



Orange and Rockland Utilities, Inc.  
500 Route 208  
Monroe NY 10950-9986  
www.oru.com

04-E-0822  
OGC  
DETE  
Report

March 31, 2007

Ms. Jaelyn A. Brillling  
Secretary  
State of New York  
Department of Public Service  
Three Empire State Plaza  
Albany, New York 12223

RECEIVED  
PUBLIC SERVICE  
COMMISSION  
OS/EC-FILES-ALBANY  
2007 MAR 30 PM 1:43

Dear Ms. Brillling,

In accordance with provisions of Case 27605 (N.Y.C.R.R. Section 84.3 Right of Way Maintenance Program Activities) and PSC Order 04-E-0822, we submit the 2006 Annual Maintenance Summary and the Proposed 2007 Right of Way maintenance plan.

The compiled data includes a spreadsheet of scheduled, as well as unscheduled, maintenance activities on the rights of ways covering transmission voltages ranging from 34.5kV to 500kV. Also included is a summary listing of the type and quantities of herbicide that were applied during the year, the 2006 Transmission Outage Summary, and the 2006 Danger Tree Work Summary as required in the PSC Order 04-E-0822.

Referring to the spreadsheet, the line identified as the "System Wide Treated Acreage by Type" represents the number of acres treated per vegetation management type. The exceptions are the summed data below the columns identified as the "Tree Removals", and the "Side Trims". The column units are in "per tree" and "per foot". The line identified as the "Average Cost by Treatment Type" is zero because of the unit price per acre which is all-inclusive.

We will be contacting Staff in the near future to schedule our annual field review. The effectiveness of our 2006 treatment will be assessed at that time.

If you require additional information concerning the attached information, please contact me at (845) 783-5472.

Sincerely,

Mark J. Beamish  
System Arborist  
Electric Operations  
Orange and Rockland Utilities

Attachments

cc: M. Sniffen  
K. Still  
J. Carley  
D. Morrell, NYPSC  
D. May, NYPSC



# Orange and Rockland Utilities, Inc.

## 2006 Right-of-Way Maintenance Program Acres Treated by Line and Treatment Type

Description	Voltage kV	Line #	Total Line Acres	Cut Treatment Acres (A)	Cut Only Acres (A*)	Selective Basal Acres (B)	Side Trim Linear Feet (C)	Low Volume Foliar (D*)	Selective Trim Sq Feet (E)	Tree Removals (F)	Mowing Acres (MW)
CUDEBACKVILLE - OTISVILLE - POCATELLO - SHOEMAKE	34.5	00004	74.00	0.00	1.38	0.00	19,900.00	0.00	0.00	15	0.00
WURTSBORO-BLOOMINGBURG-DECKER SWITCH- POCATELLO -SH	34.5	00006	103.20	1.84	7.79	0.00	24,148.00	0.00	0.00	283	0.00
SHOEMAKER - SLATE HILL - WATERLOO - PORT JERV	34.5	00011	225.60	0.00	23.42	0.00	49,079.00	0.00	42.00	1,520	0.00
MIDDLETOWN TAP TO SHOEMAKER	138	00029	4.90	0.00	5.05	0.57	0.00	0.00	0.00	5	0.00
HARINGS CORNER - CRESSKILL	34.5	00042	32.30	0.00	0.00	0.00	0.00	0.00	0.00	11	0.00
LOVETT 138 kV -WEST HAVERSTRAW	138	00054	21.20	0.00	0.23	0.00	0.00	0.00	9,000.00	4	0.23
LOVETT 69 kV - CEDAR SWITCH	69	00055	8.10	0.00	0.06	0.00	0.00	0.00	0.00	0	0.00
SOUTH MAHWAH - FRANKLIN LAKES	69	00057	35.10	0.28	0.73	0.00	150.00	0.00	6,000.00	0	0.00
CLOSTER CRESSKIL	345	00061	5.70	0.00	0.00	0.00	0.00	0.00	0.00	11	0.00
RAMAPO - ROCK TAVERN (SOUTHERN TIER)	345	00077	336.10	6.74	40.32	0.00	50,616.00	8.07	0.00	2,015	0.00
LONG POND SWITCH - DEAN - QUEENSBORO	34.5	00092	14.20	0.00	2.96	0.00	0.00	1.78	0.00	0	0.00
HIGHLAND FALLS - WEST POINT NO.1	34.5	00093	9.30	0.00	1.95	0.00	37.00	0.00	0.00	0	0.00
RAMAPO - BUCHANON (CON ED)	345	00094	114.80	0.00	0.00	0.00	0.00	0.00	0.00	738	0.00
MONROE - BLOOMING GROVE	69	00096	53.90	0.00	4.64	0.00	9,674.00	0.00	2.00	510	0.00
STERLING FOREST - LAKE ROAD	69	00098	47.40	0.00	2.63	0.00	16,500.00	0.00	0.00	238	0.00
STERLING FOREST - HUNT	69	00099	23.70	0.00	1.61	0.00	7,700.00	0.00	0.00	159	0.00
BLOOMING GROVE - MAYBROOK (FRANCHISE LINE)	69	000WM	18.00	0.00	3.56	0.00	5,825.00	0.00	0.00	24	0.00
DECKER SWITCH - BULLVILLE	34.5	00100	47.80	0.00	1.72	0.00	21,570.00	0.00	0.00	132	0.00
SHOEMAKER - EAST WALLKILL	69	00119	31.50	0.00	2.13	0.00	12,300.00	0.00	0.00	47	0.00
SHOEMAKER - SILVER LAKE	34.5	00120	28.90	0.00	2.07	0.00	12,450.00	0.00	0.00	59	0.00
EAST WALLKILL - SILVER LAKE	69	00121	15.60	0.00	3.21	0.00	12,200.00	0.00	0.00	76	0.00
SILVER LAKE - WASHINGTON HEIGHTS	34.5	00122	14.00	0.00	2.41	0.00	8,000.00	0.00	0.00	52	0.00
HARRIMAN - SLOATSBURG	69	00311	148.80	0.00	0.00	0.00	0.00	3.20	0.00	0	0.00
WEST HAVERSTRAW-NEW HEMPSTEAD	138	00530	29.00	0.00	0.18	0.00	0.00	5.54	0.00	4	0.00
CEDAR SWITCH - WEST NYACK	69	00551	42.10	2.40	3.30	0.00	260.00	0.29	18.00	17	0.00
BOWLINE POINT - MINISCEONGO SWITCH	138	00561	21.70	2.25	0.37	0.00	540.00	5.11	0.00	0	0.00
CONGERS - WEST NYACK	138	00562	14.40	0.00	0.00	0.00	1.00	0.00	0.00	7	0.00



**2006 Right-of-Way Maintenance Program Acres Treated by Line and Treatment Type**

Description	Voltage kV	Line #	Total Line Acres	Cut Treatment Acres (A)	Cut Only Acres (A*)	Selective basal Acres (B)	Side Trim Linear Feet (C)	Low Volume Foliar (D*)	Selective Trim Sq Feet (E)	Tree Removals (F)	Mowing Acres (MW)
TALLMAN - BURNS	69	00591	34.60	0.00	0.64	0.00	0.00	0.00	0.00	0	0.00
WEST NYACK - HARINGS CORNER	69	00701	35.80	0.00	0.00	0.00	0.00	0.00	0.00	3	0.00
BURNS - HARINGS CORNER	138	00702	116.00	0.62	0.80	0.00	0.00	0.00	0.00	35	0.00
HARRIMAN - HIGHLAND FALLS	34.5	00841	91.10	5.81	30.18	0.00	3,503.00	0.00	0.00	144	0.00
HARRIMAN - WEST POINT NO. 2	34.5	00851	92.40	3.00	31.24	0.00	11,749.00	0.00	0.00	96	0.00
WEST POINT NO. 2 - HIGHLAND FALLS	34.5	00853	17.70	0.00	0.00	0.00	860.00	0.00	0.00	26	0.00
LAKE ROAD - BLUE LAKE	69	00981	8.30	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00
BLUE LAKE - RINGWOOD	69	00982	13.40	0.00	0.00	0.00	0.00	0.00	0.00	8	0.00
HUNT - WISNER	69	00991	41.90	0.00	0.02	0.00	0.00	0.00	0.00	6	0.00
LADENTOWN - BUCHANON (CON ED)	345	00Y88	53.70	0.00	0.00	0.00	0.00	0.00	0.00	16	0.00
RAMAPO 500 kV - BRANCBURG	500	05018	112.40	0.00	7.64	0.00	12,700.00	0.00	0.00	636	0.00
BOWLINE POINT - LADENTOWN	345	67-68	70.40	0.00	0.00	0.00	0.00	0.00	34.00	16	0.00
RAMAPO - SOUTH MAHWAH 345 kV	345	69-70	48.20	0.00	0.00	0.00	0.00	0.00	0.00	0	0.69
<b>System Wide Treated Units By Type</b>			2,257.20	22.94	182.27	0.57	279,762.00	23.9815,096.00		6,915	0.92
<b>Average Unit Cost By Treatment Type (T&amp;M Only)</b>				\$195.73 per acre	\$66.20 per acre	\$0.00 per acre	\$0.00 per foot	\$0.00 per tree	\$0.32 per acre	\$14.59 per tree	\$1,810.27 per acre
<b>Complete Transmission Maintenance: \$487.00 per acre</b>											
<b>Transmission Mowing Only: \$293.00 per acre</b>											

**2006 Orange and Rockland Utilities Danger Tree Summary**

**Per NYPSC Order 04-E-0822, Item 7**

**Report of Danger Tree work completed during 2006**

<b>LINE NUMBER</b>	<b>NUMBER OF REMOVALS</b>	<b>SIZE OF REMOVALS</b>	<b>PRICE</b>	<b>TOTAL COST</b>
6	6	6"-24"	\$189.00	\$ 1,134.00
93	1	6"-24"	\$189.00	\$ 189.00
96	50	6"-24"	\$189.00	\$ 9,450.00
	3	24"-36"	\$399.00	\$ 1,197.00
100	2	6"-24"	\$189.00	\$ 378.00
122	3	6"-24"	\$189.00	\$ 567.00
841-851	120	6"-24"	\$189.00	\$ 22,680.00
853	2	6"-24"	\$189.00	\$ 378.00
94	667	6"-24"	(Lump Sum Project)	
	82	24"-36"	(Lump Sum Project)	
67-68	25	6"-24"	(Lump Sum Project)	
	14	24"-36"	(Lump Sum Project)	
77	17	6"-24"	(Lump Sum Project)	
	6	24"-36"	(Lump Sum Project)	\$ 135,000.00
Totals - Without lump-sum project	187			\$ 35,973.00
Totals - With lump-sum project	998			\$ 170,973.00

NOTE - The lump sum removal project was a one-time concentrated effort to address off-ROW danger trees on the Con-Ed system that runs through the O&R service territory. This lump-sum project totaled \$135,000 dollars. Non-lump sum 2006 O&R Danger Tree work totaled \$35,873, and removed 187 trees.

**Orange and Rockland Utilities - Vegetation Management Department**

**Per PSC Order 04-E-0822, Item 8:**

**Report of Vegetation-Caused Outages on Transmission Lines 69KV and higher voltages, except for qualified storm outages.**

**For Year 2006:**

**REPORTABLE Vegetation-caused Transmission Outages.**

	Date	Line Number	Line Voltage	Pole/Tower Number	On/Off ROW	Tree Specie	Tree Height	Tree Condition	Distance from Conductor to Tree Base	Slope	Weather	Failure Cause
1	5/12/2006	96	69	88-89	On	Poplar	45	Healthy	24'	No	Windy	Tree snapped
Comments: On ROW tree, on Line that was currently undergoing the maintenance program, broke in half during high wind. Snapped top made contact with conductor.												
2	7/23/2006	561	138	125-126	Off	White Pine	60	Healthy	20'	No	Hot	Tree uprooted
Comments: Off ROW white pine uprooted and leaned towards conductor. Tree did not touch conductor, but close enough to cause arcing.												

## 2006 RIGHT-OF-WAY CHEMICAL USAGE SUMMARY

	<u>Total Mixed GALLONS USED</u>
ACCORD/ARSENAL/ESCORT LOW VOLUME FOLIAR	158.30
~ ACCORD EPA # 62719-324	
~ ARSENAL EPA # 241-346	
~ ESCORT EPA # 352-439	
PATHFINDER II CUT STUMP TREATMENT	33.87
EPA # 62719-176	
GARLON 4 CUT STUMP TREATMENT	12.16
EPA # 62719-40	
<b>TOTAL GALLONS</b>	<u><u>204.33</u></u>

**PROPOSED 2007 RIGHT-OF-WAY MAINTENANCE SCHEDULE  
LISTED BY LINE NUMBER AND TREATMENT TECHNIQUE**

DESCRIPTION SUBSTATION TO SUBSTATION	LINE#	VOLT KV	TOTAL LINE ACREAGE	CUT TREATMENT ACRES (A)	CUT ONLY (A*)	SELECTIVE BASAL ACRES (B)	SIDE-TRIM LINEAR FT (C)	SELECTIVE FOLIAR ACRES (D)	SELECTIVE TRIM SQ FT (E)	TREE REMOVALS (F)	LOW VOLUME FOLIAR (D*)
W. Haverstraw to NY Trap Rock	39	34.5	25.00	X	X		X		X	X	X
Lovett to NY Trap Rock	40	34.5	1.20	X	X		X		X	X	X
Harings Corners to Cresskill	42	34.5	32.30	X	X		X		X	X	X
Pearl River to Harings Corners	45*	34.5	28.50	X	X		X		X	X	X
Harings Corners to Closter	46	69	29.30	X	X		X		X	X	X
Burns to Nanuet	49	69	14.40	X	X		X		X	X	X
Burns to Pearl River	50	34.5	24.20	X	X		X		X	X	X
Lovett to W. Haverstraw	53	138	21.90	X	X		X		X	X	X
Lovett to W. Haverstraw	54	138	21.90	X	X		X		X	X	X
S. Mahwah to Franklin Lakes	57	69	42.40	X	X		X		X	X	X
S. Mahwah to Franklin Lakes	58	69	38.40	X	X		X		X	X	X
Hillburn to Tallman	59	69	21.00	X	X		X		X	X	X
Ramapo to Monsey	60	138	48.90	X	X		X		X	X	X
Closter to Cresskill	61	34.5	5.70	X	X		X		X	X	X
W. Nyack to Aluf Switch	75	69	29.00	X	X		X		X	X	X
Nanuet to Pearl River	491*	69	15.00	X	X		X		X	X	X
W. Haverstraw to New Hempstead	530	138	22.60	X	X		X		X	X	X
W. Haverstraw to Burns	541	138	42.10	X	X		X		X	X	X
Cedar Switch to W. Nyack	551	69	48.00	X	X		X		X	X	X
Minisceongo Switch to Congers	561	138	25.20	X	X		X		X	X	X
Congers to W. Nyack	562	138	17.70	X	X		X		X	X	X
Burns to Tallman	591	69	37.50	X	X		X		X	X	X
Burns to Monsey	601	138	17.70	X	X		X		X	X	X
S. Mahwah to Upper Saddle River	652	69	31.60	X	X		X		X	X	X
Upper Saddle River to Grand Ave	654	69	24.00	X	X		X		X	X	X
Grand Ave to Montvale	656	69	25.80	X	X		X		X	X	X
Montvale to Harings Corners	658	69	23.50	X	X		X		X	X	X
W. Nyack to Harings Corners	701*	69	42.99	X	X		X		X	X	X
Burns to Harings Corners	702*	138	111.17	X	X		X		X	X	X
Aluf Switch to Rockland County Sewer	749	69	8.20	X	X		X		X	X	X
Rockland County Sewer to Sparkill	750	69	14.70	X	X		X		X	X	X

**PROPOSED 2007 RIGHT-OF-WAY MAINTENANCE SCHEDULE  
LISTED BY LINE NUMBER AND TREATMENT TECHNIQUE**

DESCRIPTION SUBSTATION TO SUBSTATION	LINE#	VOLT KV	TOTAL LINE ACREAGE	CUT TREATMENT ACRES (A)	CUT ONLY (A*)	SELECTIVE BASAL ACRES (B)	SIDE-TRIM LINEAR FT (C)	SELECTIVE FOLIAR ACRES (D)	SELECTIVE TRIM SQ FT (E)	TREE REMOVALS (F)	LOW VOLUME FOLIAR (D*)
Sparkill to Closter	751*	69	19.50	X	X		X		X	X	X
Wisner to Hunt	991	69	41.90	X	X		X		X	X	X
Sugarloaf to Wisner	993	69	65.30	X	X		X		X	X	X
Shoemaker to Westtown	11 part1	69	127.30	X	X		X		X	X	X
Ramapo to Buchanan	94*	345	105.50	X	X		X		X	X	X
Ramapo to Ladentown	W/72*	345	38.70	X	X		X		X	X	X
Ladentown to Buchanan	Y/88*	345	65.50	X	X		X		X	X	X
Ramapo to S. Mahwah	69/70*	345	64.40	X	X		X		X	X	X

\* FERC IDENTIFIED CRITICAL LINE