

August 30, 2021

BY ELECTRONIC MAIL

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

RE: Docket 4237 – National Grid 2020 Contact Voltage Annual Report Responses to PUC Data Requests – Set 5

Dear Ms. Massaro:

I have enclosed an electronic version of National Grid's¹ responses to the Public Utilities Commission's Fifth Set of Data Requests containing one request in the above-referenced docket.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: Docket 4237 Service List
John Bell, Division
Tiffany Parenteau, Esq.

¹ The Narragansett Electric Company d/b/a National Grid (National Grid or Company).

² Per Commission counsel's update on October 2, 2020, concerning the COVID-19 emergency period, the Company is submitting an electronic version of this filing. The Company is also providing the Commission Clerk with five copies.

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4237
In Re: 2021 Contact Voltage Annual Report
Responses to Commission's Fifth Set of Data Requests
Issued on August 26, 2021

PUC 5-1

Request:

Of the twenty-one mobile events recorded during the mobile scanning survey having one volt or greater, please identify the location of each, what the recorded levels were, an explanation of why the level was greater than one volt, and the nature of the repairs.

Response:

There were 21 mobile events recorded during the 2021 mobile scanning survey that had 1 volt or greater. This information was included as Exhibit 1 in the National Grid Contact Voltage Annual Report filed with the Rhode Island Public Utilities Commission on August 18, 2021.

Of the 21 events, 8 required repairs (shown in the chart below). The voltage levels were greater than 1 volt due to ground or neutral connections that became insufficient and/or deteriorated streetlight equipment. These were corrected as indicated in the "Repair" column.

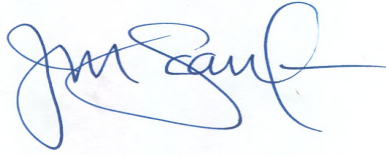
Location	Voltage	Repair
428 Gibbs Ave., Newport (streetlight)	11.5	Replaced head and ground connections
25 Greenough Pl., Newport (streetlight)	15.5	Replaced head and wiring inside pole/new ground connections
11 Greenough Pl., Newport (streetlight)	4	Replaced bad connection in handhole
18 Greenough Pl., Newport (streetlight)	7.6	Replaced head and wiring inside pole/new ground connections
7 Francis St., Newport (streetlight)	13	Replaced all connections at base
14 Rovensky Ave., Newport (manhole cover)	1.3	Replaced head and wiring inside pole
14 Rovensky Ave., Newport (streetlight)	80	Replaced head and wiring inside pole
450 Clinton St., Woonsocket (streetlight)	7.8	Replaced wiring from base to head

For the remaining 13 events, when repair crews arrived at the sites and performed voltage verification, recorded levels were below 1 volt. The repair crews did not find any issues. Therefore, no repairs were required.

Event ID	Date Found	Zone Name	Address Number	Street	Voltage	Shunt Voltage	3rd Harmonic	Asset Type	NGrid Verification Voltage	Repair Date	Type of Repair	Mitigated Repair Voltage
15851	2/22/2021	Newport		GLADYS CARR BOLHOUSE RD 1000' WEST OF	2.7	1.9	12.5	ACCESS HATCH	0.3 volts with shunt resistor / OL THD	9-Mar	None needed / no problems found	
15850	2/22/2021	Newport		GLADYS CARR BOLHOUSE RD 1000' WEST OF	2.7	1.9	13	ACCESS HATCH	0.2 volts with shunt resistor / 72 THD	9-Mar	None needed / no problems found	
15849	2/22/2021	Newport		GLADYS CARR BOLHOUSE RD 1000' WEST OF	2.7	2.6	12.5	STREETLIGHT	0.0 volts with shunt resistor / OL THD	9-Mar	None needed / no problems found	
15853	2/22/2021	Newport		GLADYS CARR BOLHOUSE RD - 500' E OF	1.5	1.3	10.5	ACCESS HATCH	1.2 volts with shunt resistor / 14.3 THD	9-Mar	None needed / no problems found	
15852	2/22/2021	Newport		GLADYS CARR BOLHOUSE RD - 500' E OF	1.6	1.5	10.5	STREETLIGHT	0.5 volts with shunt resistor / OL THD	9-Mar	None needed / no problems found	
15854	2/23/2021	Newport	428	GIBBS AVE	11.8	11.5	8.6	STREETLIGHT	6.5 volts with shunt resistor	3/16/2021	Replaced head and ground connections	0.0 volts with shunt resistor
15855	2/23/2021	Newport	410	GIBBS AVE	16	11.6	8.6	STREETLIGHT	0.2 volts with shunt resistor	3/5/2021	None needed / no problems found	
15856	2/23/2021	Newport	25	GREENOUGH PL	17.4	15.5	8.5	STREETLIGHT	8.1 volts with shunt resistor	17-Mar	Replaced head and wiring inside pole / new ground connections	1.1 volts with shunt resistor
15858	2/23/2021	Newport	11	GREENOUGH PL	5.3	4	9	STREETLIGHT	3.2 volts with shunt resistor	10-Mar	Replaced bad connection in handhole	1.3 volts with shunt resistor
15857	2/23/2021	Newport	18	GREENOUGH PL	8	7.6	8	STREETLIGHT	5.2 volts with shunt resistor	17-Mar	Replaced head and wiring inside pole / new ground connections	1.02 volts with shunt resistor
15859	2/23/2021	Newport	7	FRANCIS ST	18	13	8	STREETLIGHT	5.2 volts with shunt resistor	16-Mar	Replaced all connections at base	0.29 volts with shunt resistor
15860	2/24/2021	Newport	142	MILL ST	1.7	1.1	7.4	STREETLIGHT	.37 volts with shunt resistor / 23.5 THD	8-Mar	None needed / no problems found	
15861	2/24/2021	Newport	Ctr Isl	MEMORIAL BLVD W	6.1	5.9	13	STREETLIGHT	1.6 volts with shunt resistor / 28.2 THD	8-Mar	None needed / no problems found	
15862	2/24/2021	Newport	17	KAY ST	2.3	2.2	22	STREETLIGHT	1.7 volts with shunt resistor / 24.2 THD	8-Mar	None needed / no problems found	
15863	2/24/2021	Newport	8	KAY ST	2.8	2.6	20	STREETLIGHT	1.9 volts with shunt resistor / 19.6 THD	8-Mar	None needed / no problems found	
15865	2/24/2021	Newport	14	ROVENSKY AVE	3.1	1.3	8.8	MANHOLE COVER	2.4 volts with shunt resistor	3/12/2021	Replaced head and wiring inside pole	1.0 volts with shunt resistor
15864	2/24/2021	Newport	14	ROVENSKY AVE	97	80	5	STREETLIGHT	45 volts with shunt resistor	12-Mar	Replaced head and wiring inside pole	1.0 volts with shunt resistor
15866	2/25/2021	Newport	120	NARRAGANSETT AVE	2.7	2.7	17	STREETLIGHT	0.2 volts with shunt resistor / 23.4 THD	3/5/2021	None needed / no problems found	
15867	2/25/2021	Newport	120	NARRAGANSETT AVE	2.6	2	22	STREETLIGHT	1.7 volts with shunt resistor / 22.1 THD	3/5/2021	None needed / no problems found	
15868	2/25/2021	Woonsocket	450	CLINTON ST	11.1	7.8	11	STREETLIGHT	1.3 volts with shunt resistor / OL THD	11-Mar	Replaced wiring from base to head	0.0 volts with shunt resistor
15869	2/25/2021	Woonsocket		TRUMAN DR - 750' S OF	4.1	2.9	10	STREETLIGHT	0.8 volts with shunt resistor / 43.3 THD	10-Mar	None needed / no problems found	

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.



Joanne M. Scanlon

August 30, 2021
Date

**Docket No. 4237 – Commission’s Proceeding Relating to Stray
and Contact Voltage Pursuant to Enacted Legislation
Service List updated 10/15/2020**

Name	E-mail Distribution List	Phone
Raquel Webster, Esq. Andrew Marcaccio, Esq. National Grid 280 Melrose Street Providence, RI 02907-1438	Raquel.webster@nationalgrid.com;	401-784-7667
	Andrew.marcaccio@nationalgrid.com	
	Jennifer.Hutchinson@nationalgrid.com;	
	Celia.obrien@nationalgrid.com;	
	Bartholemew.Cass@nationalgrid.com;	
	Lori.Iacono@nationalgrid.com;	
Christy Hetherington, Esq. Dept. of Attorney General 150 South Main St. Providence, RI 02903	Chetherington@riag.ri.gov;	401-274-4400
	Margaret.L.Hogan@dpuc.ri.gov;	
	John.bell@dpuc.ri.gov;	
	Al.contente@dpuc.ri.gov;	
	Thomas.kogut@dpuc.ri.gov;	
	Robert.Bailey@dpuc.ri.gov;	
	joseph.shilling@dpuc.ri.gov;	
	Mfolcarelli@riag.ri.gov;	
Gregory L. Booth, PLLC 14460 Falls of Neuse Rd. Suite 149-110 Raleigh, N. C. 27614	gboothpe@gmail.com;	919-441-6440
Original & 9 copies file w/: Luly E. Massaro, Commission Clerk Margaret Hogan, Commission Counsel Public Utilities Commission 89 Jefferson Boulevard Warwick, RI 02888	Luly.massaro@puc.ri.gov;	401-780-2107
	Patricia.lucarelli@puc.ri.gov;	
	Cynthia.WilsonFrias@puc.ri.gov;	
	Alan.nault@puc.ri.gov;	