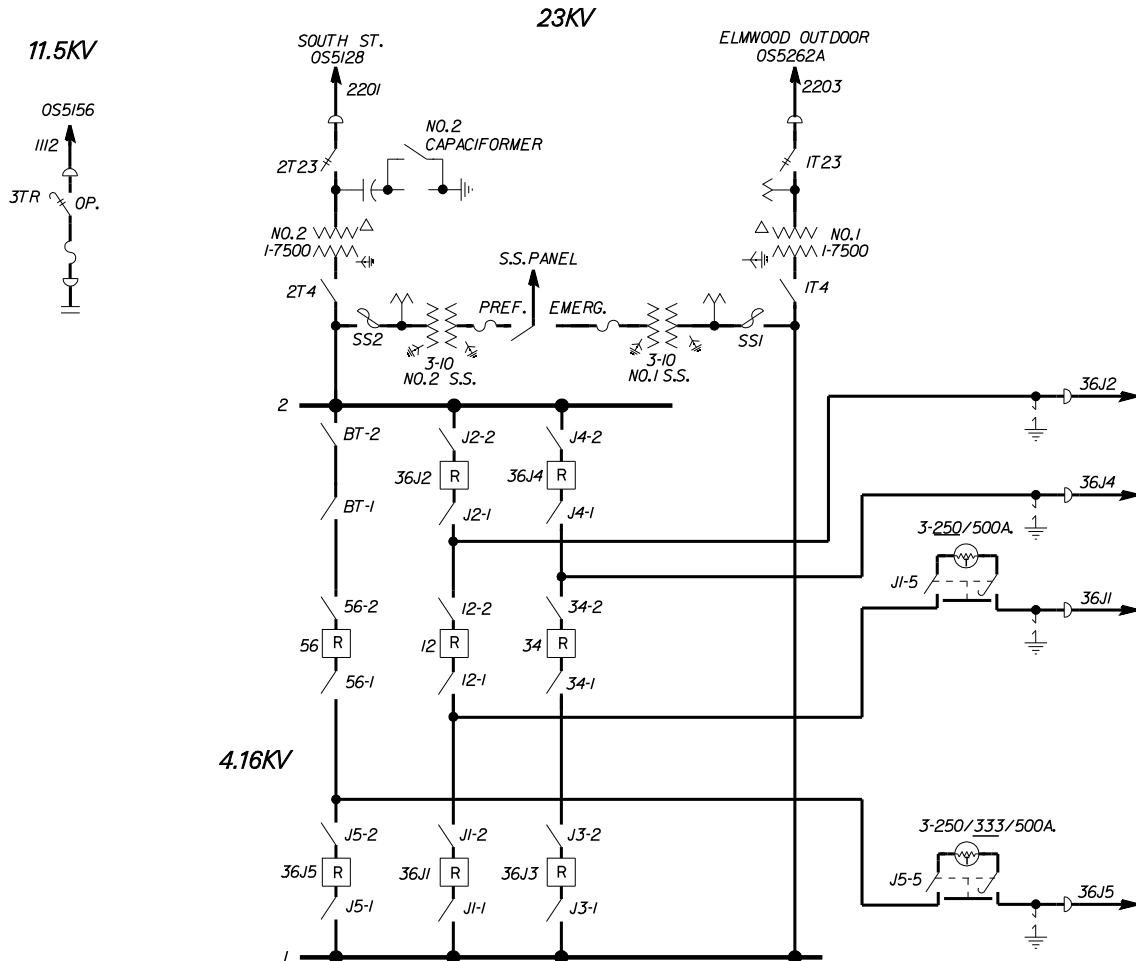
SHEET 1 055128  
 SHEET 2 055129

★ DEMARCATION LINE OF AUTHORITY

NOTE: CLEARANCES ON THE BUS INVOLVING WORK OR GROUNDING IN THE -3 DISCONNECT CUBICLES WILL REQUIRE UG CABLE TO BE DE-ENERGIZED, ISOLATED AND RED TAGGED.

PRINTED COPIES ARE NOT CONTROLLED.  
 FOR THE LATEST AUTHORIZED VERSION  
 PLEASE REFER TO INFONET US.

**SOUTH ST.**  
**SHEET 3 OF 3**  
**OCEAN STATE DIVISION**



**SPRAGUE ST. NO. 36**  
OCEAN STATE DIVISION

**OS5159**

The Narragansett Electric Company  
d/b/a National Grid

In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's First Set of Data Requests  
Issued October 30, 2014

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Division R-I-7  
(East Bay and Providence Short-Term CYME modeling)

Request:

The growth rate for each circuit in East Bay and Providence vary, including negative numbers. Please provide rational for projections.

Response:

The growth rates applied at a circuit level are town growth rates based on the town in which a substation is located. The town growth rates are obtained from the Company's "2014 New England Electric Peak Forecast."

The Narragansett Electric Company  
d/b/a National Grid  
In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's First Set of Data Requests  
Issued October 30, 2014

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Division R-I-8  
(East Bay and Providence Short-Term CYME modeling)

Request:

Confirm that the CYME models for East Bay and Providence do not include improvements from separate planning projects such as load transfers or re-conductoring.

Response:

The CYME models for East Bay and Providence do not include improvements from separate planning projects such as load transfers or re-conductoring.

The Narragansett Electric Company  
d/b/a National Grid  
In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's First Set of Data Requests  
Issued October 30, 2014

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Division R-I-9  
(East Bay and Providence Short-Term CYME modeling)

Request:

For each study, provide the amount of expenditure and time requirement invested to date.

Response:

For the East Bay study, approximately 230 hours have been worked, for a total cost of approximately \$18,680, including labor overheads.

For the Providence Short-Term study, approximately 174 hours have been worked, for a total cost of approximately \$13,580, including labor overheads.

The Narragansett Electric Company  
d/b/a National Grid  
In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's First Set of Data Requests  
Issued October 30, 2014

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Division R-I-10  
(East Bay and Providence Short-Term CYME modeling)

Request:

Provide the anticipated completion date for each study.

Response:

The expected completion date for the East Bay Study is October 2015. The expected completion date for the Providence Short Term Study is December 2015.

The Narragansett Electric Company  
d/b/a National Grid  
In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's First Set of Data Requests  
Issued October 30, 2014

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Division R-I-12  
(Providence Area Long-Term Supply and Distribution Study and Quonset Point Area Study)

Request:

Provide the amount of expenditures and time requirement to complete each study

Response:

For the Providence Area Long-Term Supply and Distribution Study, approximately 1,450 hours have been worked for a total internal labor cost of approximately \$107,550, including labor overheads. Additional costs for consultants and miscellaneous charges are approximately \$151,600 and \$13,400 for a total study cost of approximately \$272,550.

For the Quonset Point Area Study, approximately 254 hours have been worked for a total internal labor cost of approximately \$34,300 including labor overheads. Additional costs for consultants and miscellaneous charges are approximately \$10,750 and \$2,950 for a total study cost of approximately \$48,000.

The Narragansett Electric Company  
d/b/a National Grid

In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's First Set of Data Requests  
Issued October 30, 2014

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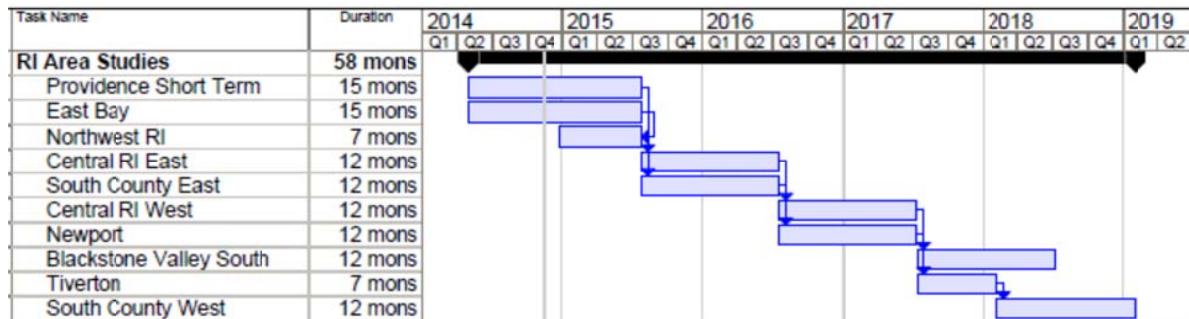
Division R-I-13  
(Long Range Planning)

Request:

Provide the schedule to complete studies for remaining Study Areas.

Response:

A draft study schedule is shown below. Studies are generally classified as low, medium, or high complexity with duration at 3.5, 7, and 12-15 months respectively. Low complexity studies are those studies for a very small area, sometimes a single substation. Areas with 3 to 5 substations and from 10 to 20 circuits are considered medium complexity studies. Areas with more than 5 stations, more than 20 circuits, or areas that may involve transmission system expansion of any size are considered high complexity efforts. For purposes of a draft schedule, all study areas were considered medium complexity or higher.



In the third calendar quarter of 2014, the Company began tracking studies through its PlanPro tool. This tool tracks the progress and delays of studies and serves as an interface to access project-related documentation that is stored in an associated database. Screenshots for the tool are shown below.

The Narragansett Electric Company  
d/b/a National Grid  
In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's First Set of Data Requests  
Issued October 30, 2014

Division R-I-13  
(Long Range Planning), page 2

**PlanPro - Study Data**

Effort Title: **Rhode Island-NEOS-EAST-BAY-23** \*\*\* Bold Fields are Required to Lock Study Information and Create Title

Engineer: Jack Vaz      Need Date: - Select -      Number of Customers: 43002      Calc Customers

Team: [Empty List]      \*Start Date: 08/18/2014      Number of 1MW or Greater Customers: 10      Dist Work Order: 90000137996

Study Activity(s):  
☒ Reactive  
☒ Reliability  
☒ Thermal  
☒ Voltage

Total Area Load (MW): 175      Sub-T Work Order: [Empty]

Recommended Plan Cost (\$M): [Empty]      Trans Work Order: [Empty]

\*Complexity: High      Drivers:  
☒ Asset  
☒ Capacity  
☐ Customer  
☐ Regulatory  
☒ Reliability      Work Order 4: [Empty]  
Work Order 5: [Empty]

Study Type:  
☐ Program  
☒ Area  
☐ Customer  
☐ Other

Company: Narragansett Electric      Status: Active

\*State: Rhode Island      Associated Studies and Projects: [Empty List]

\*Division: NEOS      Status Comments:  
2014-08-19 09:14:34.310000  
2014-08-19 09:14:25.575000  
The project was a future priority and the study is starting off.

District: Capital

Cities/Towns: [Empty List]      \*Study Area(s): [Empty List]      Substations: [Empty List]      Supply Lines: [Empty List]      Feeders: [Empty List]      Voltages: [Empty List]

**PlanPro - Study Milestones**

**Study Milestones**

	Initial Scheduled Complete Date	Modified Scheduled Complete Date	Actual Complete Date	Attachments
Pre-Kickoff Activities	09/19/2014	09/19/2014	09/19/2014	...
Initial System Assessment	12/28/2014	12/28/2014	11/12/2014	...
Study Kickoff Meeting	01/12/2015	01/12/2015	11/12/2014	...
Detailed System Assessment	02/06/2015	02/06/2015	11/12/2014	...
Plan Development	03/28/2015	03/28/2015	11/12/2014	...
Estimates Received	06/16/2015	06/16/2015	11/12/2014	...
Recommended Plan	07/06/2015	07/06/2015	11/12/2014	...
Tech Review Meeting	07/26/2015	07/26/2015	11/12/2014	...
Documentation	08/15/2015	08/15/2015	11/12/2014	...
Study Complete	08/15/2015	08/15/2015	11/12/2014	...

Auto-Increment ☒      Misc Attachments: ...

Close      View Changelog      Save Changes

Prepared by [Redacted] under the supervision of: Ryan Constable



**Raquel J. Webster**  
Senior Counsel

November 19, 2014

**BY HAND DELIVERY & ELECTRONIC MAIL**

Luly E. Massaro, Clerk  
Rhode Island Division of Public Utilities and Carriers  
89 Jefferson Boulevard  
Warwick, RI 02888

**RE: National Grid's Proposed FY 2016 Electric Infrastructure, Safety, and Reliability Plan  
Responses to Division Data Requests – Set 1**

Dear Ms. Massaro:

I have enclosed five (5) copies of National Grid's<sup>1</sup> response to Division R-I-11 in the above-referenced matter.

In response to this data request, the Company has provided complete copies of two studies that contain highly confidential Critical Energy Infrastructure Information. (*See Confidential-DIV-R-I-11 Attachment 1 (Quonset Study) and Confidential-DIV-R-I-11 Attachment 2 (Providence LT Study)*). Therefore, the Company has provided the Division with the confidential versions of these studies in password-protected .pdf files.

This transmittal completes the Company's responses to the Division's First Set of Data Requests in this matter.

Thank you for your attention to this transmittal. If you have any questions, please contact me at (781) 907-2121.

Very truly yours,

A handwritten signature in blue ink, appearing to read "Raquel Webster", with a stylized flourish at the end.

Raquel J. Webster

Enclosures

cc: Steve Scialabba  
Leo Wold, Esq.  
Jim Lanni  
Al Contente

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

The Narragansett Electric Company  
d/b/a National Grid  
In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's First Set of Data Requests  
Issued October 30, 2014

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Division R-I-11

(Providence Area Long-Term Supply and Distribution Study and Quonset Point Area Study)

Request:

Provide complete copies of each study including modeling, results, and reports. (PowerServices received a few pages of confidential information but additional information was not provided). Provide all supporting data, to the extent possible, in Excel or electronic format.

Response:

Complete copies of each study are provided as Confidential-DIV R-I-11-Attachment 1 (Quonset Study) and Confidential-DIV-R-I-11-Attachment 2 (Providence Long-Term Supply Study). The Company did not develop CYME modeling for the Providence Long Term Study because of its long range study horizon. Similarly, the Company did not develop modeling for the Quonset Point Study because of its aggressive schedule.

Please note that the Quonset and Providence Long-Term Supply Study reports contain Critical Energy Infrastructure Information. Therefore, the Company has provided the confidential versions of these reports in password-protected files.



**Raquel J. Webster**  
Senior Counsel

November 19, 2014

**BY HAND DELIVERY & ELECTRONIC MAIL**

Luly E. Massaro, Clerk  
Rhode Island Division of Public Utilities and Carriers  
89 Jefferson Boulevard  
Warwick, RI 02888

**RE: National Grid's Proposed FY 2016 Electric Infrastructure, Safety, and Reliability Plan  
Responses to Division Data Requests – Set 2**

Dear Ms. Massaro:

I have enclosed five (5) copies of National Grid's<sup>1</sup> responses to the Division's Second Set of Data Requests issued in the above-referenced matter.

Please note that National Grid's response to Division Data Request R-II-4 is pending. National Grid will file its response to this data request shortly.

Thank you for your attention to this transmittal. If you have any questions, please contact me at (781) 907-2121.

Very truly yours,

A handwritten signature in blue ink, appearing to read "Raquel Webster", with a stylized flourish at the end.

Raquel J. Webster

Enclosures

cc: Steve Scialabba  
Leo Wold, Esq.  
Jim Lanni  
Al Contente

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

The Narragansett Electric Company  
d/b/a National Grid  
In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's Second Set of Data Requests  
Issued November 10, 2014

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R-II-1

Request:

For FY2014, provide the detail associated with reimbursement related to Customer Request and Public Requirements (previously Statutory/Regulatory) projects. Indicate the projects, expected reimbursement, and actual reimbursement collected by fiscal year.

Response:

Attachment DIV R-II-1 contains the project-by-project capital spending within the Customer Request and Public Requirements spending rationale for FY2014. The Company added additional columns for the FY2014, Pre-FY2014, and Post FY2014 (FY2015 to-date) Customer Contribution/Billing Adjustment information for the projects that incurred charges during FY2014.

The Company's policy is to collect reimbursement up front for amounts billed on estimates for third-party Party Attachments and New Business work. Work does not start until the Company collects the funds. Therefore, the "expected" reimbursement equals the "actual" reimbursement for the projects included in these categories.

For Department of Transportation (DOT)-related work in the Public Requirements budget classification, the Company bills after certain milestones or after the work is completed. Ninety percent (90%) is reimbursed as billed and the final ten percent (10%) is subject to reimbursement following a DOT audit.

### Customer Payments on FY2014 Projects

Spending Rationale	Budget Class	Funding Project #	Proj Desc 2	FY2014 Capital Spend	Customer Contribution/Billing Adjustments Included in FY2014 Capex Reported	Pre-2014 Customer Contribution/Billing Adjustments	FY2015 Customer Contribution/Billing Adjustments
Customer Requests/Public Requirements	3rd Party Attachments	C034624	Cox Wireless DAS Project	(7,537)		(159,712)	3,050
		CD00216	Open Cape Fiber Project-RI Section	(1,200)	1,967	(1,967)	
		COS0022	Ocean St-Dist-3rd Party Atch Blnkt	150,150	8,173		
	<b>3rd Party Attachments Total</b>			<b>141,413</b>	<b>10,140</b>	<b>(161,679)</b>	<b>3,050</b>
	Distributed Generation	C045555	DG Svc to rTerra (RI-243)	0		(216,547)	
		C046386	BITS Wakefield Sub Upgrades (D-Sub)	14,212			
		C047495	DG SVC OCI Solar RI-233	155,207	(537,670)		
		C051496	Toray Plastics (12.5MW GT)	(233,100)	(233,100)		
		C051646	DG Svc to Soltas Enrgy Prov, RI	115,314			
		CD00751	RI 225 NBC 4.5 MW WT interconnection	0		(527,255)	
		CD01024	Wind Energy Development, N. Kingstown	5,911		(169,767)	
		CD01076	RI225 NBC Point St 76F8 DTT	137,490			
	<b>Distributed Generation Total</b>			<b>195,033</b>	<b>(770,770)</b>	<b>(913,569)</b>	<b>0</b>
	Land and Land Rights	C048379	RE Obtain ROW-OS Narragansett	42,752			
		COS0009	Ocean St-Dist-Land/Rights Blanket	51,100			
	<b>Land and Land Rights Total</b>			<b>93,851</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Meters - Dist	CN04904	Narragansett Meter Purchases	575,865			
		COS0004	Ocean St-Dist-Meter Blanket	259,045	(1,250)		
	<b>Meters - Dist Total</b>			<b>834,910</b>	<b>(1,250)</b>	<b>0</b>	<b>0</b>
	New Business - Commercial	C032692	Citizens EPOC-Second Feeder Service	3,902			
		C048798	1000 Danielle Dr, Burrillville, RI	107,093			
		C049981	Nsnville 127W41 New Customer Load	3,740			
		C050657	Senesco, N Kingstown, RI	178,668			
		C052709	3phse to 1425 Cranston St, Cranston	2,182			(107,027)
		CD00211	Citizens EPOC, Reconductor Tripps	(6,219)	20,000	(20,000)	
		CD00221	CVS Caremark-Distribution Line Con	195		(20,000)	
		CD00722	New Shun Pike Substation - 23kV Lin	(178,124)	(526,554)		455,000
		CD00723	New Shun Pike Substation - 23kV Sub	1,406,579			(262,000)
		CD00925	Interim Plan to Serve CVS Data Cent	170,798			
		COS0011	Ocean St-Dist-New Bus-Comm Blanket	3,267,812	(938,144)		
	<b>New Business - Commercial Total</b>			<b>4,956,626</b>	<b>(1,444,697)</b>	<b>(40,000)</b>	<b>85,973</b>
	New Business - Residential	C050615	Indian Ave, Middletown RI.	105,498			
		C054005	SHARPE BUILDING ASSC-Foundry Bld 4	6,567			
		CD00411	Terminal Rd	18,688		(242,446)	
		COS0010	Ocean St-Dist-New Bus-Resid Blanket	3,457,999	(254,728)		
		CRCC102	New Bus - Res -RI	4,080			
	<b>New Business - Residential Total</b>			<b>3,592,833</b>	<b>(254,728)</b>	<b>(242,446)</b>	<b>0</b>
	Outdoor Lighting - Capital	C026837	Mercury Vapor Replacement	3,465			
		COS0012	Ocean St-Dist-St Light Blanket	754,648			
	<b>Outdoor Lighting - Capital Total</b>			<b>758,113</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Public Requirements	C001077	DOTR-Trestle Trail Bike Path, Cov.	(3,074)	(9,216)		
		C001153	I-195 RELOCATION PREL. ENG.	(61,629)	(61,629)	(26,131)	
		C001179	HWY-RT 5-95 TO POTTERS AV WARWICK	(94,978)	(94,978)	(268,893)	
		C001285	DOTR-Chestnut Hill Rd Br 951 Glouce	(18,893)	(18,893)		

### Customer Payments on FY2014 Projects

Spending Rationale	Budget Class	Funding Project #	Proj Desc 2	FY2014 Capital Spend	Customer Contribution/Billing Adjustments Included in FY2014 Capex Reported	Pre-2014 Customer Contribution/Billing Adjustments	FY2015 Customer Contribution/Billing Adjustments
		C001286	DOTR-Wyoming Bridges No. 43/44	(5,900)	(5,900)	(75,304)	
		C007258	HIWY-I-195 Reloc Contr8 Allen's Av	(82,591)	(82,591)	(412,009)	
		C008775	DOTR-Conant St R/R Bridge Pawtucket	(202,758)	(264,044)	(98,824)	
		C009015	DOTR-Reloc Rt403 Rt4 Interch Phase2	(33,381)	(33,381)	(310,170)	
		C010126	DOTR-Recnst Branch Av Br No976 Prov	(33)			
		C012178	DOTR-Repl of Sakonnet River Bridge	(145,869)	(145,869)	(21,617)	
		C012179	DOTR-Repl Great Island Bridge No499	775			
		C012440	I-195 Cont 11 Part 21 W Franklin St	773		(3,308)	
		C015127	13F5 - 460 Charles St - SGIC	1			
		C015403	DOTR-Atwood Av/Plainfield PikeInter	63,170			
		C027123	Watch Hill OH to UG, Westerly RI	345		(169,816)	
		C029043	DOTR- Recon Pawtucket Bridge 550	(66,133)	(84,166)		
		C029141	DOTR-N. Broadway,Bridges 478&479	(21,881)	(21,881)		
		C030827	I-195 Contr 11, Part 21RE-1	(60,636)	(59,985)	(244,054)	7,174
		C031026	DOTR-Pocasset River Bridge No. 23	28,517	(24,409)		
		C031181	DOTR-Pawtucket Br 550, Pine St Br	(69,723)	(70,399)		
		C032285	DOTR-Prov Dean St, Cahir St Improv	(48,807)	(49,163)		
		C032991	DOTR-Exeter, Ten Rod Rd Bridge #591	20,084			
		C033350	DOTR-Prov Viaduct Bridge No. 578	17,034			
		C033786	DOTR-Frenchtown Brook Bridge 435	(1)			
		C035087	DOTR-Apponaug Circulator Imprv Warw	80,677			
		C035145	DOTR-Cranston Hi Haz Intersect Imp	3,060			(11,429)
		C036086	DOTR-Cov Laurel Av Br Emerg Repair	(2,723)	(2,723)	(7,934)	
		C036683	DOTR-Natick Bridge No. 383 Warw/WW	82,666			
		C045657	DOTR-Repl Bridges No.475 & 476 E.P.	6,972			
		C047039	DOTR-East Main Rd, Portsmouth	1,072			
		C047075	DOTR-Blackstone River Bikeway Seg8C	3,277			
		C048599	DOTR-Putnam Pike/Money Hill Rd	1,142			
		C048717	DOTR-EMain/WMMain Int Recon	1,301			
		C050419	DOTR-Woonsocket-Hamlet AvBridge#500	1,565			
		C050921	DOTR-Hi Haz IntersectionsBristol Co	4,965			
		C051723	DOTR-E.Providence Bridge 465	1,269	(1,666)		
		C051964	DOTR-ChopmistHillRD/Danielson Pike	2,213			
		C052268	DOTR-Central St Bridge No.449	2,687			
		C054045	DOTR-HarrisAV#510TobeyST#509	3,842			
		CD00002	Miriam Hospital Second Feeder Servi	872,558		(207,752)	(51,866)
		CD00076	DOTR-Atwells Avenue Bridge No. 975,	7,530			
		CD00135	I-195 Contract 14 - Providence	3,255,167			
		CD00189	DOTR-Central Bridge No. 182 Replace	120			
		CD00203	Brown University-Franklin Sq./South	29,615		(76,000)	
		CD00229	DOTR-Statewide Hi Haz Int/Ramps W.S	14			
		CD00246	DOTR-Bartons Corner Bridge No. 518	38,779			
		CD00373	Watch Hill UG Phase 2	(857,473)	(970,258)		119,144
		CD00393	112W41 main line extension along pa	4,801			

### Customer Payments on FY2014 Projects

Spending Rationale	Budget Class	Funding Project #	Proj Desc 2	FY2014 Capital Spend	Customer Contribution/Billing Adjustments Included in FY2014 Capex Reported	Pre-2014 Customer Contribution/Billing Adjustments	FY2015 Customer Contribution/Billing Adjustments
		CD00409	DOTR-Improvements to Division St, E	89,310			
		CD00567	DOTR-East Main Rd, Turnpike Av-Hedl	14			
		CD00679	DOTR-Rehab Coles Bridge No. 134, Pa	203			
		CD00690	NBC -Tunnel Project, Providence	1,871		(183,414)	
		CD00752	NBC - 1 Service Rd, Providence RI	154,767		(58,345)	
		CD00766	I-195 Contract 15 - Providence	790,120			
		CD00996	ACNW Vault 46 Structural Repairs, P	182			
		CD00997	ACNW Vault 34 Structural Repairs, P	142			
		CD01071	DOTR-I-195 Contract 14 Pt 24 RE	(15,824)			
		CD01080	NBC Seekonk CSO interceptor	168,369	(24,060)	(299,869)	
		CD01205	DOTR-Hussey Memorial Bridge No. 011	100			
		COS0013	Ocean St-Dist-Public Require Blankt	284,779	(567,106)		
			<b>Public Requirements Total</b>	<b>4,233,542</b>	<b>(2,592,316)</b>	<b>(2,463,440)</b>	<b>63,023</b>
	Transformers & Related Equipment	CN04920	Narragansett Transformer Purchases	2,331,320	(29,340)		
	<b>Transformers &amp; Related Equipment Total</b>			<b>2,331,320</b>	<b>(29,340)</b>	<b>0</b>	<b>0</b>
<b>Customer Requests/Public Requirements Total</b>				<b>17,137,642</b>	<b>(5,082,961)</b>	<b>(3,821,133)</b>	<b>152,047</b>

The Narragansett Electric Company  
d/b/a National Grid

In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's Second Set of Data Requests  
Issued November 10, 2014

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Division R-II-2

Request:

Please provide details related to the Sockanosset #2 TX failure including a description of the impacted equipment, cause of failure, replacement equipment, estimated budget, expenditures to date, and efforts to minimize costs due to future elimination of the substation.

Response:

On Monday, March 19, 2012, the 2233 line, which is fed out of the Sockanosset Substation, experienced a permanent fault that caused a feeder lock-out. At the same time, the #2 transformer at the station tripped off-line due to a differential protection scheme operation on both the A and C phases. Test results indicated a shorted turn in the winding and the dissolved gas analysis indicated that an arc occurred within the transformer tank. The transformer was considered a failure and no longer available for service. Subsequent tear down supported this analysis.

The failed #2 transformer was rated 115 kV/23 kV, 24/32/40 MVA and was wye-wye manufactured by General Electric Company in 1972, making it 42 years old. The transformer was replaced with a system spare transformer rated 115 kV/23 kV, 30/40/50, MVA manufactured by Asea-Brown Boveria in 2011. A new system spare was ordered to replenish our transformer spare inventory.

Due to cost adjustments made during the project closeout summary in March 2014, a charge occurred in April 2014 (fiscal year 2015) that was associated with the system spare transformer. The estimated budget for this project was \$1.750 million with an accuracy of +/-25%. The expenditures to date are \$1.244 million. Since the project was closed in May 2014, these are final expenditures.

The work performed on this project only consisted of what was necessary to bring the station back to normal operation, thereby eliminating any opportunistic capital work that may generally be performed if the station were to remain in service for the long-term. In addition, the newly installed transformer will be returned to system spares once the station is retired. The newly installed transformer has the potential of providing coverage for 10 transformers at five substations in Rhode Island.

The Narragansett Electric Company  
d/b/a National Grid

In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's Second Set of Data Requests  
Issued November 10, 2014

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Division R-II-3

Request:

Please provide impacts to the Damage/Failure category, if any, due to the October 21, 2014 unexpected outage at South Street Substation.

Response:

There are two issues related to the unexpected outage on October 21, 2014 at the South Street Substation.

The first issue is related to the 11kV outdoor bus at the South Street Substation. Repairs to return the 11 kV outdoor bus at the South Street substation to normal operation were expense, and, therefore, would not affect the capital Damage/Failure category. To date, actual expense charges for this work order are \$19,647.27. The Company does not expect any future additional charges.

The second issue relates to Franklin Square, which is closely tied to the South Street Substation. Repairs to return the 11kV 3320 transformer leads at Franklin Square to normal operation were done under a specific capital Damage/Failure work order. To date, actual charges for this work, which would be included in the capital Damage/Failure category, are \$123,105.29. There may be additional charges during the closeout of this work order.

The Narragansett Electric Company  
d/b/a National Grid  
In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's Second Set of Data Requests  
Issued November 10, 2014

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Division R-II-5

Request:

The proposed FY 2016 ISR Plan includes a budget of \$1.498M for the Underground Cable Strategy. The Company also estimates spending \$2.5M in FY 2016 for system-wide underground cable replacement. (see page 28 of the *Rhode Island Underground Cable Replacement Program – Study Report* dated August 15, 2014) Please explain the relationship between these two programs and their respective budgets, and specifically whether the \$2.5M expenditures are incremental to, or included in, the proposed FY 2016 ISR Plan.

Response:

The estimated spending of \$2.5M in the Underground Cable Strategy document is a budget proposal for what the Company expects will become actual projects. As the actual projects shown in Appendix 4 and 5 of the Underground Cable Strategy tables were selected and created, the aggregate estimates of these projects resulted in a FY 2016 total of \$2.7M, which is slightly above the \$2.5M originally estimated in the strategy document. During the Company's evaluation of the FY 2016 ISR plan in September, the Company reduced spending on select funding projects to achieve a total FY 2016 budget of \$76.5M. In this case, the Company reduced the \$2.7M Underground Cable Replacement Program funding by \$1.2M, which equates to the \$1.5M budgetary number. As the selected projects in this program mature and estimates and schedules are refined, the Company will evaluate what projects are deferred into FY 2017 to achieve the \$1.5M FY 2016 budget.

The Narragansett Electric Company  
d/b/a National Grid

In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's Second Set of Data Requests  
Issued November 10, 2014

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Division R-II-6

Request:

For each metalclad breaker identified (see page 23 of the *Rhode Island Metalclad Replacement* working document dated August 19, 2014), provide the status (breakdown between engineering and construction), anticipated cost, and anticipated fiscal years in which the work will be performed.

Response:

In reference to the Rhode Island Metalclad Replacement working document dated August 19, 2014 (Page 23), below is the five-year plan, which represents the stations that will be addressed under the metalclad switchgear replacement program. The table displays the intended mitigation plan, status of each project, and anticipated cost and intended fiscal year(s) for engineering and construction. The table reflects only the locations that have formulated solutions in place; the specifics of the remaining locations listed on Page 23 will be determined at a later time. The Notes column on Page 23 represents a high-level plan that is subject to change based on future system requirements.

Station Name	Mitigation Plan	Project Status		Fiscal Year Cash Flow					
		Engineering	Construction	2016 \$k	2017 \$k	2018 \$k	2019 \$k	2020 \$k	2021 \$k
Lee St #30	Retire	FY15	FY16	\$ 600.0					
Daggett Ave. #113	Retire	FY15	FY16	\$ 690.0					
Pawtucket 1 #107	Replace	FY19	FY20/21				\$ 200.0	\$1,000.0	\$ 725.0
Crossman St. #111	Retire	FY16	FY17	\$ 110.0	\$ 600.0				
Hospital #147	Replace	FY16/17	FY18	\$ 25.0	\$ 200.0	\$1,300.0	\$ 725.0		
Vernon #23	Retire	FY17	FY17		\$ 10.0	\$ 10.0			
Lippitt Hill	Replace	FY15	FY16	\$ 350.0					
Southeast #60	Retire	FY15	FY16	\$ 254.0					
Cottage St. #109	Retire	FY16	FY17	\$ 35.0	\$ 800.0				
Centre St. #106	Retire	FY16/17	FY17/18	\$ 20.0	\$ 200.0	\$ 910.0			
Hyde Ave #28	Retire	FY15	FY16	\$ 610.0					
Central Falls #104	Retire	FY20	FY20/21					\$ 250.0	\$ 100.0
Front St. #24	Retire	FY15	FY16	\$ 246.0					
Kingston #131	Replace	FY17	FY18/19		\$ 175.0	\$ 515.0	\$ 360.0	\$ 360.0	
Clarke St. #65	Replace	FY18	FY19/20			\$ 250.0	\$1,300.0	\$ 725.0	

The Narragansett Electric Company  
d/b/a National Grid

In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's Second Set of Data Requests  
Issued November 10, 2014

Division R-II-7

Request:

Please provide the following information for Lafayette Substation #30 and West Cranston #21 transformers, scheduled for replacement under the Substation Transformer Replacement strategy.

- a. Transformer age, nameplate ratings, current and projected loadings, and detailed explanation for replacement including assessment criteria and criticality ratings.
- b. A copy of dissolved gas analysis report, to include the historical recordings.
- c. Any additional assessments performed to document condition issues.

Response:

West Cranston #21 Substation

The No. 2, 3 PH Load Tap Changer ("LTC") transformer at West Cranston #21 Substation has been identified for replacement due to condition issues. The transformer is rated 115 kV to 13.2 kV, delta-wye, 12/16/20 MVA, OA/FA/FA and was manufactured by Allis Chalmers in 10/1/1970, making it 44 years of old.

The barrier board between the transformer main tank and the LTC compartment has deteriorated, allowing the insulating oil to leak either into the main tank or the LTC compartment. For normal functionality, the transformer should have separate and exclusive insulating oil compartments for the main tank and LTC compartments. The various connections per phase (approximately 60) have loosened over time due to deteriorated gaskets. The main tank insulating oil leaks into the LTC compartment causing overfill and the need to drain the LTC often. The LTC compartment required draining three times within a five-month span. Additionally, the on-line LTC Dissolved Gas Analysis is inconclusive because the main tank is generating Ethylene gas and, therefore, provides an inaccurate analysis of the condition of the LTC. Furthermore, the main tank oil level is low, requiring the need to add oil to the main tank. As a result of this situation and other factors such as the age of the transformer, the fact that high side windings are aluminum instead of copper, and the projected loading in the area, the Company decided to replace this transformer with a 40 MVA unit.

The current and projected loadings are as follows:

		System Voltage (kV)		Name-plate Rating	Actual Load		Projected Growth							
					2013		2014		2023		2028		2030	
Substation	Tranf. ID.	From	To		MVA	% SN	MVA	% SN	MVA	% SN	MVA	% SN	MVA	% SN
West Cranston #	T1	115	12.47	20	9.8	35%	10.1	36%	10.7	38%	11.0	40%	11.1	40%
West Cranston #	T2	115	12.47	20	17.7	64%	18.4	66%	19.4	70%	19.9	72%	20.2	73%
STATION LOAD					27.5		28.5		30.0		30.9		31.3	

The Narragansett Electric Company  
d/b/a National Grid

In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's Second Set of Data Requests  
Issued November 10, 2014

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Division R-II-7, page 2

The West Cranston substation was designed and permitted as a six feeder station with two 20 MVA transformers supplying three feeders. The station peak load is approximately 29 MW and the 20 MVA transformers limit the loading at the station. Therefore, any future expansion will require replacing the 20 MVA units with larger 40 MVA units. In addition, 40 MVA transformers are standard for stations with six feeders to eliminate customer exposure to extended outages due to the loss of one transformer or supply line. This will also assist with future expansion in the area.

Lafayette Substation #30

Lafayette Substation #30 is located in North Kingston, Rhode Island. Presently, there are two feeders out of this station serving approximately 3,600 customers. The existing No.1 transformer is rated 34.5 - 12.47Y/7.2 kV delta-wye, 5/6.25 MVA, conservator, and is manufactured by General Electric. The Company is replacing this No. 1 transformer because of condition issues. For example, recent tests indicate that the unit is wet and contaminated. The Furan Analysis, which detects cellulose by-products in the oil, reveals that the insulation system is deteriorated and near its end of useful life. The transformer is 56 years old, and the unit has been on the Transformer Replacement and Watch Lists. The Company is proactively replacing this transformer because of the high likelihood of failure. The Company will replace this transformer with a standard unit rated 34.5 kV to 12.47 kV delta-wye, 7.5/9.375 MVA.

The current and projected loadings are as follows:

Substation	Tranf. ID.	kV		Name-plate Rating	Actual Load (MVA)	Projected Load (MVA)				
		From	To		2013	2014	2018	2023	2028	2030
LAFAYETTE 30	1	34.5	12.47	5	6.4	5.2	5.3	5.4	5.5	5.6

The projected 2014 load for the Lafayette Number 1 transformer is lower than the actual 2013 load because the area was reconfigured as a result of the installation of a new feeder at Tower Hill substation.

The Narragansett Electric Company  
d/b/a National Grid  
In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's Second Set of Data Requests  
Issued November 10, 2014

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Division R-II-8

Request:

What is the overall status of the Network Arc Flash Program and anticipated completion date?

Response:

In total, sixty-four arc flash locations are scheduled to be completed by the end of FY 2018. Two arc flash installations were completed in FY 2014. At this time, for FY 2015, of a total of twenty-four locations, two arc flash locations have been completed, nineteen are ready for construction, and three are in the design phase. In addition, there are thirty-eight proposed arc flash location projects for FY2016-FY2018.

The Narragansett Electric Company  
d/b/a National Grid  
In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's Second Set of Data Requests  
Issued November 10, 2014

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Division R-II-9

Request:

For the Inspection & Maintenance Program, provide total outage statistics for circuits that have completed repairs versus those circuits that have not completed repairs, by applicable year.

Response:

Please see DIV R-II-9 Attachment 1 for SAIFI and SAIDI data for all Rhode Island circuits from FY2010 to the first quarter of FY2015. The data used in the report excluded Major Storms Events and included only outages with more than one customer interrupted. The data also included all planned outages. For circuits where Inspection & Maintenance ("I&M") construction is completed, the fiscal year of the completion is noted.

The total Outage Data per feeder completed by the I&M program does not capture the impact of certain types of repairs. The data includes outages from motor vehicle accidents, substation outages, tree related outages, and other events that would not directly be mitigated by the completion of the identified repairs in the program. The I&M Program Cost/Benefits Study of August 29, 2014, contains a refined analysis that focuses on animal, lightning, and deteriorated equipment outages for circuits completed by the end of FY 2013.

Feeder	2010 SAIDI	2011 SAIDI	2012 SAIDI	2013 SAIDI	2014 SAIDI	2015 Q1 SAIDI	I&M Repairs Completed
53-0022							
53-102K22							
53-102W40							FY15
53-102W41	2.9167	45	80.3143			73.7059	
53-102W42	7.0643				54.4513		
53-102W44	147.8542	7.3109	9.642	4.8361	11.0212	8.1596	
53-102W50							
53-102W51	42.2	87.1128	0.7571	42.0142	10.2864	3.3341	
53-102W52		5.4572	2.6456	29.0531	44.6259	15.366	
53-102W54	22.6381	21.6915	23.022	51.6105	23.168	7.6094	FY15
53-104J1		1.6418					
53-104J3			2.4038		2.0483		
53-104J5				35.424	185.4821	6.8905	FY14
53-104J7	3.4772		228.4111	54.3562	161.604	72.7078	FY14
53-105K1	15.4286		83		83	823	
53-106J1	24.1203	65.9176	3.6272		14.3406	38.737	
53-106J3	30.6131	65.278		0.7778	48.5774	38.2273	
53-106J7	23.1	66			137	38	
53-107W1	5.0539						
53-107W3	5						
53-107W43	105.0481	93.3977	198.3921	2.4414	0.6057	107.4239	
53-107W49	10						
53-107W50	9.9455		42.5956	0.7815	87.2279	7.5065	
53-107W51	43.7	2.4405	3.4439	230.2505	20.2649	8.9429	
53-107W53	128.6617	6.2451	58.2115	48.7225		1.1731	
53-107W60	119.8805	136.6132	118.8596			27.5112	
53-107W61	1.74	7.1919	3.8249	9.702	30.2412	5.7302	
53-107W62	46.0875	10.4478	32.0586	8.6286	85.5995	65.201	
53-107W63	44.4589	4.0614	0.5945	104.5532	3.9083	26.9144	
53-107W65	62.2229	23.8299	17.5063	166.8588	5.2629	2.5594	
53-107W66	58.7544	108.3061			0.4887		
53-107W80	1.047	10.7982	24.8705	500.7104	3.0123		
53-107W81	1.6356	1.1404	2.8777	7.6006	12.0626	53.5238	
53-107W83	50.1442	85.2449	1.2055	3.7197	4.6267	7.6461	
53-107W84	43.5231	101.3546	25.8843	21.4138	34.4308	5.5533	
53-107W85	10.521	94.1754	42.2511	5.8977	5.9134	53.3789	
53-108W51	1.8362	45.3208		2.0022	21.4368	18.163	
53-108W53	17.606	117.6315	87.4444	25.7322	1.5061	71.6052	
53-108W55	1.4351	10.7561	43.1452	0.4958	26.7989	0.7839	
53-108W60			3.5636	11.7073			
53-108W61	44.7854	6.3037	26.9146	85.1933	4.8462	4.1296	FY14
53-108W62	46.8174	4.8719	93.6894	93.3664	31.3322	109.3442	FY14

53-108W63	53.2558	18.3716	51.9405	112.7749	11.7725	84.7687	
53-108W65	64.4452	36.8663	1.6805	48.0157	87.1559	9.5782	
53-109J1	90.5129	155.962	94.351	1.3263			
53-109J3	89.1094	126.6013	94.4725	58.9969		1.444	
53-109J5	88.3046	129.631	131.3598	17.0315	3.393	5.7938	
53-1101		2.625		9.6988	238.5536		
53-1103			196.7348			85.4108	
53-1105						87.5762	
53-1107						87	
53-1109							
53-1111						84.9072	
53-1113						85.1723	
53-1117							
53-1119	49	213.6364	169.0909	55			
53-111J1	46.3421		74.4675	5.4524	36.4708	124.4988	
53-111J3	44.8055	1.3436	42.5143	1.0596	38.5557	27.1842	
53-1121		308.2222					
53-1123							
53-1125				100.7059			
53-1127					454.2612	88.6911	
53-1129							
53-112W41	1.5789	76.1358	47.2917	93.1963	79.3187	13.2749	<b>FY15</b>
53-112W42	32.674	31.806	98.1641	141.9853	43.1062	195.4398	<b>FY14</b>
53-112W43	71.5634	125.4868	250.1276	413.3506	100.937	37.1186	
53-112W44	84.1926	72.5019	102.44	55.4919	21.6359	57.1448	<b>FY14</b>
53-1131		33.4286	36.6667	9.2857	208.5	157.6667	
53-1133	42	45					
53-1135						85.26	
53-1137				569			
53-1139						87.7699	
53-113J1	0.8008	88.2816	0.8016	64.9337	27.2748	3.4837	
53-113J2	109.938	1.908	1.4237	87.2319	23.0424		
53-1145							
53-1147							
53-1149		97.75	102.4681	537.7917		22.625	
53-1169					40.8228		
53-1171		30	85		224.3636		
53-126W40	17.4834	224.56	110.4966		27.7584	27	
53-126W41	12.0504	48.7755	246.1053	85.3179	26.5684	33.8201	
53-126W42	38.4322	32.0818	47.7536	30.2633	97.1811	121.7996	
53-126W50	22.7436	131.0679	14.1208	45.9512	98.7622	2.0962	
53-126W51	77.3262	14.8768	98.0289	20.2301	193.0136	12.0373	
53-126W53							
53-126W54	3.3893	83.9974	5.8191	54.1891	93.4678	164.2735	

53-127W40	104.94	56.7749	103.3857	57.1855	49.2509	83.7942	
53-127W41	59.9141	98.285	196.084	154.9637	79.6076	40.6096	
53-127W42		70.4154	62.9069				
53-127W43		174	63	369	13		
53-12J1	46.4862	11.5385	80.2161				FY15
53-12J2	5.8054	30.8495		37.7454	1.745		
53-12J3			34				
53-12J4	0.1131	3.0452	49.1921	61.4088	1.5288	0.5018	FY15
53-12J5	66.9	67.7049	51.9032	5.1935	102.1167	119.0339	
53-12J6	370.8077	18.3673		48.2353	4.1176		
53-13F1				149.0107	38.7534		
53-13F2	8.6143	6.3946	34.3517	12.7904	56.3079	15.5184	
53-13F3	9.2992	35.557	115.0026	20.5588	16.3474	427.6772	FY15
53-13F4	32.2984	29.6385	16.8827	4.9954	149.6912	34.9752	
53-13F5	95.5132	9.05	7.1094	33.8492	3.5273	55.0642	FY14
53-13F6	3.68				328.7692	84	
53-13F7							
53-13F8	3.6977				278.8		
53-13F9	22.6764	14.7665	35.0479	6.9907	34.1	4.1208	
53-148J1	0.1418	44.466	0.0333	92.6696		12.8709	
53-148J3	111.4821	202.7916	3.5784			14.8759	
53-148J5			1.9353		128.9673		
53-148J7	1.6949	100.8617	1.3265	4.3989	6.0286	65.9056	
53-15F1	16.1354	84.5752	221.7549	11.6108	168.6043	21.3964	
53-15F2	90.5855	74.3073	63.4061	121.7737	229.9681	33.5787	
53-17W42							
53-17W43	1.0647	0.7761					
53-18F1	15.4905	11.1798	3.5133	69.8079	49.9874	167.5142	
53-18F2	25.7757	18.1684	9.0542	49.3949	0.8623	2.7681	
53-18F3	39.5909	301.7923	5.069	41.6244	50.5654	70.5734	
53-18F4				19			
53-18F5	7.4464	1.5802	39.5764	24.3329	3.76	0.9667	
53-18F6	114.7449	34.6254	83.0097	140.7763	19.1806	36.2671	FY13
53-18F7	39.6001	44.9672	43.8971	76.3479	16.4371	2.3419	FY14
53-18F8	20.6962	5.1097	7.7564	54.2028	2.4613	14.1923	
53-18F9	9.5431	14.4603	11.5122	51.7991	1.9919	5.3584	FY15
53-18F10					204.4338	2.4141	
53-20F1	28.3927	12.1385	5.4301	35.2616	78.823		
53-20F2	93.5221	3.0418	13.1597	18.0611	258.8607	2.237	FY14
53-21F1	16.6063	29.3071	13.7082	41.2964	15.949	29.1825	
53-21F2	34.3774	10.3119	47.3269	16.3675	42.1989	5.0354	
53-21F4	74.4931	175.1811	14.7009	143.1358	35.0267	97.6506	FY13
53-2202							
53-2211	80.6591			114	188.4737		

53-2213	68.2	273.9167	514		243		
53-2219	146.0385		28	296.7857	57.7778	15.9	
53-2220							
53-2226	363.8824						
53-2227							
53-2228				325.3333	1538	138	
53-2228 ELM	314.1875	19.1111		110.4286	42.8571	335.913	
53-2229							
53-2235	59.6364	3521.4	457	263.5	167		
53-2242				198		86	
53-2243			133.5				
53-2260	53.6667	225			26	58	
53-2295							
53-23F1	17.2062	22.4315	6.4747	4.0375	12.3692	4.0608	<b>FY13</b>
53-23F2	10.7157	125.1501	70.2208	23.9229	16.9325	23.4953	
53-23F3	32.7309	70.405	31.9314	51.9638	32.9705	30.3956	
53-23F4	37.0437	49.8416	70.5784	157.5268	42.2029	35.2344	<b>FY14</b>
53-23F5		27	549.7143				
53-23F6	13.62	6.4477	53.4441	62.3933	4.7101	84.9189	
53-24J1	41.203	285	13.7143	13.6783			
53-26W1			28.9109	104.3201	104.8503	33.0372	
53-26W3			3.6365	82.2486	1.6519	3.9465	
53-26W5			61.2967	251.4991	21.0982	76.6801	
53-26W7			119.8854	111.0969	36.4083	6.5606	
53-27F1	14.3722	8.4967	9.8311	17.7056	7.8863	33.2508	
53-27F2			57.8154			40.6818	
53-27F3							<b>FY15</b>
53-27F4	82.2637	7.1498	54.6586		18.2513		<b>FY14</b>
53-27F5	50.8399	28.1857	52.4124	25.7689	18.0229	9.3028	
53-27F6	8.9143	13.9397	26.1947	62.1746	6.6645		<b>FY14</b>
53-28J1	2.5775	16.8419	14.6124	4.5035		168.9558	
53-28J2	0.2791	87.5475	0.323	7.9758	0.2884	129.1804	<b>FY15</b>
53-2J1		409.711	96.6224	8.7031	204.6279	103.2273	
53-2J10		200.9299				101.0377	
53-2J2						105.9268	
53-2J3		68.5174		135.4542		101.7623	
53-2J4					1.9048	101.8145	
53-2J5		185.4904	82.1042			97.4353	
53-2J7	3.6382	4.9451	45.569	81	20.9492	101	
53-2J8						100.616	
53-2J9				14.0057		207.6134	
53-30J1		97.3015	93.0482	2.9756	47.3666	3.0754	
53-30J3		153.0974	7.4866		22.5526		
53-30J5		196.8726	1.4545		64.4716		

<b>53-3324</b>							
<b>53-34F1</b>	80.4515	132.1115	196.6777	197.6353	71.6916	40.2918	
<b>53-34F2</b>	97.4473	54.0103	157.3358	127.221	128.1547	81.3194	<b>FY15</b>
<b>53-34F3</b>	415.9023	244.2406	107.8027	23.6082	112.8413	40.6795	
<b>53-36J1</b>	31.6146		7.539		0.2851		
<b>53-36J2</b>	0.3017	56.5217	6.9569	11.2727	90.2292		<b>FY14</b>
<b>53-36J4</b>	6.2574	60.1134	8.5741	376.964	84.6394		
<b>53-36J5</b>	9.0104	61.3187		4.437	4.7697	103.1392	
<b>53-37J1</b>		64.4004	39.7137		73.679		
<b>53-37J2</b>	22.6614	17.9656			68.5241	37.6828	
<b>53-37J3</b>		7.5218	0.7735	3.4628	77.7361	11.8575	<b>FY15</b>
<b>53-37J4</b>		0.3299			1.5616	0.0915	
<b>53-37J5</b>	3.0853		56.8863	72.2649	136.8015	168.1076	
<b>53-38F1</b>	90.4631	192.7936	173.2222	105.8208	49.3088	56.349	
<b>53-38F2</b>	5.4815	62.2466	94.3105	47.5907	12.6151	0.6178	<b>FY13</b>
<b>53-38F3</b>	24.6804	105.2452	53.7749	38.8611	8.2682	4.599	
<b>53-38F4</b>	26.2945	121.3506	70.3833	163.0846	12.5342	4.7426	<b>FY13</b>
<b>53-38F5</b>	12.2933	149.2851	62.8304	169.3088	33.8411	27.4679	
<b>53-38F6</b>	44.9693	7.3453	199.0354	9.6458	9.5624	13.8623	
<b>53-45F2</b>	38.2909	72.8168	257.0375	11.1814	42.3678	10.9925	
<b>53-47J2</b>	8.1586	14.8562	107.3219	6.8169	6.1359		
<b>53-47J3</b>	2.9174	1.2071	150.7569	6.747		4.6446	<b>FY15</b>
<b>53-47J4</b>	35.043	9.8629	28.5594	12.2739	7.9802		
<b>53-48F1</b>	1.5145	56.7757	4.0886	56.7202	3.5779	2.3391	
<b>53-48F2</b>	5.5103	94.0147	31.3675	156.0146	33.9042	2.881	
<b>53-48F3</b>	51.6788	75.5459	51.9115	167.0932	11.1583	2.557	
<b>53-48F4</b>	167.8022	84.8981	12.3761	18.3034	10.4401	5.0562	
<b>53-48F5</b>	59.9788	147.779	10.8011	6.931	23.2554	6.9522	
<b>53-48F6</b>	2.0634	148.9829	1.7989	29.5586	4.4164	6.912	
<b>53-4F1</b>	116.2654	210.0365	90.4645	109.9842	83.9527	43.046	
<b>53-4F2</b>	320.3207	71.112	267.9794	119.63	101.6218	23.8481	<b>FY13</b>
<b>53-50F2</b>		74.3779	3.3582	57.4949	57.0991	124.7626	
<b>53-50J1</b>	15.5619	1.1628	2.4907	0.2477	3.055		
<b>53-50J2</b>					44		
<b>53-50J3</b>		0.9983			10.242	4.9501	
<b>53-51F1</b>	104.4383	7.0247	4.5319	18.9375	16.6028	102.1359	
<b>53-51F2</b>	9.6157	34.5608	18.2782	1.3012	5.8519	17.3453	
<b>53-51F3</b>	124.3097	39.1116	0.7023	20.6975	101.0799	11.6651	<b>FY15</b>
<b>53-5F1</b>	28.2491	90.8533	51.9955	29.4408	99.7231	126.498	
<b>53-5F2</b>	129.665	30.6327	88.6018	139.1273	80.1863	8.4958	<b>FY13</b>
<b>53-5F3</b>	119.0105	62.2325	82.174	216.8111	33.1895	4.745	<b>FY15</b>
<b>53-5F4</b>	17.0478	131.6209	57.8644	288.9963	79.8985	22.2087	<b>FY14</b>
<b>53-60J1</b>	46.6		0.4035	73.48	21.4269	9.3977	
<b>53-60J3</b>	43.9065		7.8901		18		

53-60J5	58.8805		20.9501	23.6803		0.444	
53-66J1		28.2882			4.0512		
53-66J2	16.5194	5.9371	4.3688	23.2908	4.9844		
53-66J3	0.7145			25.2342		2.8674	
53-66J4	37.3595	12.5602	64.663	63.9988	3.6896	2.0158	
53-66J5	16.3805	49.5783	31.1033	58.649	22.8987		
53-67J1	298.1958	4.1768	35.4246	203.4974	43.9241	59.638	
53-69F1	2.8275	9.9666	6.4722	95.8647	20.0609	6.5298	
53-69F3	105.2749	2.0719	1.2223	109.2839	11.6138	2.664	
53-6J1	70.236	3.2147	115.8554		3.0484		
53-6J2	9.2738	255.4066		3.6373	5.0987	16.87	
53-6J3		92.6		107.6667			
53-6J5			1.2632	84.7943	229.0674	9.723	
53-6J6	1.4824	29.8491	42.5171	135.8889	146.0506	84.6215	
53-6J7	70.898	1.9665	31.015	35.5229	20.4191	0.4632	
53-6J8							
53-71J1	16.2795		0.3406	21.943	23.1554		
53-71J2	1.5357	3.1658			21.7839		
53-71J3		2.457	1.8787			0.5574	<b>FY15</b>
53-71J4	7.0476	6.6672	17.0959	2.3739	57.9733	2.2371	<b>FY15</b>
53-71J5	7.5401	22.1581		59.4635	88.3955	0.2166	<b>FY15</b>
53-73J1	56.5784	282.0905	72.0146	18.4631		28.3298	
53-73J2	67.9459	320.8745	70.2091	2.9885			
53-73J3	58.8028	274.7251	79.6862	68.6186			<b>FY15</b>
53-73J4	69.2778	251.6429	109.2143	431.4186	323.3171	19.6341	
53-73J5	51.3581	274.9681	71.2893	41.0665	7.6677	3.2419	
53-73J6	54.7396	270.3813	72.8064	2.7397	4.0251		
53-76F1	3.939	2.6205	1.2842	15.5308	12.3362	6.3752	<b>FY14</b>
53-76F2	9.1369	3.6268	9.4917	18.9338	13.1682	26.2726	<b>FY15</b>
53-76F3							
53-76F4	25.5033	21.5523	7.9585	3.622	21.1523	9.6772	<b>FY14</b>
53-76F5	1.2057	1.6719	5.1062	10.0492	9.3349	9.3622	
53-76F6	6.5908	37.1511	7.155	96.6107	2.9189	3.7333	<b>FY15</b>
53-76F7	30.6249	83.9704	5.787	25.5827	7.9761	28.1253	<b>FY15</b>
53-76F8	176.2543	5.25	7.1828	2.8651	2.0651	9.4681	
53-77J1	0.7298	21.3921	41.5134	26.0698	0.3008		
53-77J2	0.8615	16.5271	1.323	6.2058	2.4369	1.0244	
53-77J3	6.824	2.0292	0.6164	18.3011	3.6937		
53-77J4	174.4836	104.5861	11.2351	4.153		128.5511	
53-78F3	50.018	291.5523	7.1813	3.837	51.0932	14.7137	<b>FY14</b>
53-78F4	50.4943	174.0215	18.8166	2.4303	3.8568	80.495	
53-79F1	57.6131		7.791	86.2399	74.2595		
53-79F2	54.2837	5.4127	10.0214	2.594	7.6887	1.2835	
53-7F1	3.1864	35.6033	124.5788	8.1042	128.1196	1.7845	<b>FY14</b>

<b>53-7F2</b>	44.6543	26.6421	108.2051	89.1904	95.8364	23.2452	<b>FY15</b>
<b>53-7F4</b>	14.0358	37.8409	180.8748	99.5266	67.5963	9.2383	
<b>53-9J1</b>	81.8444	1.9891		77.189	234.6334	1.4076	
<b>53-9J2</b>	4.45		122.1273	142.2059	127.3699		
<b>53-9J3</b>	4.506	11.701		10.4118	112.5338	29.7804	
<b>53-9J5</b>		42.1875		24.9775	115.9146		
<b>56-100F1</b>					107.8327	79.1437	
<b>56-122J2</b>	49.8398	9.2661	0.9565	95.904	1.2586	82.9111	
<b>56-122J4</b>	54.712	3.2866	23.0523	89.5582	2.2857	87.7298	
<b>56-122J6</b>	55.8842	87.3125	369.6563	93.7917		81.6842	
<b>56-131J12</b>			0.417	39.7803	70.2127		
<b>56-131J14</b>		695.5016		1.4226	297.0942		
<b>56-131J2</b>			1.504				
<b>56-131J4</b>	6.018	1.568		84.3702		9.5337	
<b>56-131J6</b>	20.1141			5.1424	3.2358		
<b>56-146J14</b>	152.5876	22.2367	7.2626	5.9557	96.3315	11.3762	
<b>56-146J2</b>	21.629		4.1061	19.8561	7.1261	11.5276	
<b>56-14F1</b>	7.5914	216.1475	8.8426	35.7461	62.9336	10.1045	
<b>56-14F2</b>	6.638	78.8595	12.0171	27.3023	2.5937	9.1941	
<b>56-14F3</b>	5.7511	187.7298	26.7973	79.0783	144.0388	1.43	
<b>56-14F4</b>	24.7116	78.1445	49.9159	114.9319	23.6023	87.3391	
<b>56-154J14</b>	3.5161	19.9187	10.9619				
<b>56-154J16</b>	31.9277	6.4509	2.1348	7.7333			
<b>56-154J18</b>	49.118	0.7263	0.4746	35.8094	0.5738	18.1814	
<b>56-154J2</b>	1.9704		15.0995		26.4112	1.0048	
<b>56-154J4</b>	275.3846			7.8253	88	1	
<b>56-154J6</b>	2.0993		124.4768		4	1	
<b>56-154J8</b>	7.5877		32.7136	79.3808	14.2362	6.0641	
<b>56-16F1</b>	6.6769	85.7043	116.4193	59.9742	72.8692	136.6009	
<b>56-16F2</b>	34.99	334.6329	98.3169	147.1162	9.0118	4.2534	
<b>56-16F3</b>	177.0712	11.3645	64.1732	133.4473	2.21	8.0403	
<b>56-16F4</b>	7.7324	200.615	105.4944	68.53	4.3551	83.5261	
<b>56-17F1</b>	55.8435	32.0419	20.1832	107.8847	10.9699	105.9593	<b>FY14</b>
<b>56-17F2</b>	110.8669	116.4939	138.2136	34.2882	14.9244	93.2321	<b>FY15</b>
<b>56-17F3</b>	11.1438	49.3145	4.4944	91.8797	9.0478	60.3151	
<b>56-19J14</b>	69.3347	61.1092	57.4298	63.9757	44.4314		
<b>56-19J16</b>	67.5926	16.6852	61.4151	63	44		
<b>56-19J2</b>	19.4362	54.0293	17.0401	26.1227	7.9424		
<b>56-21J2</b>	280.0293	18.401		57.6602		58	
<b>56-21J4</b>	187.8386	0.4153	0.3153	61.3491	7.4395	51.3518	
<b>56-21J6</b>	53.1454	4.1559		57.9516		57.8319	
<b>56-2222</b>			85		260		
<b>56-2224</b>	155.6667	98.6667	318.3333		137.25		
<b>56-2230</b>							

<b>56-2233</b>	51	64	1133.1429	397.1429			
<b>56-2262</b>							
<b>56-22F1</b>	24.4216	48.8677	7.4691	17.3356	106.0267	84.533	
<b>56-22F2</b>	72.0518	50.0612	6.1269	28.6844	48.1418	13.6158	
<b>56-22F3</b>	43.9499	16.7406	111.9212	132.8788	54.6389	61.752	
<b>56-22F4</b>	17.6851	29.8368	24.4724	15.8829	43.8434	8.2087	
<b>56-23J12</b>	3.7372	259.3867	67.4888	3	5.5879		
<b>56-23J14</b>	16.2442	59.0728	196.7095	2.9754	4.122		
<b>56-23J2</b>	6.846	120.8951		281.8168	1.635	0.3633	
<b>56-23J4</b>	4.0428	42.9079	29.2598	30.1737	1.0072	4.8449	
<b>56-23J6</b>	50.0996	82.1211		142.9466	12.1756	21.8113	
<b>56-28F1</b>			74.0145	15		2.723	
<b>56-28F2</b>		32.2735		163.1371		6	
<b>56-29F1</b>	51.1736	153.24	12.776	20.1414	49.0233	12.4713	<b>FY14</b>
<b>56-29F2</b>	0.7368		165.1221	63.092	8.2793		
<b>56-30F1</b>	125.1641	121.2727	93.4441	73.9614	355.587	76.7114	
<b>56-30F2</b>	187.8953	68.7987	145.9527	17.2617	111.6814	63.1777	
<b>56-31J1</b>	112.8289	467.875	60		234.141	223.8442	
<b>56-31J2</b>	108.7021	433.5464	61	48.2243	213.9122	58.2843	
<b>56-32J12</b>	22.4736	122.5119	2.514	40.2227	20.6688	88.7381	
<b>56-32J14</b>	6.9888	250.7989		17.9117	31.2968	76.591	
<b>56-32J2</b>	22.4252		78.3862	7.2491	25.5512	9.6405	
<b>56-32J4</b>	76.1887	63.0436	78.0763		8.9802	3.0066	
<b>56-3307</b>							
<b>56-3312</b>							
<b>56-33F1</b>	18.1183	200.5437	15.3757	19.3983	16.6911	26.7557	<b>FY15</b>
<b>56-33F2</b>	8.2523	111.6904	148.1851	53.2135	12.0277	11.3669	
<b>56-33F3</b>	79.3496	212.7124	130.583	56.2782	168.705	19.6187	
<b>56-33F4</b>	127.0947	68.0583	21.6827	77.3566	115.1327	43.1437	
<b>56-36W41</b>	6.5407	165.9785	3.1967	8.0343	67.0063	9.4676	
<b>56-36W42</b>	11.3882	256.588	6.4904	25.8206	33.4279	11.5711	
<b>56-36W43</b>	6.4745	270.0617	14.243	32.3165	40.8194	27.4282	
<b>56-36W44</b>	28.4141	112.2286	21.4342	36.6545	38.8673	222.707	
<b>56-37J2</b>	3.2772	1.356		8.5497		2.4926	
<b>56-37J4</b>	3.0438						
<b>56-37W41</b>	37.0631	195.5745	122.316	20.0694	400.7712	125.1729	
<b>56-37W42</b>	11.0903	102.5801	17.5926	27.1205	11.1842	12.9291	
<b>56-37W43</b>	50.444	49.7414	86.4785	5.394	65.5807	125.0096	
<b>56-38J2</b>		133.8171	59.0277			8.6471	
<b>56-38J4</b>	51.1686	20.557	27.8726	15.3008	4.2186		
<b>56-3F1</b>	89.4142	302.7364	91.7127	24.7195	4.5826	9.0788	<b>FY14</b>
<b>56-3F2</b>	93.31	276.4299	46.277	115.5646	66.9227	2.9108	
<b>56-40F1</b>	57.5423	66.6572	7.4362	16.2607	235.0766	113.104	
<b>56-41F1</b>	73.7849	362.9844	118.1673	292.8887	42.0936	15.844	

56-42F1	18.4411	7.7708	43.0712	142.6478	9.9476	15.4798	
56-43F1	98.3172	71.492	275.0779	103.4053	41.8274	6.7157	<b>FY14</b>
56-45J2	73.9	189.5871	41.2838	630500.0699	43.1278	295.3403	
56-45J4	77.1304	200.2926	34.7145	172.0941	45.4417	73.253	
56-45J6	105.1703	161.9148	32.2876	104.7749	57.4807	138.8238	
56-46F1	75.7113	82.9338	65.3251	35.1758	81.1073	25.6931	
56-46F2	30.0765	91.802	48.6293	193.425	97.2525	6.3801	
56-46F3	29.1963	82.1493	10.0747	6.8013	16.1047	3.4039	
56-46F4	12.3308	111.5506	36.7377	7.7791	42.1002	14.2427	<b>FY13</b>
56-49J1	70.8312	221.1651	24.3109		19.8935	13.5799	
56-49J2	18.5219		5.4151	2.0337	221.7008		
56-49J3		17.6654	3.0238	2.6529	16.042		
56-49J4		1.443		0.1587	217.0911		
56-51J12	5.375	41.1724		80.6473	52.5474	51.7045	
56-51J14	4.0449	34.6111		63	341.1967		
56-51J16	168.9413	36.1665	170.9614	112.14	53.0965	1.3254	
56-51J2	8.1894	173.3264	45.7206	63.8157	64.0383	1.1474	
56-52F1	66.4124	90.3978	0.5351	20.7314	90.2292	184.8519	
56-52F2	173.888	206.2117	141.0789	3.2716	64.8343	5.8543	<b>FY14</b>
56-52F3	122.3051	118.7079	20.6043	38.3454	95.0501	52.1573	
56-54F1	210.4021	144.7848	110.1866	186.358	318.8331	31.4614	<b>FY15</b>
56-57J1	0.5324	251.5354	8.9241	14.106	18.6433	43.9512	
56-57J2	0.6656	273.2393	1.7188	9.0213	15.0573	5.7288	
56-57J3		253.972	0.9503	1.4354	82.6829	1.3812	
56-57J4	37.4907	276.7684				69.5009	
56-57J5	0.7164	256.2034	22.0089	22.5093	0.7749		
56-59F1	135.8999	91.7113	66.1598	165.2772	57	186.254	
56-59F2	3.9996	64.1601	35.8882	41.7636	43	163.1902	<b>FY15</b>
56-59F3	166.0316	188.1501	59.5884	301.4401	55.4583	142.7075	
56-59F4	190.0642	105.4759	81.3905	138.2624	103.9344	96.1978	
56-61F1	23.5725	73.4963	8.6913	32.1031	396.6012	245.2407	
56-61F2	60.9334	62.2826	9.7719	24.3891	16.2383	14.4272	
56-61F3	69.0982	126.3519	314.9125	49.6098	51.7537	39.9041	
56-61F4	61.7981	316.4266	129.6455	126.0342	35.2628	17.9094	
56-63F1		127	485.75				
56-63F2	68.5866	73.0625	88.7557	17.7396	23.9723	37.4077	<b>FY14</b>
56-63F3	114.4023	35.7302	139.0548	119.5793	72.8946	83.7435	
56-63F4	27.7086	36.7093	81.2243	32.2756	38.3625		
56-63F5	31.5587	14.786	80.8643	29.4985	206.8757	70.6378	<b>FY14</b>
56-63F6	160.7664	183.8904	254.313	267.763	89.986	30.0743	
56-64F1	63.317	47.7621	171.9036	15.7393	209.2745	10.1317	
56-64F2	7.8913	22.3916	31.2545	112.3183	175.7769	32.4528	
56-65J12	67.87	110.065	31.8726	37.7212	44.8299	2.3805	
56-65J2	75.6226	107.2238	32.2638	36.3604	44.3569	15.5209	

Attachment DIV-R-II-9-1  
In Re: Rhode Island Division's Review of  
FY 2016 Proposed Electric ISR Plan  
Responses to Division's Data Requests - Set 2  
Issued November 10, 2014  
Page 10 of 10

<b>56-68F1</b>	91.5323	119.5385	160.4998	91.438	51.9259	61.2228	
<b>56-68F2</b>	33.1201	74.3356	108.5173	59.3774	93.0653	63.9416	
<b>56-68F3</b>	136.7377	30.29	329.8133	80.1025	41.1526	8.211	
<b>56-68F4</b>	54.4564	42.8611	21.5364	31.5113	79.9291	18.4281	
<b>56-68F5</b>	1.3902			15.2857			
<b>56-72F1</b>	119.3532	10.1101	8.0188	28.5758	48.8872	5.2254	
<b>56-72F2</b>	11.7408	34.0279	44.5048	26.511	2.7819	5.5502	
<b>56-72F3</b>	125.5	12.2558	14.311	170.8179	20.5169	14.4796	
<b>56-72F4</b>	120.6498	23.8592	263.1991	3.9715	12.1338	5.3694	
<b>56-72F5</b>	1.5527	138.5289	11.9209	29.4223	51.8189	114.1351	
<b>56-72F6</b>	26.2112	68.1734	17.2727	14.1251	97.5334	4.9683	<b>FY14</b>
<b>56-83F1</b>	66			26.6667	195		
<b>56-83F2</b>	94.8177	101.0248	63.582	129.3283	65.9618	24.1046	
<b>56-83F3</b>	11		121	48.7273	113.7727		
<b>56-84T1</b>	106		689	426			
<b>56-84T4</b>							
<b>56-85T1</b>	33.6385	130.7114	205.7424	444.9937	143.5848	193.5888	<b>FY15</b>
<b>56-85T3</b>	85.7711	125.574	387.4786	96.5214	134.6374	88.2789	
<b>56-86F1</b>	129.3954	72.8544	401.25	68.858	149.5129	114.9763	
<b>56-87F1</b>	19.1167	114.0511	97.75	47.4911	38.4243	71.2553	
<b>56-87F2</b>	1.9269	0.4348	8.0198	242.01			
<b>56-87F3</b>		66.4246	59.0871	11.8495	51.4875	2.2925	
<b>56-87F4</b>	3.3065	56.2212	34.3891	168.543	1.3462		
<b>56-88F1</b>	95.2533	76.2568	41.3769	60.869	94.1472	75.1711	
<b>56-88F3</b>	84.2176	59.2008	110.6938	98.1208	79.5537	55.137	
<b>56-88F5</b>	112.5325	112.7322	49.2751	72.4358	78.3646	98.5247	

Feeder	2010 SAIFI	2011 SAIFI	2012 SAIFI	2013 SAIFI	2014 SAIFI	2015 Q1 SAIFI	I&M Repairs Completed
53-0022							
53-102K22							
53-102W40							FY15
53-102W41	0.9722	1	1.3143			0.2059	
53-102W42	1.0879				1.001		
53-102W44	3.0495	0.1705	0.1127	0.0556	0.9886	0.1223	
53-102W50							
53-102W51	1.1111	1.0683	0.014	0.6002	0.1423	0.1543	
53-102W52		0.0856	0.0746	1.0531	1.0028	0.0749	
53-102W54	0.1373	0.2138	0.3842	0.5015	0.4164	0.0818	FY15
53-104J1		0.0299					
53-104J3			0.0481		0.0253		
53-104J5				1.064	1.0398	0.09	FY14
53-104J7	0.0419		1.0343	1.0511	2.0496	1.0678	FY14
53-105K1	0.8571		1		2	1	
53-106J1	1.005	0.9988	0.0321		0.1365	1.0194	
53-106J3	1.099	0.9871		0.0495	0.5274	1.006	
53-106J7	0.9625	1			1.0125	1	
53-107W1	1.0108						
53-107W3	1						
53-107W43	3.8839	1.7116	1.8844	0.057	0.0055	1.5793	
53-107W49	2						
53-107W50	1.9891		1.1825	0.0072	1.492	0.0676	
53-107W51	3.1031	0.0238	0.0659	2.1185	0.1852	0.0891	
53-107W53	4.0074	0.1446	1.3778	1.0257		0.0161	
53-107W60	2.0117	1.447	1.5365			0.3994	
53-107W61	0.041	0.0891	0.0409	0.1475	1.0457	0.0723	
53-107W62	1.1001	0.8988	0.9336	0.1105	2.556	0.731	
53-107W63	1.0998	0.0486	0.0049	1.3478	0.0539	0.1967	
53-107W65	1.0893	0.2932	0.3491	0.5731	0.0642	0.0526	
53-107W66	0.9822	0.9898			0.0064		
53-107W80	0.0134	0.4014	0.3932	2.2036	0.0071		
53-107W81	0.0321	0.0292	0.0719	0.0528	0.1095	1.0742	
53-107W83	0.2994	1.4496	0.0073	0.0925	0.0378	0.1068	
53-107W84	1.0295	1.2237	0.2803	0.0438	1.0166	0.0756	
53-107W85	0.1993	1.5789	0.3463	0.1336	0.4928	1.0518	
53-108W51	0.178	1.0851		0.0076	0.1717	0.7496	
53-108W53	0.0394	1.4132	0.4823	0.5217	0.0234	1.6702	
53-108W55	0.0184	1.5353	1.055	0.0097	0.2126	0.0096	
53-108W60			0.0727	0.9756			
53-108W61	1.0511	0.0856	1.074	1.1817	0.064	0.0683	FY14
53-108W62	0.5806	0.0919	2.1759	2.1147	1.0271	2.0701	FY14
53-108W63	1.5647	0.2155	1.1037	1.7427	0.155	1.1643	
53-108W65	1.191	1.1029	0.0304	1.0112	3.1014	0.0773	

53-109J1	2.0221	4.6763	1.9947	0.0491			
53-109J3	1.9968	2.6661	2.0016	1.0419		0.0849	
53-109J5	1.9862	2.678	3.0351	0.0846	0.0392	0.3195	
53-1101		0.0313		0.9699	3.0238		
53-1103			1.0442			1	
53-1105						1.0066	
53-1107						1	
53-1109							
53-1111						0.9759	
53-1113						0.979	
53-1117							
53-1119	1	0.9091	0.9091	1			
53-111J1	1.0662		1.1817	0.0658	1.0207	2.1092	
53-111J3	0.9971	0.0405	1.7017	0.0151	1.0253	1.0263	
53-1121		2.3333					
53-1123							
53-1125				0.9412			
53-1127					0.3306	1.0116	
53-1129							
53-112W41	0.0221	2.1642	1.3549	2.1768	2.0904	1.0164	<b>FY15</b>
53-112W42	0.4189	1.0507	2.2373	1.6993	0.2453	3.0445	<b>FY14</b>
53-112W43	1.148	2.3983	2.8839	2.4035	2.0517	0.7272	
53-112W44	2.6405	1.6339	1.7659	0.7653	0.1781	0.4615	<b>FY14</b>
53-1131		0.9286	0.9333	0.9286	3.1667	0.9167	
53-1133	1	1					
53-1135						0.98	
53-1137				1			
53-1139						1.0088	
53-113J1	0.0205	1.0206	0.0206	0.999	1.0517	0.0569	
53-113J2	1.0086	0.0596	0.0203	1.0688	1.0018		
53-1145							
53-1147							
53-1149		0.9583	2.9149	2.875		1	
53-1169					0.962		
53-1171		0.6667	1		1.0909		
53-126W40	0.2848	2.4467	2.2282		1.047	2	
53-126W41	0.186	0.8767	4.5552	1.557	1.1148	1.1448	
53-126W42	0.9153	0.3753	1.9836	0.5122	2.3642	1.7083	
53-126W50	1.2335	1.6417	0.3103	1.1071	1.4031	0.0262	
53-126W51	0.905	0.2153	2.3249	1.0751	2.0474	0.1212	
53-126W53							
53-126W54	0.0577	0.8243	0.0336	1.0596	0.2333	0.6136	
53-127W40	1.8001	0.5299	1.4979	1.2317	1.1688	2.3701	
53-127W41	0.9848	1.0115	1.9414	3.714	1.2544	1.6525	
53-127W42		1.0059	0.9985				
53-127W43		0.5	1	2	1		

53-12J1	0.0773	0.0549	1.1053				<b>FY15</b>
53-12J2	0.092	1.0268		0.1445	0.0499		
53-12J3			1				
53-12J4	0.0094	0.0591	1.0395	1.0074	0.053	0.0193	<b>FY15</b>
53-12J5	1.12	0.9672	1.0968	0.1129	0.3667	0.9661	
53-12J6	1.1923	1.0204		1.4706	0.0392		
53-13F1				1.9866	0.6568		
53-13F2	0.1986	1.0883	0.2048	1.0007	1.0854	0.0998	
53-13F3	0.092	0.4131	1.7637	0.1138	0.286	3.0728	<b>FY15</b>
53-13F4	1.1454	0.2287	0.1653	0.0778	2.3664	0.3953	
53-13F5	2.0895	0.1476	0.0868	0.1615	0.0486	0.882	<b>FY14</b>
53-13F6	0.08				0.8846	0.84	
53-13F7							
53-13F8	0.0233				0.4		
53-13F9	0.3085	0.315	0.3031	0.074	0.6918	0.0407	
53-148J1	0.0158	2.4477	0.002	0.9826		1.04	
53-148J3	2.0574	4.0394	0.049			0.1253	
53-148J5			0.0065		2.0149		
53-148J7	0.0282	3.0645	0.0204	0.0522	0.0434	2.1082	
53-15F1	0.1663	1.182	3.6605	1.041	1.4149	0.1189	
53-15F2	0.9467	0.4169	1.693	2.3239	1.5178	0.4373	
53-17W42							
53-17W43	0.0148	0.0042					
53-18F1	0.1649	0.1541	0.058	1.7302	0.7267	2.0075	
53-18F2	0.5735	0.2842	0.2744	1.1268	0.0072	0.0145	
53-18F3	0.6226	2.0746	0.0634	1.5052	1.0541	0.7589	
53-18F4				1			
53-18F5	0.0899	0.0298	0.6415	1.0155	0.1558	0.0173	
53-18F6	0.6308	0.6365	0.5643	1.8709	0.2102	1.1366	<b>FY13</b>
53-18F7	0.3258	1.4859	0.5363	2.4857	0.4403	0.0181	<b>FY14</b>
53-18F8	1.3263	0.1126	0.104	1.1947	0.0513	0.1096	
53-18F9	0.0914	0.2931	0.1142	1.6268	0.0156	0.108	<b>FY15</b>
53-18F10					2.7794	0.0174	
53-20F1	0.1681	0.1971	1.0706	1.0319	2.107		
53-20F2	1.0924	0.0675	1.1105	0.1374	2.5684	0.0349	<b>FY14</b>
53-21F1	0.2241	0.3291	0.1938	0.2295	0.184	0.5	
53-21F2	0.6054	0.0634	1.0699	0.0592	0.6969	0.0723	
53-21F4	0.7674	2.2936	0.1727	2.0609	0.8759	1.4838	<b>FY13</b>
53-2202							
53-2211	0.8864			1	1.6053		
53-2213	1.1	2	4		3		
53-2219	1.8462		1	0.7857	1.1111	0.3	
53-2220							
53-2226	4.5294						
53-2227							
53-2228				1.6667	3	1	

53-2228 ELM	3	0.4444		1.1905	1.0476	1.5217	
53-2229							
53-2235	0.7273	58.7	3.5	2.5	2		
53-2242				0.5		1	
53-2243			0.75				
53-2260	1.1667	3			1.0833	1	
53-2295							
53-23F1	0.1961	0.1785	0.1275	0.0513	0.0892	0.041	<b>FY13</b>
53-23F2	0.1434	1.0986	0.4427	0.3229	0.1869	0.2802	
53-23F3	0.3333	0.6694	0.6548	0.4716	0.3795	1.0835	
53-23F4	0.1942	0.505	0.2745	0.2976	0.9903	0.3254	<b>FY14</b>
53-23F5		1	3.5238				
53-23F6	0.2119	0.0972	0.8752	1.2825	0.0476	0.5789	
53-24J1	1.0301	1.0074	0.0714	0.1678			
53-26W1			0.1906	2.5301	2.365	0.9298	
53-26W3			0.0606	2.0317	0.0234	0.0502	
53-26W5			0.5855	8.1912	0.2044	2.1361	
53-26W7			1.4896	2.083	0.7578	0.0519	
53-27F1	0.1382	0.0763	0.1136	0.2967	0.1215	0.1698	
53-27F2			1.6462			0.0758	
53-27F3							<b>FY15</b>
53-27F4	1.189	0.6517	1.0204		0.1752		<b>FY14</b>
53-27F5	0.2665	0.3248	1.1112	0.95	0.134	0.1285	
53-27F6	0.0949	0.2856	0.9601	0.2516	0.0892		<b>FY14</b>
53-28J1	0.1016	0.0835	0.1522	0.0887		3.0795	
53-28J2	0.0233	1.0581	0.0055	0.1048	0.0152	2.0363	<b>FY15</b>
53-2J1		5.1099	1.0612	0.0171	1.9383	1.0745	
53-2J10		1.121				0.9906	
53-2J2						1.0488	
53-2J3		1.1429		1.0076		1.0075	
53-2J4					0.0159	1.0081	
53-2J5		2.9904	1.0521			0.9647	
53-2J7	1.2127	0.0511	0.2032	1	0.9976	1	
53-2J8						0.9962	
53-2J9				0.1083		1.2849	
53-30J1		2.0341	1.0146	0.0844	0.8295	0.0532	
53-30J3		2.5024	0.0187		0.41		
53-30J5		2.1665	0.0227		1.1185		
53-3324							
53-34F1	0.8525	1.4581	3.7413	0.9495	0.6867	0.4151	
53-34F2	1.1682	1.0044	3.285	2.1528	1.6931	0.5415	<b>FY15</b>
53-34F3	6.1112	4.8005	1.5908	0.1118	0.7837	0.2257	
53-36J1	0.4448		0.0698		0.0407		
53-36J2	0.0302	0.942	0.1618	0.0152	1.1741		<b>FY14</b>
53-36J4	0.0792	1.0019	0.0779	1.8295	1.0019		
53-36J5	0.1073	1.022		0.076	0.0411	1.0522	

53-37J1		1.4535	1.0044		1.013		
53-37J2	0.1222	0.0585			0.9931	1.0243	
53-37J3		0.0272	0.0131	0.036	1.1723	0.1192	FY15
53-37J4		0.0046			0.0434	0.0046	
53-37J5	0.0532		1.01	1.021	0.9913	2.0776	
53-38F1	1.8831	4.1722	2.1452	0.8473	0.7093	0.4216	
53-38F2	0.0784	1.0388	1.0527	0.1486	0.1044	0.0097	FY13
53-38F3	1.1835	2.0933	1.1719	0.8956	0.0603	0.0201	
53-38F4	0.3027	1.6924	1.119	0.4363	0.0915	0.0463	FY13
53-38F5	1.0451	2.364	1.164	2.9816	0.2982	0.1977	
53-38F6	2.1236	1.0459	2.4799	0.0773	0.1604	0.1726	
53-45F2	0.2442	0.5903	1.4275	0.1008	0.3929	0.1278	
53-47J2	0.0483	0.1963	1.3116	0.0252	0.2926		
53-47J3	0.0439	0.0198	1.1123	0.0517		0.1061	FY15
53-47J4	0.2342	0.073	1.0468	0.0748	0.109		
53-48F1	0.038	0.7731	0.0614	0.8969	0.1477	0.017	
53-48F2	0.9887	1.0917	0.4826	3.0219	0.1363	0.0238	
53-48F3	1.1445	2.0589	0.7928	1.6742	0.1521	0.0268	
53-48F4	2.2179	0.2695	0.1487	0.0395	0.1139	0.0329	
53-48F5	1.1677	1.1551	0.0872	0.0729	0.14	0.0596	
53-48F6	0.0592	1.7137	0.0341	0.4974	0.0592	0.0692	
53-4F1	1.2343	2.8515	1.7199	1.0668	1.1705	0.1498	
53-4F2	4.1539	1.2589	4.0366	1.209	1.8157	0.2786	FY13
53-50F2		1.1394	0.0599	1.1461	1.0751	1.1408	
53-50J1	0.2048	0.0581	0.0163	0.0413	0.0275		
53-50J2					1		
53-50J3		0.0616			0.1025	0.0416	
53-51F1	1.4993	0.0562	0.0623	0.154	0.1789	0.6093	
53-51F2	0.1322	1.1218	0.335	0.0188	0.0775	0.2276	
53-51F3	1.1871	0.539	0.0218	0.4972	1.1459	0.1004	FY15
53-5F1	0.2988	1.2661	0.4998	0.2226	1.4978	2.0015	
53-5F2	1.4947	0.3226	1.268	1.6797	0.321	0.1126	FY13
53-5F3	2.4446	0.4433	1.1413	0.9027	0.2027	0.1066	FY15
53-5F4	0.1626	2.4796	1.1007	1.1905	1.2623	0.0771	FY14
53-60J1	1.0765		0.0403	0.22	0.1175	0.2882	
53-60J3	0.9757		0.2086		0.0782		
53-60J5	1.0929		0.0477	0.1695		0.0042	
53-66J1		0.3327			0.0605		
53-66J2	0.1827	0.0887	0.0596	0.2128	0.0382		
53-66J3	0.0429			0.044		0.0191	
53-66J4	1.0211	0.1302	0.1636	1.0195	0.0845	0.0305	
53-66J5	0.2288	0.4621	0.2015	0.1061	0.0684		
53-67J1	4.436	0.0556	1.0051	2.0077	1.0278	1.0076	
53-69F1	0.0252	0.1265	0.0732	1.0325	0.7877	0.0554	
53-69F3	1.9898	0.0205	0.0466	1.0127	0.094	0.0266	
53-6J1	0.6385	0.0495	1.2163		0.0756		

53-6J2	0.0808	3.3326		0.0375	0.0532	0.0706	
53-6J3		1.5333		0.0667			
53-6J5			0.0191	0.4326	0.9953	0.0892	
53-6J6	0.0235	1.2189	0.384	1.0303	1.0169	0.9944	
53-6J7	1.0073	0.0446	0.1367	0.233	1.0515	0.0074	
53-6J8							
53-71J1	0.0699		0.0189	0.2208	0.0616		
53-71J2	0.0357	0.0452			0.1307		
53-71J3		0.0384	0.0257			0.0328	<b>FY15</b>
53-71J4	0.0423	0.056	0.0548	0.073	1.0267	0.0267	<b>FY15</b>
53-71J5	0.1286	0.0419		1.028	1.1488	0.0225	<b>FY15</b>
53-73J1	0.9755	1.1055	2.0244	0.2562		1	
53-73J2	1.2162	1.6692	1.981	0.0498			
53-73J3	1.0138	1.0137	2.0897	0.2474			<b>FY15</b>
53-73J4	1.1944	0.9286	2.6667	2	1.0488	0.122	
53-73J5	1.0118	1.0383	2.0063	1.0074	0.115	0.0368	
53-73J6	1.0253	0.9977	2.0251	0.0365	0.0752		
53-76F1	0.0372	0.0422	0.0294	0.1243	0.3949	0.0602	<b>FY14</b>
53-76F2	0.146	0.0485	0.1518	0.2329	0.1262	0.3585	<b>FY15</b>
53-76F3							
53-76F4	1.1318	0.4055	0.0659	0.0263	0.2877	0.068	<b>FY14</b>
53-76F5	0.0131	0.0217	0.0376	0.0422	0.0636	0.0944	
53-76F6	0.0834	0.3705	0.0762	1.6515	0.0246	0.0662	<b>FY15</b>
53-76F7	0.8753	2.1774	0.0527	1.1998	0.1033	0.3222	<b>FY15</b>
53-76F8	3.25	0.0833	0.129	0.1061	0.0199	0.1676	
53-77J1	0.0094	0.2355	0.6887	0.7185	0.0081		
53-77J2	0.0371	0.0504	0.0174	0.035	0.035	0.0068	
53-77J3	0.0361	0.0045	0.0057	0.2137	0.0193		
53-77J4	1.0102	1.0329	0.2293	0.088		0.1965	
53-78F3	1.0807	4.1109	0.0674	0.066	0.8594	0.0675	<b>FY14</b>
53-78F4	1.0318	2.1138	0.1897	0.0162	0.1121	1.1913	
53-79F1	1.995		0.9739	0.4822	0.3976		
53-79F2	1.1214	0.0512	0.1339	0.0579	0.1201	0.0182	
53-7F1	0.4102	0.6098	1.025	0.2592	2.0205	0.0325	<b>FY14</b>
53-7F2	1.6994	0.452	1.0388	1.5792	1.7807	0.5168	<b>FY15</b>
53-7F4	0.4493	0.671	3.0788	1.5978	1.1406	0.1766	
53-9J1	1.0178	0.0391		1.0703	3.1898	0.0227	
53-9J2	0.025		1.3212	1.6941	1.3873		
53-9J3	0.0385	0.2925		0.1409	1.0997	0.3349	
53-9J5		1.0035		0.1511	1.1582		
56-100F1					1.4413	0.3512	
56-122J2	1.9019	0.0837	0.0259	3.0693	0.0584	1.0623	
56-122J4	1.9757	0.0492	0.171	2.4691	0.0597	1.1023	
56-122J6	1.9789	1	0.9792	2.9896		1.0211	
56-131J12			0.0135	0.0336	0.991		
56-131J14		1		0.0677	1		

56-131J2			0.0506				
56-131J4	0.1543	0.064		1.0181		0.0429	
56-131J6	0.3423			0.0411	0.022		
56-146J14	3.4186	0.1408	1.0642	1.0849	2.2963	0.1508	
56-146J2	0.3014		0.0626	0.3377	0.0836	0.1352	
56-14F1	0.0923	2.1687	0.1741	0.7614	1.1483	0.0636	
56-14F2	0.1056	1.3643	0.1972	0.2621	0.0227	0.0196	
56-14F3	0.066	1.7664	1.148	1.0413	2.9232	0.0089	
56-14F4	0.7081	1.0012	0.2869	1.0081	0.3006	0.3149	
56-154J14	0.0214	0.5858	0.0623				
56-154J16	0.4217	0.104	0.0449	0.4833			
56-154J18	0.5931	0.0242	0.0198	0.0216	0.0106	0.3863	
56-154J2	0.9852		0.0249		1.0863	1.0048	
56-154J4	2.6923			0.0409	2	1	
56-154J6	1.0496		1.6821		1	1	
56-154J8	0.9938		0.2182	0.3913	1.0254	1.0462	
56-16F1	0.0384	0.9329	2.9864	1.0341	0.9678	1.24	
56-16F2	0.2626	4.3091	2.2033	2.3125	0.0682	0.0582	
56-16F3	2.0742	0.1052	1.0776	2.7243	0.0344	0.0927	
56-16F4	0.0801	2.509	1.6351	1.0448	0.0795	1.0276	
56-17F1	1.3477	1.1373	0.2255	2.1719	0.1181	1.1087	<b>FY14</b>
56-17F2	2.3458	1.4093	2.1825	0.2422	0.1228	1.0481	<b>FY15</b>
56-17F3	0.1113	1.2499	0.0196	0.8944	0.0279	1.0526	
56-19J14	2.0127	1.7143	1.8851	1.034	1.0098		
56-19J16	1.963	0.9815	1.9811	1	1		
56-19J2	1.3356	1.0476	0.0766	1.1047	0.0432		
56-21J2	3.7399	0.0254		2.9903		1	
56-21J4	4.0076	0.0122	0.0315	3.0495	0.1305	0.8854	
56-21J6	2.0415	0.0794		3.0199		0.9971	
56-2222			2		1		
56-2224	1.6667	0.6667	1.6667		0.75		
56-2230							
56-2233	1	1	3.2857	1.4286			
56-2262							
56-22F1	0.3234	1.2135	0.0503	0.2178	0.454	1.1708	
56-22F2	1.1032	1.1037	0.0832	0.1875	0.938	0.0897	
56-22F3	0.5536	0.1561	0.9365	0.9642	0.8128	1.1493	
56-22F4	0.1272	0.2341	0.2366	0.1252	0.3875	0.1214	
56-23J12	0.9343	2.2433	0.861	1	1.0879		
56-23J14	1.1783	3.0613	2.0279	0.9918	1.1463		
56-23J2	1.1043	2.1486		3.0706	1.019	0.0191	
56-23J4	1.0107	2.0436	0.4215	1.2811	1.0072	0.0346	
56-23J6	1.243	3.1289		1.7557	1.145	0.3208	
56-28F1			0.9506	1		0.0058	
56-28F2		1.0085		1.5403		1	
56-29F1	0.1979	2.9856	0.1109	1.0435	0.5877	0.0682	<b>FY14</b>

56-29F2	0.0175		1.0174	1.9885	0.1341		
56-30F1	2.0266	1.7669	0.2918	0.7391	2.9191	0.3335	
56-30F2	2.2935	0.4623	0.5457	0.3288	1.1932	0.8872	
56-31J1	2	5.9583	1		4.9744	1.987	
56-31J2	1.9961	4.8191	1	1.0047	5.8631	1.0049	
56-32J12	1.9714	2.1063	0.0194	3.3769	0.1505	1.2468	
56-32J14	0.0562	3.0823		3.1153	0.1888	2.0072	
56-32J2	0.8038		1.1017	0.0704	0.1502	1.0341	
56-32J4	1.8736	0.268	1.0784		0.0903	1.0022	
56-3307							
56-3312							
56-33F1	0.1697	2.6969	0.2343	0.2112	0.1947	0.359	<b>FY15</b>
56-33F2	0.0751	1.5857	1.772	1.0907	0.1159	1.094	
56-33F3	0.5878	1.7943	2.5912	0.6589	1.4282	0.1767	
56-33F4	1.3811	0.4798	0.2772	0.5488	1.024	0.3327	
56-36W41	0.1256	3.5737	0.0435	0.0652	2.2616	1.0716	
56-36W42	0.0566	3.459	0.0545	0.1068	1.1705	1.0558	
56-36W43	0.0795	4.4818	0.106	0.2433	1.2026	1.1224	
56-36W44	0.6276	3.2184	0.318	0.1924	1.0409	2.0072	
56-37J2	1.038	0.0366		0.1885		0.0542	
56-37J4	1.0146						
56-37W41	0.4189	2.061	2.9032	0.0851	2.6908	1.0558	
56-37W42	0.1674	0.4294	0.2557	0.1393	0.0333	0.1141	
56-37W43	0.3134	2.1697	1.0885	0.0419	1.1606	2.6715	
56-38J2		2.0285	1.0158			0.0686	
56-38J4	0.1853	0.2073	0.4261	1.0173	0.0786		
56-3F1	1.6011	3.8908	2.0975	0.2694	0.0251	0.0734	<b>FY14</b>
56-3F2	1.537	5.9782	1.0743	1.0933	0.915	0.0341	
56-40F1	1.0473	2.1768	0.0725	0.1289	3.2929	1.0826	
56-41F1	0.9028	3.9377	1.8071	0.798	0.2823	0.108	
56-42F1	0.1485	0.0728	0.1242	0.7145	0.3119	0.0968	
56-43F1	1.2037	1.4155	2.2685	0.8769	0.3267	0.0287	<b>FY14</b>
56-45J2	2.0364	2.6712	1.1189	2.4271	1.003	2.3045	
56-45J4	2.0536	2.7571	1.0613	1.4564	1.0191	1.0035	
56-45J6	2.4913	2.2096	1.0109	1.0281	1.1609	2.0382	
56-46F1	0.4342	1.5971	0.7685	2.3459	0.7824	1.152	
56-46F2	0.2491	0.7726	0.3391	1.16	0.9301	0.0537	
56-46F3	0.1726	1.347	0.0659	0.3143	0.087	1.0176	
56-46F4	0.1639	0.629	0.4192	0.0857	1.0264	0.1596	<b>FY13</b>
56-49J1	0.3506	1.0497	0.1587		1.0048	1.1805	
56-49J2	0.2018		0.044	0.0442	1.0774		
56-49J3		0.156	0.0364	0.0664	1.0037		
56-49J4		0.0336		0.0264	2.0182		
56-51J12	2.15	2.0766		2.2909	1.0105	0.1136	
56-51J14	1.0112	1.9778		2	2		
56-51J16	2.0766	2.041	1.0245	2.2094	1.0247	0.0237	

56-51J2	1.111	2.5366	0.6675	1.0329	1.1161	0.0125	
56-52F1	1.334	1.2515	0.0062	0.0787	1.0875	1	
56-52F2	1.2013	3.3472	2.5865	0.0567	0.4741	0.0552	<b>FY14</b>
56-52F3	1.4449	2.7836	0.1384	0.2183	1.0899	0.667	
56-54F1	1.0562	1.153	1.2929	1.6776	2.7552	0.2952	<b>FY15</b>
56-57J1	0.041	1.0202	0.1254	0.1093	0.17	0.3693	
56-57J2	0.0166	1.2096	0.0313	0.0673	0.1195	0.0549	
56-57J3		1.0077	0.0122	0.0096	1.1318	0.0134	
56-57J4	0.9866	1.3217				0.415	
56-57J5	0.0276	1.0213	0.6448	0.52	0.0108		
56-59F1	0.3263	1.4473	0.4568	0.6427	0.6754	2.1124	
56-59F2	0.0442	1.9668	0.2929	0.0553	1.1176	2.0784	<b>FY15</b>
56-59F3	1.3402	4.0894	1.0959	2.0094	1.094	2.0871	
56-59F4	1.0535	1.3623	1.6589	0.5635	1.3703	1.1187	
56-61F1	1	0.9982	0.0832	0.0755	2.3214	0.3288	
56-61F2	1.1965	1.1567	0.1843	0.2225	0.1898	0.1025	
56-61F3	0.9535	1.8691	1.4654	0.4268	0.4581	1.2087	
56-61F4	0.493	1.3417	1.3159	0.8884	0.279	0.2138	
56-63F1		1	3				
56-63F2	0.2276	0.6753	2.4254	1.0591	0.0797	0.103	<b>FY14</b>
56-63F3	1.3939	0.3458	2.2327	1.2102	0.9845	1.1513	
56-63F4	0.4253	0.447	2.4612	1.1594	0.3177		
56-63F5	0.3485	0.2593	1.7919	0.1225	1.1663	0.751	<b>FY14</b>
56-63F6	3.8055	1.5515	3.1196	3.1649	0.9123	0.2174	
56-64F1	1.1549	0.2278	3.0989	0.1259	3.6826	0.1062	
56-64F2	0.0836	0.1122	0.3402	1.1394	3.2167	1.1018	
56-65J12	1.88	2.1037	1.0314	1.0551	1.0258	0.0307	
56-65J2	2.1038	1.5055	1.0371	0.024	1.0189	0.7068	
56-68F1	0.8987	0.8817	1.0779	1.6677	0.5668	0.5352	
56-68F2	0.3635	0.7045	0.7691	0.2464	0.3701	0.6784	
56-68F3	2.5845	0.2169	3.8396	0.6889	0.2209	0.0844	
56-68F4	0.4146	0.3649	0.2153	0.1126	0.3338	0.1238	
56-68F5	0.0244			0.0833			
56-72F1	3.0419	0.0626	0.16	0.1376	1.1303	0.1059	
56-72F2	0.1162	1.1415	0.3827	0.0884	0.0292	0.0573	
56-72F3	2.1512	0.1672	0.1901	2.0863	0.1686	0.0995	
56-72F4	2.9622	0.1892	2.9411	0.0327	0.2041	0.0673	
56-72F5	0.0144	1.8671	0.1333	0.1704	1.1023	0.8545	
56-72F6	0.1426	1.3101	0.1477	0.1234	2.2441	0.0641	<b>FY14</b>
56-83F1	2			0.8333	0.8333		
56-83F2	2.1217	0.8449	0.2128	1.3855	1.0896	0.1053	
56-83F3	0.3333		2	1.1364	1.0455		
56-84T1	1		1	1			
56-84T4							
56-85T1	0.2627	0.6922	2.5647	2.5164	1.519	1.7548	<b>FY15</b>
56-85T3	1.4459	1.8087	4.9602	0.412	2.1332	0.494	

<b>56-86F1</b>	2.5675	1.0096	7.3144	0.2623	2.4299	3.263
<b>56-87F1</b>	0.2046	1.1085	1.2267	0.3099	0.7334	0.6986
<b>56-87F2</b>	0.0465	0.0217	0.0743	0.9403		
<b>56-87F3</b>		2.1941	1.3788	0.1153	0.9831	0.0391
<b>56-87F4</b>	0.0668	0.772	1.5566	0.8009	0.0113	
<b>56-88F1</b>	1.5894	0.2774	0.3942	0.5837	1.8049	1.2096
<b>56-88F3</b>	2.2388	0.4442	2.4192	1.2696	0.8119	1.1486
<b>56-88F5</b>	2.109	1.6863	0.9013	0.3187	0.9808	1.6879

The Narragansett Electric Company  
d/b/a National Grid

In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's Second Set of Data Requests  
Issued November 10, 2014

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Division R-II-10

Request:

For the Quonset Substation Expansion, provide details on customer contribution in aid of construction, if any, expected to offset the cost of the substation expansion necessary to accommodate the retail customer's load addition.

Response:

At this time, the Company has not determined whether any detailed customer contribution in aid of construction charge for the Quonset Substation Expansion will apply. As detailed in the chart below, the Quonset Substation Expansion project includes four main issues:

Issue	Recommended Solution	To Be Included in Customer Contribution Calculation	Notes
Unserved load contingency risk. Routine maintenance issues. <sup>1</sup>	Install second power transformer and circuit switcher	No	Existing issues
Reactive power flows	Installation station capacitor bank	No	Existing issue
<b>Major customer expansion</b>	<b>Install new distribution circuit</b>	<b>Yes</b>	<b>Capacity needed as a direct result of customer expansion</b>
Asset condition issues	Replace the T1 transformer air-break switch and three reclosers	No	Existing issues

Of the estimated \$3.74M cost for the plan to resolve the study area issues, the Company estimates that no more than \$1.5M will be needed as a direct result of the customer expansion. The proposed size of the customer expansion is expected to justify over \$1.5M in infrastructure improvements, and, therefore, a customer contribution in aid of construction charge would not be required. National Grid will continue to refine its estimates and complete the formal contribution analysis, and if applicable, will collect any required customer contribution charge prior to material acquisition and construction.

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<sup>1</sup> Although the customer expansion exacerbates this issue, the existing level of load at risk exceeds National Grid's guidelines prior to and without the customer expansion.



**Raquel J. Webster**  
Senior Counsel

December 9, 2014

**BY HAND DELIVERY & ELECTRONIC MAIL**

Luly E. Massaro, Clerk  
Rhode Island Division of Public Utilities and Carriers  
89 Jefferson Boulevard  
Warwick, RI 02888

**RE: National Grid's Proposed FY 2016 Electric Infrastructure, Safety, and Reliability Plan  
Responses to Division Data Requests – Set 2**

Dear Ms. Massaro:

I have enclosed five (5) copies of National Grid's<sup>1</sup> response to Division Data Request R-II-4.

This transmittal completes the Company's responses to the Division's Second Set of Data Requests in the above-referenced matter.

Thank you for your attention to this transmittal. If you have any questions, please contact me at (781) 907-2121.

Very truly yours,

A handwritten signature in blue ink, appearing to read "Raquel Webster", with a stylized flourish at the end.

Raquel J. Webster

Enclosures

cc: Steve Scialabba  
Leo Wold, Esq.  
Jim Lanni  
Al Contente

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

The Narragansett Electric Company  
d/b/a National Grid

In Re: Rhode Island Division's Review of FY 2016 Proposed Electric ISR Plan  
Responses to Division's Second Set of Data Requests  
Issued November 10, 2014

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Division R-II-4

Request:

Please provide an update on cost recovery reconciliation between the storm fund and ISR Plan for calendar years 2012, 2013, and 2014 to include a description of the major storm event, capital and expense costs incurred, actual or proposed recovery of capital and expense costs, and potential adjustments due to re-allocation of costs between the storm fund and ISR Plan.

Response:

The Company is preparing its final accounting filing of the incremental storm costs related to the following storm events that occurred between January 1, 2012 and March 7, 2013, which qualify for inclusion in the Company's Storm Contingency Fund (Storm Fund):

- January 2012 Snow/Wind Storm
- July 2012 Lightning Storm
- October 2012 Hurricane Sandy
- November 2012 Snowstorm
- February 2013 Nor'easter (Nemo)
- February 2013 Coastal Storm
- March 2013 Snowstorm

The Company expects to file the final accounting with the Rhode Island Public Utilities Commission during the fourth quarter of FY 2015. The Company anticipates that the final accounting will show that capital costs associated with certain of these storms were over-estimated and will result in a reduction to capital investment. This reduction to capital investment will reduce the FY 2015 electric ISR plan capital investment costs, which will be reflected in the Company's FY 2015 electric ISR plan year-end reconciliation filing.

The estimated timeframe for filing the final accounting for the storm events that occurred after the March 2013 Snowstorm and that qualify for inclusion in the Storm Fund has not yet been determined. To date, the November 1, 2013 Windstorm is the only storm event since the March 2013 Snowstorm that qualifies for inclusion in the Storm Fund.