ORLANDO UTILITIES COMMISSION



CALENDAR 2015 STORM HARDENING REPORT

PURSUANT TO FLORIDA PUBLIC SERVICE COMMISSION RULE 25-6.0343

Orlando Utilities Commission Florida Public Service Commission Pursuant to Rule 25-6.0343, F.A.C. Calendar Year 2015

1) Introduction

City of Orlando, Orlando Utilities Commission

500 S. Orange Avenue, Orlando FL 32801

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2) Number of meters served in calendar year 2015

Orlando Utilities Commission served 228,421 electric meters in the Cities of Orlando and St. Cloud and surrounding Orange and Osceola counties as of December 31, 2015.

3) Standards of Construction

a) National Electric Safety Code Compliance

The Orlando Utilities Commission (OUC) complies with the construction standards, policies, guidelines, practices, and procedures directed within the National Electrical Safety Code (ANSI C-2) [NESC]. For electrical facilities constructed on or after February 1, 2007, the 2007 NESC applies. The edition of the NESC in effect at the time of the facility's initial construction governs electrical facilities constructed prior to February 1, 2007.

b) Extreme Wind Loading Standards

Construction standards, policies, guidelines, practices, and procedures at the Orlando Utilities Commission are guided by the extreme wind loading standards specified by Figure 250-2(d) of the 2002 edition of the NESC for 1) new construction; 2) major

planned work, including expansion, rebuild, or relocation of existing facilities, assigned on or after December 10, 2006; and 3) targeted critical infrastructure facilities and major thoroughfares.

OUC has verified that all future construction will meet the NESC requirements with particular focus on the extreme wind loading standards.

c) Flooding and Storm Surges

The Orlando Utilities Commission service area is in the middle of Florida. Therefore, flooding and storm surges do not apply.

d) Safe and Efficient Access of New and Replacement Distribution Facilities

Electrical construction standards, policies, guidelines, practices, and procedures at OUC provide for placement of new and replacement distribution facilities so as to facilitate safe and efficient access for installation and maintenance.

Since the 1980's, Orlando Utilities has been installing underground and overhead distribution along property frontage corridors. This gives efficient and safer access to these facilities. OUC provides vegetation maintenance and replacement of aged equipment to ensure an efficient, safe, & robust system for all OUC facilities including existing rear lot installations.

e) Attachments by Others

Electrical construction standards, policies, guidelines, practices, and procedures at the Orlando Utilities Commission include contractual agreement to enable attachment by others. These contracts state that attachments must adhere to the guidelines of the NESC and all governmental authorities that have jurisdiction.

4. Facility Inspections

a) Policies, guidelines, practices, and procedures for inspecting transmission and distribution lines, poles, and structures.

Summary

Orlando Utilities Commission (OUC) has maintained an active pole inspection and replacement program with records dating back to 1990. We currently uphold an eight-year quadrant based inspection cycle along with annual inspections targeting essential distribution and transmission equipment. Shared transmission structures are inspected and maintained by OUC based on past inspection date.

Distribution and Transmission pole inspection replacements are tracked through an existing maintenance work order database to insure timely replacement.

Inspection Procedures

Visual inspection shall be made of all poles from the ground line to the top before any other inspection. Visual inspection shall include: type of wood, original treatment, circumference, age of pole (if it can be determined), height, obvious splits, woodpecker holes, and any other physical damages to the pole. Also a visual check within the limitations of the inspector's expertise, is to be made at such time of the attachments to the pole being inspected for obvious conditions that appear improper, such as slack guy wires, slack overhead conductors, broken insulators, leaking transformers, missing guy guards, rotten cross arms, loose or faulty equipment, abandoned poles, etc.

Excavation

Earth shall be removed from the entire circumference of the pole to a minimum depth of 18 inches below ground line. Width of the hole shall be 4 inches clearance for the pole surface at the bottom and 10 inches at the ground line.

Poles with electric risers should not be excavated, but should be inspected by sounding, bored and fumigated.

Sounding and Boring

The pole must be sounded from the ground line to a minimum of six feet above the ground line. Sounding shall be done on all four sides of the pole to locate any shell rot or rot pockets on the side.

Sounding shall be done with an approved hammer that leaves a distinctive hammer pattern. If there is evidence of possible interior voids or rot, at least one boring shall be made where a void is indicated. If rot or voids are detected, several borings shall be made per rot or void location and a shell gauge shall be used to determine the extent of all voids or rot. In any event at least two borings shall be made at the ground line to check for rot.

Poles set in concrete or pavement shall be bored at least twice at opposite sides at the ground line down at a 45-degree angle into the pole and the boring sample checked for rot or voids.

Removal of Exterior Decay

All exterior decay must be removed where possible, from 18 inches below the ground line to 3 inches above ground line. The rotted wood is to be removed from the premises and deposed of in a proper manner.

Evaluation of Pole Condition

After the sounding and boring has been performed and all exterior decay has been removed, the effective circumference of the pole, from 18 inches below the ground line to 15 inches above the ground line, is to be determined.

Internal Treatment

All sound poles are internally treated if any specific voids of specific internal decay pockets are found. This should involve a sufficient number of bored 3/8 inch holes and the preservative is applied under at least 50 psi of pressure. Internal pole treatment also utilizes MITC-Fume or and OUC approved fumigant.

Ground Line Treatment

All poles not previously rejected are covered from 18 inches below the ground line to 3 inches above the ground line by an OUC approved preservative and moisture barrier film. Preservative treatment penetrates a minimum of two inches into the pole. Long-term treatment retention studies are kept to assure future review and results. b) Number and percentage of transmission and distribution inspections planned and completed for 2015.

	Distribut	tion and Tra	nsmission P	lanned Inspect	ions
Year	Total System Poles	Planned Inspection	Planned Percentage of System	Inspection Completed	Completed Percentage of System
2015	50915	6400	12%	6758	13%
2014	50582	6400	12%	6410	13%
2013	50721	6400	12%	6415	55 5 13% X4 E
2012	50804	6400	12%	6400	12%
2011	50938	6400	12%	6730	13%
2010	51142	6400	12%	6534	13%
2009	51435	6400	12%	6411	12%
2008	51114	6400	12%	6124	12%
2007	50536	6400	12.5%	8124	16%

c) Number and percentage of transmission and distribution poles / structures failing inspection and the reason for the failure.

	Poles Failing Inspection										
	Percentage of Inspection Failure	Total Inspected Poles Failing Inspection									
2015	1.3%	97									
2014	2.3%	145									
2013	5.5%	352									
2012	6.2%	396									
2011	8.9 %	600									
2010	9.8 %	642									
2009	4.4%	280									
2008	3.0 %	189									

A detailed report with pole failure causes is attached.

Attachment 1: (OUC 2015 Pole Report.xls)

d) Number and percentage of transmission poles and structures and distribution poles, by pole type and class of structure, replaced or for which remediation was taken after inspection, including a description of the remediation taken.

		Poles nee	eding Remedia	ation	-
Year	Total Inspection Poles Failing Inspection	Priority Replacement (Complete)	Restoration (Complete) C-Truss	Work Orders Generated for Replacement	Work Orders Completed
2015	97	15	9- Pending	73	18 (18 (18 (18 (18 (18 (18 (18 (18 (18 (
2014	145	2	3	140	479
2013	352	5	56	296	282
2012	396	8	10	386	456
2011	600	2	66	532	267
2010	642	7	121	514	435
2009	280	4	66	210	208
2008	189	9	82	98	98
2007	226	1	81	144	144
2006	208	10	146	52	52

A total of (97) ninety seven poles failed inspection criteria, (15) fifteen poles deemed priority replacement, (8) eight are completed. There are (9) nine poles which restoration was deemed necessary using a reinforcing truss, which will be completed in the first quarter of 2016. The remaining (73) seventy three poles are in progress of being generated for replacement in 2016 and 2017.

A detailed report denoting the type and class structure is attached.

Attachment 1: (OUC 2015 Pole Report.xls)

5. Vegetation Management

a) Utility's policies, guidelines, practices, and procedures for vegetation management, including programs addressing appropriate planting, landscaping, and problem tree removal practices for vegetation management outside of road right-of-ways or easements, and an explanation as to why the utility believes its vegetation management practices are sufficient.

Maintenance Guidelines and Procedures

The Orlando Utilities Commission (OUC) provides essential electrical service closely tied to our communities' safety, economy and welfare. In delivering reliable electrical service OUC manages the vegetation for approximately 1261 miles of overhead distribution lines and 200 miles of transmission lines within Orange and Osceola Counties. Vegetation line clearance of distribution facilities are trimmed on a four year maintenance cycle. Transmission right of ways' are maintained in two sub-divided regions, urban right of way's on an annual cycle, and rural on a three year cycle. Measures to insure our vegetation program is sufficient and remains on schedule, comprise of annual inspections of the distribution and transmission system.

OUC follows pruning and safety methods outlined in American National Standards Institute A300 and Z133.1. A four-year maintenance cycle of distribution facilities anticipates an average annual growth of 2.5 feet. Trees in close proximity of distribution facilities are trimmed to a minimum distance of 10 feet clearance from energized un-insulated conductors. Fast growing invasive species are targeted for removal during distribution pruning. This proactive measure relieves future trimming requirements and insures clearances within the cycle will be maintained.

The distribution four year cycle is divided into 198 distribution segments reviewed on a quarterly basis. The review is used to make adjustments to crew resources to remain on cycle. OUC currently procures vegetation maintenance labor and equipment through a contract with Davey Tree Experts. The contract comprises twelve to twenty production line trimming crews used in distribution and transmission line clearance.

Vegetation pruning requests are tracked using an internal CIS system available in the distribution operations, customer service and construction and maintenance area. Requests generated from a system outage are either trimmed immediately or given a work order priority for completion. The general foreman provides additional feedback if additional area trimming is needed.

Appropriate Planting

OUC outlines appropriate planting through educational information presented by the Central Florida Urban Forestry Council. The council presents a theme "Right Tree in the Right Place" to insure proper distance between trees and power lines. By practicing proper planting our goals to insure safety, reliability and lowered maintenance costs become factors which all of our customers benefit.

Vegetation located outside of the right of way is pruned to a distance 10' from energized conductors. The "Right Tree Right Place" concept is reviewed in cases where removals may become prudent. OUC annually sponsors tree planting events during Arbor Day to promote proper planting.

Measures to insure Sufficient Vegetation Management

OUC has applied a Reliability Centered Maintenance (RCM) approach from NFPA 70B to assure our vegetation management practices area sufficient. An annual inspection of all main feeder distribution lines is conducted to survey acceptable clearances in distribution system throughout the four-year treatment plan. The RCM inspections document vegetation to conductor distances with less than one year's anticipated growth (2.5'). Vegetation work orders are generated and completed during a seasonal non-peak times frame to insure electrical system is fully prepared for the Florida summer storm season.

Two measures are used to verify sufficient vegetation management in our maintenance cycle.

- a. The documented number of RCM clearances are compared against the trim cycle order. (A circuit about to be trimmed is expected to have more areas of clearance)
- b. Outage management system (OMS) indices relating to sustained and momentary outages are also compared to the trim cycle order.

Example: Sufficient Vegetation Management

Reliability Centered Maintenance Inspections (RCM) a. Distribution Vegetation Maintenance Management Schedule Four Year Treatment Cycle Lat mixed (2012011) The Reliable One Line Segment Cercuit Number Work Scheduled Track Track Men Track Track Men Blabbe Bedget Production Track Track Men Blabbe Bedget

b) Quantity, level, and scope of vegetation management planned and completed for transmission and distribution facilities.

Annual Plan

The 2015 annual budget for Distribution and Transmission Vegetation management was approximately three million dollars and will remain consistent for 2016. OUC plans to continue with treatment of 321 miles of distribution line clearance and 107 miles of transmission ROW to remain on established cycles. Treatment of distribution line clearance will consist of bucket and rear lot climbing crews. Treatment of the transmission rural corridors, conducted on a three-year cycle, maintained using a combination of integrated vegetation management (IVM). Transmission urban corridors are maintained annually with a more traditional pruning and removal maintenance methods.

^{*} OUC's Transmission Vegetation Management Plan (TVMP) allows until May 30th 2015 for completion.

	Vegetation Treatment											
Year	Total Sys	tribution tem Miles 1261 ear Cycle)	Transmission Total System Miles 213 (Urban-Annual, Rural 3 Year Cycle)									
	Planned	Completed	Planned	Completed								
2015	335	100%	PROJES 88 86-886	100%								
2014	328	100%	99 (100)	100%								
2013	287	100%	107	100%								
2012	332	100%	127	100%								
2011	312	100%	107	100%								
2010	329	100%	99	100%								
2009	328	100%	105	100%								
2008	330	100%	99	100%								
2007	330	100%	114	100%								

2015 Distribution Maintenance Schedule

Work Completed

	oution Vegetation Sear Treatment Cyc		nce Mana		edule ant revised 2/28/20	16 wz	wżanom	n@auc.com			The Relia	
Line legment	Circuit Number Location		cheduled	Quality Control			sts Based on Gif				Variance	RCM Wor Performin
	GIS 6/30/12	Initiated Cate	Completion Date		Circuit Total Mile	Line Non Truck Ac	etted oos Truck	Non Billable Miles	Budget Production Cost	Actual Production Cost	Actual / Budget	
		=		Cycle Treatme								
First Ou	serter - October / December	alkarake v.	a a strong area	(OGL 20	14, to Sep	tember 2015)	Acres (inchalt.		
80	2-24 Oriendo	Ad-14 Des-14	Feb-15	7	11.87	4.43	7,44		\$55.249.05 \$9,365.94	#REFI	#REFI	6"
81 62	30-22 Ortendo 16-22 Ortendo	h4-14	Dec-14 Dec-14 Dec-14		1.34 9.92	1.18 5.93	0.16 3.90	0.50	\$56,424.90	#REFI	#REFI	
63	14-15 Orlando	Dep-14 Aug-14	Dec-14 Oct-14		1.10	0.22 5.84	88.0	0.13	\$4,243.14 \$69,188.75	#REF!	#REF	
54 55 58	19-22 Orlando 27-221, 27-233 St. Cloud 11-41 Orlando	May-14 Dep-14	Oct-14 Aug-14 Feb-15		17,48 8.98	2.87	14.58 7.36	0.41	\$56,957.76 \$33,676.72	REFI REFI	#REF!	7
57 58	5-24 Oriendo	Dec-14	Dec-14 Dec-14		1.59	1.80 0.49	0.70		\$6,750.01	IREFI IREFI	#REF!	
50	21-24 Orlando	Ave-14 Ave-14	Aug-14 Feb-15		1.36	1.97 0.01	6.88 1.35		\$35,058.30 \$4,040.34	REF	MEF!	
80 81	3-24 Orlando 14-34 Orlando	Aug-14 Dec-14	Peb-10 Dao-14		1,50	3.49 0.50	1,20	0.84	\$59,909.42 \$5,786.10	RREF!	解症的 解症的	
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Second 82	Quarter - January / March	TO THE RESERVE OF	Mar-18	Service Services	740	1 139 1	5.80	0.45	\$28,270.34	epce)	and c	8°
53	28-214, 28-221, 28-222 St. Cloud	Jen-15	Apr-16	Outback Refusel - 1 Ling	38.63	7.88	30,65	0.02	\$130,233.16 \$11,714,81	#REF!	SREF!	
84 85	30-22, 30-36 Orlando 33-211 St. Cicud	Jan-15 Jan-15	Jan-15 Jan-16	Dago	2.03 4.94	1.25 0.32	9.78 4.62	0.68	\$13,916.72	#REF	#REF!	
87	9-33 Orlando 12-18, 12-84 Orlando	Jan-15 Jan-16	Mer-15 Jan-16	Sem	4.84 7.44	2.05	3,39 5,39	0.89	\$17,118.48 \$31,285,38	SPEF!	REF!	
80	21-25 Orlando	Jan-15	Jan-15	Dago Sam/Jose	1,58 5,00	0.18 1.09	1.40	0.69	\$5,408.82	INCE!	AREF)	The same of
70	4-22 Orlando	Jan-15 Jan-15	Jan-15 Mar-15 Fab-15	-	8.72	9.79 3.03	5.98 1.71	0.00	\$19,701,16 \$23,372,22	#REF!	PREF!	
71	8-311 Orlando 5-16 Orlando	Jen-15 Jen-15	Jan-16 Jan-15	Dago Dago	1,81	3.93 1.49	0,13		\$27,885,44 \$11,539,68	SPEF!	IPLEF!	
73	19-12, 19-24 Orlando 14-31 Orlando	Jen-15 Jen-15	Jan-15 Feb-15	Dago #	4.80	3,61 0,70	1,05	0.98	\$30,123,42 \$6,361.15	#REF!	#REF!	
75 76	14-33, 14-43 Orlando	Jan-15	Jan-15	Dago	3.46 1.80	2 26	1.24		\$20,504,83	#REF	erer)	
76	5-13, 5-43 Oriendo Quarterly Total Mileage	Jan-15	Jan-15	Dago	96.94	27.70	88.15	2.69 7.04	\$10,078.47 \$387,863.55	#REF!	PREF)	
Thir	ri Quarter - April / June	1. H	to a structure was true.	Service States		T ale at a second						
77	1-42 Orlando	Feb-15	Feb-16		4.94 1,98	9.03	4.31 1.96	0.01	\$12,884,64 \$6,788,52	REF	#REF!	7
79	1-42 Origando 14-12 Origando 35-25 Origando	Feb-15 Feb-15	Feb-15 Am-15		11.77		11,77	0.74	\$34,588.49 \$28,397,82	(REF)	IREF!	
80	2-332 Orlando 3-13 Orlando	Feb-15 Feb-15 Feb-15 Feb-15	Jun-15 Mar-15 May-16	- 4	5,36 8,83	2.76 5.74	3.09	0.19	\$28,397,82 \$62,349,19	SREF!	#REF!	
82	1-21 Orlando	Feb-15	Feb-15 May-15		9.89 8.87	1.55	0.30 7.32		\$861.10 \$33,184,29	REF!	研究 医疗性	
34	21-22 Orlando	Feb-15	Apr-15 Mar-15	N N	0.30	0.26	0.11 0.48	0.01 1,37	\$2,433.99	IREF!	朝在FI 新在FI	
86	29-224 St. Cloud 32-221 St. Cloud	Feb-15 Mm-15 Feb-15	May-15	efusels on Tyeon Rd t	0.48 23.81	6.85	16.98		\$1,230.72 \$87,818.64	REF!	新花門 新花門	
87	8-12 Orlando 8-11 Orlando	Apr-15 Apr-15	Apr-15 Apr-15		2.09	1.79	1.66 0.96		\$6,025.15 \$16,314,33	IREF!	#REF!	
80	8-14 Orlando	NON BILLABLE	NON BILLABLE		0.00	0.06	0.26	0.03	\$0,00 \$1,140,57	新EF1	REF!	
91	14-11, 14-42 Orlando	Apr-15	Apr-15		2.39	1.91	0.48		\$15,800,26	(REF)	都代记户)	
92 93	11-42 Orlando	Apr-15 Feb-15	Apr-15 Apr-15		0.84 2.46	0.80	2.19	1.27	\$4,640.66	SPEF!	#REF!	
	Quarterly Total Mileage				78.74	22	\$4.52	6.43	\$313,827,76	#REF!		
(1)(1)	kuarter - July / September	5 to #	· 人名英格兰	Section Section								
94	21-35 Oriendo 27-211 St. Cloud	Apr-15 Apr-15	Apr-15 Opt-15		0.36 37.74	0.03 17.82	0,33 20,22		\$1,195,38 \$185,233.52	無手	SREF SREF	
96	14-32 Orjando	Apr-18	May-15		12.03	2.90	9.13	0.74	\$48,677,91 \$0,00	AL P	SREF!	
98	35-13 Oriendo	Jun-18	Jun-18		0.63	0.03	0.60	0.61	\$1,986.37	(REF)	#REF!	
100	19-13 Oriendo	Jun-15	Jul-15		0,00 11,49	2.27	9.22		\$44,192.67		SREF!	
101	11-11 Orlando 4-14 Orlando	Apr-15 May-16	Apr-15 Sep-15		10.70	8.81	0,88 5.30	1,20	\$2,584,56 \$55,862,52	(RCEF)	#REF	5
103	19-12, 19-21 Oriendo	Sep-15	Sep-15	- 4	U.60	0.A7	0.39	0.30 1.17	\$4,688.78	aner)	国际	5
105	14-43 Oriendo 8-321 Oriendo	Jun-15 Aug-15	Jun-15 Sep-16		1,28 1,87	0,64	1,16	2.88	\$8,704.64 \$7,297.85	網接 戶	新EF!	
	Annual Total Miles				334.82	109.03	47.95 225.79	21.34	\$338,426.16 \$1,414,559.99	#REFI		28
	Variance Amount		1011 1111		007.74	100.00	and to	21.04	71/717/008.88	BACK!		

2016 Distribution Maintenance Schedule Work Plan

	oution Veget 'ear Treatmer			nce Mana	gement Sci	pedule							The Reliable One		
Line	Circuit Number	Location		cheduled	Quality Control	Last revised 2/25/2016		d Costs Be	sad on GIS	Mileage			Variance	RCM Worn Performin Feedors	
	G88 8/30/12		Initiated Date	Completion Date		Circuit Total Miles	Mon Truck	Limited Acces	Truck	Non Billable Miles	Budget Production Cost	Actual Production Cost	Actual / Budget		
				Fis	Cyccal Year 2016.	cie Treatmer			r 2016)	7					
First Qu	arter - October / Dece	mber	77/0		The Man					Partie.				(0)	
108	2-23	Orlando	_Jun-15	Jan-18		15.06	4.20		11.46	0.18	865,321.62	SREFI	#REFI	15	
107	21-21	Oriendo	Sep-15	Oct-16		2.03	0.07		1.96		\$6,284,25	(REF)	SPREE!		
108	3-33 18-24	Orlando Orlando	Jul-15 Jun-15	Jan-18 Oct-15		10,47 2,42	4.08		1.62	0.78	\$49,526.55 \$10,789.14	AREFI	SREF!	-	
110	12-32	Orlando	Sep-15		90%	9.76	4.85		4.90	-	\$50,955.45	#REF!	#REFI		
111	18-33	Orlando	Jan-18	Feb-18		2.57	0.30		2.37	0.02	\$9,222.59	SREF!	SPEET!		
112	18-23	Ortendo Ortendo	Jan-16	Feb-18 Feb-18		9.05	3.08		1.25	0.44	\$40,784.01 \$15,809.04	SREP SREP	AREFI		
114	19-94	Orlando	Jan-16	Feb-18		1.92	1,82		7.10	0.10	\$34,673.86	PREFI	#REF		
115	4-23	Oriendo	Nov-15		90%.	9.31	4.00		5.31		\$45,761.47	SPEET!	#REF!		
116	2-43 4-11	Orlando	Jan-18 Jan-16	Jan-15	70%.	9,43 4,27	3.12		5.31 2.74	The local	\$39,117.15 \$19,582.06	SREF)	#REF!		
117	Courterly Total Mileage	Qrimingo	46710	n#u-10		86.84	1.53 29,46		84.34	2.11	\$367,667.00	SREF!	arcer:	_	
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118	5-24	Ortendo	Jan-16	Feb-16	L/G-SERVICE/OBL	4.08	2.23		1.80		\$22,524,74	MEFI	#REF!	3	
119	32-11	St. Chud				0.61	0.04		9.47	2.32	\$1,463.96	#REF!	SREFI		
120	28-212, 28-222, 23-223	St. Cloud	Feb-16		20%.	48.48	13.82		34.66	3,13	\$178,311.28	#REFI	SREF!		
121	18-12 18-44	Orlando Orlando	Feb-18 Feb-18		20%	7.11	3.12 0.62	12/2 DATE:	3.99	THE RESERVE	\$35,240.51 \$15,462,00	#REPI	REF		
123	12-24	Orlando	Jan-18		85%.	7.14	2.83		4.31		\$33,993.84	新EFI 新EFI	#REFI		
124	2-94, 14-32	Origindo	Feb-16		40%.	4.79	1.12		3.67	0.87	\$19,222.47	AREF!	#REF!	Name of Street	
125	5-21 36-21	Oriendo Oriendo	Feb-16 Jan-16	Feb-15 Jan-18		1.29 7 31	0.59		9.76 6.48	100	\$6,227,79 \$29,891,13	MED SREP	REFI		
127	12-28, 12-34	Orlando	Jan-16	Jan-16		5.04	1,83		3.21		\$23,224.14	SPEFI	#REF		
	Quarterly Total Mileage					80.19	27.90		82.29	8.32	\$365,361.72	REFI			
Thir	d Quarter - April / Jun	■ 1 85 ·	Enter-				1 1 1 1						CAL-EST		
128	36-12	Orlando				76,77 7.20	11.57		88,20	1.82	\$278,718,63	(REF)	#REF		
120	14-13	Ortantio Ortantio				7.20	3.50				\$36,127,78	(REF)	AREF!		
130	20-31 18-14	Orlando				1,95 0.28	0.63	-	1.42 0.26	0.01	\$8,166,21 \$763,62	REFI	#REFI	-	
132	6-322	Orlando				1,24	0.39		0.85	2.78	\$5,435,68	#REFI	SP(EF)		
133	37 10	St. Cloud				0,00	100				\$0.00	#REF!	MREF		
109	19-23 Quarterly Total Missage	Ortando		L		1.87	1.87		71.24	4.39	\$14,007 83	銀REF1	網門		
	Juanter - July / Septem	Carlo Comme		STATE OF	profession Sant Establish	A STATE OF THE REAL PROPERTY.	Dath of L	S 46	A Dela		Appendix of the	TOTAL -	A CONTRACTOR	100	
Sp. (m. segs	CANADA SERVICE AND PROPERTY OF THE PERSON NAMED IN COLUMN TWO PERSONS NAMED IN COLUMN TO PERSON	STATE OF THE PARTY OF			GENERAL PROPERTY.	ALC: NO SERVICE		DESIGNATION OF THE PARTY OF THE			Salara Salara			E. 12.5	
135	27-225, 27-232	St. Cloud				11.43	2.11	200 CT 1	9.32	- 4	\$37,552,40	無左門	REF		
136	11-13 10-25	Orlando				6.03	2.20		10.06	0.96	\$24.897.51 \$32.534.01	新在F 新在F	REP		
136	9-24	Orlando				10.49	3,35		3.76	0.44	\$36,147.90	SPEF .	#REF		
144	18-42, 27-233	81. Cloud				19.29	16.56	0.31	3.43	1.10	\$109,434.12	STREET, STREET, ST.	SHIPPING P	PARTA	
148	1-11	Ortendo SL Cloud				3,67	0.20	District of the last	3.67	Carlotte and	812,288,90	REF	REF!		
(47	Chiarterly Tetal Mileage	ar mora				10.40 67.60	1.78 26.61		41.62 41.63	2.64	\$33,621,84	SPEET!	新定日		
	Annual Total Miles				Company of the Compan	332.92	181,02		231.59	15,46	\$1,385,164,01	#REF1			

2015 Transmission Schedule

Completed Work



Transmission Vegetation Management Program (TVMP)

Annual Maintenance Scehdule June 1, 2015- May 30, 2016

Treatment Cycle Ye	ear Three
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garage	14 (28)	Urban RO	N Corr	dors 1 - 1	9 TRE	ATMENT	ON AN	ANNUA	CYCLE	
ROW Correlator Cognitions (Map)	OUC Line	Concription	Structure Number Begin	Structure Number End	Miles Urben	Anticipated Date of Treatment (Past Treatment)	Date Assigned	Date Completed	Contractor Investory Segment QIC Inspection	Q/C Date
	5-0212	Pine Hills to Country Club	1	48	3.2	07/19/12	07/19/15	1/7/15		T. MOM. A
	7-02FPC	Pine Hills to FPC at Dolores W/O Emeraida	1	27	1.1	08/11/12	08/11/15	1/7/15		
	5-0214	Pine Hills to Turkey Lake	428	365	3.0	08/13/12	08/13/15	1/7/15		A CONTRACTOR OF THE PARTY OF TH
	-1424	Turkey Lake to Southwood	362	343	1.8	08/06/12	08/06/15	1/7/15		100
25	5-2405	Sub 5	341	303	1.7	08/04/12	08/04/15	1/7/15		
6	5-0508 A	East Line	260	201	2.8	09/04/12	09/04/15	1/7/15		4521
	7-05FPC	Southwood to Windemere		1		78-3 CO 100 CO	12/30/02	1/7/15		E-SOCIAL D
	5-0508 B	Southwood to Martin	1	14	1.8	09/10/12	09/10/15	REMOVED		NO SERVICE
	-08-30	Martin to Counvention Center	14	16	0.4	09/18/12	09/18/15	REMOVED		\$242.5
	-0405	Holden to Southwood	506	586	3.6	07/29/12	07/29/15	1/7/15		84102E89
10	-0409	Holden to Michigan	2	78	3.2	09/02/12	09/02/15	1/7/15		DAY PROPERTY.
	-0910	Michi gan to America (On Division)	56	132	3.7	10/01/12	10/01/15	1/7/15		VE EXE
32	-1013	America to Kaley	1	26	1.4	10/01/12	10/01/15	1/7/15		AL FERRIDA
	-1618	Michigan and Gowen to Bumby and Jersey	1	. 5	0.2	10/01/12	10/01/15	1/7/15		
	-0916	Michigan to Grant	1	52	2.3	10/01/12	10/01/15	1/7/15		STATE OF THE PARTY OF
	-0609	Michigan to Pershing (Follows Raeford Rd)	2	93	5.5	11/17/12		1/7/15		
	-0616	Grant to Pershing	1	27	2.1	10/14/12		1/7/15		27.0
	-622	Pershing to Sub 22 Term Site	135	157	3.4	12/04/12		1/7/15		Control of the last
18	-0306 A &	Azalea to Pershing A & B	143	182	4.1	11/28/12		1/7/15		
490	-27KISS	Shared W/ KUA	2	64	2.6	12/09/12		12/30/14		EEAES/LIVE

Total Urban Annual Treatment Miles 48.1

			Structure	Structure Number		Asticipated Date of Treatment (Past			Contractor Inventory Segment	Q/C Date
	OUC Line	Description	Number Begin	End	Miles Rural	Treatment)	Data Assigned	Date Completed	Q/C inspection	Inspected OUC
- 20	7-1517	Sub 15 to Sub 17	67	180	23.9	6/1/12	08/01/15			
d2 + (3)	7-SEC-1	Stanton Unit 1 Generator	ļ			Hart San Charles	ļ			
10.00	7-SEC-2	Stanton unit 2 Generator								
3. 3.	7-17RAT2	SEC Reserve Aux Trans 2								100000000000000000000000000000000000000
	7-17RAT1	SEC Reserve Aux Trans 1								
See a	7-1731	Sub 17 to SEC A								
19272	7-1736	Sub 17 to SEC B	TBD	TBD	TBD		1			
577.	7-15 19	Taft to Airport Industrial Park	1A	14		PARTY NAMED OF THE PARTY NAMED IN				
	7-2332	Sub 32 to Sub 23 South Term Site	102A	109		5/1/12		THE LAND OF		
29	4-2728	Central to North	1	120	8.6	8/1/12	02/01/15	03/28/15	03/28/15	
30	4-2829			L	7.6	6/1/12	02/01/15	08/04/15	06/04/15	P. C. C.
31	7-29FPC	North to Holopaw	1	69	8.1	8/1/12	02/01/15	03/26/15	03/26/15	
32	5-2933	Sub 29 to Sub 33			10.8	6/1/12	06/01/15			
33	5-3327	Sub 33 to Sub 27 UG Termination			4.7	8/1/12	06/01/15			

Total Proposed Annual Treatment Miles 39.8

Total Urban + Rural ROW Miles 87.9

2016 Transmission Schedule

Work Plan

Transmission Vegetation Management Program (TVMP)



QIC Date

Annual Maintenance Scehdule June 1, 2016 - May 30, 2017

Treatment Cycle Year One

	replaced \$	The state of the s	ACTION OF	THE MINES	4.2	1800				
ROW Compley Segment (Map)	OUC Line	Description	Structure Number Begin	Structure Number End	Miles Urban	Auticipated Date of Treatment	Date Assigned	Date Completed	Contractor inventory Segment Q/C haspection	Q/C Date Inspected QU
4	5-0212	Pine Hills to Country Club	1	48	3.2	07/19/16		Reference of		
2	7-02FPC	Pine Hills to FPC at Dolores W/O Emeralda	1	27	1.1	08/11/16				
3 4	5-0214	Pine Hills to Turkey Lake	428	365	3.0	08/13/16				
	5-1424	Turkey Lake to Southwood	362	343	1.8	08/06/16		Description of the second		- Carlotte
H. T	5-2405	South Term Sub 24 to Southwood Sub 5	341	303	1.7	08/04/16				
5 2 2	5-0508 A	Southwood to Martin (KingsPointe) East Line	260	201	2.8	09/04/16				65.75
	7-05FPC	Southwood to Windemere				398				DATE OF
	5-0508 B	Southwood to Martin	1	14	1.8	09/10/16				(A)
	5-08-30	Martin to Counvention Center	14	16	0.4	09/18/16		Company of the		and Name and
	5-0405	Holden to Southwood	506	586	3.6	07/29/16				2 grant and
10	5-0409	Holden to Michigan	2	78	3.2	09/02/16				
	5-0910	Michi gan to America (On Division)	56	132	3.7	10/01/16		Constant of the		Park the last
- Y	5-1013	America to Kaley	1	26	1.4	10/01/16		ESTABLISHED IN		46-142
13	5-1618	Michigan and Gowen to Bumby and Jersey	1	5	0.2	10/01/16				
	5-0916	Michigan to Grant	1	52	2.3	10/01/18				
15 1	5-0609	Michigan to Pershing (Follows Reeford Rd)	2	93	5.5	11/17/16				
130	5-0616	Grant to Pershing	1	27	2.1	10/14/18				
186 F-5-16	7-622	Pershing to Sub 22 Term Site	135	157	3.4	12/04/16		CHARACTERS.		TEN METERS
18	5-0308 A & B	Azalea to Pershing A & B	143	182	4.1	11/28/16				
P S	4-27KISS	Shared W/ KUA	2	64	2.6	12/09/16		ASS. 10 (44) (48)		THE WALL VALUE

Rural ROW Corridors 20-21 TREATMENT ON A THREE YEAR CYCLE

	1 OOC LINE	paseuhons	Manager Deglas	Enu	Marie Ratas	11 cm Lister.	neso sessifican	Date Complime	CC Mispection	mapacasa coc
	5-0607 A	Pershing to Indian River A	7	71	32.0	6/1/16		100		
200			72	139		6/1/16				
20c			140	209		6/1/16				
200			210	256		6/1/16				
Comments.	5-0607 B	Pershing to Indian River B	0	130		6/1/16				ily
1 1 Take	7-0717 A	Indian River to Stanton A&B	54E	54B		6/1/16				
1000	7-0717 B	Indian River to Stanton A&B	135	156		6/1/16				
\$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7-0617A	Pershing to Stanton (Shares 5- 0607) ROW	1 1	34		6/1/16		F. 197304-75		
	7-0617 B	Pershing to Stanton (Shares 5- 0607) ROW	1	34		6/1/16		A COMMON		
A Contain	7-17 FPC A	Stanton to Curry Ford	23	53		6/1/16		KONT -1990		
	7-17 FPC B	Stanton to Rio Pinar	23	53		6/1/16		2022, 202	_	
375		Indian River to FPL Canaveral "A"	125	127		6/1/16		RECORDED IN	1	i i i i i i i i i i i i i i i i i i i
	7-07FPL"B"	Indian River to FPL Canaveral "B"	125	127		6/1/16				
20e	7- SEC PEF	Stanton to Progress Energy	1	60	8.0	6/1/16				
21	4-28FPC- MR	Narcosse@ Kirby Smith to Sub 28	1	176	19.0	9/1/16		技术: ##C		(air aigh

Total Rural Annual Treatment Miles 59.0 Total Urban + Rural ROW Miles 107.1

6. Storm Hardening Research

Orlando Utilities Commission is a member of the Florida Municipal Electric Association (FMEA), which is participating with all of Florida's electric utilities in storm hardening research through the Public Utility Research Center at the University of Florida. Under separate cover, FMEA is providing the FPSC with a report of research activities. For further information, contact Barry Moline, Executive Director, FMEA, 850-224-3314, ext.1, or bmoline@publicpower.com.