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Via Electronic Mail

July 21, 2016

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

Re: The Narragansett Electric Company d/b/a National Grid
Aquidneck Island Reliability Project
PUC Docket No. 4614

Dear Ms. Massaro:

I am enclosing for filing on behalf of The Narragansett Electric Company d/b/a National Grid its responses to the Rhode Island Division of Public Utilities First Set of Interrogatories and Requests for Production in the above docket. I am sending electronic copies to the Service List and will provide a hard copy to anyone that requests it.

Sincerely,

Peter V. Lacouture /gaw

Peter V. Lacouture

Enclosure

Copy to: PUC Docket No. 4614 Service list *(via e-mail)*

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
PUBLIC UTILITIES COMMISSION

In the Matter of:

THE NARRAGANSETT ELECTRIC	:	
COMPANY d/b/a NATIONAL GRID'S	:	
NEED TO CONSTRUCT AND ALTER	:	PUC Docket No. 4614
CERTAIN TRANSMISSION COMPONENTS	:	
IN THE TOWNS OF PORTSMOUTH AND	:	
MIDDLETOWN (AQUIDNECK ISLAND	:	
RELIABILITY PROJECT)	:	

NATIONAL GRID'S RESPONSE TO THE
RHODE ISLAND DIVISION OF PUBLIC UTILITIES'
FIRST SET OF INTERROGATORIES AND
REQUESTS FOR PRODUCTION

REQUEST NO. R-I-1: Provide a copy of the conductor blowout (displacement) analysis for the parallel transmission lines to be constructed.

RESPONSE:

National Grid's conductor blowout analysis for the longest spans to be constructed for the proposed project was conducted per NESC 2012 using 6 psf wind on bare conductors at 60 degrees F. The attached analysis shows that for the longest span, 22 foot spacing is required between phases of adjacent circuits.

Response prepared by or under the supervision of
Pauline Bassil and Gerald Pepi

RIDPUC R-I-1 115 kV Conductor Blowout Analysis

NESC 2012 233B1a:

Phasor difference between conductors assuming 180 degree polarity and 5% voltage adder is 2(115)(1.05)/sqrt 3= 139 kV.

Min. separation between 115 kV conductors of different circuits on separate structures is thus 5 + (0.4/12)(139-22) = 8.9 feet.

NESC 2012 233A1a2:

Conductor displacement governed by 6 psf wind on bare conductors at 60 degrees F.

For max span of 650 feet, sag at 60 degrees bare is 20 feet plus insulator string length of 6 feet, or 26 feet.

Blowout at 6 psf wind results in approximate 30 degree swing of insulators, thus, blowout = 26sin30 = 13 feet.

Min. clearance required is 8.9 plus 13 = 22 feet which is less than the 24 feet design separation, OK.

Response prepared by or under the supervision of
Pauline Bassil and Gerald Pepi

15022140-v3

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
PUBLIC UTILITIES COMMISSION

In the Matter of:

THE NARRAGANSETT ELECTRIC	:	
COMPANY d/b/a NATIONAL GRID'S	:	
NEED TO CONSTRUCT AND ALTER	:	PUC Docket No. 4614
CERTAIN TRANSMISSION COMPONENTS	:	
IN THE TOWNS OF PORTSMOUTH AND	:	
MIDDLETOWN (AQUIDNECK ISLAND	:	
RELIABILITY PROJECT)	:	

NATIONAL GRID'S RESPONSE TO THE
RHODE ISLAND DIVISION OF PUBLIC UTILITIES'
FIRST SET OF INTERROGATORIES AND
REQUESTS FOR PRODUCTION

REQUEST NO. R-I-2: Provide the design tension proposed for the transmission line conductors.

RESPONSE:

The proposed transmission line conductors will be sagged to provide 6000 pounds tension at NESC Heavy condition (4 psf wind on 1/2 inch ice covered conductors at 0 degrees F).

Response prepared by or under the supervision of
Pauline Bassil

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
PUBLIC UTILITIES COMMISSION

In the Matter of:

THE NARRAGANSETT ELECTRIC	:	
COMPANY d/b/a NATIONAL GRID'S	:	
NEED TO CONSTRUCT AND ALTER	:	PUC Docket No. 4614
CERTAIN TRANSMISSION COMPONENTS	:	
IN THE TOWNS OF PORTSMOUTH AND	:	
MIDDLETOWN (AQUIDNECK ISLAND	:	
RELIABILITY PROJECT)	:	

NATIONAL GRID'S RESPONSE TO THE
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REQUEST NO. R-I-3: Did the Company consider designing the new lines with shorter spans to achieve shorter transmission structures? If yes, why was that design not selected. If no, explain why not.

RESPONSE:

National Grid considered designing the proposed project with shorter spans, however, this design alternative was not pursued because it would significantly increase the number of structures, project cost, and environmental impacts, with a structure height reduction of only approximately 10 feet. In addition, shorter spans would place new structures in some residential backyards in areas where there presently are none.

Response prepared by or under the supervision of
Pauline Bassil

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
PUBLIC UTILITIES COMMISSION

In the Matter of:

THE NARRAGANSETT ELECTRIC	:	
COMPANY d/b/a NATIONAL GRID'S	:	
NEED TO CONSTRUCT AND ALTER	:	PUC Docket No. 4614
CERTAIN TRANSMISSION COMPONENTS	:	
IN THE TOWNS OF PORTSMOUTH AND	:	
MIDDLETOWN (AQUIDNECK ISLAND	:	
RELIABILITY PROJECT)	:	

NATIONAL GRID'S RESPONSE TO THE
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REQUEST NO. R-I-4: The transmission lines have been designed with 12 foot vertical phase spacing, which is a 138 kV spacing. Does this 12 foot phase spacing imply the Company may consider going to 138 kV at some time in the future?

RESPONSE:

The 12 foot phase spacing is the National Grid standard at 115 kV. See response to R-I-5. There are no plans to increase the voltage beyond 115 kV.

Response prepared by or under the supervision of
Pauline Bassil

15023430-v3

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
PUBLIC UTILITIES COMMISSION

In the Matter of:

THE NARRAGANSETT ELECTRIC	:	
COMPANY d/b/a NATIONAL GRID'S	:	
NEED TO CONSTRUCT AND ALTER	:	PUC Docket No. 4614
CERTAIN TRANSMISSION COMPONENTS	:	
IN THE TOWNS OF PORTSMOUTH AND	:	
MIDDLETOWN (AQUIDNECK ISLAND	:	
RELIABILITY PROJECT)	:	

NATIONAL GRID'S RESPONSE TO THE
RHODE ISLAND DIVISION OF PUBLIC UTILITIES'
FIRST SET OF INTERROGATORIES AND
REQUESTS FOR PRODUCTION

REQUEST NO. R-I-5: Did the Company consider utilizing a 10 foot vertical phase spacing, thereby allowing the utilization of shorter transmission structures?

RESPONSE:

National Grid determined that utilizing 10 foot phase spacing would reduce structure heights by approximately 5 feet, but would compromise line reliability against lightning related outages. The proposed 12 foot spacing maximizes the phase to ground air gap (approximately 6 feet) between the conductors and the supporting steel davit arms. A 10 foot spacing would reduce this gap to approximately 4 feet, causing concern for lightning back-flashover from structure to phase.

Response prepared by or under the supervision of
Pauline Bassil

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
PUBLIC UTILITIES COMMISSION

In the Matter of:

THE NARRAGANSETT ELECTRIC	:	
COMPANY d/b/a NATIONAL GRID'S	:	
NEED TO CONSTRUCT AND ALTER	:	PUC Docket No. 4614
CERTAIN TRANSMISSION COMPONENTS	:	
IN THE TOWNS OF PORTSMOUTH AND	:	
MIDDLETOWN (AQUIDNECK ISLAND	:	
RELIABILITY PROJECT)	:	

NATIONAL GRID'S RESPONSE TO THE
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FIRST SET OF INTERROGATORIES AND
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REQUEST NO. R-I-6: The Company in its filing stated that it did not evaluate underground transmission as an option to the dual circuit line. Provide a detailed list of all the reasons why the Company did not consider underground transmission lines.

RESPONSE:

National Grid did consider an underground transmission alternative to the Project. Please refer to Sections 5.3.4 and 5.3.5 of the Environmental Report.

Response prepared by or under the supervision of
David M. Campilii, P.E.

15023449-v2

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
PUBLIC UTILITIES COMMISSION

In the Matter of:

THE NARRAGANSETT ELECTRIC	:	
COMPANY d/b/a NATIONAL GRID'S	:	
NEED TO CONSTRUCT AND ALTER	:	PUC Docket No. 4614
CERTAIN TRANSMISSION COMPONENTS	:	
IN THE TOWNS OF PORTSMOUTH AND	:	
MIDDLETOWN (AQUIDNECK ISLAND	:	
RELIABILITY PROJECT)	:	

NATIONAL GRID'S RESPONSE TO THE
RHODE ISLAND DIVISION OF PUBLIC UTILITIES'
FIRST SET OF INTERROGATORIES AND
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REQUEST NO. R-I-7: Does the Company anticipate any hot line work during construction? How much and in what areas?

RESPONSE:

No live work is planned for this project. Instead, the Company plans to take outages on the circuit that is being worked on.

Response prepared by or under the supervision of
Robert A. Patenaude

15023454-v3

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
PUBLIC UTILITIES COMMISSION

In the Matter of:

THE NARRAGANSETT ELECTRIC	:	
COMPANY d/b/a NATIONAL GRID'S	:	
NEED TO CONSTRUCT AND ALTER	:	PUC Docket No. 4614
CERTAIN TRANSMISSION COMPONENTS	:	
IN THE TOWNS OF PORTSMOUTH AND	:	
MIDDLETOWN (AQUIDNECK ISLAND	:	
RELIABILITY PROJECT)	:	

NATIONAL GRID'S RESPONSE TO THE
RHODE ISLAND DIVISION OF PUBLIC UTILITIES'
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REQUEST NO. R-I-8: What are the insulation levels for insulators? Are increased insulation levels being considered for environmental effects or avian protection i.e. 138 or 161kV?

RESPONSE:

Pursuant to National Grid's design standards, the proposed insulation will consist of 10 porcelain discs (an approximate 6 foot length string) for improved reliability against lightning outages. This configuration exceeds NESC. The 6 foot length also provides additional avian protection at 115 kV.

Response prepared by or under the supervision of
Pauline Bassil

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
PUBLIC UTILITIES COMMISSION

In the Matter of:

THE NARRAGANSETT ELECTRIC	:	
COMPANY d/b/a NATIONAL GRID'S	:	
NEED TO CONSTRUCT AND ALTER	:	PUC Docket No. 4614
CERTAIN TRANSMISSION COMPONENTS	:	
IN THE TOWNS OF PORTSMOUTH AND	:	
MIDDLETOWN (AQUIDNECK ISLAND	:	
RELIABILITY PROJECT)	:	

NATIONAL GRID'S RESPONSE TO THE
RHODE ISLAND DIVISION OF PUBLIC UTILITIES'
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REQUEST NO. R-I-9: Is there a Plan & Profile sheet of the existing and new line being built? Will the Plan & Profile sheet show individual structure heights and class of pole?

RESPONSE:

Preliminary individual structure heights, which average about 90 feet, will be shown on plan and profile sheets and work lists. Preliminary work lists are attached. The poles will be weathering steel. The pole diameters will be determined with final engineering.

Response prepared by or under the supervision of
Pauline Bassil

15023477-v3

Attachment A

STRUCTURE WORK LIST

PROJECT: DEXTER - JEPSON LINES 69 kV UPGRADE TO 115 kV AND REBUILD PROJECT - (EXISTING 61/62; FUTURE L14/M13 EXTENSION)
COMPANY: 5360 PR #
FUNDING #: C08377 Z #
WORK ORDER #: 90000134874
INDEX #: 400015-G-W-01
CREATED BY: LET - VANDERWEIL
DATE: 1/29/15
REV: 1

TYPE: Technical Scope Document

STANDARD NOTES:
1. WHERE THERE ARE MULTIPLE POLES FOR A STRUCTURE THE POLES ARE LISTED IN ORDER FROM LEFT TO RIGHT LOOKING IN THE HEAD SPAN DIRECTION.
2. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH SP.06.01.301.
3. INSTALL/UPGRADE SIGNAGE IN ACCORDANCE WITH SP.06.01.301.201.
4. INSTALL/UPGRADE GROUNDING IN ACCORDANCE WITH SP.06.01.301.101.
5. INSTALLATION OF CORRUGATED METAL PIPE SHALL BE IN ACCORDANCE WITH SP.06.01.301.401.
6. REBAR AND HOOP QUANTITIES WITHIN THE FOUNDATION MODIFICATIONS SECTION REFLECT QUANTITIES PER FOUNDATION.
7. FOR EXISTING OR PROPOSED GUYS: H=HEAD; B=BACK; A=ANGLE

PROJECT SPECIFIC NOTES
1. THIS WORKLIST IS FOR L14 OR M13 (EXISTING 61 LINE) LINE ONLY.
2. RECONDUCTOR 4.5 CIRCUIT MILES OF NEW L14/M13 (EXISTING 61/62) LINES WITH 795 MCM ACSR CONDUCTOR (EACH CIRCUIT).
3. INSTALL 4.5 MILES OF L14 OR M13 (EXISTING 61) LINE WITH OPGW.
4. DETAILS FOR STRUCTURES 136 - JEPSON WILL BE FINALIZED ONCE THE SUBSTATION LOCATION IS FINALIZED.

STR. NUMBER		EXISTING LOCATION					EXISTING STRUCTURE	PROPOSED LOCATION MODIFICATIONS			PROPOSED WIRE CHANGES			PROPOSED STRUCTURE MODIFICATIONS			REFERENCE DRAWINGS		ADDITIONAL INFORMATION		
EXISTING	FINAL	STATION (FT)	BACK SPAN (FT)	LINE ANGLE (DEG-MIN)	LATITUDE	LONGITUDE	STRUCTURE TYPE	LOCATION MODIFICATION SCOPE	LATITUDE	LONGITUDE	WIRE SCOPE	CONDUCTOR	SHIELDWIRE	STR SCOPE	STR TYPE	POLES (HEIGHT/CLASS)	T-SHEET	INSULATOR/HARDWARE DRAWING	ACCESS	BACK SPAN	TOWN, STATE
M13 (EXISTING 61) LINE																					
DEXTER SUB	DEXTER SUB	0+00	0		41°36'5.294"	71°15'19.146"	STEEL H FRAME-DE				START RECONDUCTORING	795 ACSR "DRAKE"		TO BE DONE BY SUBSTATION	TERMINAL STEEL DE W/ OPGW SPLICE BOX		T-5683	400015-C-H-05 400015-C-H-09	FREEBORN STREET		PORTSMOUTH
91X	91X	2+75	235	2°11' L	41°36'2.815"	71°15'20.632"	2-POLE WOOD H-SUSP (SINGLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	85	T-5683	400015-C-H-03	FREEBORN STREET		PORTSMOUTH
91	91	7+41	442	8°25' R	41°35'58.739"	71°15'23.46"	2-POLE WOOD H-DE (SINGLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"	3/8 EHS	REPLACE STRUCTURE	STEEL SINGLE POLE DE	85	T-5683	400015-C-H-03	FREEBORN STREET		PORTSMOUTH
92	92	10+62	320	19°01' R	41°35'55.74"	71°15'24.843"	2-POLE WOOD H-DE (SINGLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	90	T-5683	400015-C-H-03	HIGH POINT AVE		PORTSMOUTH
93	93	16+24	530	0°34' R	41°35'50.195"	71°15'24.853"	2-POLE WOOD H-SUSP (SINGLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	95	T-5683	400015-C-H-01	HIGH POINT AVE		PORTSMOUTH
94	94	21+90	566		41°35'44.607"	71°15'24.79"	2-POLE WOOD H-SUSP (SINGLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5684	400015-C-H-01	LONG MEADOW RD		PORTSMOUTH
95	95	27+49	566	39°00' R	41°35'39.092"	71°15'24.727"	2-POLE WOOD H-DE (SINGLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE W/ OPGW SPLICE BOX	90	T-5684	400015-C-H-03 400015-C-H-09	LONG MEADOW RD		PORTSMOUTH
96	96	32+04	457		41°35'35.417"	71°15'28.173"	2-POLE WOOD H-SUSP (SINGLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5684	400015-C-H-01	LONG MEADOW RD		PORTSMOUTH
97	97	36+59	457		41°35'31.78"	71°15'31.671"	2-POLE WOOD H-SUSP (SINGLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5684	400015-C-H-01	HEDLY ST	HEDLY ST	PORTSMOUTH
98	98	41+72	500		41°35'27.666"	71°15'35.629"	2-POLE WOOD H-SUSP (SINGLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	95	T-5684	400015-C-H-01	HEDLY ST		PORTSMOUTH
99	99	46+98	542	26°21' L	41°35'23.462"	71°15'39.673"	2-POLE WOOD H-DE (SINGLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	90	T-5684	400015-C-H-03	HEDLY ST		PORTSMOUTH
100	100	51+86	485	3°53' R	41°35'18.806"	71°15'41.338"	2-POLE WOOD H-SUSP (SINGLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	95	T-5684	400015-C-H-01	HEDLY ST		PORTSMOUTH
101	101	57+15	500		41°35'13.766"	71°15'43.14"	2-POLE WOOD H-SUSP (SINGLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5684	400015-C-H-01	W PASSAGE DR		PORTSMOUTH
102	102	62+00	501	15°51' L	41°35'9.131"	71°15'44.797"	3-POLE WOOD H-DE (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	90	T-5684	400015-C-H-03	W PASSAGE DR		PORTSMOUTH
103	103	67+13	520	15°51' R	41°35'4.076"	71°15'44.652"	3-POLE WOOD H-DE (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	90	T-5684	400015-C-H-03	W PASSAGE DR		PORTSMOUTH
104	104	73+05	587		41°34'58.26"	71°15'45.43"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5684	400015-C-H-01	CENTER VIEW DR		PORTSMOUTH
105	105	79+00	590		41°34'52.416"	71°15'46.257"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5684	400015-C-H-01	HILLTOP DR	FULL CIR AND CENTER VIEW DR	PORTSMOUTH
106	106	84+96	595	7°37' R	41°34'46.574"	71°15'47.083"	3-POLE WOOD H-DE (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	90	T-5685	400015-C-H-03	PRUDENCE VIEW DR	PRUDENCE VIEW DR	PORTSMOUTH
107	107	90+31	534	8°31' L	41°34'41.424"	71°15'48.636"	3-POLE WOOD H-DE (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	90	T-5685	400015-C-H-03	MILL LN	MILL LN	PORTSMOUTH
108	108	94+98	405		41°34'36.824"	71°15'49.185"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	85	T-5685	400015-C-H-01	WHITE HORSE TERRACE		PORTSMOUTH
109	109	98+53	333		41°34'33.349"	71°15'49.643"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5685	400015-C-H-01	WHITE HORSE TERRACE		PORTSMOUTH
110	110	103+19	484	76°25' R	41°34'28.763"	71°15'50.247"	3-POLE WOOD H-DE (SINGLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE W/ OPGW SPLICE BOX	80	T-5685	400015-C-H-03 400015-C-H-09	GREYSTONE TERRACE		PORTSMOUTH

STRUCTURE WORK LIST

PROJECT: DEXTER - JEPSON LINES 69 kV UPGRADE TO 115 kV AND REBUILD PROJECT - (EXISTING 61/62; FUTURE L14/M13 EXTENSION)
COMPANY: 5360 **PR #**
FUNDING #: C08377 **Z #**
WORK ORDER #: 90000134874
INDEX #: 400015-G-W-01
CREATED BY: LET - VANDERWEIL
DATE: 1/29/15
REV: 1

TYPE: Technical Scope Document

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3. INSTALL/UPGRADE SIGNAGE IN ACCORDANCE WITH SP.06.01.301.201.
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STR. NUMBER		EXISTING LOCATION					EXISTING STRUCTURE	PROPOSED LOCATION MODIFICATIONS			PROPOSED WIRE CHANGES			PROPOSED STRUCTURE MODIFICATIONS			REFERENCE DRAWINGS		ADDITIONAL INFORMATION		
EXISTING	FINAL	STATION (FT)	BACK SPAN (FT)	LINE ANGLE (DEG-MIN)	LATITUDE	LONGITUDE	STRUCTURE TYPE	LOCATION MODIFICATION SCOPE	LATITUDE	LONGITUDE	WIRE SCOPE	CONDUCTOR	SHIELDWIRE	STR SCOPE	STR TYPE	POLES (HEIGHT/CLASS)	T-SHEET	INSULATOR/HARDWARE DRAWING	ACCESS	BACK SPAN	TOWN, STATE
111	111	106+69	360		41°34'28.065"	71°15'54.747"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5685	400015-C-H-01	GREYSTONE TERRACE		PORTSMOUTH
112	112	110+43	530		41°34'27.316"	71°15'59.572"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	85	T-5685	400015-C-H-01	ELAINE AVE		PORTSMOUTH
113	113	114+12	360	66°32' L	41°34'26.578"	71°16'4.325"	3-POLE WOOD DE (SINGLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE W/ OPGW SPLICE BOX	85	T-5685	400015-C-H-03 400015-C-H-09	ELAINE AVE		PORTSMOUTH
114	114	119+10	500	2°20' L	41°34'21.747"	71°16'5.538"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	95	T-5685	400015-C-H-01	WATSON DR		PORTSMOUTH
115	115	123+73	463		41°34'17.253"	71°16'6.621"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	95	T-5685	400015-C-H-01	LOCUST AVE		PORTSMOUTH
116	116	128+45	470		41°34'12.669"	71°16'7.725"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	95	T-5685	400015-C-H-01	LOCUST AVE		PORTSMOUTH
117	117	134+70	630	18°10' L	41°34'6.61"	71°16'9.285"	3-POLE WOOD SPO (SINGLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	85	T-5685	400015-C-H-03	LOCUST AVE		PORTSMOUTH
118	118	140+44	580		41°34'1.637"	71°16'12.896"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	95	T-5685	400015-C-H-01	GREEN VALLEY COUNTRY CLUB (OFF UNION ST)		PORTSMOUTH
119	119	146+30	580		41°33'56.585"	71°16'16.628"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	95	T-5685	400015-C-H-01	GREEN VALLEY COUNTRY CLUB (OFF UNION ST)		PORTSMOUTH
120	120	149+82	580		41°33'53.536"	71°16'18.879"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5685	400015-C-H-01	GREEN VALLEY COUNTRY CLUB (OFF UNION ST)		PORTSMOUTH
121	121	153+64	397		41°33'50.238"	71°16'21.315"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	85	T-5686	400015-C-H-01	GREEN VALLEY COUNTRY CLUB (OFF UNION ST)		PORTSMOUTH
122	122	157+92	422	20°53' L	41°33'46.51"	71°16'23.959"	3-POLE WOOD SPO (SINGLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	85	T-5686	400015-C-H-03	GREEN VALLEY COUNTRY CLUB (OFF UNION ST)		PORTSMOUTH
123	123	162+08	420		41°33'42.452"	71°16'24.803"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	85	T-5686	400015-C-H-01	UNION ST		PORTSMOUTH
124	124	165+92	377		41°33'38.694"	71°16'25.448"	2-POLE WOOD H-SUSP (SINGLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	85	T-5686	400015-C-H-01	UNION ST		PORTSMOUTH
125	125	170+78	488		41°33'33.933"	71°16'26.265"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	85	T-5686	400015-C-H-01	UNION ST	UNION ST	PORTSMOUTH
126	126	175+77	500		41°33'29.051"	71°16'27.103"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	85	T-5686	400015-C-H-01	UNION ST		PORTSMOUTH
127	127	180+85	506	21°38' L	41°33'24.08"	71°16'27.956"	2-POLE WOOD H-DE (SINGLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	85	T-5686	400015-C-H-03	UNNAMED RD OFF OF UNION ST		PORTSMOUTH
128	128	186+60	582		41°33'18.442"	71°16'26.963"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5686	400015-C-H-01	UNNAMED RD OFF OF UNION ST		PORTSMOUTH
129	129	192+54	585		41°33'12.634"	71°16'25.939"	2-POLE WOOD H-DE (SINGLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	90	T-5686	400015-C-H-03	UNNAMED RD OFF OF UNION ST		PORTSMOUTH
130	130	198+40	588		41°33'6.902"	71°16'24.93"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5686	400015-C-H-01	UNNAMED RD OFF OF UNION ST		PORTSMOUTH
131	131	204+05	577	78°18' R	41°33'1.371"	71°16'24.013"	3-POLE WOOD H-DE (SINGLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE W/ OPGW SPLICE BOX	85	T-5687	400015-C-H-03 400015-C-H-09	UNNAMED RD OFF OF JEPSON LN		PORTSMOUTH
132	132	209+49	553	65°34' L	41°32'59.464"	71°16'30.706"	3-POLE WOOD H-DE (SINGLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE W/ OPGW SPLICE BOX	90	T-5687	400015-C-H-03 400015-C-H-09	UNNAMED RD OFF OF JEPSON LN		PORTSMOUTH

STRUCTURE WORK LIST

PROJECT: DEXTER - JEPSON LINES 69 kV UPGRADE TO 115 kV AND REBUILD PROJECT - (EXISTING 61/62; FUTURE L14/M13 EXTENSION)
COMPANY: 5360 PR #
FUNDING #: C08377 Z #
WORK ORDER #: 90000134874
INDEX #: 400015-G-W-01
CREATED BY: LET - VANDERWEIL
DATE: 1/29/15
REV: 1

TYPE: Technical Scope Document

STANDARD NOTES:
1. WHERE THERE ARE MULTIPLE POLES FOR A STRUCTURE THE POLES ARE LISTED IN ORDER FROM LEFT TO RIGHT LOOKING IN THE HEAD SPAN DIRECTION.
2. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH SP.06.01.301.
3. INSTALL/UPGRADE SIGNAGE IN ACCORDANCE WITH SP.06.01.301.201.
4. INSTALL/UPGRADE GROUNDING IN ACCORDANCE WITH SP.06.01.301.101.
5. INSTALLATION OF CORRUGATED METAL PIPE SHALL BE IN ACCORDANCE WITH SP.06.01.301.401.
6. REBAR AND HOOP QUANTITIES WITHIN THE FOUNDATION MODIFICATIONS SECTION REFLECT QUANTITIES PER FOUNDATION.
7. FOR EXISTING OR PROPOSED GUYS: H=HEAD; B=BACK; A=ANGLE

PROJECT SPECIFIC NOTES
1. THIS WORKLIST IS FOR L14 OR M13 (EXISTING 61 LINE) LINE ONLY.
2. RECONDUCTOR 4.5 CIRCUIT MILES OF NEW L14/M13 (EXISTING 61/62) LINES WITH 795 MCM ACSR CONDUCTOR (EACH CIRCUIT).
3. INSTALL 4.5 MILES OF L14 OR M13 (EXISTING 61) LINE WITH OPGW.
4. DETAILS FOR STRUCTURES 136 - JEPSON WILL BE FINALIZED ONCE THE SUBSTATION LOCATION IS FINALIZED.

STR. NUMBER		EXISTING LOCATION					EXISTING STRUCTURE	PROPOSED LOCATION MODIFICATIONS			PROPOSED WIRE CHANGES			PROPOSED STRUCTURE MODIFICATIONS			REFERENCE DRAWINGS		ADDITIONAL INFORMATION		
EXISTING	FINAL	STATION (FT)	BACK SPAN (FT)	LINE ANGLE (DEG-MIN)	LATITUDE	LONGITUDE	STRUCTURE TYPE	LOCATION MODIFICATION SCOPE	LATITUDE	LONGITUDE	WIRE SCOPE	CONDUCTOR	SHIELDWIRE	STR SCOPE	STR TYPE	POLES (HEIGHT/CLASS)	T-SHEET	INSULATOR/HARDWARE DRAWING	ACCESS	BACK SPAN	TOWN, STATE
133	133	214+45	500		41°32'54.592"	71°16'31.262"	2-POLE WOOD SUSP (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5687	400015-C-H-01	UNNAMED RD OFF OF JEPSON LN		PORTSMOUTH
133X	133X	216+10	177		41°32'52.959"	71°16'31.427"	2-POLE WOOD SUSP (DOUBLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5687	400015-C-H-01	UNNAMED RD OFF OF JEPSON LN		PORTSMOUTH
134	134	219+50	330	64°26' R	41°32'49.613"	71°16'31.873"	3-POLE WOOD H-DE (SINGLE CIRCUIT)	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE W/ OPGW SPLICE BOX	85	T-5687	400015-C-H-03 400015-C-H-09	UNNAMED RD OFF OF JEPSON LN		PORTSMOUTH
135	135	225+97	645		41°32'48.081"	71°16'39.884"	3-POLE WOOD H-DE (DOUBLE CIRCUIT)	NEW STRUCTURE	41°32'48.081"	71°16'39.884"	START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DOUBLE CIRCUIT DEADEND W/ OPGW SPLICE BOX	105	T-5687	400015-C-H-03	JEPSON LN		PORTSMOUTH
	136				41°32'47.604"	71°16'44.664"		NEW STRUCTURE	41°32'47.604"	71°16'44.664"	START RECONDUCTORING	795 ACSR "DRAKE"		INSTALL NEW STRUCTURE WITH 62 LINE	SINGLE WOOD POLE DOUBLE CIRCUIT SUSPENSION (TEMPORARY)	95	T-5687	400015-C-H-07	JEPSON LN		PORTSMOUTH
	137				41°32'47.313"	71°16'47.584"		NEW STRUCTURE	41°32'47.313"	71°16'47.584"	START RECONDUCTORING	795 ACSR "DRAKE"		INSTALL NEW STRUCTURE WITH 62 LINE	STEEL SINGLE POLE DOUBLE CIRCUIT DEADEND W/ OPGW SPLICE BOX	95	T-5687	400015-C-H-08 400015-C-H-09	JEPSON LN		PORTSMOUTH
JEPSON SUB	JEPSON SUB						STEEL DE	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		TO BE DONE BY SUBSTATION	TERMINAL STEEL DE W/ OPGW SPLICE BOX		T-5687	400015-C-H-05 400015-C-H-09	JEPSON LN		PORTSMOUTH

STRUCTURE WORK LIST

PROJECT: DEXTER - JEPSON LINES 69 kV UPGRADE TO 115 kV AND REBUILD PROJECT - (EXISTING 61/62; FUTURE L14/M13 EXTENSION)
COMPANY: 5360 **PR #**
FUNDING #: C08377 **Z #**
WORK ORDER #: 90000134874
INDEX #: 400015-G-W-01
CREATED BY: LET - VANDERWEIL
DATE: 1/29/15
REV: 1

TYPE: **Technical Scope Document**

STANDARD NOTES:
1. WHERE THERE ARE MULTIPLE POLES FOR A STRUCTURE THE POLES ARE LISTED IN ORDER FROM LEFT TO RIGHT LOOKING IN THE HEAD SPAN DIRECTION.
2. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH SP.06.01.301.
3. INSTALL/UPGRADE SIGNAGE IN ACCORDANCE WITH SP.06.01.301.201.
4. INSTALL/UPGRADE GROUNDING IN ACCORDANCE WITH SP.06.01.301.101.
5. INSTALLATION OF CORRUGATED METAL PIPE SHALL BE IN ACCORDANCE WITH SP.06.01.301.401.
6. REBAR AND HOOP QUANTITIES WITHIN THE FOUNDATION MODIFICATIONS SECTION REFLECT QUANTITIES PER FOUNDATION.
7. FOR EXISTING OR PROPOSED GUYS: H=HEAD; B=BACK; A=ANGLE

PROJECT SPECIFIC NOTES
1. THIS WORKLIST IS FOR L14 OR M13 (EXISTING 62 LINE) LINE ONLY.
2. RECONDUCTOR 4.5 CIRCUIT MILES OF NEW L14/M13 (EXISTING 61/62) LINES WITH 795 MCM ACSR CONDUCTOR (EACH CIRCUIT).
3. INSTALL 4.5 MILES OF L14 OR M13 (EXISTING 62) LINE WITH 3/8" EHS STEEL.
4. DETAILS FOR STRUCTURES 136 - JEPSON WILL BE FINALIZED ONCE THE SUBSTATION LOCATION IS FINALIZED.

STR. NUMBER		EXISTING LOCATION					EXISTING STRUCTURE		PROPOSED LOCATION MODIFICATIONS			PROPOSED WIRE CHANGES			PROPOSED STRUCTURE MODIFICATIONS			REFERENCE DRAWINGS		ADDITIONAL INFORMATION		
EXISTING	FINAL	STATION (FT)	BACK SPAN (FT)	LINE ANGLE (DEG-MIN)	LATITUDE	LONGITUDE	STRUCTURE TYPE	POLES (HEIGHT/CLASS)	LOCATION MODIFICATION SCOPE	LATITUDE	LONGITUDE	WIRE SCOPE	CONDUCTOR	SHIELDWIRE	STR SCOPE	STR TYPE	POLES (HEIGHT/CLASS)	T-SHEET	INSULATOR/HARDWARE DRAWING	ACCESS	BACK SPAN	TOWN, STATE
L14 OR M13 (EXISTING 62) LINE																						
DEXTER SUB	DEXTER SUB	0+00	0		41°36'5.294"	71°15'19.146"	TERMINAL STEEL DE	67, 67				START RECONDUCTORING	795 ACSR "DRAKE"		TO BE DONE BY SUBSTATION	TERMINAL STEEL DE		T-5683	400015-C-H-06	FREEBORN STREET		PORTSMOUTH
91X	91X	2+75	235	4°58' R	41°36'2.815"	71°15'20.632"	2-POLE WOOD H-SUSP (SINGLE CIRCUIT)	52, 56.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	85	T-5683	400015-C-H-04	FREEBORN STREET		PORTSMOUTH
91	91	7+41	442	12°10' L	41°35'58.739"	71°15'23.46"	2-POLE WOOD H-DE (SINGLE CIRCUIT)	56.5, 52	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"	3/8 EHS	REPLACE STRUCTURE	STEEL SINGLE POLE DE	85	T-5683	400015-C-H-04	FREEBORN STREET		PORTSMOUTH
92	92	10+62	320	18°41' L	41°35'55.74"	71°15'24.843"	2-POLE WOOD H-DE (SINGLE CIRCUIT)	56.5, 52	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	90	T-5683	400015-C-H-04	HIGH POINT AVE		PORTSMOUTH
93	93	16+24	530	0°34' R	41°35'50.195"	71°15'24.853"	2-POLE WOOD H-SUSP (SINGLE CIRCUIT)	61, 56.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	95	T-5683	400015-C-H-02	HIGH POINT AVE		PORTSMOUTH
94	94	21+90	566		41°35'44.607"	71°15'24.79"	2-POLE WOOD H-SUSP (SINGLE CIRCUIT)	61, 56.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5684	400015-C-H-02	LONG MEADOW RD		PORTSMOUTH
95	95	27+49	566	39°00' R	41°35'39.092"	71°15'24.727"	2-POLE WOOD H-DE (SINGLE CIRCUIT)	56.5, 52	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	90	T-5684	400015-C-H-04	LONG MEADOW RD		PORTSMOUTH
96	96	32+04	457		41°35'35.417"	71°15'28.173"	2-POLE WOOD H-SUSP (SINGLE CIRCUIT)	61, 56.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5684	400015-C-H-02	LONG MEADOW RD		PORTSMOUTH
97	97	36+59	457		41°35'31.78"	71°15'31.671"	2-POLE WOOD H-SUSP (SINGLE CIRCUIT)	61, 56.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5684	400015-C-H-02	HEDLY ST	HEDLY ST	PORTSMOUTH
98	98	41+72	500		41°35'27.666"	71°15'35.629"	2-POLE WOOD H-SUSP (SINGLE CIRCUIT)	61, 56.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	95	T-5684	400015-C-H-02	HEDLY ST		PORTSMOUTH
99	99	46+98	542	26°21' L	41°35'23.462"	71°15'39.673"	2-POLE WOOD H-DE (SINGLE CIRCUIT)	56.5, 52	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	90	T-5684	400015-C-H-04	HEDLY ST		PORTSMOUTH
100	100	51+86	485	3°53' R	41°35'18.806"	71°15'41.338"	2-POLE WOOD H-SUSP (SINGLE CIRCUIT)	61, 56.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	95	T-5684	400015-C-H-02	HEDLY ST		PORTSMOUTH
101	101	57+15	500		41°35'13.766"	71°15'43.14"	2-POLE WOOD H-SUSP (SINGLE CIRCUIT)	61, 56.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5684	400015-C-H-02	W PASSAGE DR		PORTSMOUTH
102	102	62+00	501	15°51' L	41°35'9.131"	71°15'44.797"	3-POLE WOOD H-DE (DOUBLE CIRCUIT)	47.5, 43, 47.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	90	T-5684	400015-C-H-04	W PASSAGE DR		PORTSMOUTH
103	103	67+13	520	15°51' R	41°35'4.076"	71°15'44.652"	3-POLE WOOD H-DE (DOUBLE CIRCUIT)	47.5, 43, 47.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	90	T-5684	400015-C-H-04	W PASSAGE DR		PORTSMOUTH
104	104	73+05	587		41°34'58.26"	71°15'45.43"	3-POLE WOOD H-SUSP (DOUBLE CIRCUIT)	52, 47.5, 56.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5684	400015-C-H-02	CENTER VIEW DR		PORTSMOUTH
105	105	79+00	590		41°34'52.416"	71°15'46.257"	3-POLE WOOD H-SUSP (DOUBLE CIRCUIT)	56.5, 56.5, 61	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5684	400015-C-H-02	HILLTOP DR	FULL CIR AND CENTER VIEW DR	PORTSMOUTH
106	106	84+96	595	7°37' R	41°34'46.574"	71°15'47.083"	3-POLE WOOD H-DE (DOUBLE CIRCUIT)	47.5, 43, 47.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	90	T-5685	400015-C-H-04	PRUDENCE VIEW DR	PRUDENCE VIEW DR	PORTSMOUTH
107	107	90+31	534	8°31' L	41°34'41.424"	71°15'48.636"	3-POLE WOOD H-DE (DOUBLE CIRCUIT)	47.5, 43, 47.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	90	T-5685	400015-C-H-04	MILL LN	MILL LN	PORTSMOUTH
108	108	94+98	405		41°34'36.824"	71°15'49.185"	3-POLE WOOD H-SUSP (DOUBLE CIRCUIT)	47.5, 43, 52	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	85	T-5685	400015-C-H-02	WHITE HORSE TERRACE		PORTSMOUTH
109	109	98+53	333		41°34'33.349"	71°15'49.643"	3-POLE WOOD H-SUSP (DOUBLE CIRCUIT)	47.5, 43, 52	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5685	400015-C-H-02	WHITE HORSE TERRACE		PORTSMOUTH
110	110	103+19	484	76°25' R	41°34'28.763"	71°15'50.247"	3-POLE WOOD H-DE (SINGLE CIRCUIT)	43, 47.5, 43	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	80	T-5685	400015-C-H-04	GREYSTONE TERRACE		PORTSMOUTH
111	111	106+69	360		41°34'28.065"	71°15'54.747"	3-POLE WOOD H-SUSP (DOUBLE CIRCUIT)	52, 47.5, 52	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5685	400015-C-H-02	GREYSTONE TERRACE		PORTSMOUTH
112	112	110+43	530		41°34'27.316"	71°15'59.572"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	52, 47.5, 52	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	85	T-5685	400015-C-H-02	ELAINE AVE		PORTSMOUTH

STRUCTURE WORK LIST

PROJECT: DEXTER - JEPSON LINES 69 kV UPGRADE TO 115 kV AND REBUILD PROJECT - (EXISTING 61/62; FUTURE L14/M13 EXTENSION)
COMPANY: 5360 **PR #**
FUNDING #: C08377 **Z #**
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4. INSTALL/UPGRADE GROUNDING IN ACCORDANCE WITH SP.06.01.301.101.
5. INSTALLATION OF CORRUGATED METAL PIPE SHALL BE IN ACCORDANCE WITH SP.06.01.301.401.
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PROJECT SPECIFIC NOTES
1. THIS WORKLIST IS FOR L14 OR M13 (EXISTING 62 LINE) LINE ONLY.
2. RECONDUCTOR 4.5 CIRCUIT MILES OF NEW L14/M13 (EXISTING 61/62) LINES WITH 795 MCM ACSR CONDUCTOR (EACH CIRCUIT).
3. INSTALL 4.5 MILES OF L14 OR M13 (EXISTING 62) LINE WITH 3/8" EHS STEEL.
4. DETAILS FOR STRUCTURES 136 - JEPSON WILL BE FINALIZED ONCE THE SUBSTATION LOCATION IS FINALIZED.

STR. NUMBER		EXISTING LOCATION					EXISTING STRUCTURE		PROPOSED LOCATION MODIFICATIONS			PROPOSED WIRE CHANGES			PROPOSED STRUCTURE MODIFICATIONS			REFERENCE DRAWINGS		ADDITIONAL INFORMATION		
EXISTING	FINAL	STATION (FT)	BACK SPAN (FT)	LINE ANGLE (DEG-MIN)	LATITUDE	LONGITUDE	STRUCTURE TYPE	POLES (HEIGHT/CLASS)	LOCATION MODIFICATION SCOPE	LATITUDE	LONGITUDE	WIRE SCOPE	CONDUCTOR	SHIELDWIRE	STR SCOPE	STR TYPE	POLES (HEIGHT/CLASS)	T-SHEET	INSULATOR/HARDWARE DRAWING	ACCESS	BACK SPAN	TOWN, STATE
113	113	114+12	360	66°32' L	41°34'26.578"	71°16'4.325"	3-POLE WOOD DE (SINGLE CIRCUIT)	47.5, 52, 43	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	85	T-5685	400015-C-H-04	ELAINE AVE		PORTSMOUTH
114	114	119+10	500	2°20' L	41°34'21.747"	71°16'5.538"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	47.5, 47.5, 52	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	95	T-5685	400015-C-H-02	WATSON DR		PORTSMOUTH
115	115	123+73	463		41°34'17.253"	71°16'6.621"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	47.5, 43, 47.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	95	T-5685	400015-C-H-02	LOCUST AVE		PORTSMOUTH
116	116	128+45	470		41°34'12.669"	71°16'7.725"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	52, 47.5, 52	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	95	T-5685	400015-C-H-02	LOCUST AVE		PORTSMOUTH
117	117	134+70	630	18°10' L	41°34'6.61"	71°16'9.285"	3-POLE WOOD SPO (SINGLE CIRCUIT)	52, 47.5, 52	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	85	T-5685	400015-C-H-04	LOCUST AVE		PORTSMOUTH
118	118	140+44	580		41°34'1.637"	71°16'12.896"	3-POLE WOOD H-SUSP (DOUBLE CIRCUIT)	56.5, 56.5, 61	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	95	T-5685	400015-C-H-02	GREEN VALLEY COUNTRY CLUB (OFF UNION ST)		PORTSMOUTH
119	119	146+30	580		41°33'56.585"	71°16'16.628"	3-POLE WOOD H-SUSP (DOUBLE CIRCUIT)	47.5, 43, 47.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	95	T-5685	400015-C-H-02	GREEN VALLEY COUNTRY CLUB (OFF UNION ST)		PORTSMOUTH
120	120	149+82	580		41°33'53.536"	71°16'18.879"	3-POLE WOOD H-SUSP (DOUBLE CIRCUIT)	47.5, 43, 47.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5685	400015-C-H-02	GREEN VALLEY COUNTRY CLUB (OFF UNION ST)		PORTSMOUTH
121	121	153+64	397		41°33'50.238"	71°16'21.315"	3-POLE WOOD H-SUSP (DOUBLE CIRCUIT)	47.5, 43, 47.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	85	T-5686	400015-C-H-02	GREEN VALLEY COUNTRY CLUB (OFF UNION ST)		PORTSMOUTH
122	122	157+92	422	20°53' L	41°33'46.51"	71°16'23.959"	3-POLE WOOD SPO (SINGLE CIRCUIT)	52, 56.5, 56.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	85	T-5686	400015-C-H-04	GREEN VALLEY COUNTRY CLUB (OFF UNION ST)		PORTSMOUTH
123	123	162+08	420		41°33'42.452"	71°16'24.803"	3-POLE WOOD H-SUSP (DOUBLE CIRCUIT)	47.5, 43, 47.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	85	T-5686	400015-C-H-02	UNION ST		PORTSMOUTH
124	124	165+92	377		41°33'38.694"	71°16'25.448"	2-POLE WOOD H-SUSP (SINGLE CIRCUIT)	61, 56.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	85	T-5686	400015-C-H-02	UNION ST		PORTSMOUTH
125	125	170+78	488		41°33'33.933"	71°16'26.265"	3-POLE WOOD H-SUSP (DOUBLE CIRCUIT)	65.5, 61, 65.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	85	T-5686	400015-C-H-02	UNION ST	UNION ST	PORTSMOUTH
126	126	175+77	500		41°33'29.051"	71°16'27.103"	3-POLE WOOD H-SUSP (DOUBLE CIRCUIT)	43, 43, 47.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	85	T-5686	400015-C-H-02	UNION ST		PORTSMOUTH
127	127	180+85	506	21°38' L	41°33'24.08"	71°16'27.956"	2-POLE WOOD H-DE (SINGLE CIRCUIT)	56.5, 52	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	85	T-5686	400015-C-H-04	UNNAMED RD OFF OF UNION ST		PORTSMOUTH
128	128	186+60	582		41°33'18.442"	71°16'26.963"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	52, 47.5, 52	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5686	400015-C-H-02	UNNAMED RD OFF OF UNION ST		PORTSMOUTH
129	129	192+54	585		41°33'12.634"	71°16'25.939"	2-POLE WOOD H-DE (SINGLE CIRCUIT)	61, 56.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	90	T-5686	400015-C-H-04	UNNAMED RD OFF OF UNION ST		PORTSMOUTH
130	130	198+40	588		41°33'6.902"	71°16'24.93"	3-POLE WOOD SUSP (DOUBLE CIRCUIT)	52, 47.5, 52	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5686	400015-C-H-02	UNNAMED RD OFF OF UNION ST		PORTSMOUTH
131	131	204+05	577	78°18' R	41°33'1.371"	71°16'24.013"	3-POLE WOOD H-DE (SINGLE CIRCUIT)	47.5, 52, 43	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	85	T-5687	400015-C-H-04	UNNAMED RD OFF OF JEPSON LN		PORTSMOUTH
132	132	209+49	553	65°34' L	41°32'59.464"	71°16'30.706"	3-POLE WOOD H-DE (SINGLE CIRCUIT)	47.5, 52, 43	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	90	T-5687	400015-C-H-04	UNNAMED RD OFF OF JEPSON LN		PORTSMOUTH
133	133	214+45	500		41°32'54.592"	71°16'31.262"	2-POLE WOOD H-SUSP (DOUBLE CIRCUIT)	61, 56.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5687	400015-C-H-02	UNNAMED RD OFF OF JEPSON LN		PORTSMOUTH
133X	133X	216+10	177		41°32'52.959"	71°16'31.427"	2-POLE WOOD H-SUSP (DOUBLE CIRCUIT)	61, 56.5	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE SUSPENSION	90	T-5687	400015-C-H-02	UNNAMED RD OFF OF JEPSON LN		PORTSMOUTH
134	134	219+50	330	64°26' R	41°32'49.613"	71°16'31.873"	3-POLE WOOD H-DE (SINGLE CIRCUIT)	52, 56.5, 43	NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DE	85	T-5687	400015-C-H-04	UNNAMED RD OFF OF JEPSON LN		PORTSMOUTH
135	135	225+97	645		41°32'48.081"	71°16'39.884"	3-POLE WOOD H-DE (DOUBLE CIRCUIT)	56.5, 52,	NEW STRUCTURE	41°32'48.081"	71°16'39.884"	START RECONDUCTORING	795 ACSR "DRAKE"		REPLACE STRUCTURE	STEEL SINGLE POLE DOUBLE CIRCUIT DEADEND	105	T-5687	400015-C-H-04	JEPSON LN		PORTSMOUTH

STRUCTURE WORK LIST

PROJECT: DEXTER - JEPSON LINES 69 kV UPGRADE TO 115 kV AND REBUILD PROJECT - (EXISTING 61/62; FUTURE L14/M13 EXTENSION)
COMPANY: 5360 **PR #**
FUNDING #: C08377 **Z #**
WORK ORDER #: 90000134874
INDEX #: 400015-G-W-01
CREATED BY: LET - VANDERWEIL
DATE: 1/29/15
REV: 1

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EXISTING	FINAL	STATION (FT)	BACK SPAN (FT)	LINE ANGLE (DEG-MIN)	LATITUDE	LONGITUDE	STRUCTURE TYPE	POLES (HEIGHT/CLASS)	LOCATION MODIFICATION SCOPE	LATITUDE	LONGITUDE	WIRE SCOPE	CONDUCTOR	SHIELDWIRE	STR SCOPE	STR TYPE	POLES (HEIGHT/CLASS)	T-SHEET	INSULATOR/HARDWARE DRAWING	ACCESS	BACK SPAN	TOWN, STATE
	136				41°32'47.604"	71°16'44.664"			NEW STRUCTURE	41°32'47.604"	71°16'44.664"	START RECONDUCTORING	795 ACSR "DRAKE"		INSTALL NEW STRUCTURE WITH 61 LINE	SINGLE WOOD POLE DOUBLE CIRCUIT SUSPENSION (TEMPORARY)	95	T-5687	400015-C-H-07	JEPSON LN		PORTSMOUTH
	137				41°32'47.313"	71°16'47.584"			NEW STRUCTURE	41°32'47.313"	71°16'47.584"	START RECONDUCTORING	795 ACSR "DRAKE"		INSTALL NEW STRUCTURE WITH 61 LINE	STEEL SINGLE POLE DOUBLE CIRCUIT DEADEND W/ OPGW SPLICE BOX	95	T-5687	400015-C-H-08	JEPSON LN		PORTSMOUTH
JEPSON SUB	JEPSON SUB						STEEL DE		NEW STRUCTURE			START RECONDUCTORING	795 ACSR "DRAKE"		TO BE DONE BY SUBSTATION	TERMINAL STEEL DE		T-5687	400015-C-H-06	JEPSON LN		PORTSMOUTH

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
PUBLIC UTILITIES COMMISSION

In the Matter of:

THE NARRAGANSETT ELECTRIC	:	
COMPANY d/b/a NATIONAL GRID'S	:	
NEED TO CONSTRUCT AND ALTER	:	PUC Docket No. 4614
CERTAIN TRANSMISSION COMPONENTS	:	
IN THE TOWNS OF PORTSMOUTH AND	:	
MIDDLETOWN (AQUIDNECK ISLAND	:	
RELIABILITY PROJECT)	:	

NATIONAL GRID'S RESPONSE TO THE
RHODE ISLAND DIVISION OF PUBLIC UTILITIES'
FIRST SET OF INTERROGATORIES AND
REQUESTS FOR PRODUCTION

REQUEST NO. R-I-10: What fiber count OPGW is being considered on the new line?

RESPONSE:

National Grid is proposing to install 48 fiber count OPGW.

Response prepared by or under the supervision of
Pauline Bassil

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
PUBLIC UTILITIES COMMISSION

In the Matter of:

THE NARRAGANSETT ELECTRIC	:	
COMPANY d/b/a NATIONAL GRID'S	:	
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CERTAIN TRANSMISSION COMPONENTS	:	
IN THE TOWNS OF PORTSMOUTH AND	:	
MIDDLETOWN (AQUIDNECK ISLAND	:	
RELIABILITY PROJECT)	:	

NATIONAL GRID'S RESPONSE TO THE
RHODE ISLAND DIVISION OF PUBLIC UTILITIES'
FIRST SET OF INTERROGATORIES AND
REQUESTS FOR PRODUCTION

REQUEST NO. R-I-11: Is the new line being built designed up to NESC standards 250B, 250C, and 250D or over designed to different standards? (i.e increased levels of ice accumulation, wind loading or other.)

RESPONSE:

The new lines are being designed to NESC standards 250B, 250C, and 250D. The new lines are also being designed for 120 mph hurricane wind plus 1.5 inches radial ice thickness with 2 psf wind at 30 degrees F.

Response prepared by or under the supervision of
Pauline Bassil