

PUBLIC SERVICE COMPANY OF OKLAHOMA 2020 Chapter 35 Annual Report

1.0 Service Territory Map

Rule Requirement (165:35-25-20(b)(6)):

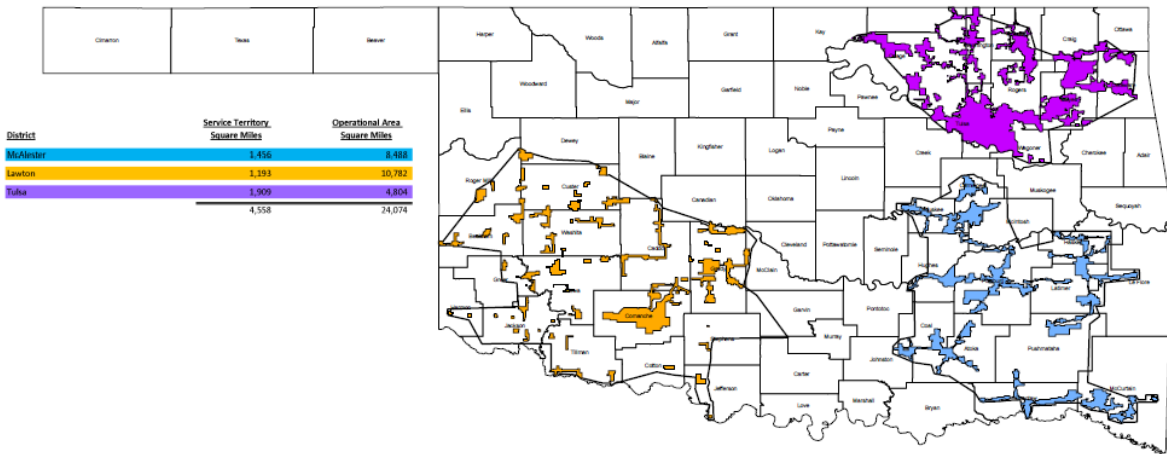
Provide a map identifying service territory.



An AEP Company

BOUNDLESS ENERGY™

Operations Area
February 2020



Prepared by GIS Data Services & Support
Prepared for PSO Reliability
Date: February 10, 2020

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2.0 Annual Vegetation Management Plan (“Plan”)

Rule Requirement (165:35-25-20(b)(1)):

Provide a description of all vegetation management performed for the previous calendar year and planned for the current year.

Please See Appendix 1: “PSO 2020 Annual Vegetation Management Plan” for the annual vegetation management plan for 12 months ending December 2020 and Appendix 2: “PSO Vegetation Management Performance Summary Cycle 4” for results through December 2019 of PSO’s fourth vegetation management cycle.

The following provides an explanation of the columns in Appendices 1 and 2:

- **District:** Identifies the Operating District within which the targeted circuit is located.
- **Station:** Identifies the Substation with which the targeted circuit is associated.
- **Location:** Identifies the general location of the substation associated with the targeted circuit.
- **Circuit Name:** Provides the PSO Circuit identification number.
- **Percent Complete:** This column indicates the percent of the total circuit miles completed through December 2019.
- **Date Complete:** Included in Appendix 2 only, this column indicates the actual date the Plan work was completed.

Rule Requirements (165:35-25-15):

Provide the following components of PSO’s Plan:

1. *Definitions of activities;*
2. *Calendar activities;*
3. *Implementation Plan;*
4. *Criteria to assess results of the Plan; and*
5. *Name and contact information of a company representative for the Plan*

Definitions of Activities:

- **Tree Clearing:** Removal of large maturing trees that may interfere with power lines, and pruning of trees in proximity to power lines to provide a minimum of four years clearance between the tree and the conductor.
- **Herbicide Application:** The use of safe, approved and effective materials to control undesirable vegetation that has the potential to interfere with overhead power lines.
- **Growth Regulation:** The application of safe, approved and effective materials to inhibit the rapid re-sprouting of trees after line clearance work has been performed. Tree growth regulators are proven to benefit the health of trees.
- **Circuit Clearing:** The removal and pruning of trees along an entire electrical circuit from the substation to the last span of overhead conductor.

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- **Geographical Clearing:** The removal and pruning of trees within recognizable or defined boundaries. These areas will include at least one entire circuit, but will also encompass portions of other circuits.

Calendar Activities:

Each year's annual work plan is developed in the fourth quarter of the previous year. This plan is continually re-evaluated and adjusted as needed. Various factors may impact crew staffing and efficiency over the course of the calendar year. However, the goal is to maintain a steady level of line clearance activities each month of the year. The exception to this goal is the herbicide activities that will have a base level, but will grow, peak, and decline with the presence of foliage on the trees.

Implementation Plan:

PSO completed its third 4-year vegetation management cycle in May of 2018, and began its fourth in June of 2018.

PSO contracts with several companies to perform the majority of the vegetation management activities on its system. Prior to their arrival in an area, PSO notifies customers that vegetation management activities will be taking place. If a homeowners association represents an area, PSO will contact the association's president and offer to attend the association's next meeting, which the Company targets approximately six weeks prior to any vegetation management activities. Approximately five weeks prior to the target date, PSO notifies by letter customers who will be impacted. This letter includes the PSO forestry information telephone number in case the customer has any questions about the work to take place on their property.

Approximately ten days prior to the projected work start date, each customer is contacted by an automated phone call that details the scope of work to be performed and the PSO Forestry Department contact information. In general, trees must be pruned to provide approximately 10 to 15 feet of clearance from the nearest power line, and all branches overhanging the power lines must be removed. Trees growing directly underneath or dangerously close to the power lines will be removed. Stumps and small seedlings/saplings will be treated to control re-sprouting and growth. Vines growing on poles will be cut at ground level and treated with an approved herbicide application.

Select trees that remain in close proximity to power lines may be candidates for treatment with growth regulators to slow their growth toward conductors. Growth regulators are used to help ensure clearance efforts result in trees remaining away from power lines at least until the next trimming cycle.

Once the circuits are cleared of tree interference, herbicides will be applied to prevent future encroachment. The initial application is done concurrently with the clearing operation, treating stumps to prevent re-sprouting. Small seedlings and saplings are also treated to prevent them from growing into power lines. The cleared circuit will be revisited between clearing cycles to treat any volunteer trees that may have taken root in the area where vegetation management activities have occurred. Since birds, squirrels, and wind deposit

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seeds along lines that have been cleared, a diligent herbicide program is required to change the vegetation type along line rights-of-way to grasses and low vegetation.

In addition, PSO provides customers options for tree trimming and tree removal work. When PSO notifies a property owner that a particular tree on their property needs to be removed or significantly trimmed, the owner will have the option to hire a private tree maintenance contractor at their own expense. By using this option, arrangements can be worked out to allow for a more frequent trim of the trees.

PSO also has a Tree Voucher Program for homeowners with yards where a tree needs to be removed to maintain reliability of PSO's electrical system. The voucher can be used by the homeowner at participating tree nurseries for a discount on the purchase of a suitable replacement tree or other shrubbery.

Criteria to assess results of the Plan:

PSO completed its third 4-year cycle of vegetation management activities on its distribution system in May of 2018 and began working on the fourth in June of 2018. This cycle-based vegetation management program has successfully improved PSO's reliability since its inception. While tree-related outages still occur on PSO's system, their impact on overall service reliability is minimal.

Technical results are measured by crew visits and work inspections performed by foresters and arborists. It is important that proper pruning cuts are made on the trees which will remain near the power lines. Adequate clearance from conductors depends on tree species and environmental conditions. Professionals who monitor the tree work on a routine basis make those assessments.

Customer satisfaction results are measured by ongoing surveys, supplemented by the postage paid reply cards left in the neighborhoods where tree crews work. These cards solicit the opinions of customers directly affected by line clearance work. The response cards are left at locations where PSO tree crews have performed work, and provide a means for customers to grade the results, ask for follow-up contact, and/or receive tree care information from PSO. Each of these measures is important to assess the PSO Vegetation Management Plan results.

Name and contact information of a company representative for the Plan:

Primary Contact:

Jennifer Leber
Reliability Manager
Public Service Company of Oklahoma
212 East 6th Street
Tulsa, Oklahoma 74119
918-599-2513

Alternate Contact:

Steven Baker
Vice President – Distribution Region Operations
Public Service Company of Oklahoma
212 East 6th Street
Tulsa, Oklahoma 74119
918-599-2145

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Additionally, each utility shall:

- 1. At a minimum, perform vegetation management on a 4-year cycle or request an exemption; and*
- 2. Track and record all costs associated with the Plan.*

Vegetation management 4-year cycle Plan:

See “Implementation Plan” section of this report for a description of PSO’s 4-year cycle vegetation management plan.

Track and record all costs associated with the Plan:

PSO will track and record all costs associated with this Plan and will provide information to the Public Utility Division of the Oklahoma Corporation Commission upon request.

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3.0 2018 Service Territory Reliability Performance

Rule Requirements (165:35-25-20(b)(2)(3)(4)); (165:35-25-20(d)):

1. Provide the Company's service territory SAIDI, SAIFI and MAIFI (to the extent practicable);
2. Provide the Utility's defined Region/District/Area's SAIDI, SAIFI and MAIFI (to the extent practicable);
3. Provide detailed report on each major event excluded from Items 1 and 2; and
4. Provide progress toward attainment of additional technologies.

Company and Operating Area Reliability Statistics:

Public Service Company of Oklahoma's Year 2019 Overall Reliability Indices							
Company	Customers Served	Customers Interrupted	Customer-Minutes	SAIFI	SAIDI	CAIDI	MAIFI*
PSO	553,971	634,613	60,516,121	1.146	109.24	95.36	N/A

*Please see the discussion on MAIFI later in this section.

Public Service Company of Oklahoma's Year 2019 Operating Area Reliability Indices							
District	Service Area	Customers Served	Customers Interrupted	Customer-Minutes	SAIFI	SAIDI	CAIDI
Lawton	Chickasha	21,633	52,931	4,354,230	2.447	201.28	82.26
Lawton	Clinton	6,282	19,717	2,851,450	3.139	453.91	144.62
Lawton	Duncan	5,037	10,597	1,876,972	2.104	372.64	177.12
Lawton	Elk City	11,294	19,680	1,898,259	1.743	168.08	96.46
Lawton	Hobart	5,963	16,077	1,053,858	2.696	176.73	65.55
Lawton	Lawton	44,329	56,216	5,461,585	1.268	123.21	97.15
Lawton	Tipton	4,320	4,695	373,662	1.087	86.50	79.59
Lawton	Weatherford	9,748	26,201	1,201,843	2.688	123.29	45.87
McAlester	Atoka	5,305	4,842	768,229	0.913	144.81	158.66
McAlester	Henryetta	5,141	10,440	965,900	2.031	187.88	92.52
McAlester	Hugo	6,668	10,846	1,702,214	1.627	255.28	156.94
McAlester	Idabel	8,721	16,500	1,118,836	1.892	128.29	67.81
McAlester	McAlester	17,616	31,224	2,875,089	1.772	163.21	92.08
McAlester	Okemah	3,047	12,704	2,635,617	4.169	864.99	207.46
McAlester	Okmulgee	7,892	6,656	647,180	0.843	82.00	97.23
McAlester	Stigler	3,567	973	89,128	0.273	24.99	91.60
McAlester	Wilburton	5,200	5,796	655,261	1.115	126.01	113.05
Tulsa	Bartlesville	24,566	35,877	3,363,295	1.460	136.91	93.75
Tulsa	Chouteau	8,749	30,911	3,505,969	3.533	400.73	113.42
Tulsa	Grove	9,464	15,727	1,570,002	1.662	165.89	99.83
Tulsa	Nowata	4,210	12,454	1,097,133	2.958	260.60	88.09
Tulsa	Tulsa Northeast	68,663	53,927	4,630,469	0.785	67.44	85.87
Tulsa	Tulsa Northwest	53,324	39,728	3,344,866	0.745	62.73	84.19
Tulsa	Tulsa Southeast	120,934	48,558	3,989,226	0.402	32.99	82.15
Tulsa	Tulsa Southwest	83,400	81,573	7,166,624	0.978	85.93	87.86
Tulsa	Vinita	8,898	9,763	1,319,224	1.097	148.26	135.12

Reliability indices are based on 12 months of system performance data for the 12 months ending December 2019 and exclude "Major Events" as defined by the Oklahoma Reliability Rules.

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The table below shows PSO’s 2018 reliability performance. PSO’s SAIFI performance was better in 2019 when compared to 2018 performance by 3.1%. PSO’s 2019 SAIDI and CAIDI performance fell short of that in 2018 by 2.0% and 5.3%, respectively.

Public Service Company of Oklahoma’s Year 2018 Overall Reliability Indices						
Company	Customers Served	Customers Interrupted	Customer-Minutes	SAIFI	SAIDI	CAIDI
PSO	550,649	651,134	58,960,130	1.182	107.07	90.55

MAIFI:

PSO has suspended its reporting of momentary interruption information due to various recording and reporting challenges. The Commission can be reassured that this is not an indication that PSO is not concerned about the reliability of service that it provided to its customers in 2019. Momentary operations can often be a precursor to sustained outage events—which are captured in PSO’s annual SAIFI measurements.

Detailed Report on Major Event(s) Excluded:

Affected Area	Start Date/Time	End Date/Time	Last Customer Restored	Approximate Period of 10% Customers Interrupted	Total Customers Affected	Percent Affected	Cause
McAlester District	4/30/2019 20:00	5/2/2019 1:59	5/2/19 1:59	430/2019 20:00 to 5/1/2019 12:59	8,185	13%	Thunderstorms /High Winds
Tulsa District	5/20/2019 19:00	5/23/2019 22:59	5/24/19 13:12	5/20/2019 19:00 to 5/23/2019 00:00	43,952	11%	Thunderstorms /High Winds
Tulsa Southwest OMS Area	5/25/2019 23:00	5/26/2019 23:59	5/27/19 19:43	5/25/2019 23:00 to 5/26/2019 00:00	15,336	18%	Thunderstorms /High Winds
Tulsa Southeast OMS Area	5/25/2019 23:00	5/28/2019 20:59	5/30/19 15:30	5/25/2019 23:00 to 5/26/2019 12:00	12,069	10%	Thunderstorms /High Winds
Bartlesville OMS Area	7/21/2019 21:00	7/22/2019 21:59	7/23/19 1:30	7/21/2019 21:00 to 7/21/2019 10:00	5,777	24%	Thunderstorms /High Winds
Grove OMS Area	8/26/2019 21:00	8/27/2019 20:59	8/28/19 11:40	8/26/2019 21:00 to 8/26/2019 10:00	2,051	22%	Thunderstorms /High Winds

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“Percent Affected” values can be greater than 100% because customers can experience multiple sustained interruptions throughout the storm period.

Some customers that had electric service before a major event are incapable of receiving service at the end of the event. Examples would be homes destroyed by tornados or homes that have had the service point of attachment stripped from the house and an electrician’s work is required before PSO can restore service. The indicated “End Date/Time” is the time when fewer than 100 customers affected by the event, and that are able to receive electric service, remain without power. All interruption records that begin between the “Start Date/Time” and the “End Date/Time” are coded as occurring during the major event. The “Last Customer Restored” indicates the Date/Time that the last customer capable of receiving service is restored.

Other Significant Events:

During 2019, there were six storm events that had a notable impact to SAIDI, but did not meet the major weather event exclusion criteria. The six events included:

- 6/23/2019 - storms spread across the Tulsa area contributing 4.46 minutes to SAIDI;
- 5/18/2019 - thunderstorms impacted the Lawton and McAlester Areas contributing to 3.71 of SAIDI;
- 6/15/2019 and 6/19/2019 - severe weather impacted the Lawton area contributing to 3.84 and 3.54 minutes to SAIDI, respectively; and
- 10/24/2019 and 11/11/2019 - storms impacted the McAlester area contributing to 3.13 and 3.25 minutes to SAIDI, respectively.

Comparison of 2019 Performance to Base and Minimum Performance Levels:

The following compares PSO’s 2019 year-end reliability performance to PSO’s base and minimum performance levels:

	SAIFI	SAIDI
Base Performance Level*	1.162	113.41
Minimum Performance Level*	1.220	119.33
PSO 2019 Year-End Performance	1.146	109.24

* The PSO base performance levels are the averages of the reliability indices plus one standard deviation on the annual values for the five years 2015 – 2019. The minimum performance levels are the averages plus two standard deviations from those five years.

For 2019, both PSO’s SAIDI and SAIFI were better than the minimum performance level and the base performance level.

Calculation of Base and Minimum Performance Levels for the Five Years Beginning 2020:

OAC 165:35-25-18(b) states that new performance levels for SAIDI and SAIFI will be recomputed every fifth year following adoption of the rule. For the 2015-2019 Rule 35 filing period, PSO used calculated base and minimum performance levels for the five-year period 2010-2014. Beginning with this year’s 2020 Rule 35 filing, PSO will use calculated base and minimum performance levels for the five-year period 2015-2019.

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Attainment of Additional Technologies:

PSO does not need new technologies to provide the information required for this Chapter 35 report. PSO will continue to evaluate cost effective measures that become available to measure MAIFI.

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4.0 Individual Circuit Report

Rule Requirements (165:35-25-19&20(b)(5)):

Establish a 5% Worst Performing Circuit List based on circuit SAIDI and SAIFI (and to the extent practicable MAIFI). Provide a description of the program for improving these circuits. Summarize results for the reporting year.

Worst Performing Circuit Plan:

PSO's 5% Worst Performing Circuit List was developed by sorting all PSO distribution circuits by 2019 SAIDI performance. SAIFI has influence in this ranking since $SAIDI = SAIFI \times CAIDI$.

A patrol will be conducted to identify equipment that needs to be replaced such as cross-arms, transformers, insulators, guy wire, etc. Animal guards and lightning protection will be installed on an as needed basis to mitigate animal and lightning related outages.

Provided below are two tables. Table 1 is the PSO "Year 2019 5% Worst Performing Circuit List (of 786 Total Circuits)", ranked by SAIDI and excluding major events. This table lists the 39 circuits (serving 10 customers or more) with the highest measured SAIDI. Table 2 is PSO's "Performance Improvement on Year 2018 5% Worst Performing Circuits" list, ranked by SAIDI and excluding major events. The summary of results in Table 2 includes targeted reliability improvement for each of the circuits, percent of reliability activity completed on each circuit, and subsequent circuit SAIDI and SAIFI performance.

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Table 1: Year 2019 5% Worst Performing Circuit List (of 786 Total Circuits)

Ranked by SAIDI - Excluding Major Events

This Table Shows the 39 Highest SAIDIs of Circuits Serving 10 or More Customers

Circuit ID	Station Name	District	Customers Served	Customers Interrupted	Customer-Minutes	SAIDI	SAIFI
9533304	Waurika	Lawton	22	46	41,239	1,874.50	2.091
95TL-11	Terral	Lawton	247	504	441,389	1,787.00	2.040
95NW-03	Duncan Northwest	Lawton	192	2,824	322,217	1,678.21	14.708
95CS-15	Clinton Sherman AFB	Lawton	188	1,275	299,487	1,593.02	6.782
9507433	Okemah	McAlester	103	469	128,379	1,246.40	4.553
95CL-11	Clinton City	Lawton	956	4,935	1,143,523	1,196.15	5.162
9516335	Shidler	Tulsa	30	181	33,694	1,123.13	6.033
9582633	Chouteau	Tulsa	804	6,533	883,716	1,099.15	8.126
9509931	Fort Towson	McAlester	569	826	579,933	1,019.21	1.452
9507432	Okemah	McAlester	1,079	4,207	1,023,481	948.55	3.899
9507431	Okemah	McAlester	1,087	3,600	967,773	890.32	3.312
95NW-01	Duncan Northwest	Lawton	453	1,760	396,497	875.27	3.885
95CS-11	Clinton Sherman AFB	Lawton	722	3,029	568,122	786.87	4.195
9576733	Heritage Trail	Tulsa	27	158	21,087	781.00	5.852
95CS-19	Clinton Sherman AFB	Lawton	35	146	27,286	779.60	4.171
95DB-01	Duncan Bois d`Arc	Lawton	168	576	130,690	777.92	3.429
95CO-11	Corn Colony	Lawton	517	4,065	393,017	760.19	7.863
9583031	Weleetka Power Station	McAlester	778	4,428	515,984	663.22	5.692
95WK-09	Waurika	Lawton	224	1,142	147,363	657.87	5.098
95GF-11	Grandfield	Lawton	598	1,850	383,881	641.94	3.094
95ER-11	Erick	Lawton	715	3,858	458,145	640.76	5.396
953601	Highland	Tulsa	303	614	188,230	621.22	2.026
95ZY-1	Cherokee Ind Park	Tulsa	12	30	7,116	593.00	2.500
95CU-01	Custer City	Lawton	246	1,724	143,076	581.61	7.008
95WB-01	Willow Brinkman	Lawton	112	567	62,551	558.49	5.063
95U-2	North Mingo	Tulsa	41	127	21,842	532.73	3.098
9533306	Clinton City	Lawton	28	179	14,830	529.64	6.393
953602	Highland	Tulsa	304	571	159,878	525.91	1.878
9586531	Pryor Junction	Tulsa	1,383	7,831	725,698	524.73	5.662
95CV-19	Cornville	Lawton	863	4,017	447,473	518.51	4.655
95CR-01	Carter	Lawton	182	916	93,268	512.46	5.033
9528231	Sawyer	McAlester	245	803	125,423	511.93	3.278
9586431	Northeast Power Station 138	Tulsa	784	5,257	398,855	508.74	6.705
95D-9	Tulsa Southeast	Tulsa	222	714	112,347	506.07	3.216
9507531	Atoka Caney	McAlester	202	403	102,121	505.55	1.995
9532432	Dewey Bluestem	Tulsa	1,333	5,373	662,462	496.97	4.031
9521852	Lehigh	McAlester	741	2,652	357,605	482.60	3.579
9536532	Inola	Tulsa	1,452	5,192	700,311	482.31	3.576
95PH-15	Porter Hill	Lawton	125	480	59,488	475.90	3.840

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Table 2: Performance Improvement on Year 2018 5% Worst Performing Circuits

Circuit ID	Station Name	District	Y2018 SAIDI	Y2018 SAIFI	Y2019 SAIDI	Y2019 SAIFI	% Complete*	Comments/Maintenance Summary
95DC-01	Dill City	Lawton	1931.61	9.353	339.96	4.108	100	Maintenance activities complete, with an approximate 82% improvement to SAIDI and 56% improvement to SAIFI.
95ER-11	Erick	Lawton	1120.90	4.275	640.76	5.396	100	Maintenance activities complete, with an approximate 43% improvement to SAIDI. SAIFI worsened primarily due to weather related outages in May and June prior to maintenance activities being completed and to a weather related outage on the source circuit.
9576733	Heritage Trail	Tulsa	962.68	4.429	781.00	5.852	100	Maintenance activities complete, with an approximate 19% improvement to SAIDI. SAIFI worsened primarily due to weather related outages in May and June prior to maintenance activities being completed.
95A-7	Tulsa Power Station	Tulsa	951.14	5.836	77.39	1.236	100	Maintenance activities complete, with an approximate 92% improvement to SAIDI and 79% improvement to SAIFI.
9533318	Sayre	Lawton	936.83	3.083	375.67	3.333	100	Maintenance activities complete, with an approximate 60% improvement to SAIDI. SAIFI worsened primarily due to a weather related outage in May prior to maintenance activities being completed.
9533310	Elk City	Lawton	722.12	4.400	377.88	3.417	100	Maintenance activities complete, with an approximate 48% improvement to SAIDI and 22% improvement to SAIFI.
95CJ-15	Clinton Junction	Lawton	713.28	5.084	78.20	1.832	100	Maintenance activities complete, with an approximate 89% improvement to SAIDI and 64% improvement to SAIFI.
9531433	Nowata	Tulsa	708.47	4.626	104.53	1.324	100	Maintenance activities complete, with an approximate 85% improvement to SAIDI and 71% improvement to SAIFI.
95HN-11	Hinton	Lawton	704.09	5.414	38.18	0.326	100	Maintenance activities complete, with an approximate 95% improvement to SAIDI and 94% improvement to SAIFI.
95CR-01	Carter	Lawton	685.56	5.048	512.46	5.033	100	Maintenance activities complete, with an approximate 25% improvement to SAIDI. SAIFI improved slightly.
95WB-01	Willow Brinkman	Lawton	648.23	6.191	558.49	5.063	100	Maintenance activities complete, with an approximate 14% improvement to SAIDI and 18% improvement to SAIFI.
95LF-11	Lone Wolf	Lawton	616.67	3.688	188.25	4.041	100	Maintenance activities complete, with an approximate 69% improvement to SAIDI. SAIFI worsened primarily due to weather related impacts to the source circuit. Additional activities are planned on the source circuit in 2020.

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Table 2: Performance Improvement on Year 2018 5% Worst Performing Circuits

Circuit ID	Station Name	District	Y2018 SAIDI	Y2018 SAIFI	Y2019 SAIDI	Y2019 SAIFI	% Complete*	Comments/Maintenance Summary
95EC-14	Elk City	Lawton	609.42	3.378	122.62	1.392	100	Maintenance activities complete, with an approximate 80% improvement to SAIDI and 59% improvement to SAIFI.
95LY-01	Leedey	Lawton	608.43	4.289	7.46	0.066	100	Maintenance activities complete, with an approximate 99% improvement to SAIDI and 98% improvement to SAIFI.
9585331	Barnsdall Tap	Tulsa	602.08	3.981	121.74	1.529	100	Maintenance activities complete, with an approximate 80% improvement to SAIDI and 62% improvement to SAIFI.
95MW-11	Moorewood	Lawton	599.91	4.348	46.74	0.522	100	Maintenance activities complete, with an approximate 92% improvement to SAIDI and 88% improvement to SAIFI.
95CJ-17	Clinton Junction	Lawton	571.03	5.496	106.51	1.858	100	Maintenance activities complete, with an approximate 81% improvement to SAIDI and 66% improvement to SAIFI.
95ZR-7	ORU	Tulsa	565.23	4.133	2.25	0.017	100	Maintenance activities complete, with an approximate 100% improvement to SAIDI and 100% improvement to SAIFI.
95EC-13	Elk City	Lawton	563.76	3.562	209.98	1.992	100	Maintenance activities complete, with an approximate 63% improvement to SAIDI and 44% improvement to SAIFI.
9531431	Nowata	Tulsa	552.81	2.937	420.74	4.231	100	Maintenance activities complete, with an approximate 24% improvement to SAIDI. SAIFI worsened primarily due to weather related outages in July and August prior to maintenance being completed. Benefits will be realized in 2020.
9524831	Ramona	Tulsa	545.00	3.095	196.63	1.280	100	Maintenance activities complete, with an approximate 64% improvement to SAIDI and 59% improvement to SAIFI.
95TU-11	Tuttle	Lawton	534.96	2.981	382.91	2.542	100	Maintenance activities complete, with an approximate 28% improvement to SAIDI and 15% improvement to SAIFI.

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Table 2: Performance Improvement on Year 2018 5% Worst Performing Circuits

Circuit ID	Station Name	District	Y2018 SAIDI	Y2018 SAIFI	Y2019 SAIDI	Y2019 SAIFI	% Comp-lete*	Comments/Maintenance Summary
95WF-15	Weatherford	Lawton	532.33	9.086	22.72	1.104	100	Maintenance activities complete, with an approximate 96% improvement to SAIDI and 88% improvement to SAIFI.
95CJ-11	Clinton Junction	Lawton	507.49	4.420	10.43	0.115	100	Maintenance activities complete, with an approximate 98% improvement to SAIDI and 97% improvement to SAIFI.
95GF-11	Grandfield	Lawton	498.43	1.117	641.94	3.094	100	Maintenance activities complete. SAIDI and SAIFI both worsened primarily due to outages on the substation caused by storm related damage to the stations source circuit.
9583832	Hugo	McAlester	489.99	3.159	184.93	1.271	100	Maintenance activities complete, with an approximate 62% improvement to SAIDI and 60% improvement to SAIFI.
95EC-16	Elk City	Lawton	488.72	3.523	25.15	0.410	100	Maintenance activities completed, with an approximate 95% improvement to SAIDI and 88% improvement to SAIFI.
9505833	Okmulgee City	McAlester	482.96	6.484	44.49	0.500	100	Maintenance activities complete, with an approximate 91% improvement to SAIDI and 92% improvement to SAIFI.
95WJ-16	Weatherford Junction	Lawton	473.80	5.092	131.57	2.452	100	Maintenance activities complete, with an approximate 72% improvement to SAIDI and 52% improvement to SAIFI.
95B-5	Denver	Tulsa	466.69	3.343	8.00	1.000	100	Maintenance activities complete, with an approximate 98% improvement to SAIDI and 70% improvement to SAIFI.
95CS-19	Clinton Sherman AFB	Lawton	464.31	3.800	779.60	4.171	100	Maintenance activities complete. SAIDI and SAIFI both declined primarily due to outages on the source circuit. Additional activities are planned on the source circuit in 2020.
9531432	Nowata	Tulsa	464.23	3.614	240.36	1.783	100	Maintenance activities complete, with an approximate 48% improvement to SAIDI and 51% improvement to SAIFI.

PUBLIC SERVICE COMPANY OF OKLAHOMA

2020 Chapter 35 Annual Report

Table 2: Performance Improvement on Year 2018 5% Worst Performing Circuits

Circuit ID	Station Name	District	Y2018 SAIDI	Y2018 SAIFI	Y2019 SAIDI	Y2019 SAIFI	% Complete*	Comments/Maintenance Summary
95TU-12	Tuttle	Lawton	455.37	4.167	378.00	6.239	100	Maintenance activities complete, with an approximate 17% improvement to SAIDI. SAIFI worsened primarily due to weather related issues in June and August prior to maintenance activities being completed. There was another significant outage in August caused by a Co-Op line falling on a PSO line.
9519232	Lequire	McAlester	450.80	4.965	30.25	0.451	100	Maintenance activities complete, with an approximate 93% improvement to SAIDI and 91% improvement to SAIFI.
95DD-11	Davidson	Lawton	449.00	2.827	184.46	2.772	100	Maintenance activities complete, with an approximate 59% improvement to SAIDI and 2% improvement to SAIFI.
95NR-11	Norge Road	Lawton	448.56	5.087	202.93	2.525	100	Maintenance activities complete, with an approximate 55% improvement to SAIDI and 50% improvement to SAIFI.
95ZH-1	Prattville	Tulsa	436.91	3.571	15.74	0.161	100	Maintenance activities complete, with an approximate 96% improvement to SAIDI and 95% improvement to SAIFI.
95FS-11	Foss City	Lawton	436.12	5.110	285.20	3.040	100	Maintenance activities complete, with an approximate 35% improvement to SAIDI and 41% improvement to SAIFI.
95ZG-2	Jenks	Tulsa	435.89	6.240	7.77	0.102	100	Maintenance activities complete, with an approximate 98% improvement to SAIDI and 98% improvement to SAIFI.

* % complete represents the total percentage of planned 2019 maintenance activities completed. Planned maintenance activities include both distribution line maintenance and vegetation management.

The aggregate SAIFI and SAIDI performance improvement of the Y2018 Worst Performing Circuits was 59% and 70%, respectively.

Aggregated Indices of Year 2018 Worst Performing Circuits		
Year	SAIFI	SAIDI
2018	4.432	565.45
2019	1.837	171.96
% Improvement	59%	70%

Appendix 1
PSO 2020 Annual Vegetation Management Plan

District	Station	Location	Circuit Name	Percent Complete
First Quarter Plan				
Lawton	ELK CITY	ELK CITY	33310	
Lawton	CHEYENNE	7TH & SQUARETOP RD	CH 01	44%
Lawton	CLINTON JUNCTION	WEST COMMERCE ST, CLINTON	CJ 15	
Lawton	CARPENTER	HWY 34 & N 2030 RD	CP 01	90%
Lawton	CLINTON SHERMAN AFB	5TH & SOONER DR, VLINTON	CS 19	
Lawton	DILL CITY	DILL CITY	DC 01	56%
Lawton	DUNCAN 6TH ST	6TH STREET, DUNCAN	DN 01	
Lawton	DUNCAN 6TH ST	6TH STREET, DUNCAN	DN 02	
Lawton	53 & CACHE ROAD	53 & CACHE ROAD	LC 19	
Lawton	LAWTON EASTSIDE	SE 60TH & GORE	LE 14	
Lawton	LAWTON GORE	N RAILROAD & GORE	LG 13	
Lawton	SNYDER	SNYDER	SD 01	
Lawton	SNYDER	SNYDER	SD 11	
Lawton	WAURIKA	WAURIKA	WK 05	
Lawton	WAURIKA	WAURIKA	WK 09	
McAlester	OKMULGEE CITY	OKMULGEE	05801	
McAlester	OKMULGEE CITY	OKMULGEE	05803	
McAlester	OKMULGEE CITY	OKMULGEE	05804	
McAlester	OKMULGEE CITY	OKMULGEE	05831	
McAlester	OKEMAH	OKEMAH	07432	88%
McAlester	ANTLERS	ANTLERS	09331	
McAlester	MCALESTER CHEROKEE	9TH & CHEROKEE	16601	
McAlester	MCALESTER CHEROKEE	9TH & CHEROKEE	16602	
McAlester	TALAHINA WEST	TALAHINA	30232	
McAlester	MCALESTER CITY	N 6TH & E LINCOLN	80351	35%
McAlester	LONE OAK	LONE OAK	85652	
Tulsa	BELLAIRE	45TH & PEORIA	3702	
Tulsa	TPS	W 36TH & ELWOOD	A 4	
Tulsa	PINE & PEORIA	PINE & PEORIA	C 6	
Tulsa	141ST & PINE	141ST & PINE	ET 1	
Tulsa	141ST & PINE	141ST & PINE	ET 3	
Tulsa	ZUNIS	12TH & ZUNIS	G 4	
Tulsa	TULSA NORTH 138	86TH ST NO & CINCINATTI	H 1	
Tulsa	36TH & LEWIS	36TH & LEWIS	N 1	
Tulsa	36TH & LEWIS	36TH & LEWIS	N 2	
Tulsa	CATOOSA	193RD & PINE	O 1	
Tulsa	21ST & 89TH EAST AVE	21ST & 89TH EAST AVE	Q 4	
Tulsa	SOUTHERN HILLS	65TH & LEWIS	T 2	
Tulsa	FULTON	15TH & FULTON	V 1	
Tulsa	FULTON	15TH & FULTON	V 5	
Tulsa	136TH & YALE	136TH & YALE	X 1	
Tulsa	96TH & YALE	96TH & YALE	XE 1	

Appendix 1
PSO 2020 Annual Vegetation Management Plan

District	Station	Location	Circuit Name	Percent Complete
Tulsa	96TH & YALE	96TH & YALE	XE 6	
Tulsa	121ST & LYNN LANE	121ST & LYNN LANE	XF 2	
Tulsa	SOUTH HUDSON	51ST & HUDSON	Y 1	
Tulsa	SOUTH HUDSON	51ST & HUDSON	Y 5	
Tulsa	WARREN MEDICAL CENTER	66TH & YALE	ZI 2	
Tulsa	BROKEN ARROW 101ST	101ST S & ASPEN	ZJ 1	
Tulsa	BROKEN ARROW 101ST	101ST S & ASPEN	ZJ 2	
Tulsa	BROKEN ARROW 101ST	101ST S & ASPEN	ZJ 3	
Tulsa	BROKEN ARROW 101ST	101ST S & ASPEN	ZJ 4	
Tulsa	77TH & MEMORIAL	77TH & MEMORIAL	ZM 1	
Tulsa	ORAL ROBERTS UNIVERSITY	81ST & DELAWARE	ZR 8	
Tulsa	PORT OF CATOOSA	PORT OF CATOOSA	ZW 2	
Tulsa	BIXBY 111TH	111TH SO & MEMORIAL	ZX 3	
Tulsa	BIXBY 111TH	111TH SO & MEMORIAL	ZX 4	
Tulsa Rural	LOCUST GROVE	LOCUST GROVE	12033	
Tulsa Rural	HOMINY PRISON	HOMINY	26132	36%
Tulsa Rural	BIRD HOLLOW	LANGLEY	69431	
Second Quarter Plan				
Lawton	CARTER	CARTER	CR 01	
Lawton	CLINTON SHERMAN AFB	5TH & SOONER DR, VLINTON	CS 13	
Lawton	DUNCAN BOIS DARC	13TH & STEVENS	DB 01	
Lawton	DUNCAN EASTSIDE	EASTWOOD DR, DUNCAN	DE 17	
Lawton	ELMER JUNCTION 549	ELMER	EM 11	
Lawton	FREDERICK JUNCTION	COUNTY CLUB RD & E 1800 RD	FJ 11	
Lawton	FOSS CITY	FOSS CITY	FS 11	
Lawton	GOULD	GOULD	GD 01	
Lawton	HEADRICK	HEADRICK	HK 11	
Lawton	LAWTON EASTSIDE	SE 60TH & GORE	LE 11	
Lawton	LAWTON EASTSIDE	SE 60TH & GORE	LE 17	
Lawton	TIPTON CITY	TIPTON	TP 01	
Lawton	TIPTON CITY	TIPTON	TP 05	
McAlester	OKMULGEE CITY	OKMULGEE	05833	
McAlester	LEQUIRE	LEQUIRE	19231	
McAlester	WFEC CANADIAN	CANADIAN	21031	
McAlester	LEHIGH	LEHIGH	21851	
McAlester	MCALESTER CITY	N 6TH & E LINCOLN	80354	
McAlester	LONE OAK	LONE OAK	85651	
Tulsa	YALE & ARCHER	YALE & ARCHER	702	
Tulsa	36TH & PITTSBURG	36TH & PITTSBURG	1602	
Tulsa	COLLEGE	4TH & INDIANAPOLIS	2501	
Tulsa	COLLEGE	4TH & INDIANAPOLIS	2502	
Tulsa	TULSA SOUTHEAST	41ST & SHERIDAN	D 1	
Tulsa	TULSA NORTH 138	86TH ST NO & CINCINATTI	H 5	

Appendix 1
PSO 2020 Annual Vegetation Management Plan

District	Station	Location	Circuit Name	Percent Complete
Tulsa	81ST & YALE	81ST & YALE	P 2	
Tulsa	81ST & YALE	81ST & YALE	P 3	
Tulsa	81ST & YALE	81ST & YALE	P 4	
Tulsa	81ST & YALE	81ST & YALE	P 6	
Tulsa	81ST & YALE	81ST & YALE	P 7	
Tulsa	WHIRLPOOL	CHEROKEE IND PARK	XC 1	
Tulsa	96TH & YALE	96TH & YALE	XE 2	
Tulsa	121ST & LYNN LANE	121ST & LYNN LANE	XF 1	
Tulsa	LYNN LANE	21ST & 193RD E AVE	ZS 1	
Tulsa	BROKEN ARROW 81ST	81ST & ASPEN	ZV 1	
Tulsa	BROKEN ARROW 81ST	81ST & ASPEN	ZV 2	
Tulsa	BROKEN ARROW 81ST	81ST & ASPEN	ZV 4	
Tulsa	BROKEN ARROW 81ST	81ST & ASPEN	ZV 5	
Tulsa	PORT OF CATOOSA	PORT OF CATOOSA	ZW 5	
Tulsa	BIXBY 111TH	111TH SO & MEMORIAL	ZX 6	
Tulsa	CHEROKEE IND PARK	CHEROKEE IND PARK	ZY 3	
Tulsa Rural	SAILBOAT BRIDGE	HWY 59 NORTH	11531	
Tulsa Rural	AFTON	AFTON	11831	
Tulsa Rural	BARTLESVILLE COMANCHE	N COMANCHE & FRANK PHILLIPS	15532	
Tulsa Rural	BARTLESVILLE COMANCHE	N COMANCHE & FRANK PHILLIPS	15536	
Tulsa Rural	NORTHEASTERN POWER	OOLOGAH	86432	
Third Quarter Plan				
Lawton	ALTUS JUNCTION	ALTUS	AL 11	
Lawton	CLINTON NATURAL GAS	CUSTER CITY RD & E 1050 RD	CC 01	
Lawton	DUNCAN EASTSIDE	EASTWOOD DR, DUNCAN	DE 16	
Lawton	DUKE	DUKE	DK 11	
Lawton	DUNCAN 138	13TH & CHEROKEE	DS 12	
Lawton	ERICK	ERICK	ER 11	
Lawton	53 & CACHE ROAD	53 & CACHE ROAD	LC 11	
Lawton	LAWTON GORE	N RAILROAD & GORE	LG 14	
Lawton	MARTHA SUB	HWY 283 & E 1585 RD	MA 11	
Lawton	MARTHA SUB	HWY 283 & E 1585 RD	MA 15	
Lawton	ROOSEVELT	ROOSEVELT	RO 01	
McAlester	ATOKA CANEY	ATOKA	07531	
McAlester	BROKEN BOW	BROKEN BOW	09631	
McAlester	CROWDER	CROWDER	13731	
McAlester	WILBURTON	WILBURTON	14531	
McAlester	CLAYTON	CLAYTON	18131	
McAlester	WISTER	WISTER	18531	
McAlester	WISTER	WISTER	18532	
McAlester	TALAHINA WEST	TALAHINA	30231	
Tulsa	36TH & PITTSBURG	36TH & PITTSBURG	1605	
Tulsa	TULSA SOUTHEAST	41ST & SHERIDAN	D 2	

Appendix 1
PSO 2020 Annual Vegetation Management Plan

District	Station	Location	Circuit Name	Percent Complete
Tulsa	TULSA SOUTHEAST	41ST & SHERIDAN	D 4	
Tulsa	SAND SPRINGS 138	SAND SPRINGS	K 2	
Tulsa	SAND SPRINGS 138	SAND SPRINGS	K 3	
Tulsa	SOUTHERN HILLS	65TH & LEWIS	T 3	
Tulsa	NORTH MINGO	30TH ST NO & MINGO	U 2	
Tulsa	NORTH MINGO	30TH ST NO & MINGO	U 4	
Tulsa	121ST & LYNN LANE	121ST & LYNN LANE	XF 4	
Tulsa	ONETA 138	HWY 51 & ONETA RD	ZQ 2	
Tulsa	PORT OF CATOOSA	PORT OF CATOOSA	ZW 4	
Tulsa	CHEROKEE IND PARK	CHEROKEE IND PARK	ZY 1	
Tulsa	CHEROKEE IND PARK	CHEROKEE IND PARK	ZY 2	
Tulsa Rural	DEWEY BLUESTEM	DEWEY	32431	
Tulsa Rural	DEWEY BLUESTEM	DEWEY	32432	
Tulsa Rural	DEWEY BLUESTEM	DEWEY	32433	
Tulsa Rural	PRYOR JUNCTION	PRYOR	86532	
Tulsa Rural	PRYOR CREEK	HWY 69A & ARMIN RD	95637	
Tulsa Rural	PRYOR CREEK	HWY 69A & ARMIN RD	95638	
Fourth Quarter Plan				
Lawton	HINTON	HINTON	HN 11	
Lawton	HOBART CITY	HOBART	HO 17	
Lawton	53 & CACHE ROAD	53 & CACHE ROAD	LC 15	
Lawton	PORTER HILL	PORTER HILL	PH 11	
Lawton	TUTTLE	TUTTLE	TU 11	
McAlester	OKMULGEE CITY	OKMULGEE	05836	
McAlester	OKEMAH	OKEMAH	07431	
McAlester	IDABEL	IDABEL	09531	
McAlester	WILBURTON	WILBURTON	14532	
McAlester	CRAIG JUNCTION	PASEO DR & CRAIG PLANT RD, IDABEL	83431	
Tulsa	DAWSON	PINE & MINGO	E 3	
Tulsa	DAWSON	PINE & MINGO	E 1	
Tulsa	KNOXVILLE	PINE & KNOXVILLE	1101	
Tulsa	NORTH HARVARD & 34TH	NORTH HARVARD & 34TH	2902	
Tulsa	WHITE CITY	8TH & YALE	3501	
Tulsa	TULSA SOUTHEAST	41ST & SHERIDAN	D 6	
Tulsa	MOHAWK PUMP STATION	41ST ST NO & LOUISVILLE	F 3	
Tulsa	ZUNIS	12TH & ZUNIS	G 3	
Tulsa	SAND SPRINGS 138	SAND SPRINGS	K 8	
Tulsa	SOUTHERN HILLS	65TH & LEWIS	T 7	
Tulsa	NORTH MINGO	30TH ST NO & MINGO	U 7	
Tulsa	FULTON	15TH & FULTON	V 2	
Tulsa	FULTON	15TH & FULTON	V 3	
Tulsa	KENOSHA	4TH & LANSING	XA 2	

Appendix 1
PSO 2020 Annual Vegetation Management Plan

District	Station	Location	Circuit Name	Percent Complete
Tulsa	81ST & GARNETT	81ST & GARNETT	XB 5	
Tulsa	96TH & YALE	96TH & YALE	XE 3	
Tulsa	SOUTH HUDSON	51ST & HUDSON	Y 4	
Tulsa	46TH ST. NORTH	46TH STREET NORTH & ROCKFORD	ZD 4	
Tulsa	FORD GLASS	56TH & 129TH E AVE	ZF 6	
Tulsa	BROKEN ARROW 101ST	101ST S & ASPEN	ZJ 5	
Tulsa	77TH & MEMORIAL	77TH & MEMORIAL	ZM 6	
Tulsa	OWASSO	86TH ST NO & GARNETT	ZN 2	
Tulsa	OWASSO	86TH ST NO & GARNETT	ZN 4	
Tulsa	OWASSO	86TH ST NO & GARNETT	ZN 5	
Tulsa	52ND & DELAWARE	52ND & DELAWARE	ZP 3	
Tulsa	ORAL ROBERTS UNIVERSITY	81ST & DELAWARE	ZR 7	
Tulsa	LYNN LANE	21ST & 193RD E AVE	ZS 2	
Tulsa	BROKEN ARROW 81ST	81ST & ASPEN	ZV 6	
Tulsa	BIXBY 111TH	111TH S & MEMORIAL	ZX 1	
Tulsa	BIXBY 111TH	111TH SO & MEMORIAL	ZX 2	
Tulsa	CHEROKEE IND PARK	CHEROKEE IND PARK	ZY 4	
Tulsa Rural	MOUND ROAD	SW ADAMS & MOUND RD	35433	
Tulsa Rural	VINITA	VINITA	82831	
Tulsa Rural	PRYOR JUNCTION	PRYOR	86531	

Appendix 2
PSO Vegetation Management Performance Summary Cycle 4

District	Station	Location	Circuit Name	Percent Complete	Date Complete
Lawton	ALTUS JUNCTION	ALTUS	33301	100%	Dec 18
Lawton	BLANCHARD SOUTH	BLANCHARD	BL 11	100%	Dec 19
Lawton	BLANCHARD SOUTH	BLANCHARD	BL 15	100%	Dec 19
Lawton	BUTLER	BUTLER	BT 01	100%	Mar 19
Lawton	CACHE	CACHE	CA 11	100%	Dec 18
Lawton	CANUTE	CANUTE	CT 11	100%	Mar 19
Lawton	CARPENTER	HWY 34 & N 2030 RD	CP 01	90%	
Lawton	CHEYENNE	7TH & SQUARETOP RD	CH 01	44%	
Lawton	CLINTON CITY	CLINTON	33306	100%	Mar 19
Lawton	CLINTON CITY	CLINTON	CL 11	100%	Nov 19
Lawton	CLINTON JUNCTION	WEST COMMERCE ST, CLINTON	CJ 11	100%	Sep 19
Lawton	CLINTON JUNCTION	WEST COMMERCE ST, CLINTON	CJ 17	100%	Nov 19
Lawton	CLINTON SHERMAN AFB	5TH & SOONER DR, VLINTON	CS 15	100%	Mar 19
Lawton	CORN COLONY	N2260 RD & E1120 RD	CO 11	100%	Oct 19
Lawton	CORNVILLE	CORNVILLE	CV 11	100%	Feb 19
Lawton	CORNVILLE	CORNVILLE	CV 19	67%	
Lawton	DILL CITY	DILL CITY	DC 01	56%	
Lawton	DUKE	DUKE	33312	100%	Dec 18
Lawton	DUNCAN 138	13TH & CHEROKEE	DS 14	100%	Sep 19
Lawton	DUNCAN EASTSIDE	EASTWOOD DR, DUNCAN	DE 14	100%	Sep 19
Lawton	DUNCAN EASTSIDE	EASTWOOD DR, DUNCAN	DE 19	100%	Aug 18
Lawton	DUNCAN NORTHWEST	HWY 81 & N 15TH, DUNCAN	NW 01	100%	Jul 19
Lawton	DUNCAN NORTHWEST	HWY 81 & N 15TH, DUNCAN	NW 03	100%	Jul 19
Lawton	DUNCAN TOSCO	DUNCAN	DT 11	100%	Jul 19
Lawton	ELK CITY	ELK CITY	33311	100%	Oct 19
Lawton	ELK CITY	ELK CITY	33316	100%	Mar 19
Lawton	ELK CITY	ELK CITY	EC 11	100%	Nov 19
Lawton	ELK CITY	ELK CITY	EC 13	100%	Apr 19
Lawton	ELK CITY	ELK CITY	EC 16	100%	Nov 19
Lawton	FALCON ROAD	W 7TH ST & FALCON DR	FR 11	100%	Oct 19
Lawton	FALCON ROAD	W 7TH ST & FALCON DR	FR 15	100%	Oct 19
Lawton	FALCON ROAD	W 7TH ST & FALCON DR	FR 19	100%	Apr 19
Lawton	GRANDFIELD	GRANDFIELD	GF 11	100%	Sep 19
Lawton	GRANITE	GRANITE	GN 11	100%	Sep 19
Lawton	HOBART CITY	HOBART	33309	100%	Jun 19
Lawton	HOBART CITY	HOBART	HO 11	100%	Oct 19
Lawton	HOBART CITY	HOBART	HO 15	100%	Nov 19
Lawton	HOLLIS	HOLLIS	HL 01	100%	Nov 19
Lawton	HOLLIS	HOLLIS	HL 05	100%	Dec 18
Lawton	HOLLIS	HOLLIS	HL 09	100%	Sep 19
Lawton	LAWTON SHERIDAN ROAD	NW SHERIDAN & NW KINGSBURY	LS 13	100%	Dec 18
Lawton	LAWTON SHERIDAN ROAD	NW SHERIDAN & NW KINGSBURY	LS 15	100%	Aug 19
Lawton	LAWTON SHERIDAN ROAD	NW SHERIDAN & NW KINGSBURY	LS 17	100%	Sep 19

Appendix 2
PSO Vegetation Management Performance Summary Cycle 4

District	Station	Location	Circuit Name	Percent Complete	Date Complete
Lawton	LAWTON WESTSIDE	NW 67TH & GORE	LW 110	100%	Apr 19
Lawton	LAWTON WESTSIDE	NW 67TH & GORE	LW 13	100%	Dec 18
Lawton	LAWTON WESTSIDE	NW 67TH & GORE	LW 14	100%	Feb 19
Lawton	LAWTON WESTSIDE	NW 67TH & GORE	LW 16	100%	Jan 19
Lawton	LAWTON WESTSIDE	NW 67TH & GORE	LW 17	100%	May 19
Lawton	LAWTON WESTSIDE	NW 67TH & GORE	LW 19	100%	Jun 19
Lawton	LEEDEY	LEEDEY	LY 01	100%	Nov 19
Lawton	LONE WOLF	LONE WOLF	LF 11	100%	Jul 19
Lawton	MOUNTAIN VIEW	MOUNTAIN VIEW	MV 01	100%	Mar 19
Lawton	MOUNTAIN VIEW	MOUNTAIN VIEW	MV 05	100%	Mar 19
Lawton	NORGE RD	NORGE RD, CHICKASHA DOCK	NR 13	100%	Dec 18
Lawton	RUSH SPRINGS CHESTNUT STREET	RUSH SPRINGS	RS 11	100%	Dec 19
Lawton	SAYRE	SAYRE	SY 19	100%	Nov 19
Lawton	STRONG CITY	N 1910 RD & E970 RD	SC 01	100%	Oct 19
Lawton	TEMPLE	TEMPLE	TM 01	100%	Nov 18
Lawton	TERRAL	TERRAL	TL 11	100%	Dec 18
Lawton	THOMAS ORC	THOMAS	PT 11	100%	Jan 19
Lawton	TUTTLE	TUTTLE	TU 12	94%	
Lawton	WALTERS JUNCTION	CR N2620 & W NORTH BOUNDARY	33305	100%	Aug 18
Lawton	WAURIKA	WAURIKA	33304	100%	Oct 19
Lawton	WAURIKA	WAURIKA	WK 01	100%	Jan 19
McAlester	ATOKA 138	ATOKA	83951	100%	Mar 19
McAlester	ATOKA 138	ATOKA	83952	100%	Dec 19
McAlester	BROKEN BOW	BROKEN BOW	9633	100%	Aug 19
McAlester	FORT TOWSON	FORT TOWSON	9931	100%	Apr 19
McAlester	HENRYETTA	HENRYETTA	6932	100%	Dec 19
McAlester	LANE	LANE	18831	100%	Dec 19
McAlester	LEHIGH	LEHIGH	21852	100%	Mar 19
McAlester	MCALESTER CITY	N 6TH & E LINCOLN	80351	35%	
McAlester	MCALESTER CITY	N 6TH & E LINCOLN	80353	100%	Nov 19
McAlester	MCALESTER CITY	N 6TH & E LINCOLN	80355	100%	Oct 19
McAlester	MCALESTER INDUSTRIAL	MCALESTER INDUSTRIAL	70851	100%	Nov 18
McAlester	MCALESTER INDUSTRIAL	MCALESTER INDUSTRIAL	70853	100%	Nov 18
McAlester	MCALESTER SOUTH	HWY 69 & HARDY SPRINGS RD	18951	100%	Jul 19
McAlester	MCALESTER SOUTH	HWY 69 & HARDY SPRINGS RD	18952	100%	Jun 19
McAlester	OKEMAH	OKEMAH	7432	88%	
McAlester	OKEMAH	OKEMAH	7433	100%	Dec 18
McAlester	OKMULGEE CITY	OKMULGEE	5832	100%	Oct 19
McAlester	OKMULGEE CITY	OKMULGEE	5837	100%	Apr 19
McAlester	STIGLER	STIGLER	14333	100%	Jan 19
Tulsa	121ST & LYNN LANE	121ST & LYNN LANE	XF 3	100%	May 19
Tulsa	15TH & PEORIA	15TH & PEORIA	3003	100%	Mar 19
Tulsa	21ST & 89TH EAST AVE	21ST & 89TH EAST AVE	Q 2	100%	Jun 19

Appendix 2
PSO Vegetation Management Performance Summary Cycle 4

District	Station	Location	Circuit Name	Percent Complete	Date Complete
Tulsa	21ST & 89TH EAST AVE	21ST & 89TH EAST AVE	Q 3	100%	Dec 18
Tulsa	52ND & DELAWARE	52ND & DELAWARE	ZP 1	100%	Nov 19
Tulsa	52ND & DELAWARE	52ND & DELAWARE	ZP 4	100%	Apr 19
Tulsa	61ST & 89TH	61ST & 89TH	W 6	100%	Dec 19
Tulsa	72ND & ELWOOD	72ND & ELWOOD	XJ 1	100%	Apr 19
Tulsa	72ND & ELWOOD	72ND & ELWOOD	XJ 3	100%	May 19
Tulsa	77TH & MEMORIAL	77TH & MEMORIAL	ZM 4	100%	Jun 19
Tulsa	81ST & YALE	81ST & YALE	P 1	100%	Dec 19
Tulsa	81ST & YALE	81ST & YALE	P 5	100%	Apr 19
Tulsa	81ST & YALE	81ST & YALE	P 8	100%	Jul 18
Tulsa	96TH & YALE	96TH & YALE	XE 4	100%	Dec 19
Tulsa	96TH & YALE	96TH & YALE	XE 5	100%	Nov 19
Tulsa	BROKEN ARROW 101ST	101ST S & ASPEN	ZJ 7	100%	Jun 19
Tulsa	BROKEN ARROW 101ST	101ST S & ASPEN	ZJ 8	100%	Jan 19
Tulsa	BROKEN ARROW NORTH	61ST & LYNN LANE	L 1	100%	Aug 19
Tulsa	BROKEN ARROW NORTH	61ST & LYNN LANE	L 2	100%	May 19
Tulsa	BROKEN ARROW NORTH	61ST & LYNN LANE	L 3	100%	Jun 19
Tulsa	BROKEN ARROW NORTH	61ST & LYNN LANE	L 4	100%	Apr 19
Tulsa	BROKEN ARROW NORTH	61ST & LYNN LANE	L 5	100%	Aug 19
Tulsa	BROKEN ARROW NORTH	61ST & LYNN LANE	L 6	100%	Dec 18
Tulsa	BROKEN ARROW NORTH	61ST & LYNN LANE	L 7	100%	Jul 18
Tulsa	BROKEN ARROW NORTH	61ST & LYNN LANE	L 8	100%	Oct 18
Tulsa	CATOOSA	193RD & PINE	O 2	100%	Dec 19
Tulsa	CATOOSA	193RD & PINE	O 3	100%	Nov 19
Tulsa	COWETA JUNCTION	COWETA	ZC 2	100%	Oct 19
Tulsa	DAWSON	PINE & MINGO	E 6	100%	Mar 19
Tulsa	EAST 121ST STREET	121ST ST S & 116TH E	XK 1	100%	May 19
Tulsa	EAST 121ST STREET	121ST ST S & 116TH E	XK 3	100%	Dec 19
Tulsa	EAST 121ST STREET	121ST ST S & 116TH E	XK 5	100%	May 19
Tulsa	FAIRGROUNDS	TULSA FAIRGROUNDS	801	100%	Oct 18
Tulsa	FAIRGROUNDS	TULSA FAIRGROUNDS	802	100%	Nov 18
Tulsa	FAIRGROUNDS	TULSA FAIRGROUNDS	804	100%	Jun 19
Tulsa	FAIRGROUNDS	TULSA FAIRGROUNDS	805	100%	Dec 18
Tulsa	FULTON	15TH & FULTON	V 4	100%	Oct 19
Tulsa	FULTON	15TH & FULTON	V 6	100%	Nov 19
Tulsa	JENKS	96TH & ELWOOD	ZG 1	100%	Apr 19
Tulsa	JENKS	96TH & ELWOOD	ZG 2	100%	Oct 19
Tulsa	KENOSHA	4TH & LANSING	XA 3	100%	Dec 18
Tulsa	MAPLEWOOD & DRIVE	PINE & MAPLEWOOD	1401	100%	Mar 19
Tulsa	MAYO ROAD	36TH & 129TH E AVE	ZB 3	100%	Feb 19
Tulsa	MAYO ROAD	36TH & 129TH E AVE	ZB 6	100%	Jun 19
Tulsa	MAYO ROAD	36TH & 129TH E AVE	ZB 8	100%	Jun 19
Tulsa	MIDLAND	21ST & CINCINATTI	3101	100%	Nov 19

Appendix 2
PSO Vegetation Management Performance Summary Cycle 4

District	Station	Location	Circuit Name	Percent Complete	Date Complete
Tulsa	MINGO	36TH & MINGO	ZK 1	100%	Sep 19
Tulsa	MINGO	36TH & MINGO	ZK 2	100%	Nov 19
Tulsa	MINGO	36TH & MINGO	ZK 6	100%	Jun 19
Tulsa	MOHAWK PUMP STATION	41ST ST NO & LOUISVILLE	F 2	100%	Nov 18
Tulsa	OAKS 138	W 61ST SO & 44TH W AVE	ZE 1	100%	Aug 19
Tulsa	OAKS 138	W 61ST SO & 44TH W AVE	ZE 4	100%	Dec 19
Tulsa	OAKS 138	W 61ST SO & 44TH W AVE	ZE 6	100%	Sep 19
Tulsa	ONETA 138	HWY 51 & ONETA RD	ZQ 5	100%	Apr 19
Tulsa	OWASSO	86TH ST NO & GARNETT	ZN 6	100%	Jan 19
Tulsa	OWASSO 109TH ST NORTH	109TH ST NO & 145TH E AVE	XG 3	100%	Jan 19
Tulsa	OWASSO 109TH ST NORTH	109TH ST NO & 145TH E AVE	XG 4	100%	Jan 19
Tulsa	PINE & PEORIA	PINE & PEORIA	C 1	100%	Feb 19
Tulsa	PINE & PEORIA	PINE & PEORIA	C 2	100%	Dec 19
Tulsa	PINE & PEORIA	PINE & PEORIA	C 3	100%	Apr 19
Tulsa	PINE & PEORIA	PINE & PEORIA	C 4	100%	Mar 19
Tulsa	PINE & PEORIA	PINE & PEORIA	C 5	100%	Apr 19
Tulsa	PRUE	PRUE	ZT 1	100%	Mar 19
Tulsa	SAND SPRINGS 138	SAND SPRINGS	K 5	100%	Mar 19
Tulsa	SOUTHERN HILLS	65TH & LEWIS	T 5	100%	Jul 19
Tulsa	TPS	W 36TH & ELWOOD	A 11	100%	Jul 18
Tulsa	TPS	W 36TH & ELWOOD	A 3	100%	Jun 19
Tulsa	TULSA NORTH 138	86TH ST NO & CINCINATTI	H 2	100%	Oct 19
Tulsa	TULSA NORTH 138	86TH ST NO & CINCINATTI	H 3	100%	Sep 19
Tulsa	TULSA NORTH 138	86TH ST NO & CINCINATTI	H 4	100%	Sep 19
Tulsa	TULSA SOUTHEAST	41ST & SHERIDAN	D 3	100%	Dec 19
Tulsa	TULSA SOUTHEAST	41ST & SHERIDAN	D 7	99%	
Tulsa	UTICA SQUARE	UTICA SQUARE	1201	100%	Mar 19
Tulsa	WAGONER	WAGONER	S 1	100%	Jan 19
Tulsa	WEST EDISON	33RD W AVE & EDISON	R 1	100%	Dec 18
Tulsa	WEST EDISON	33RD W AVE & EDISON	R 2	100%	Oct 18
Tulsa	WEST EDISON	33RD W AVE & EDISON	R 3	100%	Oct 18
Tulsa	WEST EDISON	33RD W AVE & EDISON	R 4	100%	Jul 19
Tulsa	WEST EDISON	33RD W AVE & EDISON	R 5	100%	Nov 18
Tulsa	WEST EDISON	33RD W AVE & EDISON	R 6	100%	Nov 18
Tulsa	YALE & ARCHER	YALE & ARCHER	J 1	100%	Dec 18
Tulsa	YALE & ARCHER	YALE & ARCHER	J 2	100%	Dec 18
Tulsa	YALE & ARCHER	YALE & ARCHER	J 4	100%	Nov 19
Tulsa	YALE & ARCHER	YALE & ARCHER	J 6	100%	Mar 19
Tulsa Rural	ADAIR	ADAIR	11931	100%	Mar 19
Tulsa Rural	ADAIR	ADAIR	11932	100%	Dec 19
Tulsa Rural	AFTON	AFTON	11832	100%	Sep 19
Tulsa Rural	BARNSDALL TAP	HWY 20, BARNSDALL	33013	100%	Nov 19
Tulsa Rural	BARNSDALL TAP	HWY 20, BARNSDALL	33014	100%	Nov 19

Appendix 2
PSO Vegetation Management Performance Summary Cycle 4

District	Station	Location	Circuit Name	Percent Complete	Date Complete
Tulsa Rural	BARNSDALL TAP	BARNSDALL	85331	100%	Apr 19
Tulsa Rural	BARNSDALL TAP	BARNSDALL	85332	100%	Apr 19
Tulsa Rural	BARNSDALL TAP	BARNSDALL	85333	100%	Apr 19
Tulsa Rural	BARTLESVILLE COMANCHE	N COMANCHE & FRANK PHILLIPS	15533	100%	Nov 18
Tulsa Rural	BARTLESVILLE COMANCHE	N COMANCHE & FRANK PHILLIPS	15534	100%	Dec 18
Tulsa Rural	CARNES	HWY 99 & CR 5790	32931	100%	Aug 18
Tulsa Rural	CARNES	HWY 99 & CR 5790	32932	100%	Aug 18
Tulsa Rural	CHELSEA	CHELSEA	15731	99%	
Tulsa Rural	CHOUTEAU	CHOUTEAU	82631	100%	Dec 18
Tulsa Rural	DARBY	DARBY	17731	100%	Oct 18
Tulsa Rural	GROVE	GROVE	85934	99%	
Tulsa Rural	HERITAGE TRAIL	COUNTY RD 2809 & HWY 60	76731	100%	Feb 19
Tulsa Rural	HOMINY PRISON	HOMINY	26131	100%	Nov 19
Tulsa Rural	HOMINY PRISON	HOMINY	26132	36%	
Tulsa Rural	INOLA	INOLA	36532	100%	Dec 18
Tulsa Rural	JAY	JAY	24632	88%	
Tulsa Rural	MOUND ROAD	SW ADAMS & MOUND RD	35431	100%	Feb 19
Tulsa Rural	MOUND ROAD	SW ADAMS & MOUND RD	35432	100%	Feb 19
Tulsa Rural	MOUND ROAD	SW ADAMS & MOUND RD	35437	100%	Nov 18
Tulsa Rural	NORTHEASTERN POWER	OOLOGAH	86431	100%	Nov 18
Tulsa Rural	RAMONA	RAMONA	24831	100%	Aug 19
Tulsa Rural	SAILBOAT BRIDGE	HWY 59 NORTH	11532	100%	Apr 19
Tulsa Rural	SHIDLER	SHIDLER	16331	100%	Jun 19
Tulsa Rural	SHIDLER	SHIDLER	16332	100%	Dec 19
Tulsa Rural	SHIDLER	SHIDLER	16333	100%	Jun 19
Tulsa Rural	SHIDLER	SHIDLER	16334	100%	Jun 19
Tulsa Rural	SHIDLER	SHIDLER	16335	100%	Jun 19
Tulsa Rural	WILDHORSE	WILDHORSE	4601	100%	Dec 19