

Unitil Energy Systems, Inc.
Docket No. DE 14-063
PUC Staff Information Requests – Set 1

Received: March 18, 2014

Date of Response: March 28, 2014

Request No. Staff 1-14

ORIGINAL

Witness: Sara M. Sankowich

NH PUC Case No DE 14-063

Exhibit No. #5

Witness Panel

DO NOT REMOVE FROM FILE

Request:

Questions Regarding REP/VMP Annual Report 2013

Page 15 of 43 – Please provide the data for recent historic reliability performance, number of customers served, field conditions and location used to select the three circuits listed in Table 14 for VM resiliency work as compared to other circuits.

Response:

The following table shows the data used to select the three circuits listed in Table 14 on page 15 of 43, selected for VM resiliency work.

The circuits in the data are limited to those circuits chosen for the storm resiliency program in the Seacoast area and are based on criteria described in the “2013 Storm Resiliency Pilot Program Results” document on page 13 of 21.

The column labeled 2014 Model Rank uses 3-year historic tree related reliability data. The top 10 with the worst performance are indicated in that column in red. There are 11 numbers/circuits highlighted as 2 of the circuits had the same rank.

A field review was conducted on all of the top worst historic performers, assessing the tree density, the condition of the adjacent trees and overhanging canopy, looking for dead and dying trees, tree and limb defects, effects of recent storm damage, and stand age, species, and maturity.

Based on the reliability rank, field conditions, recent work history, and planned prune work for 2014, the list was narrowed down to 6 circuits, which are shown highlighted in blue.

Based on the reliability rank, field conditions, recent work history, planned prune for 2014, as well as the number of customers per mile impacted and total miles planned to fit the mileage goal, 3 circuits were chosen for 2014 storm resiliency work, which are shown highlighted in orange.

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Circuit	Single/Two-Phase	Three-Phase	Total Miles	Cust Serv	Storm Pilot	Cust/Mi	2014 Model Rank	2014 Field Check	Recent Work History	Planned Prune	Miles Total
E11W1	6.83	4.37	11.20	599	4.37	136.9528	none				
E11X2	5.13	6.59	11.73	978	6.59	148.3635	123				
E13W1	13.87	4.58	18.45	1088	4.58	237.7462	70	High		2014 Prune	
E13W2	18.31	10.66	28.98	1487	done 2012		39				
E15X1	3.57	6.21	9.78	956	6.21	153.9329	77	Low	2013 Prune & HT		
E17W1	5.20	3.50	8.70	1790	3.50	511.6914	130				
E17W2	2.78	1.97	4.75	610	1.97	310.3964	83				
E18X1	9.64	8.46	18.10	1718	8.46	203.0448	65	Moderate	2013 HT	2014 Prune	
E19H1	1.40	3.28	4.68	163	3.28	49.66061	159				
E19X2	1.06	1.69	2.75	523	1.69	309.6467	92				
E19X3	22.40	15.35	37.75	3127	15.35	203.6522	66	High	2013 MC		15.4
E20H1	2.24	2.21	4.44	441	2.21	199.8582	154				
E21W1	19.73	8.74	28.46	1252	8.74	143.2852	117				
E21W2	13.40	8.46	21.86	1376	done 2012		75				
E22X1	42.06	11.44	53.50	2057	11.44	179.8367	61	High	2013 FRA		11.4
E23X1	16.88	10.60	27.48	1084	10.60	102.2633	81	High			
E27X1	12.82	4.62	17.44	533	4.62	115.2988	129				
E2X2	7.08	12.86	19.94	2522	12.86	196.1332	84				
E2X3	6.05	7.18	13.23	791	7.18	110.1844	155				
E3W4	3.14	2.24	5.38	1555	2.24	694.7848	none				
E43X1	22.59	7.85	30.44	1853	7.85	236.0109	54	Moderate (w/high tree density)			7.9
E46X1	1.82	1.99	3.81	1130	1.99	566.7125	144				
E47X1	9.07	6.19	15.26	1472	6.19	237.7559	47	Moderate	2013 HT	2014 Prune	
E51X1	19.85	10.16	30.01	1870	10.16	184.074	49	Low	2013 Prune		
E54X1	22.08	7.76	29.84	1424	7.76	183.5478	76	Moderate (w/high tree density)	2013 HT		
E56X1	13.00	3.70	16.70	713	3.70	192.687	104				
E58X1	17.75	13.22	30.97	2162	done 2012		44				
E59X1	8.16	7.27	15.43	1009	7.27	138.8338	119				
E5H2	3.25	3.68	6.93	614	3.68	166.6622	166				
E6W1	21.01	5.76	26.77	857	5.76	148.6796	77	High	2013 MC		
E6W2	14.04	4.86	18.91	886	4.86	182.1222	116				
E7W1	2.93	4.41	7.35	1226	4.41	277.8127	none				
E7X2	12.70	6.33	19.04	1774	6.33	280.204	84				
											34.7