



Annual Report
2009 Vegetation Management Report
4 CSR 240-23.030
April 1, 2010

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2009 Vegetation Management Report

6(C).

Summary of the information required in subsection 6(B).

Empire's Vegetation Control Department along with the assistance 12 ACRT utility foresters planned and inspected the work performed in 2009. We continue to meet and slightly exceed the goals set out in the June 2008 Maintenance Plan. In 2009, we scheduled 801.4 miles of distribution lines and 222 miles of transmission lines and completed 830 miles and 222 miles, respectively. In addition, aerial application was performed on 860 acres of transmission lines.

This year, in addition to the 901 distribution miles and 230 transmission miles, we will be starting our Mid-cycle patrol of 112.7 miles. and implementing a Tree Growth Regulator (TGR) program. TGR is a treatment applied to trees that reduces the growth of trees which will maintain clearances to electrical facilities for longer periods of time while improving the health of the tree. This will be an ideal resource for many of our "mid-cycle, cycle-buster" trees as well as an alternative option for some specific trees on our maintenance plan.

Currently, we contract the assistance of approximately 105 Wright Tree Service employees under the supervision of Jeff East, Project Manager. These tree trimmers represent 44 two-man bucket crews, 2 two-man chipper crews, 2 four-man manual crew, 3 mower crews, 3 Jarraff crews, and 1 grapple truck. Additionally, we have added a second tree trimming company to our system. Shade Tree Service joined the system in late March 2009, supervised by Adam Bolton and brings 4 two-men bucket crews, with the potential of expanding as needed. Furthermore, Edco, formerly Advanced Applicators and Application Specialist perform our herbicide application, and Mid Central Contractors, a mechanical contractor, is utilized as a resource on select right-of-way situations.

Our outreach program for 2009 consisted of the dedication of the Utility Arboretum in Ozark and the planting of the Joplin Utility Arboretum, which will be donated to the city in conjunction with a seedling-give-away for Arbor day, April 30, 2010. Both arboretums have not only been well received by the communities but also, have received "The Missouri Arbor Award of Excellence". This recognition is jointly sponsored by the Missouri Department of Conservation and the Missouri Community Forestry Council.

We have expanded the vegetation management portion of Empire's website such that it includes answers to frequently asked questions and specific information about the trees located in the arboretums. We also developed a vegetation management online training module for our call center representatives so they

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can answer some of the typical customer questions. However, we cannot overlook public education provided by the ACRT planners, who in the process of notifying property owners, meet with them one-on-one or by phone to answer any questions they might have about the upcoming work and general information regarding trees.

In addition to the public education, we provided training for all of our line operations personnel and vegetation management subcontractors on proper pruning, tunneling, and trenching. This training along with our public education endeavors merited us the Tree Line USA certification. This is a designation that we will strive to retain with on-going public and employee education.

There were no incidents of safety hazards or accidents resulting in death or serious injury in 2009.

6(C)1.

Expenditures for vegetation management in the preceding year of 2009:
\$8,361,378.75

6(C)2.

Vegetation management budget for the current year of 2010: \$10,137,450.00

6(C)3.

Circuits, completion dates and miles trimmed in the preceding year.

See Exhibit A and Exhibit B, which depicts completion schedules for 2009. Details are documented through work plans, weekly timesheets and invoices. Empire will furnish any copies upon request.

6(C)4.

Circuits, miles scheduled for the current year:

See Exhibit C and Exhibit D, which depicts schedules for 2010.

6(C)5.

Total Distribution miles for the system and corresponding classification between rural and urban: The total distribution miles on EDE's system is

5,557; classified as 1,671 Urban Miles and 3,886 Rural Miles.

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DISTRIBUTION System -- Vegetation Management Plan 2009

DISTRIBUTION SYSTEM -- Vegetation Management Plan 2009										Conventional			Completion Date		
Circuit ID	Area	Sub	Sub Name	State	Maint. Schedule	2009 Scheduled Miles	2009 Completed Miles	Conventional Completion Date	Removals			Mech	Foliar	Basal	
									Trims	Brush	Removals				
3123	209	312	Ozark Dam - Powersite	MO	6	17.7	*	2/24/2010	•	•	•	10/10/2009	7/3/2009	10/30/2009	
3314	209	331	Branson - North	MO	4	6.0	6.0	12/31/2008	•	•	•	10/31/2009	10/30/2009	10/30/2009	
3873	209	387	Hollister - East	MO	4	32.5	32.4	8/28/2009	•	•	•	10/10/2009	9/30/2009	9/30/2009	
1242	211	124	Aurora - H.T.	MO	4	7.2	7.2	12/18/2009	•	•	•				
3592	211	359	Republic - East	MO	6	50.5	50.5	11/13/2009	•	•	•	12/19/2009	10/30/2009	12/19/2009	
3593	211	359	Republic - East	MO	4	5.3	5.3	9/9/2009	•	•	•	12/5/2009			
3594	211	359	Republic - East	MO	4	9.2	9.2	12/4/2009	•	•	•			12/19/2009	
2712	212	271	Baxter Springs - West H.T.	KS	4	54.5	48.2	12/3/2009	•	•	•	6/20/2009			
2911	212	291	Baxter Springs - 12th Street	KS	6	61.6	48.3	12/18/2009	•	•	•	5/9/2009			
2912	212	291	Baxter Springs - 12th Street	KS	4	25.0	25.3	11/9/2009	•	•	•	7/4/2009			
2091	213	209	Hermitage - East	MO	6	56.7	57.8	5/7/2009	•	•	•	3/2/2009	11/28/2009		
2092	213	209	Hermitage - East	MO	6	32.0	33.7	2/25/2009	•	•	•				
3421	213	342	Buffalo - South	MO	6	25.0	25.5	11/20/2009	•	•	•		9/30/2009	12/5/2009	
3422	213	342	Buffalo - South	MO	6	35.0	34.7	10/30/2009	•	•	•		10/30/2009	9/30/2009	
3675	213	367	Boilvar - Southeast	MO	4	4.8	4.8	11/20/2009	•	•	•			11/7/2009	
4091	213	409	Buffalo - North	MO	4	20.2	19.8	6/25/2009	•	•	•				
4182	213	418	Stockton City	MO	4	***	21.9	12/26/2009	•	•	•				
4312	213	431	Boilvar - South	MO	4	30.6	7.4	12/4/2009	•	•	•		10/30/2009	11/7/2009	
4313	213	431	Boilvar - South	MO	4	**	27.5	12/31/2009	•	•	•		11/28/2009	11/7/2009	
1225	214	59	Joplin - 26th Street	MO	4	7.5	7.5	5/7/2009	•	•	•			1/8/2009	
1229	214	59	Joplin - 26th Street	MO	4	13.1	13.1	3/19/2009	•	•	•			1/8/2009	
1273	214	341	Joplin - Northwest	MO	4	8.6	8.6	5/29/2009	•	•	•				
1282	214	360	Joplin - Northeast	MO	4	12.3	12.3	3/4/2009	•	•	•			11/14/2009	
1284	214	360	Joplin - Northeast	MO	4	9.1	10.0	6/5/2009	•	•	•			11/7/2009	
1453	214	145	Joplin - West 7th Street	MO	4	20.4	20.5	6/25/2009	•	•	•			6/9/2009	
4223	214	422	Joplin - 24th Street	MO	4	10.6	8.3	3/4/2009	•	•	•			11/28/2009	
4303	214	430	Joplin - 32nd & Oliver	MO	4	20.6	20.6	6/25/2009	•	•	•			1/9/2009	
1051	215	105	Webb City - Tom Street	MO	4	17.0	17.0	10/23/2009	•	•	•		2/27/2009		
1082	215	108	Carthage - Northwest	MO	6	118.6	123.9	9/25/2009	•	•	•	10/10/2009	7/26/2009		
1103	215	110	Joplin - Oronogo Junction	MO	4	18.3	18.6	8/26/2009	•	•	•				
3222	216	322	Anderson - Southwest	MO	6	***	32.2	12/31/2009	•	•	•	12/26/2009			
3301	217	330	Ozark - Northwest	MO	4	2.6	2.6	7/15/2009	•	•	•		7/23/2009		
3691	217	369	Willard	MO	6	51.3	51.5	12/17/2009	•	•	•		7/30/2009	10/30/2009	
4153	217	415	Black Hawk Junction	MO	4	17.6	17.8	11/20/2009	•	•	•	11/14/2009	7/30/2009	10/30/2009	
							801.4	830.0							
*Circuits were moved to 2010 to be completed															
** Circuit 4313 was a split from 4312															
*** Circuits that were moved up from 2010 because of reliability issues															

*Circuits were moved to 2010 to be completed

Circuit 4313 was a split from 4312

**** Circuits that were moved up from 2010 because of reliability issues

Empire District Electric Company						
Distribution System - Vegetation Management Plan 2010						
Circuit ID	Area	Sub	Sub name	State	Maint. Schedule	2010 Scheduled Miles
3123	209	312	Ozark Dam - Powersite**	MO	6	17.8
3311	209	331	Branson-North	MO	4	8.90
3312	209	331	Branson-North	MO	4	4.10
3315	209	331	Branson - North	MO	4	26.40
3871	209	387	Hollister - East	MO	4	14.90
4131	209	413	Branson-Southwest	MO	4	6.00
4132	209	413	Branson-Southwest	MO	4	5.30
4134	209	413	Branson-Southwest	MO	4	8.20
4333	209	433	Gretna	MO	4	5.40
1243	211	124	Aurora - H.T.	MO	4	26.60
3551	211	355	Aurora - West	MO	4	10.30
4371	211	437	Marionville - North	MO	6	113.90
1861	212	186	Welch - North	OK	4	34.70
3811	212	381	Commerce - North	OK	4	13.00
3812	212	381	Commerce - North	OK	4	16.00
4061	212	406	Riverton - South	KS	6	113.30
3673	213	367	Bolivar - Southeast	MO	4	19.70
6021	213	602	Bolivar Plant	MO	4	19.70
3181	213	318	Collins- South	MO	6	49.20
1226	214	59	Joplin - 26th Street	MO	4	3.70
1228	214	59	Joplin - 26th Street	MO	4	4.10
1262	214	258	Gateway Drive	MO	4	5.40
1265	214	258	Gateway Drive	MO	4	10.20
1281	214	360	Joplin - Northeast	MO	4	1.90
1285	214	36	Joplin - Northeast	MO	4	6.00
1232	214	372	Joplin - 2nd & Division	MO	4	14.50
3912	214	391	Joplin - Southeast	MO	4	15.70
4222	214	422	Joplin - 24th Street	MO	4	12.00
1050	215	105	Webb City - Tom Street	MO	4	15.00
1094	215	109	Joplin - Atlas Junction	MO	4	24.70
4324	215	432	Oakland - North	MO	4	17.10
2961	216	296	Neosho- Rocketdyne 69kv	MO	4	30.30
3751	216	375	Seneca - East	MO	6	50.70
3923	216	392	Decatur - South	AR	6	4.20
3472	216	347	Granby - North	MO	6	51.30
3922	216	392	Decatur - South	AR	6	55.20
3305	217	330	Ozark - Northwest	MO	4	0.40
3694	217	369	Willard	MO	4	22.80
4152	217	415	Blackhawk Junction	MO	4	17.00
4154	217	415	Blackhawk Junction	MO	4	6.80
4155	217	415	Blackhawk Junction	MO	4	19.00
						901.4

Empire District Electric Company						
Transmission System -- Vegetation Management Plan 2010						
Line #	NERC	KV	State	From -- Expanded	To -- Expanded	2010 Scheduled Miles
08-2		34.5 M		SUB 308 - HUMANSVILLE WEST	SUB 217 - FAIRPLAY EAST	13.7
08-2		34.5 M		SUB 308 - HUMANSVILLE WEST	SUB 304 - CAPLINGER	13.73
30-0		69 M		SUB 124 - AURORA H.T.	SUB 152 - MONETT H.T.	11.2
30-0		69 M		SUB 124 - AURORA H.T.	SUB 437 - MARIONVILLE NORTHWEST	8.4
30-0		69 M		SUB 221 - BILLINGS NORTHEAST	SUB 359 - REPUBLIC EAST	6.04
30-0		69 M		SUB 221 - BILLINGS NORTHEAST	SUB 437 - MARIONVILLE NORTHWEST	8
30-0		69 M		SUB 131 - DIAMOND JCT.	SUB 393 - REINMILLER	12.43
30-0		69 M		SUB 131 - DIAMOND JCT.	SUB 362 - SARCOXIE SOUTHWEST	8.8
30-0		69 M		SUB 258 - GATEWAY SOUTH	SUB 447 - 32ND & STEPHENS	0.512
30-0		69 M		SUB 59 - JOPLIN 26TH ST.	SUB 258 - GATEWAY SOUTH	1.6
30-0		69 M		SUB 170 - NICHOLS ST.	SUB 345 - REPUBLIC NORTHEAST	10.8
30-0		69 M		SUB 345 - REPUBLIC NORTHEAST	SUB 359 - REPUBLIC EAST	5.2
30-0		69 M		SUB 393 - REINMILLER	SUB 447 - 32ND & STEPHENS	3.1
30-0		69 M		SUB 205 - WENTWORTH WEST	SUB 362 - SARCOXIE SOUTHWEST	3.2
30-0		69 M		SUB 205 - WENTWORTH WEST	SUB 383 - MONETT	13.2
30-1		69 M		SUB 109 - ATLAS JCT.	SUB 315 - SOLAR (ATLAS POWDER CO.)	2.8
30-1		69 M		SUB 315 - SOLAR TAP (ATLAS POWDER CO.)	SUB 393 - REINMILLER	4
30-3		69 M		SUB 347 - GRANBY JUNCTION	SUB 131 - DIAMOND JCT.	1.5
30-3		69 M		SUB 347 - GRANBY JUNCTION	SUB 242 - DIAMOND SHELL	1
30-4		69 M		SUB 347 - GRANBY JUNCTION	SUB 347 - GRANBY	4
30-5		69 M		SUB 362 - SARCOXIE	SUB 362 - SARCOXIE SOUTHWEST	4.33
30-9		69 M		SUB 447 - 32ND & STEPHENS	SUB 447 - 32ND & STEPHENS	1
32-0		69 M		SUB 109 - ATLAS JCT.	SUB 360 - JOPLIN NORTHEAST	3.19
32-0		69 M		SUB 108 - CARTHAGE NORTHWEST	SUB 109 - ATLAS JCT.	12
32-2		69 M		SUB 109 - ATLAS JCT.	SUB 315 - SOLAR TAP (ATLAS POWDER C	0.4
32-2		69 M		SUB 315 - SOLAR (ATLAS POWDER CO.)	SUB 315 - SOLAR TAP (ATLAS POWDER C	2.23
33-0		69 M		SUB 73 - BOLIVAR BURNS	SUB 367 - BOLIVAR SOUTHEAST	5.6
33-0		69 M		SUB 367 - BOLIVAR SOUTHEAST	SUB 602 - BOLIVAR PLANT	1.6
33-0		69 M		SUB 249 - BOSTON EAST	SUB 251 - GOLDEN CITY NORTH	8.8
33-0		69 M		SUB CU PUMP STATION TAP	SUB 368 - DADEVILLE EAST	5
33-0		69 M		SUB CU PUMP STATION TAP	SUB 614 - GREENFIELD	19.5
33-0		69 M		SUB 251 - GOLDEN CITY NORTH	SUB 400 - LOCKWOOD	7.6
33-0		69 M		SUB 403 - JASPER WEST	SUB 344 - JASPER SOUTH	2.8
33-0		69 M		SUB 400 - LOCKWOOD	SUB 614 - GREENFIELD	7.6
33-0		69 M		SUB 110 - ORONOGO JCT.	SUB 341 - JOPLIN NORTHWEST	5.2
33-1		69 M		SUB 403 - JASPER WEST TAP	SUB 403 - JASPER WEST TAP	1.019
33-2		69 M		SUB 249 - BOSTON EAST	SUB 249 - BOSTON EAST	2.5
33-3		69 M		SUB CU PUMP STATION TAP	SUB CU PUMP STATION	1.2
34-0		69 M		SUB 109 - ATLAS JCT.	SUB 280 - OAKLAND EAST	3.2
34-0		69 M		SUB 110 - ORONOGO JCT.	SUB 280 - OAKLAND EAST	1.6
						229.6
Herbicide application will be performed one to two years after clearing, as needed.						

AFFIDAVIT

State of Missouri ,
)ss
County of Jasper ,

I, Michael E. Palmer, having been duly sworn upon my oath, state that I am the Vice President of Commercial Operation of The Empire District Electric Company (Empire), that I am duly authorized to make this affidavit on behalf of Empire, and that the matters and things stated in the foregoing are true and correct to the best of my information, knowledge and belief.

Michael E. Palmer

Subscribed and sworn before me this 29th day of March, 2010.

Patricia A. Settle

Notary Public

