



Laura S. Olton
General Counsel

January 21, 2005

VIA HAND DELIVERY & ELECTRONIC MAIL

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

**RE: Docket Nos. 2930/3617 The Narragansett Electric Company's
Feeder Ranking Reports – 4th Quarter 2004**

Dear Ms. Massaro:

Enclosed are ten copies of The Narragansett Electric Company's Reliability Report of Feeder Rankings for the fourth quarter of 2004.

Thank you for your attention to this matter. Please feel free to contact me at (401) 784-7667 if you have any questions.

Very truly yours,

Laura S. Olton

Enclosures

cc: Paul Roberti
Steve Scialabba

Narragansett Electric Company
Coastal District
Feeder Rankings
4 th Quarter: October 2004-December 2004

Rank	Feeder	Freq.	Cities/Towns Served	No. of Customers	No of Events	Average Duration	Total Customer Mins.	Causes	Corrective Actions
1	36W44	3.00	PORTSMOUTH	1833	4	105.99	194288	Squirrel Loss of 2-115Kv (M13 & L14)Substation Supply Circuits During Strong Wind/Snow Storm Loss of 2-115Kv (M13 & L14)Substation Supply Circuits During Strong Wind/Snow Storm Fuse Cutout Failure	Animal Guard Installed and Transformer Fuse Replaced Switching Was Undertaken and Both Circuits Was Restored to Normal Operation Switching Was Undertaken and Both Circuits Was Restored to Normal Operation Fuse Cutout Was Replaced and Circuit Was Restored to Normal Operation
2	33F3	2.56	LITTLE COMPTON TIVERTON	2674	10	118.15	315946	Squirrel Fuse Cutout Failure Vehicle Pole Accident Fuse Link Failure Transformer Failure Unknown Tree Condition Transformer Failure Broken Pole Loss of 2-115Kv (M13 & L14)Substation Supply Circuits During Strong Wind/Snow Storm	Transformer Fuse Replaced Fuse Cutout Was Replaced Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation Line Fuse Replaced Transformer Was Replaced Circuit Was Patrolled, No Apparent Cause Found Line Fuse Replaced Secondary Cries Were Connected to Restore Service Pole and Transformer Were Replaced Switching Was Undertaken and Both Circuits Was Restored to Normal Operation
3	33F2	2.37	TIVERTON	2320	5	91.78	212940	Squirrel Vehicle Pole Accident Vehicle Pole Accident Primary Conductors Contacted Each Other Loss of 2-115Kv (M13 & L14)Substation Supply Circuits During Strong Wind/Snow Storm	Transformer Fuse Replaced Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation Line Fuses Replaced Switching Was Undertaken and Both Circuits Was Restored to Normal Operation
4	72F4	2.33	WARWICK	814	2	69.28	56393	Fuse Cutout Failure	Fuse Cutout Was Replaced and Circuit Was Restored to Normal Operation
5	37W43	2.08	MIDDLETOWN PORTSMOUTH	1390	5	93.81	130396	Squirrel Came Into Contact With a Substation Transformer Bushing;The Second 115Kv Substation Supply and Transformer Were Out of Service Due to Ongoing Construction Fuse Link Failure Squirrel Tree Contacted Primary Loss of 2-115Kv (M13 & L14)Substation Supply Circuits During Strong Wind/Snow Storm Loss of 2-115Kv (M13 & L14)Substation Supply Circuits During Strong Wind/Snow Storm	Substation Transformer Was Restored to Normal Operation Transformer Fuse Replaced Line Fuse Replaced Line Fuse Replaced Switching Was Undertaken and Both Circuits Was Restored to Normal Operation Switching Was Undertaken and Both Circuits Was Restored to Normal Operation

Narragansett Electric Company
Coastal District
Feeder Rankings
4 th Quarter:October 2004-December 2004

Rank	Feeder	Freq.	Cities/Towns Served	No. of Customers	No of Events	Average Duration	Total Customer Mins.	Causes	Corrective Actions
6	36W41	2.06	PORTSMOUTH	2086	7	80.39	167685	Fuse Link Failure	Transformer Fuse Replaced
								Vines	Transformer Fuse Replaced
								Squirrel	Line Fuse Replaced
								Lightning Arrestor Failure	Line Fuse Replaced
								Squirrel	Transformer Fuse Replaced
								Loss of 2-115Kv (M13 & L14)Substation Supply Circuits During Strong Wind/Snow Storm	Switching Was Undertaken and Both Circuits Was Restored to Normal Operation
								Loss of 2-115Kv (M13 & L14)Substation Supply Circuits During Strong Wind/Snow Storm	Switching Was Undertaken and Both Circuits Was Restored to Normal Operation
7	38J2	2.06	NEWPORT	494	3	123.58	61050	Underground Cable Failure	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
								Loss of 2-115Kv (M13 & L14)Substation Supply Circuits During Strong Wind/Snow Storm	Switching Was Undertaken and Both Circuits Was Restored to Normal Operation
								Loss of 2-115Kv (M13 & L14)Substation Supply Circuits During Strong Wind/Snow Storm	Switching Was Undertaken and Both Circuits Was Restored to Normal Operation

The Total No. Of Customers Served Will Vary Throughout The Year Due to New Activations, Terminations Of Service Or Rearrangements of the Company's Distribution System

FREQUENCY=(Total No. Of Cust's Interrupted) / (Total No. Of Cust's Served By Feeder)

TOTAL CUSTOMER MINUTES (CMI) =Sum Of [((Number Of Customers Interrupted) X (Duration Of Interruption)) For Each Event]

Narragansett Electric Company
Capital District
Feeder Rankings
4 th Quarter: October 2004-December 2004

Rank	Feeder	Freq.	Cities/Towns Served	No. of Customers	No of Events	Average Duration	Total Customer Mins.	Causes	Corrective Actions
1	17W43	2.02	WOONSOCKET NORTH SMITHFIELD	1041	5	149.35	155474	Fuse Cutout Failure-Wind Storm	Fuse Cutout Was Replaced
								Fuse Link Failure-Wind Storm	Transformer Fuse Replaced
								Tree Contacted the Primary	Line Fuses Replaced
								Primary Conductor Failure	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
								Protective Relay Operated During Switching	Switching Was Completed and Circuit Was Restored to Normal Operation
2	21F2	1.95	SCITUATE JOHNSTON CRANSTON	1122	5	106.92	119967	Squirrel	Animal Guard Installed and Transformer Fuse Replaced
								Fuse Link Failure	Transformer Fuse Replaced
								Insulator Failure	Damaged Equipment Was Isolated and Circuit Was Restored to Normal Operation
								Transformer Failure	Secondary Crib Jumped to Restore Service
								Vehicle Pole Accident	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
3	34F2	1.77	GLOCESTER FOSTER SCITUATE	2477	17	87.90	217740	Squirrel	Animal Guard Installed and Transformer Fuse Replaced
								Squirrel	Animal Guard Installed and Line/Transformers Fuse Replaced
								Squirrel	Line Fuses Replaced
								Switching to Energize New Feeder	Switching Was Completed and Circuits Were Restored to Normal Operation
								Unknown	Circuit Was Patrolled, No Apparent Cause Found
								Fuse Link Failure-Wind Storm	Transformer Fuse Replaced
								Tree Contacted the Primary	Line Fuse Replaced
								Fuse Link Failure	Transformer Fuse Replaced
								Fuse Link Failure	Transformer Fuse Replaced
								Fuse Cutout Failure	Fuse Cutout Was Replaced
								Fuse Link Failure	Transformer Fuse Replaced
								Vehicle Pole Accident	Line Fuses Replaced
								Squirrel	Animal Guard Installed and Transformer Fuse Replaced
								Fuse Link Failure	Transformer Fuse Replaced
								Fuse Link Failure	Transformer Fuse Replaced
								Fuse Cutout Failure	Fuse Cutout Was Replaced
								Fuse Link Failure-Wind/Rain Storm	Transformer Fuse Replaced
4	112W44	1.25	CUMBERLAND	2253	9	89.40	201417	Fuse Link Failure	Transformer Fuse Replaced
								Fuse Link Failure	Transformer Fuse Replaced
								Fuse Link Failure-Wind Storm	Line Fuse Replaced
								Primary Conductor Tie Failure	Conductor Tie Was Replaced and Line Fuses Replaced
								Substation Transformer Protective Relay Operated	Circuits Were Restored to Normal Operation
								Fuse Cutout Failure	Fuse Cutout Was Replaced
								Fuse Cutout Door Failure	Fuse Cutout Was Replaced
								Fuse Cutout Failure	Fuse Cutout Was Replaced
								Vehicle Pole Accident	Damaged Equipment Was Replaced and Line Fuses Replaced

Narragansett Electric Company
 Capital District
 Feeder Rankings
 4 th Quarter: October 2004-December 2004

Rank	Feeder	Freq.	Cities/Towns Served	No. of Customers	No of Events	Average Duration	Total Customer Mins.	Causes	Corrective Actions
5	112W41	1.19	LINCOLN WOONSOCKET CUMBERLAND NORTH SMITHFIELD	3516	7	127.01	446574	Squirrel	Transformer Fuse Replaced
								Fuse Link Failure-Wind Storm	Transformer Fuse Replaced
								Squirrel	Transformer Fuse Replaced
								Squirrel	Transformer Fuse Replaced
								Primary Conductor Failure	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
								Substation Transformer Protective Relay Operated	Circuits Were Restored to Normal Operation
								Tree Contacted the Primary	Fuse Cutout Was Opened to Allow For Removal of Tree
6	102W51	1.16	CENTRAL FALLS LINCOLN CUMBERLAND	3435	7	31.98	109848	Fuse Cutout Door Failure	Fuse Cutout Was Replaced
								Squirrel	Transformer Fuse Replaced
								Tree Condition	Transformer Fuse Replaced
								Unknown	Circuit Was Patrolled, No Apparent Cause Found
								Transformer Failure	Transformer Was Replaced
								Fuse Link Failure	Transformer Fuse Replaced
								Tree Contacted the Primary	Tree Was Removed and Circuit Was Restored to Normal Operation
7	17W42	1.14	NORTH SMITHFIELD	553	6	85.43	47241	Squirrel	Transformer Fuse Replaced
								Fuse Cutout Failure	Fuse Cutout Was Replaced
								Protective Relay Operated During Switching	Switching Was Completed and Circuit Was Restored to Normal Operation
								Squirrel	Transformer Fuse Replaced
								Fuse Link Failure-Wind Storm	Line Fuse Replaced
								Squirrel	Line Fuse Replaced
8	148J7	1.10	PAWTUCKET	1077	1	114.43	123240	Primary Aerial Cable Failure	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
9	108W63	1.10	WOONSOCKET CUMBERLAND	3905	5	139.29	543916	Squirrel	Transformer Fuse Replaced
								Fuse Link Failure	Transformer Fuse Replaced
								Underground Cable Fused Elbow Failure	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
								Underground Cable Failure	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
								Flooded Manhole Dislodged Underground Vacuum Switch	Condition Was Corrected and Circuit Was Restored to Normal Operation
10	38F1	1.07	GLOCESTER SMITHFIELD JOHNSTON	3086	6	49.42	152501	Vehicle Pole Accident	Line Fuses Replaced
								Squirrel	Riser Pole Fuse Replaced
								Fuse Link Failure-Wind Storm	Transformer Fuse Replaced
								Tree Damaged a Crossarm	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
								Fuse Link Failure-Wind/Rain Storm	Transformer Fuse Replaced
								Fuse Link Failure	Transformer Fuse Replaced
11	127W41	1.01	BURRILLVILLE	1671	3	16.95	28319	Tree Contacted the Primary	Transformer Fuse Replaced
								Vehicle Pole Accident	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
								Squirrel	Animal Guard Installed and Transformer Fuse Replaced

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Certificate of Service

I hereby certify on the 21st of January 2005, that a copy of the cover letter and / or any materials accompanying this certificate has been mailed or hand-delivered to the parties listed below.



Joanne M. Scanlon
The Narragansett Electric Company

**Narragansett Electric Company – Distribution Rate Plan Stipulation & Settlement
– Docket 3617 - Service List as of 09/14/04**

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