

Empire District Electric

**Infrastructure Policies,
Plans & Procedures**



Table of Contents

Infrastructure Management

| | Page |
|--|-------------|
| Introduction Letter | |
| 1.1 Distribution System | |
| 1.1.1 Detailed Inspection Schedule | 3 |
| 1.1.2 Detailed Inspection Checklist | 15 |
| 1.1.3 Patrol Inspection Schedule | 32 |
| 1.1.4 Patrol Description | 44 |
| 1.1.5 Intrusive Pole Inspection Schedule | 45 |
| 1.2 Transmission System | |
| 1.2.1 Detailed Inspection Schedule | 55 |
| 1.2.2 Patrol Inspection Description | 60 |
| 1.2.3 Intrusive Pole Inspection Schedule | 61 |
| 1.3 Annual Compliance Report | |
| 1.3.1 Annual Compliance Report | 65 |

Empire District Electric Company
602 S Joplin St., Joplin, Mo 64802

**Introduction to Empire District's
Infrastructure Policies, Plans & Procedures**

The Empire District Electric Company developed the following policies, plans & procedures with the primary goal of providing long-term capacity, energy, transmission, and efficiency solutions while maintaining competitive rates. One of the key objectives of the policy is to increase the overall reliability of the electric system.

Empire operates in Missouri, Kansas, Oklahoma and Arkansas. The Company is divided in two districts for operations – Eastern & Western and each district has four service areas. All four states in which we operate have rules concerning reliability. Empire's plan is designed to comply with the rules of all four states.

The Missouri Public Service Commission enacted their rules on July 1, 2008. The infrastructure plans for the state of Missouri require completion of a four-year or six-year cycle through the entire system by June 30 of the year ending the cycle. The schedules included in this plan are designed to show at least one full cycle through the system. The schedules include a classification of each circuit based upon the number of customers per circuit mile.

Infrastructure Summary

The infrastructure plans for the distribution system are also designed to maintain a consistent number of miles across the system and in each of Empire's eight service areas. The schedule was developed to distribute the work load and the expense across each of the service areas. The goal was to sync the mid-cycle vegetation schedule with the detailed inspection schedule of the infrastructure to minimize the number of trips and times that Empire must gain access to private property. As a result, when the vegetation schedule needs to be adjusted the infrastructure schedule will also need to be adjusted. Since intrusive inspection are done a twelve year cycle, there schedules require a separate site visit and will be performed by circuit.

Detailed inspections are done on the equipment using a checklist. Each piece of equipment is assigned a passing grade or corrective action required. Equipment that is assigned the corrective action required will be scheduled for repair or replacement. Patrol inspections are scheduled by circuit (not done as part of normal daily activities) to insure the entire circuit is inspected and problems are properly documented.

The infrastructure plan for the transmission system also maintains a consistent number of miles across the system for budgetary reasons. The schedule was developed to complete entire lines to achieve maximum reliability on each line. The transmission system has a detailed inspection every three years and an aerial patrol done annually. The detailed and patrol inspections are performed the same as with the distribution system. Since intrusive inspection are done a twelve year cycle, there schedules require a separate site visit and will be performed by line from substation to substation.

For the remainder of 2008 Empire will continue to perform detailed inspections of all capacitors, regulators and 3-phase reclosers. As part of our normal daily activities, Empire will continue to report problems found in the system for repair or replacement. The aerial patrol inspection of the transmission system will be performed in the fall of 2008. There will be 68 miles of intrusive pole inspection on the transmission system as per our intrusive pole inspection schedule provided in the plan.

Section 1.1

Distribution System

Section 1.1.1

Detailed Inspection Schedule

Empire District Electric Company

Infrastructure Detailed Inspection Summary

4 Year Maintenance Cycle

| Area | Total Meters | Total Miles | 2008 Miles Scheduled | 2009 Miles Scheduled | 2010 Miles Scheduled | 2011 Miles Scheduled | 2012 Miles Scheduled | 2013 Miles Scheduled | 2014 Miles Scheduled | 2015 Miles Scheduled | 2016 Miles Scheduled | 2017 Miles Scheduled | 2018 Miles Scheduled | 2019 Miles Scheduled | 2020 Miles Scheduled | 2021 Miles Scheduled |
|----------------|--------------|---------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 209 | 17121 | 377.3 | 0.0 | 25.9 | 58.0 | 47.3 | 52.2 | 35.1 | 61.1 | 42.8 | 54.9 | 25.9 | 58.0 | 47.3 | 52.2 | 35.1 |
| 211 | 7859 | 143.2 | 0.0 | 28.0 | 0.0 | 13.4 | 18.5 | 33.3 | 20.3 | 17.5 | 12.2 | 28.0 | 0.0 | 13.4 | 18.5 | 33.3 |
| 212 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 213 | 7955 | 190.5 | 0.0 | 32.3 | 0.0 | 43.1 | 22.0 | 18.6 | 22.7 | 6.6 | 45.2 | 32.3 | 0.0 | 43.1 | 22.0 | 18.6 |
| 214 | 27424 | 427.0 | 0.0 | 42.7 | 59.4 | 56.9 | 49.0 | 49.8 | 62.6 | 59.3 | 47.3 | 42.7 | 59.4 | 56.9 | 49.0 | 49.8 |
| 215 | 9763 | 187.1 | 0.0 | 38.0 | 11.2 | 19.3 | 20.8 | 22.2 | 41.4 | 18.8 | 15.3 | 38.0 | 11.2 | 19.3 | 20.8 | 22.2 |
| 216 | 4324 | 84.0 | 0.0 | 10.0 | 20.9 | 0.0 | 0.0 | 15.3 | 3.2 | 0.0 | 34.5 | 10.0 | 20.9 | 0.0 | 0.0 | 15.3 |
| 217 | 10385 | 234.3 | 0.0 | 42.0 | 16.0 | 2.6 | 39.3 | 48.1 | 14.0 | 25.8 | 46.5 | 42.0 | 16.0 | 2.6 | 39.3 | 48.1 |
| Total | 84831 | 1643.5 | 0.0 | 219.0 | 165.6 | 182.6 | 201.8 | 222.3 | 225.3 | 170.9 | 256.1 | 219.0 | 165.6 | 182.6 | 201.8 | 222.3 |
| Running | | | 0.0% | 13.3% | 23.4% | 34.5% | 46.8% | 60.3% | 74.0% | 84.4% | 100.0% | 113.3% | 123.4% | 134.5% | 146.8% | 160.3% |

6 Year Maintenance Cycle

| Area | Total Meters | Total Miles | 2008 Miles Scheduled | 2009 Miles Scheduled | 2010 Miles Scheduled | 2011 Miles Scheduled | 2012 Miles Scheduled | 2013 Miles Scheduled | 2014 Miles Scheduled | 2015 Miles Scheduled | 2016 Miles Scheduled | 2017 Miles Scheduled | 2018 Miles Scheduled | 2019 Miles Scheduled | 2020 Miles Scheduled | 2021 Miles Scheduled |
|----------------|--------------|---------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 209 | 2921 | 113.8 | 0.0 | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 33.7 | 42.4 | 0.0 | 21.0 | 0.0 | 0.0 | 16.7 |
| 211 | 13227 | 736.5 | 0.0 | 33.5 | 44.5 | 83.7 | 53.9 | 0.0 | 68.2 | 47.8 | 106.8 | 55.3 | 55.1 | 113.9 | 73.8 | 33.5 |
| 212 | 17021 | 829.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 213 | 9874 | 594.8 | 0.0 | 37.3 | 88.9 | 37.1 | 57.0 | 22.7 | 38.7 | 67.3 | 51.8 | 25.9 | 60.8 | 49.5 | 57.8 | 37.3 |
| 214 | 4587 | 265.5 | 0.0 | 0.0 | 23.1 | 65.1 | 0.0 | 0.0 | 28.5 | 71.3 | 43.0 | 0.0 | 0.0 | 0.0 | 34.5 | 0.0 |
| 215 | 12929 | 672.7 | 0.0 | 34.3 | 8.5 | 97.2 | 0.0 | 64.1 | 59.9 | 28.8 | 13.4 | 119.3 | 69.0 | 86.4 | 91.8 | 34.3 |
| 216 | 18488 | 833.6 | 0.0 | 49.8 | 35.9 | 74.2 | 56.4 | 55.3 | 43.2 | 34.4 | 55.4 | 91.4 | 0.0 | 85.7 | 52.4 | 49.8 |
| 217 | 8669 | 375.6 | 0.0 | 15.3 | 35.7 | 42.4 | 0.0 | 0.0 | 0.0 | 22.5 | 43.9 | 74.6 | 56.0 | 59.4 | 25.9 | 15.3 |
| Total | 87716 | 4421.7 | 0.0 | 186.9 | 236.5 | 399.7 | 167.3 | 142.1 | 238.5 | 305.8 | 356.7 | 366.4 | 261.9 | 395.0 | 336.2 | 186.9 |
| Running | | | 0.0% | 4.2% | 9.6% | 18.6% | 22.4% | 25.6% | 31.0% | 37.9% | 46.0% | 54.3% | 60.2% | 69.1% | 76.7% | 81.0% |

Empire District Totals

| | | | | | | | | | | | | | | | | |
|---------------|---------------|---------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Totals | 172547 | 6065.2 | 0.0 | 405.9 | 402.1 | 582.3 | 369.1 | 364.4 | 463.7 | 476.7 | 612.8 | 585.4 | 427.4 | 577.6 | 538.0 | 409.2 |
|---------------|---------------|---------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|

Company Totals

| Area | Total | Total | 2008 Miles | 2009 Miles | 2010 Miles | 2011 Miles | 2012 Miles | 2013 Miles | 2014 Miles | 2015 Miles | 2016 Miles | 2017 Miles | 2018 Miles | 2019 Miles | 2020 Miles | 2021 Miles |
|--------------|---------------|---------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Meters | Miles | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled |
| 209 | 20042 | 491.2 | 0.0 | 42.6 | 58.0 | 47.3 | 52.2 | 35.1 | 61.1 | 76.6 | 97.3 | 25.9 | 79.0 | 47.3 | 52.2 | 51.8 |
| 211 | 21086 | 879.7 | 0.0 | 61.5 | 44.5 | 97.1 | 72.4 | 33.3 | 88.5 | 65.3 | 119.0 | 83.3 | 55.1 | 127.3 | 92.3 | 66.8 |
| 212 | 17021 | 829.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 213 | 17829 | 785.2 | 0.0 | 69.6 | 88.9 | 80.3 | 79.0 | 41.3 | 61.4 | 73.9 | 97.0 | 58.1 | 60.8 | 92.7 | 79.8 | 55.9 |
| 214 | 32011 | 692.5 | 0.0 | 42.7 | 82.5 | 122.0 | 49.0 | 49.8 | 91.1 | 130.6 | 90.3 | 42.7 | 59.4 | 56.9 | 83.5 | 49.8 |
| 215 | 22692 | 859.8 | 0.0 | 72.3 | 19.7 | 116.4 | 20.8 | 86.3 | 101.3 | 47.6 | 28.8 | 157.3 | 80.2 | 105.7 | 112.7 | 56.5 |
| 216 | 22812 | 917.7 | 0.0 | 59.8 | 56.8 | 74.2 | 56.4 | 70.6 | 46.4 | 34.4 | 90.0 | 101.4 | 20.9 | 85.7 | 52.4 | 65.1 |
| 217 | 19054 | 610.0 | 0.0 | 57.3 | 51.7 | 45.0 | 39.3 | 48.1 | 14.0 | 48.3 | 90.4 | 116.6 | 72.0 | 62.0 | 65.1 | 63.3 |
| Total | 172547 | 6065.2 | 0.0 | 405.9 | 402.1 | 582.3 | 369.1 | 364.4 | 463.7 | 476.7 | 612.8 | 585.4 | 427.4 | 577.6 | 538.0 | 409.2 |

Company Percentages/Year

| Area | Total | Total | 2008 Miles | 2009 Miles | 2010 Miles | 2011 Miles | 2012 Miles | 2013 Miles | 2014 Miles | 2015 Miles | 2016 Miles | 2017 Miles | 2018 Miles | 2019 Miles | 2020 Miles | 2021 Miles |
|--------------|---------------|---------------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | Meters | Miles | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled |
| 209 | 20042 | 8.1% | 0.0% | 10.5% | 14.4% | 8.1% | 14.1% | 9.6% | 13.2% | 16.1% | 15.9% | 4.4% | 18.5% | 8.2% | 9.7% | 12.7% |
| 211 | 21086 | 14.5% | 0.0% | 15.2% | 11.1% | 16.7% | 19.6% | 9.1% | 19.1% | 13.7% | 19.4% | 14.2% | 12.9% | 22.0% | 17.2% | 16.3% |
| 212 | 17021 | 13.7% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| 213 | 17829 | 12.9% | 0.0% | 17.1% | 22.1% | 13.8% | 21.4% | 11.3% | 13.2% | 15.5% | 15.8% | 9.9% | 14.2% | 16.0% | 14.8% | 13.7% |
| 214 | 32011 | 11.4% | 0.0% | 10.5% | 20.5% | 20.9% | 13.3% | 13.7% | 19.6% | 27.4% | 14.7% | 7.3% | 13.9% | 9.8% | 15.5% | 12.2% |
| 215 | 22692 | 14.2% | 0.0% | 17.8% | 4.9% | 20.0% | 5.6% | 23.7% | 21.8% | 10.0% | 4.7% | 26.9% | 18.8% | 18.3% | 20.9% | 13.8% |
| 216 | 22812 | 15.1% | 0.0% | 14.7% | 14.1% | 12.7% | 15.3% | 19.4% | 10.0% | 7.2% | 14.7% | 17.3% | 4.9% | 14.8% | 9.7% | 15.9% |
| 217 | 19054 | 10.1% | 0.0% | 14.1% | 12.9% | 7.7% | 10.6% | 13.2% | 3.0% | 10.1% | 14.8% | 19.9% | 16.8% | 10.7% | 12.1% | 15.5% |
| Total | 172547 | 100.0% | 0.0% | 100.0% |

East/West Totals

| Area | Total | Total | 2008 Miles | 2009 Miles | 2010 Miles | 2011 Miles | 2012 Miles | 2013 Miles | 2014 Miles | 2015 Miles | 2016 Miles | 2017 Miles | 2018 Miles | 2019 Miles | 2020 Miles | 2021 Miles |
|--------------|---------------|---------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Meters | Miles | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled |
| East | 78011 | 2766.1 | 0.0 | 231.0 | 243.1 | 269.7 | 242.9 | 157.7 | 225.0 | 264.1 | 403.7 | 284.0 | 266.8 | 329.4 | 289.4 | 237.8 |
| West | 94536 | 3299.0 | 0.0 | 174.9 | 159.0 | 312.6 | 126.2 | 206.7 | 238.7 | 212.6 | 209.0 | 301.4 | 160.6 | 248.2 | 248.6 | 171.3 |
| Total | 172547 | 6065.2 | 0.0 | 405.9 | 402.1 | 582.3 | 369.1 | 364.4 | 463.7 | 476.7 | 612.8 | 585.4 | 427.4 | 577.6 | 538.0 | 409.2 |

State Totals

| Area | Total Meters | Total Miles | 2008 Miles Scheduled | 2009 Miles Scheduled | 2010 Miles Scheduled | 2011 Miles Scheduled | 2012 Miles Scheduled | 2013 Miles Scheduled | 2014 Miles Scheduled | 2015 Miles Scheduled | 2016 Miles Scheduled | 2017 Miles Scheduled | 2018 Miles Scheduled | 2019 Miles Scheduled | 2020 Miles Scheduled | 2021 Miles Scheduled |
|--------------|---------------|---------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| MO | 150483 | 5042.3 | 0.0 | 405.9 | 402.1 | 582.3 | 369.1 | 364.4 | 463.7 | 476.7 | 612.8 | 585.4 | 427.4 | 577.6 | 538.0 | 409.2 |
| KS | 10387 | 529.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OK | 7197 | 312.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AR | 4480 | 172.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 172547 | 6056.6 | 0.0 | 405.9 | 402.1 | 582.3 | 369.1 | 364.4 | 463.7 | 476.7 | 612.8 | 585.4 | 427.4 | 577.6 | 538.0 | 409.2 |

State 4 Year Maintenance Totals

| Area | Total Meters | Total Miles | 2008 Miles Scheduled | 2009 Miles Scheduled | 2010 Miles Scheduled | 2011 Miles Scheduled | 2012 Miles Scheduled | 2013 Miles Scheduled | 2014 Miles Scheduled | 2015 Miles Scheduled | 2016 Miles Scheduled | 2017 Miles Scheduled | 2018 Miles Scheduled | 2019 Miles Scheduled | 2020 Miles Scheduled | 2021 Miles Scheduled |
|--------------|--------------|---------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| MO | 84268 | 1622.1 | 0.0 | 219.0 | 165.6 | 182.6 | 201.8 | 222.3 | 225.3 | 170.9 | 256.1 | 219.0 | 165.6 | 182.6 | 201.8 | 222.3 |
| KS | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OK | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AR | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 84268 | 1622.1 | 0.0 | 219.0 | 165.6 | 182.6 | 201.8 | 222.3 | 225.3 | 170.9 | 256.1 | 219.0 | 165.6 | 182.6 | 201.8 | 222.3 |

State 6 Year Maintenance Totals

| Area | Total Meters | Total Miles | 2008 Miles Scheduled | 2009 Miles Scheduled | 2010 Miles Scheduled | 2011 Miles Scheduled | 2012 Miles Scheduled | 2013 Miles Scheduled | 2014 Miles Scheduled | 2015 Miles Scheduled | 2016 Miles Scheduled | 2017 Miles Scheduled | 2018 Miles Scheduled | 2019 Miles Scheduled | 2020 Miles Scheduled | 2021 Miles Scheduled |
|--------------|--------------|---------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| MO | 66215 | 3420.2 | 0.0 | 186.9 | 236.5 | 399.7 | 167.3 | 142.1 | 238.5 | 305.8 | 356.7 | 366.4 | 261.9 | 395.0 | 336.2 | 186.9 |
| KS | 10387 | 529.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OK | 7197 | 312.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AR | 4480 | 172.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 88279 | 4434.5 | 0.0 | 186.9 | 236.5 | 399.7 | 167.3 | 142.1 | 238.5 | 305.8 | 356.7 | 366.4 | 261.9 | 395.0 | 336.2 | 186.9 |

State 4 Year Maintenance Running Percentage for that State

| Area | Total Meters | Total Miles | 2008 Miles Scheduled | 2009 Miles Scheduled | 2010 Miles Scheduled | 2011 Miles Scheduled | 2012 Miles Scheduled | 2013 Miles Scheduled | 2014 Miles Scheduled | 2015 Miles Scheduled | 2016 Miles Scheduled | 2017 Miles Scheduled | 2018 Miles Scheduled | 2019 Miles Scheduled | 2020 Miles Scheduled | 2021 Miles Scheduled |
|--------------|--------------|---------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| MO | 84268 | 1622.1 | 0.0% | 13.5% | 23.7% | 35.0% | 47.4% | 61.1% | 75.0% | 85.5% | 101.3% | 114.8% | 125.0% | 136.3% | 148.7% | 162.4% |
| KS | 0 | 0.0 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| OK | 0 | 0.0 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| AR | 0 | 0.0 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Total | 84268 | 1622.1 | 0.0% | 13.5% | 23.7% | 35.0% | 47.4% | 61.1% | 75.0% | 85.5% | 101.3% | 114.8% | 125.0% | 136.3% | 148.7% | 162.4% |

State 6 Year Maintenance Running Percentage for that State

| Area | Total Meters | Total Miles | 2008 Miles Scheduled | 2009 Miles Scheduled | 2010 Miles Scheduled | 2011 Miles Scheduled | 2012 Miles Scheduled | 2013 Miles Scheduled | 2014 Miles Scheduled | 2015 Miles Scheduled | 2016 Miles Scheduled | 2017 Miles Scheduled | 2018 Miles Scheduled | 2019 Miles Scheduled | 2020 Miles Scheduled | 2021 Miles Scheduled |
|--------------|--------------|---------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| MO | 66215 | 3420.2 | 0.0% | 5.5% | 12.4% | 24.1% | 29.0% | 33.1% | 40.1% | 49.0% | 59.5% | 70.2% | 77.8% | 89.4% | 99.2% | 104.7% |
| KS | 10387 | 529.6 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| OK | 7197 | 312.3 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| AR | 4480 | 172.4 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Total | 88279 | 4434.5 | 0.0% | 5.5% | 12.4% | 24.1% | 29.0% | 33.1% | 40.1% | 49.0% | 59.5% | 70.2% | 77.8% | 89.4% | 99.2% | 104.7% |

Empire District Electric

Infrastructure Management - Detailed Inspection

| Circuit ID | Area | Sub | State | Total Meters | Total Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned | 2021 Planned | | | | | | |
|--------------|------|-----|-------|--------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------|------|-----|-----|-----|-----|
| 3121 | 209 | 312 | MO | 1053 | 17.8 | 59.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | |
| 3311 | 209 | 331 | MO | 635 | 16.2 | 39.3 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 16.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.2 | 0.0 | | | | | |
| 3312 | 209 | 331 | MO | 17 | 4.7 | 3.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.7 | 0.0 | | | | |
| 3313 | 209 | 331 | MO | 486 | 12.3 | 39.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.3 | 0.0 | | | |
| 3314 | 209 | 331 | MO | 207 | 7.1 | 29.2 | 4 | 0.0 | 0.0 | 0.0 | 7.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.1 | 0.0 | 0.0 | | | | |
| 3315 | 209 | 331 | MO | 1032 | 31.4 | 32.9 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 31.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 31.4 | 0.0 | | | | |
| 3871 | 209 | 387 | MO | 1215 | 14.6 | 83.3 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| 3872 | 209 | 387 | MO | 896 | 13.2 | 68.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| 3873 | 209 | 387 | MO | 1815 | 40.2 | 45.1 | 4 | 0.0 | 0.0 | 0.0 | 40.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 40.2 | 0.0 | 0.0 | | | | |
| 3874 | 209 | 387 | MO | 186 | 6.5 | 28.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 0.0 | | | |
| 4101 | 209 | 410 | MO | 553 | 16.5 | 33.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| 4102 | 209 | 410 | MO | 800 | 20.9 | 38.3 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 4131 | 209 | 413 | MO | 179 | 6.8 | 26.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| 4132 | 209 | 413 | MO | 408 | 6.2 | 66.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| 4133 | 209 | 413 | MO | 298 | 10.6 | 28.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.6 | 0.0 | | | |
| 4134 | 209 | 413 | MO | 782 | 15.2 | 51.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| 4135 | 209 | 413 | MO | 61 | 2.9 | 20.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 4136 | 209 | 413 | MO | 601 | 7.0 | 85.6 | 4 | 0.0 | 0.0 | 7.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| 4137 | 209 | 413 | MO | 719 | 10.7 | 67.3 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 4138 | 209 | 413 | MO | 694 | 12.6 | 55.2 | 4 | 0.0 | 12.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 4331 | 209 | 433 | MO | 273 | 13.4 | 20.4 | 4 | 0.0 | 13.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 4332 | 209 | 433 | MO | 203 | 5.7 | 35.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.7 | 0.0 | | | |
| 4333 | 209 | 433 | MO | 389 | 12.2 | 31.9 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| 4334 | 209 | 433 | MO | 377 | 7.1 | 52.7 | 4 | 0.0 | 0.0 | 7.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 4381 | 209 | 438 | MO | 208 | 22.0 | 9.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| 4383 | 209 | 438 | MO | 319 | 12.9 | 24.7 | 4 | 0.0 | 0.0 | 12.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4385 | 209 | 438 | MO | 1090 | 17.4 | 62.7 | 4 | 0.0 | 0.0 | 17.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4386 | 209 | 438 | MO | 1625 | 13.5 | 120.4 | 4 | 0.0 | 0.0 | 13.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | | | | 17121 | 377.3 | | | 0.0 | 25.9 | 58.0 | 47.3 | 52.2 | 35.1 | 61.1 | 42.8 | 54.9 | 25.9 | 58.0 | 47.3 | 52.2 | 35.1 | | | | | | |
| 2951 | 209 | 295 | MO | 1268 | 42.4 | 29.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 42.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 2952 | 209 | 295 | MO | 140 | 8.9 | 15.8 | 6 | 0.0 | 8.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.9 | 0.0 | | |
| 3122 | 209 | 312 | MO | 818 | 33.7 | 24.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 33.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 3123 | 209 | 312 | MO | 670 | 21.0 | 31.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4561 | 209 | 456 | MO | 25 | 7.8 | 3.2 | 6 | 0.0 | 7.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.8 | 0.0 | | |
| Total | | | | 2921 | 113.8 | | | 0.0 | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 33.7 | 42.4 | 0.0 | 21.0 | 0.0 | 0.0 | 16.7 | | | | | | |

Empire District Electric

Infrastructure Management - Detailed Inspection

| Circuit ID | Area | Sub | State | Total Meters | Total Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned | 2021 Planned | | |
|--------------|------|-----|-------|----------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------|-----|
| 1242 | 211 | 124 | MO | 663 | 7.5 | 88.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 1243 | 211 | 124 | MO | 974 | 18.5 | 52.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 18.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.5 | 0.0 | |
| 2211 | 211 | 221 | MO | 721 | 20.3 | 35.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 3551 | 211 | 355 | MO | 1005 | 12.2 | 82.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3591 | 211 | 359 | MO | 984 | 21.6 | 45.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.6 | 0.0 |
| 3593 | 211 | 359 | MO | 986 | 10.0 | 98.4 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3594 | 211 | 359 | MO | 524 | 13.4 | 39.2 | 4 | 0.0 | 0.0 | 0.0 | 13.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.4 | 0.0 | 0.0 | |
| 4511 | 211 | 451 | MO | 1546 | 28.0 | 55.2 | 4 | 0.0 | 28.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 28.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4512 | 211 | 451 | MO | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4513 | 211 | 451 | MO | 456 | 11.7 | 39.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 11.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.7 | 0.0 |
| Total | | | | 7859.0 | 143.2 | | | 0.0 | 28.0 | 0.0 | 13.4 | 18.5 | 33.3 | 20.3 | 17.5 | 12.2 | 28.0 | 0.0 | 13.4 | 18.5 | 33.3 | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 1241 | 211 | 124 | MO | 831 | 31.1 | 26.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 31.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1521 | 211 | 152 | MO | 1560 | 106.8 | 14.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 106.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1522 | 211 | 152 | MO | 138 | 16.7 | 8.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1523 | 211 | 152 | MO | 697 | 55.0 | 12.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 55.0 | 0.0 | |
| 2051 | 211 | 205 | MO | 210 | 21.3 | 9.9 | 6 | 0.0 | 21.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.3 | |
| 2052 | 211 | 205 | MO | 440 | 18.8 | 23.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.8 | 0.0 |
| 2212 | 211 | 221 | MO | 1097 | 55.3 | 19.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 55.3 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2622 | 211 | 262 | MO | 111 | 12.2 | 9.1 | 6 | 0.0 | 12.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.2 | |
| 3552 | 211 | 355 | MO | 550 | 18.4 | 29.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3553 | 211 | 355 | MO | 949 | 49.8 | 19.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 49.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3592 | 211 | 359 | MO | 1534 | 55.1 | 27.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 55.1 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3621 | 211 | 362 | MO | 1135 | 73.5 | 15.4 | 6 | 0.0 | 0.0 | 0.0 | 73.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3901 | 211 | 390 | MO | 862 | 30.9 | 27.9 | 6 | 0.0 | 0.0 | 30.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3902 | 211 | 390 | MO | 93 | 10.3 | 9.1 | 6 | 0.0 | 0.0 | 0.0 | 10.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3903 | 211 | 390 | MO | 276 | 13.6 | 20.3 | 6 | 0.0 | 0.0 | 13.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4371 | 211 | 437 | MO | 2169 | 113.9 | 19.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 113.9 | 0.0 | 0.0 | |
| 4372 | 211 | 437 | MO | 575 | 53.9 | 10.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 53.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Total | | | | 13227.0 | 736.5 | | | 0.0 | 33.5 | 44.5 | 83.7 | 53.9 | 0.0 | 68.2 | 47.8 | 106.8 | 55.3 | 55.1 | 113.9 | 73.8 | 33.5 | | |

Empire District Electric

Infrastructure Management - Detailed Inspection

| Circuit ID | Area | Sub | State | Total Meters | Total Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned | 2021 Planned |
|--------------|------|-----|-------|----------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0 | #N/A | ### | #N/A | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | | | | 0.0 | 0.0 | | | 0.0 |
| 1861 | 212 | 186 | OK | 711 | 34.8 | 20.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2712 | 212 | 271 | OK | 1169 | 54.6 | 21.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2912 | 212 | 291 | OK | 714 | 25.4 | 28.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3631 | 212 | 363 | OK | 1233 | 62.1 | 19.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3771 | 212 | 377 | OK | 1086 | 66.4 | 16.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3772 | 212 | 377 | OK | 10 | 1.7 | 5.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3773 | 212 | 377 | OK | 119 | 17.2 | 6.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3811 | 212 | 381 | OK | 859 | 13.1 | 65.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3812 | 212 | 381 | OK | 720 | 16.0 | 44.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4281 | 212 | 428 | OK | 13 | 1.8 | 7.2 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6601 | 212 | 66 | KS | 787 | 49.4 | 15.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6602 | 212 | 66 | KS | 499 | 20.1 | 24.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2711 | 212 | 271 | KS | 237 | 59.6 | 4.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2781 | 212 | 278 | KS | 1 | 0.6 | 1.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2782 | 212 | 278 | KS | 1457 | 54.6 | 26.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2783 | 212 | 278 | KS | 1119 | 45.1 | 24.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2821 | 212 | 282 | KS | 424 | 9.9 | 42.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2822 | 212 | 282 | KS | 374 | 6.8 | 54.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2823 | 212 | 282 | KS | 524 | 25.4 | 20.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2824 | 212 | 282 | KS | 923 | 17.3 | 53.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2911 | 212 | 291 | KS | 1194 | 61.6 | 19.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2913 | 212 | 291 | KS | 879 | 12.8 | 68.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2914 | 212 | 291 | KS | 544 | 17.1 | 31.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2991 | 212 | 299 | KS | 1 | 0.4 | 2.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3391 | 212 | 339 | KS | 13 | 2.4 | 5.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4061 | 212 | 406 | KS | 1220 | 114.2 | 10.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4062 | 212 | 406 | KS | 4 | 2.1 | 1.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4251 | 212 | 425 | KS | 185 | 36.0 | 5.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4441 | 212 | 444 | KS | 2 | 0.5 | 4.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | | | | 17021.0 | 829.1 | | | 0.0 |

Empire District Electric

Infrastructure Management - Detailed Inspection

| Circuit ID | Area | Sub | State | Total Meters | Total Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned | 2021 Planned | |
|--------------|------|-----|-------|---------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|
| 3671 | 213 | 367 | MO | 1058 | 16.7 | 63.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.7 | |
| 3672 | 213 | 367 | MO | 145 | 1.8 | 79.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | |
| 3673 | 213 | 367 | MO | 257 | 21.6 | 11.9 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.6 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3674 | 213 | 367 | MO | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3675 | 213 | 367 | MO | 414 | 6.6 | 62.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4091 | 213 | 409 | MO | 1105 | 22.7 | 48.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4182 | 213 | 418 | MO | 930 | 23.6 | 39.4 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 23.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4311 | 213 | 431 | MO | 964 | 11.5 | 84.1 | 4 | 0.0 | 11.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.5 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4312 | 213 | 431 | MO | 1412 | 43.1 | 32.7 | 4 | 0.0 | 0.0 | 0.0 | 43.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 43.1 | 0.0 | 0.0 | 0.0 |
| 4313 | 213 | 431 | MO | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 6021 | 213 | 602 | MO | 597 | 22.0 | 27.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 22.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.0 | 0.0 | |
| 6022 | 213 | 602 | MO | 400 | 5.0 | 79.7 | 4 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 6143 | 213 | 614 | MO | 363 | 8.8 | 41.2 | 4 | 0.0 | 8.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.8 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 6144 | 213 | 614 | MO | 310 | 7.0 | 44.4 | 4 | 0.0 | 7.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Total | | | | 7955.0 | 190.5 | | | 0.0 | 32.3 | 0.0 | 43.1 | 22.0 | 18.6 | 22.7 | 6.6 | 45.2 | 32.3 | 0.0 | 43.1 | 22.0 | 18.6 | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 2091 | 213 | 209 | MO | 815 | 57.0 | 14.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 57.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2092 | 213 | 209 | MO | 820 | 32.3 | 25.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 32.3 | 0.0 | 0.0 | 0.0 | |
| 2171 | 213 | 217 | MO | 510 | 30.9 | 16.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30.9 | 0.0 | |
| 2172 | 213 | 217 | MO | 207 | 34.4 | 6.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 34.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2491 | 213 | 249 | MO | 60 | 14.5 | 4.2 | 6 | 0.0 | 14.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.5 | |
| 2501 | 213 | 250 | MO | 77 | 4.3 | 17.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2511 | 213 | 251 | MO | 592 | 22.7 | 26.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2621 | 213 | 262 | MO | 1094 | 88.9 | 12.3 | 6 | 0.0 | 0.0 | 88.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3041 | 213 | 304 | MO | 76 | 3.1 | 24.8 | 6 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | |
| 3081 | 213 | 308 | MO | 549 | 28.4 | 19.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 28.4 | 0.0 | 0.0 | 0.0 | |
| 3082 | 213 | 308 | MO | 320 | 11.2 | 28.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.2 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3181 | 213 | 318 | MO | 686 | 49.5 | 13.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 49.5 | 0.0 | 0.0 | |
| 3231 | 213 | 323 | MO | 357 | 18.8 | 19.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3232 | 213 | 323 | MO | 422 | 19.8 | 21.3 | 6 | 0.0 | 19.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 19.8 | |
| 3421 | 213 | 342 | MO | 624 | 25.9 | 24.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25.9 | 0.0 | 0.0 | 0.0 | |
| 3422 | 213 | 342 | MO | 950 | 37.1 | 25.6 | 6 | 0.0 | 0.0 | 0.0 | 37.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4092 | 213 | 409 | MO | 386 | 26.9 | 14.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 26.9 | 0.0 | |
| 4181 | 213 | 418 | MO | 453 | 21.8 | 20.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.8 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 6141 | 213 | 614 | MO | 876 | 67.3 | 13.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 67.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Total | | | | 9874.0 | 594.8 | | | 0.0 | 37.3 | 88.9 | 37.1 | 57.0 | 22.7 | 38.7 | 67.3 | 51.8 | 25.9 | 60.8 | 49.5 | 57.8 | 37.3 | |

Empire District Electric

Infrastructure Management - Detailed Inspection

| Circuit ID | Area | Sub | State | Total Meters | Total Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned | 2021 Planned |
|------------|------|-----|-------|--------------|-------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 1225 | 214 | 59 | MO | 931 | 7.7 | 121.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1226 | 214 | 59 | MO | 339 | 4.2 | 80.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1227 | 214 | 59 | MO | 1164 | 20.3 | 57.3 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1228 | 214 | 59 | MO | 491 | 4.2 | 117.3 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1229 | 214 | 59 | MO | 1972 | 13.2 | 149.9 | 4 | 0.0 | 0.0 | 0.0 | 13.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.2 | 0.0 | 0.0 |
| 401 | 214 | 64 | MO | 102 | 0.8 | 133.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 402 | 214 | 64 | MO | 107 | 1.9 | 57.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 403 | 214 | 64 | MO | 254 | 2.7 | 95.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 404 | 214 | 64 | MO | 166 | 1.3 | 131.4 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 405 | 214 | 64 | MO | 43 | 0.6 | 71.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 406 | 214 | 64 | MO | 70 | 0.7 | 103.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 407 | 214 | 64 | MO | 98 | 0.9 | 103.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 432 | 214 | 100 | MO | 83 | 1.1 | 76.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 433 | 214 | 100 | MO | 40 | 0.6 | 71.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 434 | 214 | 100 | MO | 28 | 0.8 | 35.4 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1451 | 214 | 145 | MO | 481 | 12.4 | 38.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.4 |
| 1453 | 214 | 145 | MO | 1762 | 20.9 | 84.1 | 4 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 |
| 1454 | 214 | 145 | MO | 892 | 14.4 | 61.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.4 |
| 1455 | 214 | 145 | MO | 505 | 8.3 | 60.9 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 |
| 1261 | 214 | 258 | MO | 396 | 4.8 | 82.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1262 | 214 | 258 | MO | 198 | 5.5 | 35.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1263 | 214 | 258 | MO | 1364 | 15.3 | 89.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1264 | 214 | 258 | MO | 41 | 4.1 | 10.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1265 | 214 | 258 | MO | 1209 | 14.0 | 86.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1267 | 214 | 258 | MO | 70 | 4.4 | 16.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 |
| 451 | 214 | 284 | MO | 0 | 0.4 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 452 | 214 | 284 | MO | 0 | 0.1 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 453 | 214 | 284 | MO | 126 | 1.0 | 124.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 454 | 214 | 284 | MO | 102 | 1.7 | 59.9 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 455 | 214 | 284 | MO | 73 | 0.9 | 79.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 456 | 214 | 284 | MO | 45 | 0.7 | 66.9 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 457 | 214 | 284 | MO | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1273 | 214 | 341 | MO | 863 | 9.2 | 93.3 | 4 | 0.0 | 0.0 | 0.0 | 9.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.2 | 0.0 |
| 1274 | 214 | 341 | MO | 8 | 2.1 | 3.9 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1281 | 214 | 360 | MO | 81 | 3.7 | 22.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1282 | 214 | 360 | MO | 891 | 13.5 | 66.0 | 4 | 0.0 | 0.0 | 0.0 | 13.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.5 | 0.0 |
| 1283 | 214 | 360 | MO | 363 | 7.5 | 48.7 | 4 | 0.0 | 0.0 | 7.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.5 | 0.0 | 0.0 |
| 1284 | 214 | 360 | MO | 663 | 9.7 | 68.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1285 | 214 | 360 | MO | 1126 | 15.8 | 71.4 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1286 | 214 | 360 | MO | 43 | 2.6 | 16.8 | 4 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 |
| 1287 | 214 | 360 | MO | 1 | 0.4 | 2.5 | 4 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 |

Empire District Electric

Infrastructure Management - Detailed Inspection

| Circuit ID | Area | Sub | State | Total Meters | Total Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned | 2021 Planned | |
|--------------|------|-----|-------|----------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------|
| 1230 | 214 | 372 | MO | 1131 | 12.5 | 90.7 | 4 | 0.0 | 0.0 | 12.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.5 | 0.0 | 0.0 | 0.0 | |
| 1231 | 214 | 372 | MO | 3 | 0.2 | 16.6 | 4 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | |
| 1232 | 214 | 372 | MO | 1143 | 15.1 | 75.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 15.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.1 | 0.0 |
| 1233 | 214 | 372 | MO | 629 | 5.0 | 127.0 | 4 | 0.0 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | |
| 3911 | 214 | 391 | MO | 6 | 1.2 | 5.0 | 4 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | |
| 3912 | 214 | 391 | MO | 1118 | 20.4 | 54.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 20.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.4 | 0.0 |
| 3914 | 214 | 391 | MO | 676 | 42.7 | 15.8 | 4 | 0.0 | 42.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 42.7 | 0.0 | 0.0 | 0.0 | |
| 4222 | 214 | 422 | MO | 1533 | 13.4 | 114.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 13.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.4 | 0.0 |
| 4223 | 214 | 422 | MO | 1207 | 13.2 | 91.3 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4224 | 214 | 422 | MO | 625 | 10.3 | 60.9 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.3 |
| 4301 | 214 | 430 | MO | 606 | 7.1 | 85.8 | 4 | 0.0 | 0.0 | 7.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.1 | 0.0 | 0.0 | 0.0 | |
| 4302 | 214 | 430 | MO | 640 | 17.4 | 36.8 | 4 | 0.0 | 0.0 | 17.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.4 | 0.0 | 0.0 | 0.0 | |
| 4303 | 214 | 430 | MO | 767 | 28.7 | 26.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 28.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4304 | 214 | 430 | MO | 130 | 3.3 | 39.8 | 4 | 0.0 | 0.0 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 0.0 | 0.0 | 0.0 | |
| 4471 | 214 | 447 | MO | 5 | 1.3 | 3.9 | 4 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | |
| 4472 | 214 | 447 | MO | 14 | 1.2 | 11.5 | 4 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | |
| Total | | | | 27424.0 | 427.0 | | | 0.0 | 42.7 | 59.4 | 56.9 | 49.0 | 49.8 | 62.6 | 59.3 | 47.3 | 42.7 | 59.4 | 56.9 | 49.0 | 49.8 | |
| 1452 | 214 | 145 | MO | 397 | 21.0 | 18.9 | 6 | 0.0 | 0.0 | 21.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 145D | 214 | 145 | MO | 1 | 0.2 | 6.5 | 6 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1271 | 214 | 341 | MO | 874 | 43.0 | 20.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 43.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1272 | 214 | 341 | MO | 13 | 1.9 | 6.9 | 6 | 0.0 | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3891 | 214 | 389 | MO | 392 | 28.5 | 13.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 28.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 3892 | 214 | 389 | MO | 1193 | 71.3 | 16.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 71.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3913 | 214 | 391 | MO | 1258 | 65.1 | 19.3 | 6 | 0.0 | 0.0 | 0.0 | 65.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4221 | 214 | 422 | MO | 459 | 34.5 | 13.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 34.5 | 0.0 | |
| Total | | | | 4587.0 | 265.5 | | | 0.0 | 0.0 | 23.1 | 65.1 | 0.0 | 0.0 | 28.5 | 71.3 | 43.0 | 0.0 | 0.0 | 0.0 | 34.5 | 0.0 | |

Empire District Electric

Infrastructure Management - Detailed Inspection

| Circuit ID | Area | Sub | State | Total Meters | Total Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned | 2021 Planned | |
|--------------|------|-----|-------|----------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|
| 1050 | 215 | 105 | MO | 1381 | 15.3 | 90.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1051 | 215 | 105 | MO | 1018 | 18.8 | 54.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1052 | 215 | 105 | MO | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1094 | 215 | 109 | MO | 968 | 26.7 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 26.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1101 | 215 | 110 | MO | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1102 | 215 | 110 | MO | 589 | 14.7 | 40.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1103 | 215 | 110 | MO | 839 | 19.3 | 43.5 | 4 | 0.0 | 0.0 | 0.0 | 19.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 19.3 | 0.0 | 0.0 | |
| 3661 | 215 | 366 | MO | 1064 | 22.0 | 0.0 | 4 | 0.0 | 22.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4321 | 215 | 432 | MO | 4 | 0.9 | 4.4 | 4 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 | |
| 4322 | 215 | 432 | MO | 85 | 2.6 | 32.8 | 4 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | |
| 4323 | 215 | 432 | MO | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4324 | 215 | 432 | MO | 979 | 20.8 | 47.0 | 4 | 0.0 | 0.0 | 0.0 | 20.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 | 0.0 | |
| 4361 | 215 | 436 | MO | 1420 | 22.2 | 64.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 22.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.2 | 0.0 |
| 4362 | 215 | 436 | MO | 774 | 7.7 | 100.4 | 4 | 0.0 | 0.0 | 7.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.7 | 0.0 | 0.0 | 0.0 | |
| 4363 | 215 | 436 | MO | 642 | 16.0 | 40.0 | 4 | 0.0 | 16.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Total | | | | 9763.0 | 187.1 | | | 0.0 | 38.0 | 11.2 | 19.3 | 20.8 | 22.2 | 41.4 | 18.8 | 15.3 | 38.0 | 11.2 | 19.3 | 20.8 | 22.2 | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 1081 | 215 | 108 | MO | 20 | 4.4 | 4.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1082 | 215 | 108 | MO | 1252 | 119.3 | 10.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 119.3 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1083 | 215 | 108 | MO | 1 | 1.4 | 0.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1084 | 215 | 108 | MO | 5 | 1.2 | 4.2 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1091 | 215 | 109 | MO | 1545 | 97.2 | 15.9 | 6 | 0.0 | 0.0 | 0.0 | 97.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1092 | 215 | 109 | MO | 1111 | 43.6 | 25.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 43.6 | 0.0 | |
| 1093 | 215 | 109 | MO | 206 | 8.5 | 24.4 | 6 | 0.0 | 0.0 | 8.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2492 | 215 | 249 | MO | 29 | 6.5 | 4.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3662 | 215 | 366 | MO | 1022 | 61.2 | 16.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 61.2 | 0.0 | 0.0 | |
| 3663 | 215 | 366 | MO | 267 | 28.8 | 9.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 28.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3951 | 215 | 395 | MO | 1041 | 48.3 | 21.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 48.3 | 0.0 | |
| 3952 | 215 | 395 | MO | 360 | 36.9 | 9.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 36.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 4031 | 215 | 403 | MO | 620 | 23.0 | 26.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 23.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 4171 | 215 | 417 | MO | 1071 | 34.3 | 31.3 | 6 | 0.0 | 34.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 34.3 | |
| 4172 | 215 | 417 | MO | 2140 | 69.0 | 31.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 69.0 | 0.0 | 0.0 | 0.0 | |
| 4211 | 215 | 421 | MO | 1472 | 64.1 | 23.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 64.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 4212 | 215 | 421 | MO | 767 | 25.2 | 30.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25.2 | 0.0 | 0.0 | |
| Total | | | | 12929.0 | 672.7 | | | 0.0 | 34.3 | 8.5 | 97.2 | 0.0 | 64.1 | 59.9 | 28.8 | 13.4 | 119.3 | 69.0 | 86.4 | 91.8 | 34.3 | |

Empire District Electric

Infrastructure Management - Detailed Inspection

| Circuit ID | Area | Sub | State | Total Meters | Total Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned | 2021 Planned |
|--------------|------|-----|-------|----------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 5601 | 216 | 56 | MO | 77 | 2.9 | 26.3 | 4 | 0.0 | 0.0 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 0.0 | 0.0 | 0.0 |
| 5602 | 216 | 56 | MO | 479 | 10.0 | 47.8 | 4 | 0.0 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 0.0 | 0.0 | 0.0 |
| 5641 | 216 | 56 | MO | 403 | 3.2 | 125.4 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5642 | 216 | 56 | MO | 205 | 1.9 | 105.1 | 4 | 0.0 | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 0.0 | 0.0 |
| 2961 | 216 | 296 | MO | 1643 | 34.5 | 47.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 34.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2962 | 216 | 296 | MO | 238 | 7.8 | 30.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.8 |
| 2963 | 216 | 296 | MO | 1 | 0.3 | 3.1 | 4 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| 3982 | 216 | 398 | MO | 718 | 7.5 | 95.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.5 |
| 4142 | 216 | 414 | MO | 560 | 15.7 | 35.6 | 4 | 0.0 | 0.0 | 15.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.7 | 0.0 | 0.0 |
| Total | | | | 4324.0 | 84.0 | | | 0.0 | 10.0 | 20.9 | 0.0 | 0.0 | 15.3 | 3.2 | 0.0 | 34.5 | 10.0 | 20.9 | 0.0 | 0.0 | 15.3 |
| 5603 | 216 | 56 | MO | 1176 | 43.2 | 27.2 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 43.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1311 | 216 | 131 | MO | 238 | 22.9 | 10.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1312 | 216 | 131 | MO | 873 | 49.8 | 17.5 | 6 | 0.0 | 49.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 49.8 |
| 1841 | 216 | 184 | MO | 1497 | 56.4 | 26.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 56.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1842 | 216 | 184 | MO | 192 | 16.3 | 11.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1843 | 216 | 184 | MO | 1027 | 43.7 | 23.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 43.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3221 | 216 | 322 | MO | 1162 | 34.4 | 33.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 34.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3222 | 216 | 322 | MO | 936 | 32.3 | 29.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 32.3 | 0.0 |
| 3261 | 216 | 326 | AR | 266 | 7.7 | 34.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3262 | 216 | 326 | AR | 36 | 1.0 | 36.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3263 | 216 | 326 | AR | 111 | 16.3 | 6.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3471 | 216 | 347 | MO | 156 | 16.3 | 9.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3472 | 216 | 347 | MO | 1464 | 52.4 | 27.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 52.4 |
| 3751 | 216 | 375 | MO | 1112 | 53.4 | 20.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 53.4 | 0.0 |
| 3752 | 216 | 375 | OK | 563 | 21.6 | 26.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3921 | 216 | 392 | AR | 427 | 12.1 | 35.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3922 | 216 | 392 | AR | 1703 | 56.6 | 30.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3923 | 216 | 392 | AR | 1 | 4.2 | 0.2 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3981 | 216 | 398 | MO | 1236 | 73.5 | 16.8 | 6 | 0.0 | 0.0 | 0.0 | 73.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3991 | 216 | 399 | MO | 658 | 55.3 | 11.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 55.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3992 | 216 | 399 | MO | 160 | 8.4 | 19.0 | 6 | 0.0 | 0.0 | 8.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4141 | 216 | 414 | MO | 86 | 14.5 | 6.0 | 6 | 0.0 | 0.0 | 14.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4431 | 216 | 443 | MO | 1265 | 47.6 | 26.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 47.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4432 | 216 | 443 | MO | 206 | 13.0 | 15.9 | 6 | 0.0 | 0.0 | 13.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4433 | 216 | 443 | MO | 1 | 0.7 | 1.4 | 6 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7001 | 216 | 700 | AR | 1276 | 52.6 | 24.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 7002 | 216 | 700 | AR | 660 | 27.6 | 23.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Total | | | | 18488.0 | 833.6 | | | 0.0 | 49.8 | 35.9 | 74.2 | 56.4 | 55.3 | 43.2 | 34.4 | 55.4 | 91.4 | 0.0 | 85.7 | 52.4 | 49.8 |

Empire District Electric

Infrastructure Management - Detailed Inspection

| Circuit ID | Area | Sub | State | Total Meters | Total Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned | 2021 Planned | |
|--------------|------|-----|-------|--------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|
| 1141 | 217 | 114 | MO | 864 | 16.0 | 53.9 | 4 | 0.0 | 0.0 | 16.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.0 | 0.0 | 0.0 | 0.0 | |
| 3301 | 217 | 330 | MO | 200 | 2.6 | 77.0 | 4 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | |
| 3302 | 217 | 330 | MO | 607 | 14.0 | 43.3 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3303 | 217 | 330 | MO | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3304 | 217 | 330 | MO | 942 | 14.5 | 64.9 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.5 | |
| 3305 | 217 | 330 | MO | 8 | 0.7 | 12.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3702 | 217 | 370 | MO | 601 | 14.2 | 42.4 | 4 | 0.0 | 14.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.2 | 0.0 | 0.0 | 0.0 | |
| 4151 | 217 | 415 | MO | 1091 | 27.8 | 39.2 | 4 | 0.0 | 27.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 27.8 | 0.0 | 0.0 | 0.0 | |
| 4152 | 217 | 415 | MO | 803 | 25.0 | 32.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4153 | 217 | 415 | MO | 1012 | 25.8 | 39.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4154 | 217 | 415 | MO | 951 | 20.8 | 45.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4155 | 217 | 415 | MO | 1692 | 39.3 | 43.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 39.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 39.3 | 0.0 | |
| 4156 | 217 | 415 | MO | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4342 | 217 | 434 | MO | 1614 | 33.5 | 48.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 33.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 33.5 | |
| Total | | | | 10385 | 234.3 | | | 0.0 | 42.0 | 16.0 | 2.6 | 39.3 | 48.1 | 14.0 | 25.8 | 46.5 | 42.0 | 16.0 | 2.6 | 39.3 | 48.1 | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 8001 | 217 | 80 | MO | 4 | 0.6 | 7.2 | 6 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1142 | 217 | 114 | MO | 198 | 15.3 | 12.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1211 | 217 | 121 | MO | 1388 | 74.6 | 18.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 74.6 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1212 | 217 | 121 | MO | 67 | 9.7 | 6.9 | 6 | 0.0 | 0.0 | 0.0 | 9.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1213 | 217 | 121 | MO | 519 | 28.6 | 18.2 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 28.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3331 | 217 | 333 | MO | 2 | 0.5 | 4.3 | 6 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3691 | 217 | 369 | MO | 1241 | 56.0 | 22.2 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 56.0 | 0.0 | 0.0 | 0.0 | |
| 3692 | 217 | 369 | MO | 1063 | 35.7 | 29.8 | 6 | 0.0 | 0.0 | 35.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3693 | 217 | 369 | MO | 527 | 15.3 | 34.5 | 6 | 0.0 | 15.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.3 | |
| 3701 | 217 | 370 | MO | 478 | 25.9 | 18.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25.9 | 0.0 | |
| 3971 | 217 | 397 | MO | 625 | 22.5 | 27.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4341 | 217 | 434 | MO | 1805 | 59.4 | 30.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 59.4 | 0.0 | 0.0 | |
| 4343 | 217 | 434 | MO | 752 | 31.7 | 23.7 | 6 | 0.0 | 0.0 | 0.0 | 31.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Total | | | | 8669 | 375.6 | | | 0.0 | 15.3 | 35.7 | 42.4 | 0.0 | 0.0 | 0.0 | 0.0 | 22.5 | 43.9 | 74.6 | 56.0 | 59.4 | 25.9 | 15.3 |

Section 1.1.2

Detailed Inspection Checklist



The Empire District Electric Company Detailed Inspection Standard

**TITLE: Electric Maintenance Requirements
for Distribution & Transmission Equipment**

Equipment Testing and Maintenance Requirements

- General:** The following equipment-testing requirements and related procedures were developed as a key element in a preventive maintenance program. The procedures were developed using manufacturers' recommendations, industry standards, and past service history. The following equipment sheets contain the requirements for detailed inspections, testing, and required overhauls for line equipment. Patrol inspections will consist of visual inspection of the listed equipment done according to the schedule on page 3 plus recording of recloser counters to determine when to take them out of service to rebuild them.
- Procedures** The required diagnostic testing for specific types of equipment is summarized in this attachment. Table 1 on Page 2 summarizes the specific intervals for these tests. In addition to the diagnostic testing for specific types of equipment, the inspections identified on the equipment sheets must also be performed at the time of the testing.



The Empire District Electric Company Detailed Inspection Standard

**TITLE: Electric Maintenance Requirements
for Distribution & Transmission Equipment**

System Inspection Cycles

| | Patrol | | Detailed & Intrusive | | Notes |
|--|--------|-------|----------------------|-------|--------|
| | Urban | Rural | Urban | Rural | |
| Poles/Overhead Structures | | | | | |
| Wood | 4 | 6 | 12 | 12 | Note 1 |
| Non-wood | 4 | 6 | 12 | 12 | Note 2 |
| Conductors, Transformers, Reclosers, Regulators, Capacitors, Switching/Protective Devices, and Streetlighting | | | | | |
| Overhead | 4 | 6 | 8 | 12 | |
| Underground-direct buried and conduit | 4 | 6 | 8 | 12 | Note 3 |
| Vaults, and Other underground structures | 4 | 6 | 8 | 12 | |
| | | | | | |

Note 1: No intrusive inspection required for first 12 years after installation, however, intrusive inspection required between years 12 and 18. For poles/structures greater than 12 years of age at inception of program, intrusive inspections must be completed within 12 years.

Note 2: No detailed inspection required for first 12 years after installation, however, detailed inspection required between years 12 and 18. For poles/structures greater than 12 years of age at inception of program, detailed inspections must be completed within 12 years.

Note 3: Some components of underground-direct buried and conduit distribution systems are above ground (e.g., pad-mounted transformers, pad-mounted switches, pad-mounted reclosers, etc.) The inspection intervals also apply to these above ground devices. These inspection requirements do not apply to direct-buried cable or cable installed in underground conduit.



The Empire District Electric Company Detailed Inspection Standard

TITLE: Electric Maintenance Requirements for Distribution & Transmission Equipment

Capacitor Bank, Overhead-Fixed or Switched, Equipment Sheet

- 1. Equipment:** Capacitor bank, overhead and pad-mounted.
- 2. Subtype:** 300, 600 and 1200 kVars, fixed or switched, pad-mounted or overhead.
- 3. Safety:** Shut down bank for a minimum of 5 minutes before re-energizing.
- 4. Inspection:** Make a visual inspection to check the condition of bushings, switches, capacitor tanks, cutouts, fuses, control cabinets, associated potential and current transformers, etc.
- 4. Testing:** To maintain the system power factor per [Empire District Electric Substation Load Information and Power Factor](#), requires that capacitors be checked and operated before the summer peak. When the only action is to place the capacitor off-line, testing is not required.
 - a. Fixed Capacitors: All fixed capacitors that are required for seasonal peaks must be tested and placed on line by June 1 for the summer peak. Fixed capacitors that are not required for seasonal peaks must be placed offline by June 1 for the summer peak.
 - b. Switched Capacitors: All switched capacitors that are required for seasonal peaks must be tested and placed on auto by June 1 for the summer. Switched capacitors that are not required for seasonal peaks must be configured to be normally off-line by June 1 for the summer peak.

Note: It is strongly recommended that electronic controls that are normally configured with time or temperature as the prime operating criteria during peak seasons be configured to automatically switch to operate only under voltage controls in the off-peak seasons. If so, it is not necessary to visit the banks in the off-peak seasons.

Excluded Capacitor Banks: Capacitors excluded by [Empire District Electric](#), or emergency banks or banks that cause operation, overload, or voltage problems, must be tested annually.

Testing Fixed Banks:

- a. With the capacitor energized, take and record clamp-on ammeter readings on each phase.
- b. If the current readings are outside of the ranges shown in Table 1.3, investigate for possible bad units, connections, etc.



The Empire District Electric Company Detailed Inspection Standard

TITLE: Electric Maintenance Requirements for Distribution & Transmission Equipment

Table 1.3. Ampere Readings for Capacitor Banks¹

| | Circuit Voltage | | | |
|------------|-----------------|-----|-------|-----|
| | 4 kV | | 12 kV | |
| Bank kvars | Min | Max | Min | Max |
| 300 | 39 | 52 | | |
| 600 | 79 | 103 | 27 | 36 |
| 1,200 | | | 54 | 71 |

¹With allowance for normal variations in both circuit voltages and unit capacitance, capacitor banks should have load currents with the following ranges.

Testing Switched Banks:

- a. With the fuses closed and the switches in both the open and closed positions:
 1. Check that the operating-level position or indicating flag is operating properly.
 2. Take and record voltage readings.
 3. Take and record clamp-on ammeter readings on each phase.
 4. Non-zero current readings with the switches open indicate a failed switch.
 5. If the current readings with the switches closed are outside the values shown in Table 1.3 above, investigate for possible bad units, connectors, etc.
- b. Return the capacitor to automatic and to open or closed, as appropriate.
- c. Record the counter readings.
- d. Verify that the control is running and set properly.

Capacitor control settings should be reviewed by the System Planning & Protection Department before the summer peak in all areas. If changes in the settings are required, a request should be forwarded to the System Planning & Protection Department so it can coordinate operation with the scheduled testing.

- 6. Maintenance:** Replace as necessary



The Empire District Electric Company Detailed Inspection Standard

TITLE: Electric Maintenance Requirements for Distribution & Transmission Equipment

Recloser & Sectionalizer Equipment Sheet

- 1. Equipment:** Recloser or Sectionalizer, overhead.
- 2. Subtypes:**
 - Hydraulic.
 - Electronic - Form 3A. Microprocessor – Form 4C.
- 3. Safety:** Before operating control verify grounding system is adequate.
- 4. Inspection:** Make a visual inspection during testing to check the condition of the bushings, tank, bypass and disconnect switches, lightning arresters, associated potential and current transformers (if present), etc.
- 5. Testing:**

New Reclosers and Controllers: New reclosers and controllers are completely tested at the factory, in accordance with the applicable ANSI and IEEE standards, and there is no need to duplicate this testing. On new reclosers, check only for shipping damage, such as broken or cracked bushings, oil leaks, etc. After the recloser is installed, perform a "trip check" to ensure that the control, cable, and recloser are functioning properly. To perform the "trip check," use the soldering-gun test described in the manufacturer's manual that comes with the recloser.

Overhauled Reclosers: Overhauled reclosers must be completely shop-tested before installation, in accordance with the manufacturer's instructions. After the recloser is installed, perform a "trip check" to ensure that the control, cable, and recloser are functioning properly. To perform the "trip check," use the soldering gun test described in the manufacturer's manual that comes with the recloser.

3 Phase Reclosers must be tested and thoroughly inspected annually. 1 Phase Reclosers must be tested and thoroughly inspected based upon the inspection schedule on page 3. Record the results of the tests and inspections.

 - a. Make a visual inspection to check the condition of the bushings, tank, bypass and disconnect switches, lightning arresters, associated potential and current transformers (if present), etc.
 - b. Record the counter readings.
 - c. Check that the non-reclosing lever or switch is in the proper position. On reclosers with ground tripping, check that the ground-trip switch is in the "cut in" position.
 - d. Check the indicating lights and battery charger, and perform a battery test.
 - e. Record the duty-cycle monitor reading for each phase on Form 4C

6. Testing Recloser Batteries:

The batteries used with reclosers must be field-tested to ensure that the recloser operates properly.

Instructions for Field Testing Form 3A Controller Batteries (Nickel-Cadmium, Code 563208) Note: For voltage values outside the ranges shown



The Empire District Electric Company Detailed Inspection Standard

TITLE: Electric Maintenance Requirements for Distribution & Transmission Equipment

below, refer to the "Field Equipment Inspection and Testing Job Aid." This job aid provides detailed procedures to analyze and correct this situation.

- a. Perform the battery field test with a Cooper/McGraw-Edison battery-test voltmeter (Catalog No. KA638 ME) or other suitable equipment.
- b. Use a meter to check the open-circuit voltage of the battery. If the battery voltage is below 24 volts, the battery is either discharged or faulty and should be replaced.
- c. If the battery's voltage is above 24 volts, perform a power-delivery check. To perform this check, record the open-circuit voltage and discharge the battery through the 10-ohm resistor, which is incorporated in the battery-test voltmeter, for approximately 2 to 3 seconds. With ambient temperatures above 20°F, the battery voltage should not drop more than 3 volts below the open-circuit voltage. If the voltage drop is greater than 3 volts, the battery should be replaced immediately or the recloser should be bypassed until a replacement battery is installed.

Instructions for Field Testing Form 4C Controller Batteries (Sealed Lead-Acid, Code 340244) Note: For voltage values outside the ranges shown below, refer to the "Field Equipment Inspection and Testing Job Aid." This job aid provides detailed procedures to analyze and correct this situation.

- a. Testing with the control connected to the ac power source - Use the following procedure to test the performance of the control battery while it is connected to ac power: Initial conditions: An ac power source is connected to the control, the battery circuit is connected, and the Meter Range switch is set to Low.
 - Press the Battery Meter Selector switch in the Volts position for 5 seconds.
 - The battery voltage should read 27-29 Vdc.
 - With the Battery Meter Selector switch depressed, press the BatteryLoad
 - Test switch for 5 seconds (which places a 5-ohm load on the battery). The voltage drop should not exceed 3.0 Vdc.
- b. Testing with the control not connected to the ac power source - The control battery may be tested if the ac power is disconnected and the control is operating on battery power only. Initial conditions: The ac power is disconnected, the battery circuit is connected, and the Meter Range switch is set to Low.
 - Press the Battery Meter Selector switch in the Volts position for 5 seconds. The battery voltage should read 25-27 Vdc. If the battery charge is less than 23.2 Vdc, recharge the battery before performing the battery-load test described below.
 - With the Battery Meter Selector switch depressed, press the Battery Load Test switch for 5 seconds (which places a 5-ohm load on the battery). The voltage drop should not exceed 3.0 Vdc. If the voltage drop is greater than 3 volts, the battery should be replaced immediately or the recloser should be bypassed until a replacement battery is installed.



The Empire District Electric Company Detailed Inspection Standard

TITLE: Electric Maintenance Requirements for Distribution & Transmission Equipment

7. Maintenance: Battery-Replacement Procedures

a. Form 3A Control

1. Note the position of the recloser (open or closed).
2. Put the Ground Relay toggle switch in the CUT-OUT position.
3. Disconnect the control cable from the control cabinet.
4. De-energize battery charger voltage by opening the battery charger fuse block switch.
5. Operate the Manual Control Switch to OPEN.
6. Unplug and remove the old control battery.
7. Install and plug in the new control battery.
8. Close the battery charger fuse block switch to energize the battery charger voltage.
9. Move the Manual Control Switch to CLOSE, to ensure that control is reset to the home position.
10. If the recloser position was noted as closed, skip this step. If the recloser position was noted as open, move the Manual Control Switch to Open.
11. Reconnect the control cable to the control cabinet.
12. Put the Ground Relay toggle switch in the CUT-IN position.
13. Verify the recloser is in the proper position (open or closed).

b. Form 4C Control

1. Note the position of the recloser (either open or closed).
2. Place the ground-relay toggle switch in the cutout position.
3. Disconnect the control cable from the control cabinet.
4. De-energize the ac power to the control. (Remove the ac supply fuses from the controller.)
5. Unplug and remove the old control battery.
6. Install and plug in the new control battery.
7. Apply ac power to the control.
8. Reconnect the control cable to the control cabinet.
9. Place the ground-relay toggle switch in the cut-in position.
10. Reset the control clock.
11. Perform a battery test to confirm that the new battery passes the above tests.
12. Verify that the recloser is in the proper position (either open or closed).



The Empire District Electric Company Detailed Inspection Standard

TITLE: Electric Maintenance Requirements for Distribution & Transmission Equipment

8. Overhauls:

Reclosers must be removed and overhauled as required, which is determined by the maximum number of operations from the simulated duty-cycle-monitor computer program. Also, reclosers must be maintained or overhauled based on the results of inspections, infrared imaging, operations, etc. (for example, broken bushings, gunshots, leaking oil, etc.). Reclosers in a coastal and/or corrosive environment must be closely inspected (from a bucket truck) 10 years after being installed new or overhauled. If this close inspection reveals extreme external corrosion, the recloser must be removed and overhauled. If the close inspection does not reveal any problems, the next time frame for a close inspection of the recloser must be established based on the findings of the current close inspection. The requirement for a close inspection is in addition to the removal and overhaul requirements established by the simulated duty-cycle-monitor computer program.

- Reclosers equipped with external ground relays should have the relays tested at the time of the overhaul.
- Reclosers equipped with microprocessor controls (such as a Form 4C control) have a duty-cycle-monitor that indicates when maintenance is required. This monitor, instead of the simulated duty cycle listed above, must be used to establish the overhaul requirements.

Overhaul Procedures

Refer to Work Policy 11 (WP11)



The Empire District Electric Company Detailed Inspection Standard

TITLE: Electric Maintenance Requirements for Distribution & Transmission Equipment

Regulators, Overhead Equipment Sheet

- 1. Equipment:** Regulators, overhead.
- 2. Subtype:** Pole-bolted or platform-mounted.
- 3. Inspection:** Make a visual inspection to check the condition of the bushings, tank, bypass, disconnect switches, lightning arrestors, etc.
- 4. Testing:**
 - a. Check the condition of the bushings, tank, bypass, disconnect switches, lightning arrestors, etc.
 - b. Record the voltmeter readings.
 - c. Record the indicator position and the minimum-maximum range.
 - d. Check that the regulator is operating properly. Place the regulator on manual control, raise the voltage, reset the control to automatic, and note if the regulator returns to the proper position. Check that the counter is operating properly. Repeat this procedure, except lower the voltage instead of raising it.
 - e. Record the counter reading.
 - f. Reset the range indicators, if present.
 - g. Before leaving, check that the regulator controls are on automatic.
- 5. Maintenance:** Regulators should be removed from the line and returned to the shop for overhaul every 500,000 operations or after a period not to exceed 10 years, whichever comes first.



The Empire District Electric Company Detailed Inspection Standard

TITLE: Electric Maintenance Requirements for Distribution & Transmission Equipment

Switch, Overhead – Overhead Air (Solid Blade, Old-Style, Torsion-Type and U.S. Switch) Equipment Sheet

1. Equipment: Switch, overhead.

2. Subtype: Overhead air.

- a. Old-style, torsion-type.
- b. U.S. switch.

3. Inspection: Overhead air switches must be inspected when operating the switch. When U.S. style switches are in the closed position, check to ensure that all phases are fully closed (the switch blade must be parallel with the phase unit channel) and all interrupters are latched. In addition, the control rod must have a slight compression load (approximately 1½ inches of compression for 30 feet of rod) against the switch when it is in the closed position (i.e., the fiberglass control rod should have a slight bow in it). Note the following to determine if the closed U.S. style switch is fully latched:

- The Cooper switch is properly latched if the interrupter arm has passed through the catch arm.
- Check for arrestors installed on both sides of switch.

4. Testing: Thermal/Infared scan.

5. Maintenance: As required by the results of inspections, infrared surveys, operations, etc. After a few years, a switch may become stiff and difficult to operate. If that occurs, sparingly apply "Conducto-Lube" (Code 495346) to the overhead switch contacts.



The Empire District Electric Company Detailed Inspection Standard

**TITLE: Electric Maintenance Requirements
for Distribution & Transmission Equipment**

Switch, Underground – Pad-Mounted Equipment Sheet

- 1. Equipment:** Switch, underground.
- 2. Subtype:** Pad-mounted, solid-blade, and/or fuse.
 - a. PMH 3 - gang-operated switch only.
 - b. PMH 4, 5, 6, 9, and 11, 12, 13 - with expulsion and gang-operated switch.

Note: PHM 4 - expulsion fuse only.
- 3. Inspection:** Pad-mounted switches and/or fuses must be inspected when operating the device.
- 4. Testing:** None required.
- 5. Maintenance:** As required by the results of inspections, infrared surveys, operations, etc.



The Empire District Electric Company Detailed Inspection Standard

TITLE: Electric Maintenance Requirements for Distribution & Transmission Equipment

Transformers, Overhead Equipment Sheet

1) Equipment: Transformers, overhead.

2) Inspection: As needed.

Check the insulators and bushings for cracks, tracks, and flash marks.

On a transformer equipped with a lightening arrester(s)

a) Check for isolator activation.

b) Insure primary lead is connected to the primary bushing.

Check for leaking oil.

Check for excessive corrosion.

Check the temperature by doing a thermal/infared scan.

Record the ambient temperature.

Inspect security of cabinet/locks.

3) Testing: none.

4) Maintenance: None in the field.



The Empire District Electric Company Detailed Inspection Standard

TITLE: Electric Maintenance Requirements for Distribution & Transmission Equipment

Transformers – Pad-Mounted, Dead-Front & Live-Front (Low-Profile, Single-Phase and Three-Phase) Equipment Sheet

- 1) Equipment:** Transformers, underground.
- 2) Subtype:** Pad-mounted, dead-front.
 - a) Low-profile, single-phase transformer with single-phase
 - b) Three-phase transformers.
- 3) Inspection:** All dead-front, pad-mounted transformers must be inspected externally and internally for abnormal conditions, as needed. The inspection results and any abnormal conditions that are found must be documented and corrected. Abnormal conditions include:
 - Shrubs or trees within a 5-foot operating space on three sides and 10-foot operating space in the front that will interfere with equipment operation.
 - Missing or unintelligible high voltage signs or equipment identification numbers.
 - A cabinet that is damaged or unsecured, has a missing lock, or is unsafe to the public.
 - The lack of a barrier post needed for vehicular protection.
 - Fiber barriers in the primary compartment that show signs of tracking.
 - Conduct a thermal/infrared scan.
 - Record the ambient temperature.
- 4) Testing:** None required.
- 5) Maintenance:** None in the field.



The Empire District Electric Company Detailed Inspection Standard

**TITLE: Electric Maintenance Requirements
for Distribution & Transmission Equipment**

Pole – Transmission & Distribution

- 1. Equipment:** Transmission or distribution.
- 2. Subtype:** wood or steel
- 3. Inspection:** Check the structural integrity of the pole and note number and size of woodpecker holes and any current bracing.. Check that all anchors, guys and tie wires are adequately attached and properly tensioned. Check all crossarms, pins, insulators, ground wires and any attached electric equipment to insure that they are adequately attached. Insure that the pole has an Empire District pole identifier.
- 4. Testing:** Intrusive inspection will drill and treat with core hardener.
- 5. Maintenance:** Tighten attachments, guys and anchors. Add C-brace to support structural integrity.



The Empire District Electric Company Detailed Inspection Standard

**TITLE: Electric Maintenance Requirements
for Distribution & Transmission Equipment**

Vaults

- 1. Equipment:** Underground
- 2. Subtype:** Concrete
- 3. Inspection:** Check the structural integrity of the vault lid. Ensure that lid is properly sealed. Remove any woody vegetation growing next to vault.
- 4. Testing:** None
- 5. Maintenance:** As required by the results of inspections.



The Empire District Electric Company Detailed Inspection Standard

**TITLE: Electric Maintenance Requirements
for Distribution & Transmission Equipment**

Streetlight Equipment Sheets

- 1. Equipment:** Streetlight.
- 2. Subtype:** Pole-bolted. Mounted on distribution pole. Mounted on streetlight only pole or post.
- 3. Inspection:** All streetlights must be inspected per the table on page 3. The inspection must include: checking for missing or illegible numbers, broken lens, dayburning lamps, secure inspection plate, secure installation. In addition, the need for repainting steel poles should also be assessed. Record the results of the inspection. Currently rely on cities/municipalities to report lights not working.
- 4. Testing:** Wood poles must be hammer tested per the table on page 3. Do not bore test centerbored wood poles. Record the results of the inspections.
- 5. Maintenance:** As identified during inspection.



The Empire District Electric Company Detailed Inspection Standard

TITLE: Electric Maintenance Requirements for Distribution & Transmission Equipment

Primary Pedestal

- 1. Equipment:** Above ground pedestal.
- 2. Subtype:** Metal cabinet.
- 3. Inspection:** Check mounting and security lock. Perform thermal/infrared scan.
- 4. Testing:** None
- 5. Maintenance:** As identified during inspection.

Section 1.1.3

Patrol Inspection Schedule

Empire District Electric Company

Infrastructure Patrol Summary

4 Year Maintenance Cycle

| Area | Total | Total | 2008 Miles | 2009 Miles | 2010 Miles | 2011 Miles | 2012 Miles | 2013 Miles | 2014 Miles | 2015 Miles | 2016 Miles | 2017 Miles | 2018 Miles | 2019 Miles | 2020 Miles | 2021 Miles |
|----------------|--------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | Meters | Miles | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled |
| 209 | 17121 | 377.3 | 0.0 | 35.1 | 61.1 | 42.8 | 54.9 | 25.9 | 58.0 | 47.3 | 52.2 | 35.1 | 61.1 | 42.8 | 54.9 | 25.9 |
| 211 | 7859 | 143.2 | 0.0 | 33.3 | 20.3 | 17.5 | 12.2 | 28.0 | 0.0 | 13.4 | 18.5 | 33.3 | 20.3 | 17.5 | 12.2 | 28.0 |
| 212 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 213 | 7955 | 190.5 | 0.0 | 18.6 | 22.7 | 6.6 | 45.2 | 32.3 | 0.0 | 43.1 | 22.0 | 18.6 | 22.7 | 6.6 | 45.2 | 32.3 |
| 214 | 27424 | 427.0 | 0.0 | 49.8 | 62.6 | 59.3 | 47.3 | 42.7 | 59.4 | 56.9 | 49.0 | 49.8 | 62.6 | 59.3 | 47.3 | 42.7 |
| 215 | 9763 | 187.1 | 0.0 | 22.2 | 41.4 | 18.8 | 15.3 | 38.0 | 11.2 | 19.3 | 20.8 | 22.2 | 41.4 | 18.8 | 15.3 | 38.0 |
| 216 | 4324 | 84.0 | 0.0 | 15.3 | 3.2 | 0.0 | 34.5 | 10.0 | 20.9 | 0.0 | 0.0 | 15.3 | 3.2 | 0.0 | 34.5 | 10.0 |
| 217 | 10385 | 234.3 | 0.0 | 48.1 | 14.0 | 25.8 | 46.5 | 42.0 | 16.0 | 2.6 | 39.3 | 48.1 | 14.0 | 25.8 | 46.5 | 42.0 |
| Total | 84831 | 1643 | 0.0 | 222.3 | 225.3 | 170.9 | 256.1 | 219.0 | 165.6 | 182.6 | 201.8 | 222.3 | 225.3 | 170.9 | 256.1 | 219.0 |
| Running | | | 0.0% | 13.5% | 27.2% | 37.6% | 53.2% | 66.5% | 76.6% | 87.7% | 100.0% | 113.5% | 127.2% | 137.6% | 153.2% | 166.5% |

6 Year Maintenance Cycle

| Area | Total | Total | 2008 Miles | 2009 Miles | 2010 Miles | 2011 Miles | 2012 Miles | 2013 Miles | 2014 Miles | 2015 Miles | 2016 Miles | 2017 Miles | 2018 Miles | 2019 Miles | 2020 Miles | 2021 Miles |
|----------------|--------------|---------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
| | Meters | Miles | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled |
| 209 | 2921 | 113.8 | 0.0 | 33.7 | 42.4 | 0.0 | 21.0 | 0.0 | 0.0 | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 33.7 |
| 211 | 13227 | 736.5 | 0.0 | 47.8 | 106.8 | 55.3 | 55.1 | 113.9 | 73.8 | 33.5 | 44.5 | 83.7 | 53.9 | 0.0 | 68.2 | 47.8 |
| 212 | 17021 | 829.1 | 0.0 | 0.0 | 78.8 | 70.8 | 114.2 | 66.4 | 92.9 | 0.0 | 78.8 | 70.8 | 114.2 | 66.4 | 92.9 | 0.0 |
| 213 | 9874 | 594.8 | 0.0 | 67.3 | 51.8 | 25.9 | 60.8 | 49.5 | 57.8 | 37.3 | 88.9 | 37.1 | 57.0 | 22.7 | 38.7 | 67.3 |
| 214 | 4587 | 265.5 | 0.0 | 71.3 | 43.0 | 0.0 | 0.0 | 0.0 | 34.5 | 0.0 | 23.1 | 65.1 | 0.0 | 0.0 | 28.5 | 71.3 |
| 215 | 12929 | 672.7 | 0.0 | 28.8 | 13.4 | 119.3 | 69.0 | 86.4 | 91.8 | 34.3 | 8.5 | 97.2 | 0.0 | 64.1 | 59.9 | 28.8 |
| 216 | 18488 | 833.6 | 0.0 | 34.4 | 76.3 | 91.4 | 56.6 | 107.3 | 52.4 | 49.8 | 63.4 | 74.2 | 109.0 | 59.5 | 59.4 | 34.4 |
| 217 | 8669 | 375.6 | 0.0 | 22.5 | 43.9 | 74.6 | 56.0 | 59.4 | 25.9 | 15.3 | 35.7 | 42.4 | 0.0 | 0.0 | 0.0 | 22.5 |
| Total | 87716 | 4421.7 | 0.0 | 305.8 | 456.4 | 437.2 | 432.6 | 482.9 | 429.1 | 186.9 | 342.9 | 470.5 | 334.1 | 212.7 | 347.6 | 305.8 |
| Running | | | 0.0% | 6.9% | 17.2% | 27.1% | 36.9% | 47.8% | 57.5% | 61.8% | 69.5% | 80.2% | 87.7% | 92.5% | 100.4% | 107.3% |

Empire District Totals

| | | | | | | | | | | | | | | | | |
|--------|--------|--------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Totals | 172547 | 6065.2 | 0.0 | 528.1 | 681.7 | 608.1 | 688.7 | 702.0 | 594.7 | 369.5 | 544.7 | 692.8 | 559.4 | 383.6 | 603.6 | 524.8 |
|--------|--------|--------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

Company Totals

| Area | Total | Total | 2008 Miles | 2009 Miles | 2010 Miles | 2011 Miles | 2012 Miles | 2013 Miles | 2014 Miles | 2015 Miles | 2016 Miles | 2017 Miles | 2018 Miles | 2019 Miles | 2020 Miles | 2021 Miles |
|--------------|---------------|---------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Meters | Miles | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled |
| 209 | 20042 | 491.2 | 0.0 | 68.8 | 103.5 | 42.8 | 75.9 | 25.9 | 58.0 | 64.0 | 52.2 | 35.1 | 61.1 | 42.8 | 54.9 | 59.7 |
| 211 | 21086 | 879.7 | 0.0 | 81.1 | 127.0 | 72.8 | 67.3 | 142.0 | 73.8 | 46.9 | 63.0 | 117.0 | 74.2 | 17.5 | 80.4 | 75.9 |
| 212 | 17021 | 829.1 | 0.0 | 0.0 | 78.8 | 70.8 | 114.2 | 66.4 | 92.9 | 0.0 | 78.8 | 70.8 | 114.2 | 66.4 | 92.9 | 0.0 |
| 213 | 17829 | 785.2 | 0.0 | 85.9 | 74.5 | 32.5 | 106.0 | 81.8 | 57.8 | 80.5 | 110.9 | 55.7 | 79.6 | 29.3 | 83.9 | 99.6 |
| 214 | 32011 | 692.5 | 0.0 | 121.1 | 105.6 | 59.3 | 47.3 | 42.7 | 94.0 | 56.9 | 72.0 | 114.9 | 62.6 | 59.3 | 75.8 | 114.0 |
| 215 | 22692 | 859.8 | 0.0 | 51.0 | 54.8 | 138.0 | 84.4 | 124.4 | 103.1 | 53.5 | 29.3 | 119.4 | 41.4 | 82.9 | 75.2 | 66.9 |
| 216 | 22812 | 917.7 | 0.0 | 49.7 | 79.5 | 91.4 | 91.1 | 117.3 | 73.4 | 49.8 | 63.4 | 89.5 | 112.2 | 59.5 | 94.0 | 44.4 |
| 217 | 19054 | 610.0 | 0.0 | 70.5 | 57.9 | 100.4 | 102.5 | 101.4 | 41.9 | 17.9 | 75.0 | 90.4 | 14.0 | 25.8 | 46.5 | 64.5 |
| Total | 172547 | 6065.2 | 0.0 | 528.1 | 681.7 | 608.1 | 688.7 | 702.0 | 594.7 | 369.5 | 544.7 | 692.8 | 559.4 | 383.6 | 603.6 | 524.8 |

Company Percentages/Year

| Area | Total | Total | 2008 Miles | 2009 Miles | 2010 Miles | 2011 Miles | 2012 Miles | 2013 Miles | 2014 Miles | 2015 Miles | 2016 Miles | 2017 Miles | 2018 Miles | 2019 Miles | 2020 Miles | 2021 Miles |
|--------------|---------------|---------------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | Meters | Miles | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled |
| 209 | 20042 | 8.1% | 0.0% | 13.0% | 15.2% | 7.0% | 11.0% | 3.7% | 9.7% | 17.3% | 9.6% | 5.1% | 10.9% | 11.2% | 9.1% | 11.4% |
| 211 | 21086 | 14.5% | 0.0% | 15.4% | 18.6% | 12.0% | 9.8% | 20.2% | 12.4% | 12.7% | 11.6% | 16.9% | 13.3% | 4.6% | 13.3% | 14.5% |
| 212 | 17021 | 13.7% | 0.0% | 0.0% | 11.6% | 11.6% | 16.6% | 9.5% | 15.6% | 0.0% | 14.5% | 10.2% | 20.4% | 17.3% | 15.4% | 0.0% |
| 213 | 17829 | 12.9% | 0.0% | 16.3% | 10.9% | 5.3% | 15.4% | 11.7% | 9.7% | 21.8% | 20.4% | 8.0% | 14.2% | 7.6% | 13.9% | 19.0% |
| 214 | 32011 | 11.4% | 0.0% | 22.9% | 15.5% | 9.8% | 6.9% | 6.1% | 15.8% | 15.4% | 13.2% | 16.6% | 11.2% | 15.5% | 12.6% | 21.7% |
| 215 | 22692 | 14.2% | 0.0% | 9.7% | 8.0% | 22.7% | 12.2% | 17.7% | 17.3% | 14.5% | 5.4% | 17.2% | 7.4% | 21.6% | 12.5% | 12.7% |
| 216 | 22812 | 15.1% | 0.0% | 9.4% | 11.7% | 15.0% | 13.2% | 16.7% | 12.3% | 13.5% | 11.6% | 12.9% | 20.1% | 15.5% | 15.6% | 8.5% |
| 217 | 19054 | 10.1% | 0.0% | 13.4% | 8.5% | 16.5% | 14.9% | 14.4% | 7.0% | 4.8% | 13.8% | 13.1% | 2.5% | 6.7% | 7.7% | 12.3% |
| Total | 172547 | 100.0% | 0.0% | 100.0% |

East/West Totals

| Area | Total | Total | 2008 Miles | 2009 Miles | 2010 Miles | 2011 Miles | 2012 Miles | 2013 Miles | 2014 Miles | 2015 Miles | 2016 Miles | 2017 Miles | 2018 Miles | 2019 Miles | 2020 Miles | 2021 Miles |
|--------------|---------------|---------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Meters | Miles | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled | Scheduled |
| East | 78011 | 2766.1 | 0.0 | 306.3 | 362.9 | 248.6 | 351.7 | 351.1 | 231.4 | 209.3 | 301.1 | 298.2 | 229.0 | 115.5 | 265.8 | 299.6 |
| West | 94536 | 3299.0 | 0.0 | 221.8 | 318.8 | 359.5 | 337.0 | 350.8 | 363.3 | 160.2 | 243.6 | 394.6 | 330.4 | 268.1 | 337.9 | 225.3 |
| Total | 172547 | 6065.2 | 0.0 | 528.1 | 681.7 | 608.1 | 688.7 | 702.0 | 594.7 | 369.5 | 544.7 | 692.8 | 559.4 | 383.6 | 603.6 | 524.8 |

State Totals

| | Total | Total | 2008 Miles | 2009 Miles | 2010 Miles | 2011 Miles | 2012 Miles | 2013 Miles | 2014 Miles | 2015 Miles | 2016 Miles | 2017 Miles | 2018 Miles | 2019 Miles | 2020 Miles | 2021 Miles |
|-------|--------|--------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Area | Meters | Miles | Scheduled |
| MO | 150483 | 5042 | 0.0 | 528.1 | 582.0 | 537.3 | 517.9 | 614.0 | 501.8 | 369.5 | 438.3 | 622.0 | 392.6 | 313.0 | 494.5 | 524.8 |
| KS | 10387 | 529.6 | 0.0 | 0.0 | 61.6 | 36.0 | 114.2 | 0.0 | 12.8 | 0.0 | 61.6 | 36.0 | 114.2 | 0.0 | 12.8 | 0.0 |
| OK | 7197 | 312 | 0.0 | 0.0 | 17.2 | 34.8 | 0.0 | 87.9 | 80.1 | 0.0 | 17.2 | 34.8 | 0.0 | 66.4 | 80.1 | 0.0 |
| AR | 4480 | 172.4 | 0.0 | 0.0 | 20.9 | 0.0 | 56.6 | 0.0 | 0.0 | 0.0 | 27.6 | 0.0 | 52.6 | 4.2 | 16.3 | 0.0 |
| Total | 172547 | 6056.6 | 0.0 | 528.1 | 681.7 | 608.1 | 688.7 | 702.0 | 594.7 | 369.5 | 544.7 | 692.8 | 559.4 | 383.6 | 603.6 | 524.8 |

State 4 Year Maintenance Totals

| | Total | Total | 2008 Miles | 2009 Miles | 2010 Miles | 2011 Miles | 2012 Miles | 2013 Miles | 2014 Miles | 2015 Miles | 2016 Miles | 2017 Miles | 2018 Miles | 2019 Miles | 2020 Miles | 2021 Miles |
|-------|--------|--------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Area | Meters | Miles | Scheduled |
| MO | 84268 | 1622 | 0.0 | 222.3 | 225.3 | 170.9 | 256.1 | 219.0 | 165.6 | 182.6 | 201.8 | 222.3 | 225.3 | 170.9 | 256.1 | 219.0 |
| KS | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OK | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AR | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 84268 | 1622.1 | 0.0 | 222.3 | 225.3 | 170.9 | 256.1 | 219.0 | 165.6 | 182.6 | 201.8 | 222.3 | 225.3 | 170.9 | 256.1 | 219.0 |

State 6 Year Maintenance Totals

| | Total | Total | 2008 Miles | 2009 Miles | 2010 Miles | 2011 Miles | 2012 Miles | 2013 Miles | 2014 Miles | 2015 Miles | 2016 Miles | 2017 Miles | 2018 Miles | 2019 Miles | 2020 Miles | 2021 Miles |
|-------|--------|--------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Area | Meters | Miles | Scheduled |
| MO | 66215 | 3420.2 | 0.0 | 305.8 | 356.7 | 366.4 | 261.9 | 373.4 | 336.2 | 186.9 | 236.5 | 399.7 | 167.3 | 142.1 | 238.5 | 305.8 |
| KS | 10387 | 529.6 | 0.0 | 0.0 | 61.6 | 36.0 | 114.2 | 0.0 | 12.8 | 0.0 | 61.6 | 36.0 | 114.2 | 0.0 | 12.8 | 0.0 |
| OK | 7197 | 312 | 0.0 | 0.0 | 17.2 | 34.8 | 0.0 | 87.9 | 80.1 | 0.0 | 17.2 | 34.8 | 0.0 | 66.4 | 80.1 | 0.0 |
| AR | 4480 | 172.4 | 0.0 | 0.0 | 20.9 | 0.0 | 56.6 | 0.0 | 0.0 | 0.0 | 27.6 | 0.0 | 52.6 | 4.2 | 16.3 | 0.0 |
| Total | 88279 | 4434.5 | 0.0 | 305.8 | 456.4 | 437.2 | 432.6 | 461.4 | 429.1 | 186.9 | 342.9 | 470.5 | 334.1 | 212.7 | 347.6 | 305.8 |

State 4 Year Maintenance Running Percentage for that State

| | Total | Total | 2008 Miles | 2009 Miles | 2010 Miles | 2011 Miles | 2012 Miles | 2013 Miles | 2014 Miles | 2015 Miles | 2016 Miles | 2017 Miles | 2018 Miles | 2019 Miles | 2020 Miles | 2021 Miles |
|-------|--------|--------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Area | Meters | Miles | Scheduled |
| MO | 84268 | 1622.1 | 0.0% | 13.7% | 27.6% | 38.1% | 53.9% | 67.4% | 77.6% | 88.9% | 101.3% | 115.0% | 128.9% | 139.4% | 155.2% | 168.7% |
| KS | 0 | 0.0 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| OK | 0 | 0.0 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| AR | 0 | 0.0 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Total | 84268 | 1622.1 | 0.0% | 13.7% | 27.6% | 38.1% | 53.9% | 67.4% | 77.6% | 88.9% | 101.3% | 115.0% | 128.9% | 139.4% | 155.2% | 168.7% |

State 6 Year Maintenance Running Percentage for that State

| | Total | Total | 2008 Miles | 2009 Miles | 2010 Miles | 2011 Miles | 2012 Miles | 2013 Miles | 2014 Miles | 2015 Miles | 2016 Miles | 2017 Miles | 2018 Miles | 2019 Miles | 2020 Miles | 2021 Miles |
|-------|--------|--------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Area | Meters | Miles | Scheduled |
| MO | 66215 | 3420.2 | 0.0% | 8.9% | 19.4% | 30.1% | 37.7% | 48.7% | 58.5% | 64.0% | 70.9% | 82.6% | 87.4% | 91.6% | 98.6% | 107.5% |
| KS | 10387 | 529.6 | 0.0% | 0.0% | 11.6% | 18.4% | 40.0% | 40.0% | 42.4% | 42.4% | 54.0% | 60.8% | 82.4% | 82.4% | 84.8% | 84.8% |
| OK | 7197 | 312.3 | 0.0% | 0.0% | 5.5% | 16.7% | 16.7% | 44.8% | 70.5% | 76.0% | 87.1% | 87.1% | 108.4% | 134.0% | 134.0% | 134.0% |
| AR | 4480 | 172.4 | 0.0% | 0.0% | 12.1% | 12.1% | 44.9% | 44.9% | 44.9% | 44.9% | 60.9% | 60.9% | 91.4% | 93.9% | 103.3% | 103.3% |
| Total | 88279 | 4434.5 | 0.0% | 8.9% | 48.6% | 77.3% | 139.3% | 178.4% | 216.3% | 221.7% | 261.8% | 291.4% | 348.4% | 376.3% | 420.7% | 429.7% |

Empire District Electric

Infrastructure Management - Patrol Inspection

| Circuit ID | Area | Sub | State | Total Meters | Total Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned | 2021 Planned | | |
|--------------|------|-----|-------|--------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------|-----|
| 3121 | 209 | 312 | MO | 1053 | 17.8 | 59.1 | 4 | 0.0 | 0.0 | 17.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.8 | 0.0 | 0.0 | 0.0 | | |
| 3311 | 209 | 331 | MO | 635 | 16.2 | 39.3 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.2 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 3312 | 209 | 331 | MO | 17 | 4.7 | 3.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 3313 | 209 | 331 | MO | 486 | 12.3 | 39.7 | 4 | 0.0 | 0.0 | 12.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.3 | 0.0 | 0.0 | 0.0 | | |
| 3314 | 209 | 331 | MO | 207 | 7.1 | 29.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 3315 | 209 | 331 | MO | 1032 | 31.4 | 32.9 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 31.4 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 3871 | 209 | 387 | MO | 1215 | 14.6 | 83.3 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 14.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.6 | 0.0 | |
| 3872 | 209 | 387 | MO | 896 | 13.2 | 68.0 | 4 | 0.0 | 0.0 | 13.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.2 | 0.0 | 0.0 | 0.0 | | |
| 3873 | 209 | 387 | MO | 1815 | 40.2 | 45.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 40.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 3874 | 209 | 387 | MO | 186 | 6.5 | 28.7 | 4 | 0.0 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 4101 | 209 | 410 | MO | 553 | 16.5 | 33.5 | 4 | 0.0 | 0.0 | 16.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.5 | 0.0 | 0.0 | 0.0 | | |
| 4102 | 209 | 410 | MO | 800 | 20.9 | 38.3 | 4 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | |
| 4131 | 209 | 413 | MO | 179 | 6.8 | 26.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 6.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.8 | 0.0 | |
| 4132 | 209 | 413 | MO | 408 | 6.2 | 66.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 0.0 |
| 4133 | 209 | 413 | MO | 298 | 10.6 | 28.1 | 4 | 0.0 | 10.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4134 | 209 | 413 | MO | 782 | 15.2 | 51.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 15.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.2 | 0.0 |
| 4135 | 209 | 413 | MO | 61 | 2.9 | 20.8 | 4 | 0.0 | 0.0 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4136 | 209 | 413 | MO | 601 | 7.0 | 85.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4137 | 209 | 413 | MO | 719 | 10.7 | 67.3 | 4 | 0.0 | 0.0 | 10.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.7 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4138 | 209 | 413 | MO | 694 | 12.6 | 55.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.6 | 0.0 |
| 4331 | 209 | 433 | MO | 273 | 13.4 | 20.4 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.4 | 0.0 |
| 4332 | 209 | 433 | MO | 203 | 5.7 | 35.5 | 4 | 0.0 | 5.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4333 | 209 | 433 | MO | 389 | 12.2 | 31.9 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 12.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.2 | 0.0 |
| 4334 | 209 | 433 | MO | 377 | 7.1 | 52.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4381 | 209 | 438 | MO | 208 | 22.0 | 9.5 | 4 | 0.0 | 0.0 | 0.0 | 22.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.0 | 0.0 | 0.0 | 0.0 | |
| 4383 | 209 | 438 | MO | 319 | 12.9 | 24.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4385 | 209 | 438 | MO | 1090 | 17.4 | 62.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4386 | 209 | 438 | MO | 1625 | 13.5 | 120.4 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | | | | 17121 | 377.3 | | | 0.0 | 35.1 | 61.1 | 42.8 | 54.9 | 25.9 | 58.0 | 47.3 | 52.2 | 35.1 | 61.1 | 42.8 | 54.9 | 25.9 | | |
| 2951 | 209 | 295 | MO | 1268 | 42.4 | 29.9 | 6 | 0.0 | 0.0 | 42.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2952 | 209 | 295 | MO | 140 | 8.9 | 15.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3122 | 209 | 312 | MO | 818 | 33.7 | 24.3 | 6 | 0.0 | 33.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 33.7 | 0.0 | |
| 3123 | 209 | 312 | MO | 670 | 21.0 | 31.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 21.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4561 | 209 | 456 | MO | 25 | 7.8 | 3.2 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Total | | | | 2921 | 113.8 | | | 0.0 | 33.7 | 42.4 | 0.0 | 21.0 | 0.0 | 0.0 | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 33.7 | | |

Empire District Electric

Infrastructure Management - Patrol Inspection

| Circuit ID | Area | Sub | State | Total Meters | Total Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned | 2021 Planned | | | | |
|--------------|------|-----|-------|----------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------|-----|-----|-----|
| 1242 | 211 | 124 | MO | 663 | 7.5 | 88.8 | 4 | 0.0 | 0.0 | 0.0 | 7.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.5 | 0.0 | 0.0 | | | | |
| 1243 | 211 | 124 | MO | 974 | 18.5 | 52.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.5 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| 2211 | 211 | 221 | MO | 721 | 20.3 | 35.5 | 4 | 0.0 | 0.0 | 20.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.3 | 0.0 | 0.0 | 0.0 | | | | |
| 3551 | 211 | 355 | MO | 1005 | 12.2 | 82.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 12.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.2 | 0.0 | 0.0 | | | |
| 3591 | 211 | 359 | MO | 984 | 21.6 | 45.6 | 4 | 0.0 | 21.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.6 | 0.0 | 0.0 | 0.0 | | | | |
| 3593 | 211 | 359 | MO | 986 | 10.0 | 98.4 | 4 | 0.0 | 0.0 | 0.0 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 0.0 | 0.0 | 0.0 | | | |
| 3594 | 211 | 359 | MO | 524 | 13.4 | 39.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| 4511 | 211 | 451 | MO | 1546 | 28.0 | 55.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 28.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 28.0 | 0.0 | | |
| 4512 | 211 | 451 | MO | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 4513 | 211 | 451 | MO | 456 | 11.7 | 39.1 | 4 | 0.0 | 11.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Total | | | | 7859.0 | 143.2 | | | 0.0 | 33.3 | 20.3 | 17.5 | 12.2 | 28.0 | 0.0 | 13.4 | 18.5 | 33.3 | 20.3 | 17.5 | 12.2 | 28.0 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1241 | 211 | 124 | MO | 831 | 31.1 | 26.7 | 6 | 0.0 | 31.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 31.1 | 0.0 | | |
| 1521 | 211 | 152 | MO | 1560 | 106.8 | 14.6 | 6 | 0.0 | 0.0 | 106.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 1522 | 211 | 152 | MO | 138 | 16.7 | 8.3 | 6 | 0.0 | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.7 | 0.0 | | |
| 1523 | 211 | 152 | MO | 697 | 55.0 | 12.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 55.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2051 | 211 | 205 | MO | 210 | 21.3 | 9.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 2052 | 211 | 205 | MO | 440 | 18.8 | 23.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2212 | 211 | 221 | MO | 1097 | 55.3 | 19.8 | 6 | 0.0 | 0.0 | 0.0 | 55.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 2622 | 211 | 262 | MO | 111 | 12.2 | 9.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 3552 | 211 | 355 | MO | 550 | 18.4 | 29.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.4 | 0.0 | 0.0 | | |
| 3553 | 211 | 355 | MO | 949 | 49.8 | 19.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 49.8 | 0.0 | 0.0 | | |
| 3592 | 211 | 359 | MO | 1534 | 55.1 | 27.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 55.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3621 | 211 | 362 | MO | 1135 | 73.5 | 15.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 73.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3901 | 211 | 390 | MO | 862 | 30.9 | 27.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 3902 | 211 | 390 | MO | 93 | 10.3 | 9.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3903 | 211 | 390 | MO | 276 | 13.6 | 20.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 4371 | 211 | 437 | MO | 2169 | 113.9 | 19.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 113.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4372 | 211 | 437 | MO | 575 | 53.9 | 10.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 53.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | | | | 13227.0 | 736.5 | | | 0.0 | 47.8 | 106.8 | 55.3 | 55.1 | 113.9 | 73.8 | 33.5 | 44.5 | 83.7 | 53.9 | 0.0 | 68.2 | 47.8 | | | | |

Empire District Electric

Infrastructure Management - Patrol Inspection

| Circuit ID | Area | Sub | State | Total Meters | Total Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned | 2021 Planned | |
|--------------|------|-----|-------|----------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|
| 0 | #N/A | ### | #N/A | #N/A | #N/A | #N/A | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | | 0.0 | | | | 0.0 | |
| 1861 | 212 | 186 | OK | 711 | 34.8 | 20.4 | 6 | 0.0 | 0.0 | 0.0 | 34.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 34.8 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2712 | 212 | 271 | OK | 1169 | 54.6 | 21.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 54.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 54.6 | 0.0 | |
| 2912 | 212 | 291 | OK | 714 | 25.4 | 28.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25.4 | 0.0 |
| 3631 | 212 | 363 | OK | 1233 | 62.1 | 19.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3771 | 212 | 377 | OK | 1086 | 66.4 | 16.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 66.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 66.4 | 0.0 | 0.0 |
| 3772 | 212 | 377 | OK | 10 | 1.7 | 5.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3773 | 212 | 377 | OK | 119 | 17.2 | 6.9 | 6 | 0.0 | 0.0 | 17.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3811 | 212 | 381 | OK | 859 | 13.1 | 65.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3812 | 212 | 381 | OK | 720 | 16.0 | 44.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4281 | 212 | 428 | OK | 13 | 1.8 | 7.2 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6601 | 212 | 66 | KS | 787 | 49.4 | 15.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6602 | 212 | 66 | KS | 499 | 20.1 | 24.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2711 | 212 | 271 | KS | 237 | 59.6 | 4.0 | 6 | 0.0 | 0.0 | 59.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 59.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2781 | 212 | 278 | KS | 1 | 0.6 | 1.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2782 | 212 | 278 | KS | 1457 | 54.6 | 26.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2783 | 212 | 278 | KS | 1119 | 45.1 | 24.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2821 | 212 | 282 | KS | 424 | 9.9 | 42.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2822 | 212 | 282 | KS | 374 | 6.8 | 54.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2823 | 212 | 282 | KS | 524 | 25.4 | 20.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2824 | 212 | 282 | KS | 923 | 17.3 | 53.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2911 | 212 | 291 | KS | 1194 | 61.6 | 19.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2913 | 212 | 291 | KS | 879 | 12.8 | 68.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.8 | 0.0 | 0.0 |
| 2914 | 212 | 291 | KS | 544 | 17.1 | 31.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2991 | 212 | 299 | KS | 1 | 0.4 | 2.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3391 | 212 | 339 | KS | 13 | 2.4 | 5.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4061 | 212 | 406 | KS | 1220 | 114.2 | 10.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 114.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 114.2 | 0.0 | 0.0 | 0.0 |
| 4062 | 212 | 406 | KS | 4 | 2.1 | 1.9 | 6 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4251 | 212 | 425 | KS | 185 | 36.0 | 5.1 | 6 | 0.0 | 0.0 | 0.0 | 36.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 36.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4441 | 212 | 444 | KS | 2 | 0.5 | 4.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | | | | 17021.0 | 829.1 | | | 0.0 | 0.0 | 78.8 | 70.8 | 114.2 | 66.4 | 92.9 | 0.0 | 78.8 | 70.8 | 114.2 | 66.4 | 92.9 | 0.0 | |

Empire District Electric

Infrastructure Management - Patrol Inspection

| Circuit ID | Area | Sub | State | Total Meters | Total Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned | 2021 Planned | |
|--------------|------|-----|-------|---------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------|
| 3671 | 213 | 367 | MO | 1058 | 16.7 | 63.2 | 4 | 0.0 | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3672 | 213 | 367 | MO | 145 | 1.8 | 79.2 | 4 | 0.0 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 | 0.0 | |
| 3673 | 213 | 367 | MO | 257 | 21.6 | 11.9 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.6 | 0.0 |
| 3674 | 213 | 367 | MO | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3675 | 213 | 367 | MO | 414 | 6.6 | 62.7 | 4 | 0.0 | 0.0 | 0.0 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 | 0.0 | 0.0 | |
| 4091 | 213 | 409 | MO | 1105 | 22.7 | 48.7 | 4 | 0.0 | 0.0 | 22.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.7 | 0.0 | 0.0 | 0.0 | |
| 4182 | 213 | 418 | MO | 930 | 23.6 | 39.4 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 23.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 23.6 | 0.0 |
| 4311 | 213 | 431 | MO | 964 | 11.5 | 84.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 11.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.5 |
| 4312 | 213 | 431 | MO | 1412 | 43.1 | 32.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 43.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4313 | 213 | 431 | MO | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 6021 | 213 | 602 | MO | 597 | 22.0 | 27.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 6022 | 213 | 602 | MO | 400 | 5.0 | 79.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | |
| 6143 | 213 | 614 | MO | 363 | 8.8 | 41.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 8.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.8 | |
| 6144 | 213 | 614 | MO | 310 | 7.0 | 44.4 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 | |
| Total | | | | 7955.0 | 190.5 | | | 0.0 | 18.6 | 22.7 | 6.6 | 45.2 | 32.3 | 0.0 | 43.1 | 22.0 | 18.6 | 22.7 | 6.6 | 45.2 | 32.3 | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 2091 | 213 | 209 | MO | 815 | 57.0 | 14.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 57.0 | 0.0 | 0.0 | 0.0 | |
| 2092 | 213 | 209 | MO | 820 | 32.3 | 25.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 32.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2171 | 213 | 217 | MO | 510 | 30.9 | 16.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2172 | 213 | 217 | MO | 207 | 34.4 | 6.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 34.4 | |
| 2491 | 213 | 249 | MO | 60 | 14.5 | 4.2 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2501 | 213 | 250 | MO | 77 | 4.3 | 17.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 0.0 | |
| 2511 | 213 | 251 | MO | 592 | 22.7 | 26.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.7 | |
| 2621 | 213 | 262 | MO | 1094 | 88.9 | 12.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 88.9 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3041 | 213 | 304 | MO | 76 | 3.1 | 24.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3081 | 213 | 308 | MO | 549 | 28.4 | 19.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 28.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3082 | 213 | 308 | MO | 320 | 11.2 | 28.6 | 6 | 0.0 | 0.0 | 11.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3181 | 213 | 318 | MO | 686 | 49.5 | 13.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 49.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3231 | 213 | 323 | MO | 357 | 18.8 | 19.0 | 6 | 0.0 | 0.0 | 18.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3232 | 213 | 323 | MO | 422 | 19.8 | 21.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 19.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3421 | 213 | 342 | MO | 624 | 25.9 | 24.1 | 6 | 0.0 | 0.0 | 0.0 | 25.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3422 | 213 | 342 | MO | 950 | 37.1 | 25.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 37.1 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4092 | 213 | 409 | MO | 386 | 26.9 | 14.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 26.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4181 | 213 | 418 | MO | 453 | 21.8 | 20.8 | 6 | 0.0 | 0.0 | 21.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 6141 | 213 | 614 | MO | 876 | 67.3 | 13.0 | 6 | 0.0 | 67.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 67.3 | |
| Total | | | | 9874.0 | 594.8 | | | 0.0 | 67.3 | 51.8 | 25.9 | 60.8 | 49.5 | 57.8 | 37.3 | 88.9 | 37.1 | 57.0 | 22.7 | 38.7 | 67.3 | |

Empire District Electric

Infrastructure Management - Patrol Inspection

| Circuit ID | Area | Sub | State | Total Meters | Total Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned | 2021 Planned | | | |
|------------|------|-----|-------|--------------|-------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------|-----|-----|
| 1225 | 214 | 59 | MO | 931 | 7.7 | 121.5 | 4 | 0.0 | 0.0 | 0.0 | 7.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.7 | 0.0 | 0.0 | | | |
| 1226 | 214 | 59 | MO | 339 | 4.2 | 80.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 0.0 | | |
| 1227 | 214 | 59 | MO | 1164 | 20.3 | 57.3 | 4 | 0.0 | 0.0 | 0.0 | 20.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.3 | 0.0 | 0.0 | 0.0 | | |
| 1228 | 214 | 59 | MO | 491 | 4.2 | 117.3 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 0.0 | | |
| 1229 | 214 | 59 | MO | 1972 | 13.2 | 149.9 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 401 | 214 | 64 | MO | 102 | 0.8 | 133.1 | 4 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | | |
| 402 | 214 | 64 | MO | 107 | 1.9 | 57.6 | 4 | 0.0 | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 403 | 214 | 64 | MO | 254 | 2.7 | 95.2 | 4 | 0.0 | 0.0 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 0.0 | 0.0 | 0.0 | | |
| 404 | 214 | 64 | MO | 166 | 1.3 | 131.4 | 4 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | | |
| 405 | 214 | 64 | MO | 43 | 0.6 | 71.8 | 4 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | | |
| 406 | 214 | 64 | MO | 70 | 0.7 | 103.5 | 4 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | | |
| 407 | 214 | 64 | MO | 98 | 0.9 | 103.6 | 4 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 | | |
| 432 | 214 | 100 | MO | 83 | 1.1 | 76.8 | 4 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 433 | 214 | 100 | MO | 40 | 0.6 | 71.0 | 4 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 434 | 214 | 100 | MO | 28 | 0.8 | 35.4 | 4 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | | |
| 1451 | 214 | 145 | MO | 481 | 12.4 | 38.8 | 4 | 0.0 | 12.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.4 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 1453 | 214 | 145 | MO | 1762 | 20.9 | 84.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 1454 | 214 | 145 | MO | 892 | 14.4 | 61.8 | 4 | 0.0 | 14.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.4 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 1455 | 214 | 145 | MO | 505 | 8.3 | 60.9 | 4 | 0.0 | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 1261 | 214 | 258 | MO | 396 | 4.8 | 82.2 | 4 | 0.0 | 0.0 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.8 | 0.0 | 0.0 | 0.0 | | |
| 1262 | 214 | 258 | MO | 198 | 5.5 | 35.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 5.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.5 | 0.0 | 0.0 | |
| 1263 | 214 | 258 | MO | 1364 | 15.3 | 89.0 | 4 | 0.0 | 0.0 | 15.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.3 | 0.0 | 0.0 | 0.0 | | |
| 1264 | 214 | 258 | MO | 41 | 4.1 | 10.0 | 4 | 0.0 | 0.0 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 | 0.0 | 0.0 | 0.0 | | |
| 1265 | 214 | 258 | MO | 1209 | 14.0 | 86.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 14.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.0 | 0.0 | |
| 1267 | 214 | 258 | MO | 70 | 4.4 | 16.0 | 4 | 0.0 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 451 | 214 | 284 | MO | 0 | 0.4 | 0.0 | 4 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | | |
| 452 | 214 | 284 | MO | 0 | 0.1 | 0.0 | 4 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | | |
| 453 | 214 | 284 | MO | 126 | 1.0 | 124.0 | 4 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | | |
| 454 | 214 | 284 | MO | 102 | 1.7 | 59.9 | 4 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | | |
| 455 | 214 | 284 | MO | 73 | 0.9 | 79.1 | 4 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 | | |
| 456 | 214 | 284 | MO | 45 | 0.7 | 66.9 | 4 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | | |
| 457 | 214 | 284 | MO | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 1273 | 214 | 341 | MO | 863 | 9.2 | 93.3 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 1274 | 214 | 341 | MO | 8 | 2.1 | 3.9 | 4 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | | |
| 1281 | 214 | 360 | MO | 81 | 3.7 | 22.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 | 0.0 | 0.0 | |
| 1282 | 214 | 360 | MO | 891 | 13.5 | 66.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 1283 | 214 | 360 | MO | 363 | 7.5 | 48.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 1284 | 214 | 360 | MO | 663 | 9.7 | 68.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 9.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.7 | 0.0 | 0.0 | 0.0 | |
| 1285 | 214 | 360 | MO | 1126 | 15.8 | 71.4 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 15.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.8 | 0.0 | 0.0 | 0.0 |
| 1286 | 214 | 360 | MO | 43 | 2.6 | 16.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1287 | 214 | 360 | MO | 1 | 0.4 | 2.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |

Empire District Electric

Infrastructure Management - Patrol Inspection

| Circuit ID | Area | Sub | State | Total Meters | Total Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned | 2021 Planned |
|--------------|------|-----|-------|----------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 1230 | 214 | 372 | MO | 1131 | 12.5 | 90.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1231 | 214 | 372 | MO | 3 | 0.2 | 16.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1232 | 214 | 372 | MO | 1143 | 15.1 | 75.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1233 | 214 | 372 | MO | 629 | 5.0 | 127.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3911 | 214 | 391 | MO | 6 | 1.2 | 5.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3912 | 214 | 391 | MO | 1118 | 20.4 | 54.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3914 | 214 | 391 | MO | 676 | 42.7 | 15.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 42.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 42.7 |
| 4222 | 214 | 422 | MO | 1533 | 13.4 | 114.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4223 | 214 | 422 | MO | 1207 | 13.2 | 91.3 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 13.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.2 | 0.0 |
| 4224 | 214 | 422 | MO | 625 | 10.3 | 60.9 | 4 | 0.0 | 10.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.3 | 0.0 | 0.0 | 0.0 |
| 4301 | 214 | 430 | MO | 606 | 7.1 | 85.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4302 | 214 | 430 | MO | 640 | 17.4 | 36.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4303 | 214 | 430 | MO | 767 | 28.7 | 26.7 | 4 | 0.0 | 0.0 | 0.0 | 28.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 28.7 | 0.0 | 0.0 |
| 4304 | 214 | 430 | MO | 130 | 3.3 | 39.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4471 | 214 | 447 | MO | 5 | 1.3 | 3.9 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4472 | 214 | 447 | MO | 14 | 1.2 | 11.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | | | | 27424.0 | 427.0 | | | 0.0 | 49.8 | 62.6 | 59.3 | 47.3 | 42.7 | 59.4 | 56.9 | 49.0 | 49.8 | 62.6 | 59.3 | 47.3 | 42.7 |
| 1452 | 214 | 145 | MO | 397 | 21.0 | 18.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145D | 214 | 145 | MO | 1 | 0.2 | 6.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1271 | 214 | 341 | MO | 874 | 43.0 | 20.3 | 6 | 0.0 | 0.0 | 43.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1272 | 214 | 341 | MO | 13 | 1.9 | 6.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3891 | 214 | 389 | MO | 392 | 28.5 | 13.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 28.5 |
| 3892 | 214 | 389 | MO | 1193 | 71.3 | 16.7 | 6 | 0.0 | 71.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 71.3 |
| 3913 | 214 | 391 | MO | 1258 | 65.1 | 19.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 65.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4221 | 214 | 422 | MO | 459 | 34.5 | 13.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 34.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | | | | 4587.0 | 265.5 | | | 0.0 | 71.3 | 43.0 | 0.0 | 0.0 | 0.0 | 34.5 | 0.0 | 23.1 | 65.1 | 0.0 | 0.0 | 28.5 | 71.3 |

Empire District Electric

Infrastructure Management - Patrol Inspection

| Circuit ID | Area | Sub | State | Total Meters | Total Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned | 2021 Planned | | | |
|--------------|------|-----|-------|----------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------|-----|-----|
| 1050 | 215 | 105 | MO | 1381 | 15.3 | 90.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 15.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.3 | 0.0 | | |
| 1051 | 215 | 105 | MO | 1018 | 18.8 | 54.2 | 4 | 0.0 | 0.0 | 0.0 | 18.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.8 | 0.0 | 0.0 | | |
| 1052 | 215 | 105 | MO | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 1094 | 215 | 109 | MO | 968 | 26.7 | 0.0 | 4 | 0.0 | 0.0 | 26.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 26.7 | 0.0 | 0.0 | 0.0 | | |
| 1101 | 215 | 110 | MO | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 1102 | 215 | 110 | MO | 589 | 14.7 | 40.2 | 4 | 0.0 | 0.0 | 14.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.7 | 0.0 | 0.0 | 0.0 | | |
| 1103 | 215 | 110 | MO | 839 | 19.3 | 43.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 19.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 3661 | 215 | 366 | MO | 1064 | 22.0 | 48.4 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 22.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.0 | 0.0 | |
| 4321 | 215 | 432 | MO | 4 | 0.9 | 4.4 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4322 | 215 | 432 | MO | 85 | 2.6 | 32.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4323 | 215 | 432 | MO | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 4324 | 215 | 432 | MO | 979 | 20.8 | 47.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 4361 | 215 | 436 | MO | 1420 | 22.2 | 64.0 | 4 | 0.0 | 0.0 | 22.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.2 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 4362 | 215 | 436 | MO | 774 | 7.7 | 100.4 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4363 | 215 | 436 | MO | 642 | 16.0 | 40.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 16.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.0 | 0.0 | |
| Total | | | | 9763.0 | 187.1 | | | 0.0 | 22.2 | 41.4 | 18.8 | 15.3 | 38.0 | 11.2 | 19.3 | 20.8 | 22.2 | 41.4 | 18.8 | 15.3 | 38.0 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 1081 | 215 | 108 | MO | 20 | 4.4 | 4.5 | 6 | 0.0 | 0.0 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 1082 | 215 | 108 | MO | 1252 | 119.3 | 10.5 | 6 | 0.0 | 0.0 | 0.0 | 119.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1083 | 215 | 108 | MO | 1 | 1.4 | 0.7 | 6 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1084 | 215 | 108 | MO | 5 | 1.2 | 4.2 | 6 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1091 | 215 | 109 | MO | 1545 | 97.2 | 15.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 97.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1092 | 215 | 109 | MO | 1111 | 43.6 | 25.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 43.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1093 | 215 | 109 | MO | 206 | 8.5 | 24.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2492 | 215 | 249 | MO | 29 | 6.5 | 4.5 | 6 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3662 | 215 | 366 | MO | 1022 | 61.2 | 16.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 61.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3663 | 215 | 366 | MO | 267 | 28.8 | 9.3 | 6 | 0.0 | 28.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 28.8 | 0.0 | |
| 3951 | 215 | 395 | MO | 1041 | 48.3 | 21.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 48.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3952 | 215 | 395 | MO | 360 | 36.9 | 9.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 36.9 | 0.0 | 0.0 | |
| 4031 | 215 | 403 | MO | 620 | 23.0 | 26.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 23.0 | 0.0 | 0.0 | |
| 4171 | 215 | 417 | MO | 1071 | 34.3 | 31.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 34.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4172 | 215 | 417 | MO | 2140 | 69.0 | 31.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 69.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4211 | 215 | 421 | MO | 1472 | 64.1 | 23.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 64.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4212 | 215 | 421 | MO | 767 | 25.2 | 30.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | | | | 12929.0 | 672.7 | | | 0.0 | 28.8 | 13.4 | 119.3 | 69.0 | 86.4 | 91.8 | 34.3 | 8.5 | 97.2 | 0.0 | 64.1 | 59.9 | 28.8 | | | |

Empire District Electric

Infrastructure Management - Patrol Inspection

| Circuit ID | Area | Sub | State | Total Meters | Total Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned | 2021 Planned |
|--------------|------|-----|-------|----------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 5601 | 216 | 56 | MO | 77 | 2.9 | 26.3 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5602 | 216 | 56 | MO | 479 | 10.0 | 47.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 |
| 5641 | 216 | 56 | MO | 403 | 3.2 | 125.4 | 4 | 0.0 | 0.0 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 0.0 | 0.0 | 0.0 |
| 5642 | 216 | 56 | MO | 205 | 1.9 | 105.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2961 | 216 | 296 | MO | 1643 | 34.5 | 47.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 34.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 34.5 | 0.0 |
| 2962 | 216 | 296 | MO | 238 | 7.8 | 30.6 | 4 | 0.0 | 7.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2963 | 216 | 296 | MO | 1 | 0.3 | 3.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3982 | 216 | 398 | MO | 718 | 7.5 | 95.1 | 4 | 0.0 | 7.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4142 | 216 | 414 | MO | 560 | 15.7 | 35.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | | | | 4324.0 | 84.0 | | | 0.0 | 15.3 | 3.2 | 0.0 | 34.5 | 10.0 | 20.9 | 0.0 | 0.0 | 15.3 | 3.2 | 0.0 | 34.5 | 10.0 |
| 5603 | 216 | 56 | MO | 1176 | 43.2 | 27.2 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 43.2 | 0.0 |
| 1311 | 216 | 131 | MO | 238 | 22.9 | 10.4 | 6 | 0.0 | 0.0 | 22.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1312 | 216 | 131 | MO | 873 | 49.8 | 17.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 49.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1841 | 216 | 184 | MO | 1497 | 56.4 | 26.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 56.4 | 0.0 | 0.0 | 0.0 |
| 1842 | 216 | 184 | MO | 192 | 16.3 | 11.8 | 6 | 0.0 | 0.0 | 16.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1843 | 216 | 184 | MO | 1027 | 43.7 | 23.5 | 6 | 0.0 | 0.0 | 0.0 | 43.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3221 | 216 | 322 | MO | 1162 | 34.4 | 33.8 | 6 | 0.0 | 34.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 34.4 |
| 3222 | 216 | 322 | MO | 936 | 32.3 | 29.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 32.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3261 | 216 | 326 | AR | 266 | 7.7 | 34.4 | 6 | 0.0 | 0.0 | 7.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3262 | 216 | 326 | AR | 36 | 1.0 | 36.8 | 6 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3263 | 216 | 326 | AR | 111 | 16.3 | 6.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.3 | 0.0 |
| 3471 | 216 | 347 | MO | 156 | 16.3 | 9.6 | 6 | 0.0 | 0.0 | 16.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3472 | 216 | 347 | MO | 1464 | 52.4 | 27.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 52.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3751 | 216 | 375 | MO | 1112 | 53.4 | 20.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 53.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3752 | 216 | 375 | OK | 563 | 21.6 | 26.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3921 | 216 | 392 | AR | 427 | 12.1 | 35.1 | 6 | 0.0 | 0.0 | 12.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3922 | 216 | 392 | AR | 1703 | 56.6 | 30.1 | 6 | 0.0 | 0.0 | 0.0 | 56.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3923 | 216 | 392 | AR | 1 | 4.2 | 0.2 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 0.0 | 0.0 |
| 3981 | 216 | 398 | MO | 1236 | 73.5 | 16.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 73.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3991 | 216 | 399 | MO | 658 | 55.3 | 11.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 55.3 | 0.0 | 0.0 |
| 3992 | 216 | 399 | MO | 160 | 8.4 | 19.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4141 | 216 | 414 | MO | 86 | 14.5 | 6.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4431 | 216 | 443 | MO | 1265 | 47.6 | 26.6 | 6 | 0.0 | 0.0 | 47.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4432 | 216 | 443 | MO | 206 | 13.0 | 15.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4433 | 216 | 443 | MO | 1 | 0.7 | 1.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7001 | 216 | 700 | AR | 1276 | 52.6 | 24.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 52.6 | 0.0 | 0.0 | 0.0 |
| 7002 | 216 | 700 | AR | 660 | 27.6 | 23.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 27.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | | | | 18488.0 | 833.6 | | | 0.0 | 34.4 | 76.3 | 91.4 | 56.6 | 107.3 | 52.4 | 49.8 | 63.4 | 74.2 | 109.0 | 59.5 | 59.4 | 34.4 |

Empire District Electric

Infrastructure Management - Patrol Inspection

| Circuit ID | Area | Sub | State | Total Meters | Total Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned | 2021 Planned |
|--------------|------|-----|-------|--------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 1141 | 217 | 114 | MO | 864 | 16.0 | 53.9 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3301 | 217 | 330 | MO | 200 | 2.6 | 77.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3302 | 217 | 330 | MO | 607 | 14.0 | 43.3 | 4 | 0.0 | 0.0 | 14.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.0 | 0.0 | 0.0 | 0.0 |
| 3303 | 217 | 330 | MO | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3304 | 217 | 330 | MO | 942 | 14.5 | 64.9 | 4 | 0.0 | 14.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.5 | 0.0 | 0.0 | 0.0 |
| 3305 | 217 | 330 | MO | 8 | 0.7 | 12.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 |
| 3702 | 217 | 370 | MO | 601 | 14.2 | 42.4 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.2 |
| 4151 | 217 | 415 | MO | 1091 | 27.8 | 39.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 27.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 27.8 |
| 4152 | 217 | 415 | MO | 803 | 25.0 | 32.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 25.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25.0 | 0.0 |
| 4153 | 217 | 415 | MO | 1012 | 25.8 | 39.2 | 4 | 0.0 | 0.0 | 0.0 | 25.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25.8 | 0.0 | 0.0 |
| 4154 | 217 | 415 | MO | 951 | 20.8 | 45.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 | 0.0 |
| 4155 | 217 | 415 | MO | 1692 | 39.3 | 43.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 39.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4156 | 217 | 415 | MO | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4342 | 217 | 434 | MO | 1614 | 33.5 | 48.1 | 4 | 0.0 | 33.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 33.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | | | | 10385 | 234.3 | | | 0.0 | 48.1 | 14.0 | 25.8 | 46.5 | 42.0 | 16.0 | 2.6 | 39.3 | 48.1 | 14.0 | 25.8 | 46.5 | 42.0 |
| | | | | | | | | | | | | | | | | | | | | | |
| 8001 | 217 | 80 | MO | 4 | 0.6 | 7.2 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1142 | 217 | 114 | MO | 198 | 15.3 | 12.9 | 6 | 0.0 | 0.0 | 15.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1211 | 217 | 121 | MO | 1388 | 74.6 | 18.6 | 6 | 0.0 | 0.0 | 0.0 | 74.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1212 | 217 | 121 | MO | 67 | 9.7 | 6.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1213 | 217 | 121 | MO | 519 | 28.6 | 18.2 | 6 | 0.0 | 0.0 | 28.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3331 | 217 | 333 | MO | 2 | 0.5 | 4.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3691 | 217 | 369 | MO | 1241 | 56.0 | 22.2 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 56.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3692 | 217 | 369 | MO | 1063 | 35.7 | 29.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 35.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3693 | 217 | 369 | MO | 527 | 15.3 | 34.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3701 | 217 | 370 | MO | 478 | 25.9 | 18.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3971 | 217 | 397 | MO | 625 | 22.5 | 27.8 | 6 | 0.0 | 22.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.5 |
| 4341 | 217 | 434 | MO | 1805 | 59.4 | 30.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 59.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4343 | 217 | 434 | MO | 752 | 31.7 | 23.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 31.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | | | | 8669 | 375.6 | | | 0.0 | 22.5 | 43.9 | 74.6 | 56.0 | 59.4 | 25.9 | 15.3 | 35.7 | 42.4 | 0.0 | 0.0 | 0.0 | 22.5 |

Section 1.1.4

Patrol Description

Empire District Electric Company

Patrol Inspection – The patrol inspection will be a visual inspection of the equipment used in the transmission and/or distribution system with no more than binoculars. The patrol inspection will be performed by circuit using the patrol inspection schedule and not performed as part of the normal daily activities, thus insuring the entire circuit is patrolled and all documentation is complete.

Section 1.1.5

Intrusive Pole Inspection Schedule

Empire District Electric Company

Distribution System -- Intrusive Pole Inspection

12 Year Maintenance Cycle

| Area | Total Meters | Total Miles | 2008 Miles Scheduled | 2009 Miles Scheduled | 2010 Miles Scheduled | 2011 Miles Scheduled | 2012 Miles Scheduled | 2013 Miles Scheduled | 2014 Miles Scheduled | 2015 Miles Scheduled | 2016 Miles Scheduled | 2017 Miles Scheduled | 2018 Miles Scheduled | 2019 Miles Scheduled | 2020 Miles Scheduled |
|----------------|---------------|---------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 209 | 20042 | 352.7 | 0.0 | 39.4 | 34.2 | 29.6 | 33.0 | 26.1 | 22.7 | 32.5 | 32.1 | 27.8 | 20.7 | 22.0 | 32.5 |
| 211 | 21086 | 816.2 | 0.0 | 53.2 | 105.3 | 70.1 | 52.0 | 68.5 | 76.6 | 66.3 | 67.5 | 72.1 | 111.5 | 22.2 | 50.8 |
| 212 | 17021 | 820.5 | 0.0 | 59.6 | 54.5 | 61.7 | 66.0 | 90.3 | 69.5 | 59.3 | 54.4 | 61.1 | 69.5 | 113.1 | 61.6 |
| 213 | 17829 | 746.7 | 0.0 | 65.0 | 56.7 | 50.7 | 65.2 | 88.7 | 49.3 | 60.0 | 78.0 | 62.1 | 42.0 | 63.6 | 65.4 |
| 214 | 31620 | 581.7 | 0.0 | 45.7 | 49.1 | 41.0 | 42.3 | 44.4 | 51.5 | 49.0 | 51.2 | 47.2 | 54.1 | 48.9 | 57.0 |
| 215 | 22692 | 802.2 | 0.0 | 118.6 | 56.8 | 48.1 | 93.6 | 54.4 | 55.9 | 58.2 | 68.7 | 65.3 | 57.6 | 59.7 | 65.2 |
| 216 | 22812 | 886.4 | 0.0 | 71.9 | 66.2 | 73.0 | 72.6 | 75.5 | 66.4 | 75.6 | 78.8 | 72.9 | 82.9 | 72.8 | 77.7 |
| 217 | 19054 | 494.8 | 0.0 | 34.2 | 73.7 | 42.2 | 38.4 | 51.3 | 45.4 | 19.0 | 23.0 | 35.7 | 25.6 | 51.9 | 54.4 |
| Total | 172156 | 5501.1 | 0.0 | 487.6 | 496.6 | 416.4 | 463.1 | 499.3 | 437.3 | 420.0 | 453.7 | 444.1 | 464.0 | 454.3 | 464.7 |
| Running | | | 0.0% | 8.9% | 17.9% | 25.5% | 33.9% | 43.0% | 50.9% | 58.5% | 66.8% | 74.9% | 83.3% | 91.6% | 100.0% |

State Totals

| Area | Total Meters | Total Miles | 2008 Miles Scheduled | 2009 Miles Scheduled | 2010 Miles Scheduled | 2011 Miles Scheduled | 2012 Miles Scheduled | 2013 Miles Scheduled | 2014 Miles Scheduled | 2015 Miles Scheduled | 2016 Miles Scheduled | 2017 Miles Scheduled | 2018 Miles Scheduled | 2019 Miles Scheduled | 2020 Miles Scheduled |
|--------------|---------------|---------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| MO | 150092 | 4486.8 | 0.0 | 428.0 | 442.1 | 354.8 | 397.1 | 384.8 | 367.8 | 285.1 | 383.1 | 383.0 | 394.5 | 341.2 | 325.3 |
| KS | 10387 | 529.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 41.2 | 69.5 | 59.3 | 54.4 | 61.1 | 69.5 | 113.1 | 61.6 |
| OK | 7197 | 312.3 | 0.0 | 59.6 | 54.5 | 61.7 | 66.0 | 49.2 | 0.0 | 21.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AR | 4480 | 172.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 24.2 | 0.0 | 54.2 | 16.3 | 0.0 | 0.0 | 0.0 | 77.7 |
| Total | 172156 | 5501.1 | 0.0 | 487.6 | 496.6 | 416.4 | 463.1 | 499.3 | 437.3 | 420.0 | 453.7 | 444.1 | 464.0 | 454.3 | 464.7 |

Empire District Electric

Distribution System – Intrusive Pole Inspection

| Circuit ID | Area | Sub | Total Meters | OH Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned |
|--------------|------|--------------|--------------|----------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 2951 | 209 | 295 | 1268 | 39.4 | 29.9 | 6 | 0.0 | 39.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2952 | 209 | 295 | 140 | 8.3 | 15.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3121 | 209 | 312 | 1053 | 16.5 | 59.1 | 4 | 0.0 | 0.0 | 16.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3122 | 209 | 312 | 818 | 29.6 | 24.3 | 6 | 0.0 | 0.0 | 0.0 | 29.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3123 | 209 | 312 | 670 | 17.7 | 31.8 | 6 | 0.0 | 0.0 | 17.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3311 | 209 | 331 | 635 | 8.9 | 39.3 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 8.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3312 | 209 | 331 | 17 | 4.1 | 3.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3313 | 209 | 331 | 486 | 5.7 | 39.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 5.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3314 | 209 | 331 | 207 | 6.0 | 29.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3315 | 209 | 331 | 1032 | 26.1 | 32.9 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 26.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3871 | 209 | 387 | 1215 | 11.2 | 83.3 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3872 | 209 | 387 | 896 | 11.5 | 68.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3873 | 209 | 387 | 1815 | 32.5 | 45.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 32.5 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3874 | 209 | 387 | 186 | 3.4 | 28.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.4 | 0.0 | 0.0 | 0.0 | |
| 4101 | 209 | 410 | 553 | 13.2 | 33.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.2 | 0.0 | 0.0 | 0.0 | |
| 4102 | 209 | 410 | 800 | 15.5 | 38.3 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.5 | 0.0 | 0.0 | 0.0 | |
| 4131 | 209 | 413 | 179 | 4.9 | 26.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.9 | 0.0 | 0.0 | |
| 4132 | 209 | 413 | 408 | 4.9 | 66.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.9 | 0.0 | 0.0 | |
| 4133 | 209 | 413 | 298 | 6.1 | 28.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.1 | 0.0 | 0.0 | |
| 4134 | 209 | 413 | 782 | 8.2 | 51.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.2 | 0.0 | 0.0 | |
| 4135 | 209 | 413 | 61 | 1.3 | 20.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | |
| 4136 | 209 | 413 | 601 | 2.5 | 85.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | |
| 4137 | 209 | 413 | 719 | 9.3 | 67.3 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.3 | 0.0 | |
| 4138 | 209 | 413 | 694 | 11.4 | 55.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.4 | 0.0 | |
| 4331 | 209 | 433 | 273 | 8.3 | 20.4 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 | |
| 4332 | 209 | 433 | 203 | 3.6 | 35.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 | |
| 4333 | 209 | 433 | 389 | 5.4 | 31.9 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.4 | |
| 4334 | 209 | 433 | 377 | 4.6 | 52.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.6 | |
| 4381 | 209 | 438 | 208 | 12.4 | 9.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.4 | |
| 4383 | 209 | 438 | 319 | 9.3 | 24.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.3 | |
| 4385 | 209 | 438 | 1090 | 6.8 | 62.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.8 | |
| 4386 | 209 | 438 | 1625 | 3.0 | 120.4 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | |
| 4561 | 209 | 456 | 25 | 0.9 | 3.2 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | |
| Total | | 20042 | 352.7 | | | | 0.0 | 39.4 | 34.2 | 29.6 | 33.0 | 26.1 | 22.7 | 32.5 | 32.1 | 27.8 | 20.7 | 22.0 | 32.5 |
| | | | | | | | | | | | | | | | | | | | |

Empire District Electric

Distribution System -- Intrusive Pole Inspection

| Circuit ID | Area | Sub | Total Meters | OH Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned |
|--------------|------|-----|--------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 1241 | 211 | 124 | 831 | 28.8 | 26.7 | 6 | 0.0 | 28.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1242 | 211 | 124 | 663 | 7.2 | 88.8 | 4 | 0.0 | 7.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1243 | 211 | 124 | 974 | 17.1 | 52.6 | 4 | 0.0 | 17.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1521 | 211 | 152 | 1560 | 105.3 | 14.6 | 6 | 0.0 | 0.0 | 105.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1522 | 211 | 152 | 138 | 16.1 | 8.3 | 6 | 0.0 | 0.0 | 0.0 | 16.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1523 | 211 | 152 | 697 | 54.0 | 12.7 | 6 | 0.0 | 0.0 | 0.0 | 54.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2051 | 211 | 205 | 210 | 21.3 | 9.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 21.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2052 | 211 | 205 | 440 | 18.8 | 23.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 18.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2211 | 211 | 221 | 721 | 19.9 | 35.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 19.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2212 | 211 | 221 | 1097 | 48.6 | 19.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 48.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2622 | 211 | 262 | 111 | 12.0 | 9.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 12.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3551 | 211 | 355 | 1005 | 10.2 | 82.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3552 | 211 | 355 | 550 | 17.3 | 29.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3553 | 211 | 355 | 949 | 49.2 | 19.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 49.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3591 | 211 | 359 | 984 | 15.8 | 45.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.8 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3592 | 211 | 359 | 1534 | 50.5 | 27.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 50.5 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3593 | 211 | 359 | 986 | 5.3 | 98.4 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 | 0.0 | 0.0 | 0.0 | |
| 3594 | 211 | 359 | 524 | 9.2 | 39.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.2 | 0.0 | 0.0 | 0.0 | |
| 3621 | 211 | 362 | 1135 | 72.1 | 15.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 72.1 | 0.0 | 0.0 | |
| 3901 | 211 | 390 | 862 | 29.9 | 27.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 29.9 | 0.0 | 0.0 | 0.0 | |
| 3902 | 211 | 390 | 93 | 9.9 | 9.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.9 | 0.0 | 0.0 | 0.0 | |
| 3903 | 211 | 390 | 276 | 13.3 | 20.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.3 | 0.0 | 0.0 | 0.0 | |
| 4371 | 211 | 437 | 2169 | 111.5 | 19.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 111.5 | 0.0 | |
| 4372 | 211 | 437 | 575 | 50.8 | 10.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 50.8 | |
| 4511 | 211 | 451 | 1546 | 18.4 | 55.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.4 | 0.0 | |
| 4512 | 211 | 451 | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4513 | 211 | 451 | 456 | 3.8 | 39.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 | 0.0 | |
| Total | | | 21086 | 816.2 | | | 0.0 | 53.2 | 105.3 | 70.1 | 52.0 | 68.5 | 76.6 | 66.3 | 67.5 | 72.1 | 111.5 | 22.2 | 50.8 |
| | | | | | | | | | | | | | | | | | | | |

Empire District Electric

Distribution System -- Intrusive Pole Inspection

| Circuit ID | Area | Sub | Total Meters | OH Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned |
|--------------|------|-----|--------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 1861 | 212 | 186 | 711 | 34.6 | 20.4 | 6 | 0.0 | 34.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2712 | 212 | 271 | 1169 | 54.5 | 21.4 | 6 | 0.0 | 0.0 | 54.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2912 | 212 | 291 | 714 | 25.0 | 28.1 | 6 | 0.0 | 25.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3631 | 212 | 363 | 1233 | 61.7 | 19.8 | 6 | 0.0 | 0.0 | 0.0 | 61.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3771 | 212 | 377 | 1086 | 66.0 | 16.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 66.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3772 | 212 | 377 | 10 | 1.4 | 5.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3773 | 212 | 377 | 119 | 17.2 | 6.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3811 | 212 | 381 | 859 | 13.0 | 65.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3812 | 212 | 381 | 720 | 16.0 | 44.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4281 | 212 | 428 | 13 | 1.6 | 7.2 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 6601 | 212 | 66 | 787 | 49.4 | 15.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 49.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 6602 | 212 | 66 | 499 | 20.1 | 24.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2711 | 212 | 271 | 237 | 59.3 | 4.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 59.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2781 | 212 | 278 | 1 | 0.6 | 1.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | |
| 2782 | 212 | 278 | 1457 | 53.7 | 26.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 53.7 | 0.0 | 0.0 | 0.0 | |
| 2783 | 212 | 278 | 1119 | 44.7 | 24.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 44.7 | 0.0 | 0.0 | |
| 2821 | 212 | 282 | 424 | 9.6 | 42.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.6 | 0.0 | 0.0 | |
| 2822 | 212 | 282 | 374 | 6.7 | 54.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.7 | 0.0 | 0.0 | |
| 2823 | 212 | 282 | 524 | 25.1 | 20.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25.1 | 0.0 | 0.0 | |
| 2824 | 212 | 282 | 923 | 15.0 | 53.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.0 | 0.0 | 0.0 | |
| 2911 | 212 | 291 | 1194 | 61.6 | 19.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 61.6 | |
| 2913 | 212 | 291 | 879 | 12.8 | 68.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.8 | 0.0 | |
| 2914 | 212 | 291 | 544 | 16.6 | 31.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.6 | 0.0 | |
| 2991 | 212 | 299 | 1 | 0.4 | 2.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3391 | 212 | 339 | 13 | 2.3 | 5.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4061 | 212 | 406 | 1220 | 113.1 | 10.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 113.1 | 0.0 | |
| 4062 | 212 | 406 | 4 | 2.1 | 1.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4251 | 212 | 425 | 185 | 36.0 | 5.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 36.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4441 | 212 | 444 | 2 | 0.4 | 4.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Total | | | 17021 | 820.5 | | | 0.0 | 59.6 | 54.5 | 61.7 | 66.0 | 90.3 | 69.5 | 59.3 | 54.4 | 61.1 | 69.5 | 113.1 | 61.6 |
| | | | | | | | | | | | | | | | | | | | |

Empire District Electric

Distribution System -- Intrusive Pole Inspection

| Circuit ID | Area | Sub | Total Meters | OH Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned |
|--------------|------|-----|--------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 2091 | 213 | 209 | 815 | 56.7 | 14.3 | 6 | 0.0 | 0.0 | 56.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2092 | 213 | 209 | 820 | 32.0 | 25.4 | 6 | 0.0 | 0.0 | 0.0 | 32.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2171 | 213 | 217 | 510 | 30.6 | 16.5 | 6 | 0.0 | 30.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2172 | 213 | 217 | 207 | 34.4 | 6.0 | 6 | 0.0 | 34.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2491 | 213 | 249 | 60 | 14.5 | 4.2 | 6 | 0.0 | 0.0 | 0.0 | 14.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2501 | 213 | 250 | 77 | 4.2 | 17.9 | 6 | 0.0 | 0.0 | 0.0 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2511 | 213 | 251 | 592 | 22.5 | 26.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 22.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2621 | 213 | 262 | 1094 | 88.7 | 12.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 88.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3041 | 213 | 304 | 76 | 3.1 | 24.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3081 | 213 | 308 | 549 | 28.4 | 19.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 28.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3082 | 213 | 308 | 320 | 11.2 | 28.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 11.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3181 | 213 | 318 | 686 | 49.3 | 13.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 49.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3231 | 213 | 323 | 357 | 18.7 | 19.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3232 | 213 | 323 | 422 | 18.8 | 21.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3421 | 213 | 342 | 624 | 25.0 | 24.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3422 | 213 | 342 | 950 | 35.0 | 25.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 35.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3671 | 213 | 367 | 1058 | 13.9 | 63.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3672 | 213 | 367 | 145 | 1.8 | 79.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3673 | 213 | 367 | 257 | 19.9 | 11.9 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 19.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3674 | 213 | 367 | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3675 | 213 | 367 | 414 | 4.8 | 62.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4091 | 213 | 409 | 1105 | 20.2 | 48.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.2 | 0.0 | 0.0 | 0.0 |
| 4092 | 213 | 409 | 386 | 26.2 | 14.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 26.2 | 0.0 | 0.0 | 0.0 |
| 4181 | 213 | 418 | 453 | 20.3 | 20.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.3 | 0.0 | 0.0 |
| 4182 | 213 | 418 | 930 | 21.8 | 39.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.8 | 0.0 | 0.0 |
| 4311 | 213 | 431 | 964 | 9.1 | 84.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.1 | 0.0 |
| 4312 | 213 | 431 | 1412 | 30.6 | 32.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30.6 | 0.0 |
| 4313 | 213 | 431 | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6021 | 213 | 602 | 597 | 19.5 | 27.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 19.5 | 0.0 |
| 6022 | 213 | 602 | 400 | 4.5 | 79.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.5 | 0.0 |
| 6141 | 213 | 614 | 876 | 65.4 | 13.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 65.4 |
| 6143 | 213 | 614 | 363 | 8.8 | 41.2 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.8 | 0.0 | 0.0 |
| 6144 | 213 | 614 | 310 | 7.0 | 44.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 | 0.0 | 0.0 |
| Total | | | 17829 | 746.7 | | | 0.0 | 65.0 | 56.7 | 50.7 | 65.2 | 88.7 | 49.3 | 60.0 | 78.0 | 62.1 | 42.0 | 63.6 | 65.4 |
| | | | | | | | | | | | | | | | | | | | |

Empire District Electric

Distribution System -- Intrusive Pole Inspection

| Circuit ID | Area | Sub | Total Meters | OH Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned |
|------------|------|-----|--------------|----------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 401 | 214 | 64 | 102 | 0.7 | 133.1 | 4 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 402 | 214 | 64 | 107 | 1.9 | 57.6 | 4 | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 403 | 214 | 64 | 254 | 2.7 | 95.2 | 4 | 0.0 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 404 | 214 | 64 | 166 | 1.2 | 131.4 | 4 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 405 | 214 | 64 | 43 | 0.5 | 71.8 | 4 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 406 | 214 | 64 | 70 | 0.7 | 103.5 | 4 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 407 | 214 | 64 | 98 | 0.9 | 103.6 | 4 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 432 | 214 | 100 | 83 | 1.0 | 76.8 | 4 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 433 | 214 | 100 | 40 | 0.6 | 71.0 | 4 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 434 | 214 | 100 | 28 | 0.7 | 35.4 | 4 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 451 | 214 | 284 | 0 | 0.4 | 0.0 | 4 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 452 | 214 | 284 | 0 | 0.1 | 0.0 | 4 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 453 | 214 | 284 | 126 | 1.0 | 124.0 | 4 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 454 | 214 | 284 | 102 | 1.7 | 59.9 | 4 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 455 | 214 | 284 | 73 | 0.7 | 79.1 | 4 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 456 | 214 | 284 | 45 | 0.5 | 66.9 | 4 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 457 | 214 | 284 | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1225 | 214 | 59 | 931 | 7.5 | 121.5 | 4 | 0.0 | 7.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1226 | 214 | 59 | 339 | 3.7 | 80.7 | 4 | 0.0 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1227 | 214 | 59 | 1164 | 19.3 | 57.3 | 4 | 0.0 | 19.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1228 | 214 | 59 | 491 | 4.1 | 117.3 | 4 | 0.0 | 0.0 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1229 | 214 | 59 | 1972 | 13.1 | 149.9 | 4 | 0.0 | 0.0 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1230 | 214 | 372 | 1131 | 12.4 | 90.7 | 4 | 0.0 | 0.0 | 12.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1231 | 214 | 372 | 3 | 0.2 | 16.6 | 4 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1232 | 214 | 372 | 1143 | 14.5 | 75.7 | 4 | 0.0 | 0.0 | 14.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1233 | 214 | 372 | 629 | 4.9 | 127.0 | 4 | 0.0 | 0.0 | 4.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1261 | 214 | 258 | 396 | 4.0 | 82.2 | 4 | 0.0 | 0.0 | 0.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1262 | 214 | 258 | 198 | 5.4 | 35.8 | 4 | 0.0 | 0.0 | 0.0 | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1263 | 214 | 258 | 1364 | 14.8 | 89.0 | 4 | 0.0 | 0.0 | 0.0 | 14.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1264 | 214 | 258 | 41 | 3.8 | 10.0 | 4 | 0.0 | 0.0 | 0.0 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1265 | 214 | 258 | 1209 | 9.7 | 86.6 | 4 | 0.0 | 0.0 | 0.0 | 9.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1267 | 214 | 258 | 70 | 3.3 | 16.0 | 4 | 0.0 | 0.0 | 0.0 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1271 | 214 | 341 | 874 | 42.3 | 20.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 42.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1272 | 214 | 341 | 13 | 1.2 | 6.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1273 | 214 | 341 | 863 | 8.6 | 93.3 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1274 | 214 | 341 | 8 | 2.0 | 3.9 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1281 | 214 | 360 | 81 | 1.9 | 22.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1282 | 214 | 360 | 891 | 12.3 | 66.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Empire District Electric

Distribution System -- Intrusive Pole Inspection

| Circuit ID | Area | Sub | Total Meters | OH Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned |
|--------------|------|-----|----------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 1283 | 214 | 360 | 363 | 1.8 | 48.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1284 | 214 | 360 | 663 | 9.1 | 68.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1285 | 214 | 360 | 1126 | 6.0 | 71.4 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1286 | 214 | 360 | 43 | 1.3 | 16.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1287 | 214 | 360 | 1 | 0.3 | 2.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1451 | 214 | 145 | 481 | 11.2 | 38.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1452 | 214 | 145 | 397 | 19.9 | 18.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 19.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1453 | 214 | 145 | 1762 | 20.4 | 84.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1454 | 214 | 145 | 892 | 14.2 | 61.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1455 | 214 | 145 | 505 | 7.9 | 60.9 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3891 | 214 | 389 | 1193 | 26.9 | 41.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 26.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3892 | 214 | 391 | 6 | 51.2 | 0.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 51.2 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3911 | 214 | 391 | 1118 | 0.4 | 926.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | |
| 3912 | 214 | 391 | 1258 | 15.6 | 61.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.6 | 0.0 | 0.0 | 0.0 | |
| 3913 | 214 | 391 | 676 | 54.1 | 10.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 54.1 | 0.0 | 0.0 | |
| 3914 | 214 | 422 | 459 | 38.0 | 10.7 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 38.0 | 0.0 | |
| 4221 | 214 | 422 | 1533 | 31.2 | 44.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 31.2 | 0.0 | 0.0 | |
| 4222 | 214 | 422 | 1207 | 10.9 | 89.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.9 | |
| 4223 | 214 | 422 | 625 | 10.6 | 47.3 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.6 | |
| 4224 | 214 | 430 | 606 | 7.5 | 59.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.5 | |
| 4301 | 214 | 430 | 640 | 4.5 | 90.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.5 | |
| 4302 | 214 | 430 | 767 | 10.4 | 44.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.4 | |
| 4303 | 214 | 430 | 130 | 20.6 | 4.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.6 | |
| 4304 | 214 | 447 | 5 | 1.3 | 1.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | |
| 4471 | 214 | 447 | 14 | 0.8 | 10.9 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | |
| 4472 | 214 | 145 | 1 | 1.0 | 0.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | |
| 145D | 214 | 145 | 1 | 0.1 | 6.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | |
| Total | | | 31620.0 | 581.7 | | | 0.0 | 45.7 | 49.1 | 41.0 | 42.3 | 44.4 | 51.5 | 49.0 | 51.2 | 47.2 | 54.1 | 48.9 | 57.0 |
| | | | | | | | | | | | | | | | | | | | |

Empire District Electric

Distribution System -- Intrusive Pole Inspection

| Circuit ID | Area | Sub | Total Meters | OH Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned |
|--------------|------|-----|----------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 1050 | 215 | 105 | 1381 | 14.7 | 90.1 | 4 | 0.0 | 0.0 | 14.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1051 | 215 | 105 | 1018 | 17.0 | 54.2 | 4 | 0.0 | 0.0 | 17.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1052 | 215 | 105 | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1081 | 215 | 108 | 20 | 4.3 | 4.5 | 6 | 0.0 | 0.0 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1082 | 215 | 108 | 1252 | 118.6 | 10.5 | 6 | 0.0 | 118.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1083 | 215 | 108 | 1 | 1.3 | 0.7 | 6 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1084 | 215 | 108 | 5 | 1.2 | 4.2 | 6 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1091 | 215 | 109 | 1545 | 93.6 | 15.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 93.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1092 | 215 | 109 | 1111 | 37.6 | 25.5 | 6 | 0.0 | 0.0 | 0.0 | 37.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1093 | 215 | 109 | 206 | 8.1 | 24.4 | 6 | 0.0 | 0.0 | 0.0 | 8.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1094 | 215 | 109 | 968 | 24.5 | 36.2 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 24.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1101 | 215 | 110 | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1102 | 215 | 110 | 589 | 11.6 | 40.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1103 | 215 | 110 | 839 | 18.3 | 43.5 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2492 | 215 | 249 | 29 | 6.5 | 4.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3661 | 215 | 366 | 1064 | 20.6 | 48.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3662 | 215 | 366 | 1022 | 58.2 | 16.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 58.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3663 | 215 | 366 | 267 | 28.8 | 9.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 28.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3951 | 215 | 395 | 1041 | 46.0 | 21.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 46.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3952 | 215 | 395 | 360 | 33.9 | 9.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 33.9 | 0.0 | 0.0 | 0.0 |
| 4031 | 215 | 403 | 620 | 22.7 | 26.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.7 | 0.0 | 0.0 | 0.0 |
| 4171 | 215 | 417 | 1071 | 31.4 | 31.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 31.4 | 0.0 | 0.0 | 0.0 |
| 4172 | 215 | 417 | 2140 | 57.6 | 31.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 57.6 | 0.0 | 0.0 |
| 4211 | 215 | 421 | 1472 | 59.7 | 23.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 59.7 | 0.0 |
| 4212 | 215 | 421 | 767 | 24.3 | 30.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 24.3 |
| 4321 | 215 | 432 | 4 | 0.6 | 4.4 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| 4322 | 215 | 432 | 85 | 1.8 | 32.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 |
| 4323 | 215 | 432 | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4324 | 215 | 432 | 979 | 16.8 | 47.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.8 |
| 4361 | 215 | 436 | 1420 | 21.6 | 64.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.6 |
| 4362 | 215 | 436 | 774 | 7.3 | 100.4 | 4 | 0.0 | 0.0 | 7.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4363 | 215 | 436 | 642 | 13.5 | 40.0 | 4 | 0.0 | 0.0 | 13.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | | | 22692.0 | 802.2 | | | 0.0 | 118.6 | 56.8 | 48.1 | 93.6 | 54.4 | 55.9 | 58.2 | 68.7 | 65.3 | 57.6 | 59.7 | 65.2 |
| | | | | | | | | | | | | | | | | | | | |

Empire District Electric

Distribution System -- Intrusive Pole Inspection

| Circuit ID | Area | Sub | Total Meters | OH Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned |
|--------------|------|-----|----------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 1311 | 216 | 131 | 238 | 22.9 | 10.4 | 6 | 0.0 | 22.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1312 | 216 | 131 | 873 | 49.1 | 17.5 | 6 | 0.0 | 49.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1841 | 216 | 184 | 1497 | 50.6 | 26.5 | 6 | 0.0 | 0.0 | 50.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1842 | 216 | 184 | 192 | 15.6 | 11.8 | 6 | 0.0 | 0.0 | 15.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1843 | 216 | 184 | 1027 | 42.8 | 23.5 | 6 | 0.0 | 0.0 | 0.0 | 42.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2961 | 216 | 296 | 1643 | 30.2 | 47.6 | 4 | 0.0 | 0.0 | 0.0 | 30.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2962 | 216 | 296 | 238 | 6.8 | 30.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 6.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2963 | 216 | 296 | 1 | 0.3 | 3.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3221 | 216 | 322 | 1162 | 33.5 | 33.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 33.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3222 | 216 | 322 | 936 | 32.0 | 29.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 32.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3261 | 216 | 326 | 266 | 7.1 | 34.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 7.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3262 | 216 | 326 | 36 | 1.0 | 36.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3263 | 216 | 326 | 111 | 16.1 | 6.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 16.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3471 | 216 | 347 | 156 | 16.3 | 9.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3472 | 216 | 347 | 1464 | 51.3 | 27.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 51.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3751 | 216 | 375 | 1112 | 50.1 | 20.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 50.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3752 | 216 | 375 | 563 | 21.4 | 26.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3921 | 216 | 392 | 427 | 12.1 | 35.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3922 | 216 | 392 | 1703 | 54.2 | 30.1 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 54.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3923 | 216 | 392 | 1 | 4.2 | 0.2 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3981 | 216 | 398 | 1236 | 72.9 | 16.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 72.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3982 | 216 | 398 | 718 | 7.3 | 95.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3991 | 216 | 399 | 658 | 55.3 | 11.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 55.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3992 | 216 | 399 | 160 | 8.4 | 19.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.4 | 0.0 | 0.0 |
| 4141 | 216 | 414 | 86 | 13.8 | 6.0 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.8 | 0.0 | 0.0 |
| 4142 | 216 | 414 | 560 | 15.5 | 35.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.5 | 0.0 | 0.0 |
| 4431 | 216 | 443 | 1265 | 45.1 | 26.6 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 45.1 | 0.0 | 0.0 |
| 4432 | 216 | 443 | 206 | 13.0 | 15.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.0 | 0.0 |
| 4433 | 216 | 443 | 1 | 0.5 | 1.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 |
| 5601 | 216 | 56 | 77 | 2.9 | 26.3 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 0.0 |
| 5602 | 216 | 56 | 479 | 10.0 | 47.8 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 0.0 |
| 5603 | 216 | 56 | 1176 | 41.2 | 27.2 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 41.2 | 0.0 |
| 5641 | 216 | 56 | 403 | 3.2 | 125.4 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 0.0 |
| 5642 | 216 | 56 | 205 | 1.9 | 105.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 0.0 |
| 7001 | 216 | 700 | 1276 | 50.3 | 24.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 50.3 |
| 7002 | 216 | 700 | 660 | 27.4 | 23.9 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 27.4 |
| Total | | | 22812.0 | 886.4 | | | 0.0 | 71.9 | 66.2 | 73.0 | 72.6 | 75.5 | 66.4 | 75.6 | 78.8 | 72.9 | 82.9 | 72.8 | 77.7 |
| | | | | | | | | | | | | | | | | | | | |

Empire District Electric

Distribution System -- Intrusive Pole Inspection

| Circuit ID | Area | Sub | Total Meters | OH Miles | Customers /Mile | Maint. Schedule | 2008 Planned | 2009 Planned | 2010 Planned | 2011 Planned | 2012 Planned | 2013 Planned | 2014 Planned | 2015 Planned | 2016 Planned | 2017 Planned | 2018 Planned | 2019 Planned | 2020 Planned |
|--------------|------|-----|--------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 1141 | 217 | 114 | 864 | 12.0 | 53.9 | 4 | 0.0 | 12.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1142 | 217 | 114 | 198 | 12.5 | 12.9 | 6 | 0.0 | 12.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1211 | 217 | 121 | 1388 | 73.7 | 18.6 | 6 | 0.0 | 0.0 | 73.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1212 | 217 | 121 | 67 | 9.7 | 6.9 | 6 | 0.0 | 9.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1213 | 217 | 121 | 519 | 28.4 | 18.2 | 6 | 0.0 | 0.0 | 0.0 | 28.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3301 | 217 | 330 | 200 | 2.6 | 77.0 | 4 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3302 | 217 | 330 | 607 | 11.2 | 43.3 | 4 | 0.0 | 0.0 | 0.0 | 11.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3303 | 217 | 330 | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3304 | 217 | 330 | 942 | 10.6 | 64.9 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3305 | 217 | 330 | 8 | 0.4 | 12.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3331 | 217 | 333 | 2 | 0.5 | 4.3 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3691 | 217 | 369 | 1241 | 51.3 | 22.2 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 51.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3692 | 217 | 369 | 1063 | 23.8 | 29.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 23.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3693 | 217 | 369 | 527 | 14.5 | 34.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 14.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3701 | 217 | 370 | 478 | 22.1 | 18.5 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3702 | 217 | 370 | 601 | 11.9 | 42.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3971 | 217 | 397 | 625 | 19.0 | 27.8 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 19.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4151 | 217 | 415 | 1091 | 23.0 | 39.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 23.0 | 0.0 | 0.0 | 0.0 | |
| 4152 | 217 | 415 | 803 | 18.1 | 32.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.1 | 0.0 | 0.0 | |
| 4153 | 217 | 415 | 1012 | 17.6 | 39.2 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.6 | 0.0 | 0.0 | |
| 4154 | 217 | 415 | 951 | 6.8 | 45.6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.8 | 0.0 | |
| 4155 | 217 | 415 | 1692 | 18.8 | 43.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.8 | 0.0 | |
| 4156 | 217 | 415 | 0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4341 | 217 | 434 | 1805 | 51.9 | 30.4 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 51.9 | 0.0 | |
| 4342 | 217 | 434 | 1614 | 26.3 | 48.1 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 26.3 | |
| 4343 | 217 | 434 | 752 | 27.6 | 23.7 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 27.6 | |
| 8001 | 217 | 80 | 4 | 0.6 | 7.2 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | |
| Total | | | 19054 | 494.8 | | | 0.0 | 34.2 | 73.7 | 42.2 | 38.4 | 51.3 | 45.4 | 19.0 | 23.0 | 35.7 | 25.6 | 51.9 | 54.4 |
| | | | | | | | | | | | | | | | | | | | |

Section 1.2

Transmission System

Section 1.2.1

Detailed Inspection Schedule

Empire District Electric Company

Transmission System -- Infrastructure Detailed Inspection

| Line # | NERC | KV | From -- Expanded | To -- Expanded | Total EDE | | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | | |
|----------|------|-------|-----------------------------------|-----------------------------------|-----------|-------|-------|-------|-------|------|-------|-------|------|--|--|
| | | | | | Miles | Miles | | | | | | | | | |
| 345 | NERC | 345.0 | SUB 383 - MONETT | BROOKLINE 345 | 36.39 | 22.15 | 22.15 | | | | 22.15 | | | | |
| ENTERGY | NERC | 161.0 | SUB 312 - POWERSITE | ENTERGY | 0.01 | 0.01 | | 0.01 | | | 0.01 | | | | |
| 39-1 | NERC | 69.0 | SUB 415 - BLACKHAWK JCT. | KAMO | 6.00 | 6.00 | | 6.00 | | | 6.00 | | | | |
| 81-0 | NERC | 161.0 | SUB 94 - COLUMBUS SOUTHEAST | SUB 452 - RIVERTON | 7.70 | 7.70 | | | 7.70 | | | 7.70 | | | |
| 81-0 | NERC | 161.0 | NEOSHO 161 KV | SUB 94 - COLUMBUS SOUTHEAST | 18.09 | 18.09 | | | 18.09 | | | 18.09 | | | |
| 84-0 | NERC | 161.0 | LITCHFIELD 161 KV | SUB 349 - ASBURY | 6.48 | 6.48 | | | 6.48 | | | 6.48 | | | |
| 84-0 | NERC | 161.0 | CARTHAGE | SUB 395 - CARTHAGE SOUTHWEST | 4.10 | 4.10 | | | 4.10 | | | 4.10 | | | |
| 84-0 | NERC | 161.0 | SUB 349 - ASBURY | SUB 421 - PURCELL SOUTHWEST | 11.70 | 11.70 | | | 11.70 | | | 11.70 | | | |
| 84-0 | NERC | 161.0 | SUB 395 - CARTHAGE SOUTHWEST | SUB 421 - PURCELL SOUTHWEST | 7.70 | 7.70 | | | 7.70 | | | 7.70 | | | |
| 86-0 | NERC | 161.0 | SUB 452 - RIVERTON | SUB 404 - HOCKERVILLE | 8.10 | 8.10 | | | 8.10 | | | 8.10 | | | |
| 88-0 | NERC | 161.0 | SUB 382 - LARUSSEL | SUB 383 - MONETT | 18.00 | 18.00 | | | 18.00 | | | 18.00 | | | |
| 89-0 | NERC | 161.0 | TABLE ROCK | SUB 438 - RIVERSIDE | 3.10 | 3.10 | | | | 3.10 | | | 3.10 | | |
| 91-0 | NERC | 161.0 | SUB 392 - DECATUR SOUTH | FLINT CREEK POWER PLANT | 5.0000 | 5.00 | | | 5.00 | | | 5.00 | | | |
| 91-1 | NERC | 161.0 | GROVE | SUB 435 - NOEL SOUTHWEST | 14.41 | 14.41 | | | 14.41 | | | 14.41 | | | |
| 93-0 | NERC | 161.0 | SUB 368 - DADEVILLE EAST | MORGAN AEC 440 SUB | 0.70 | 0.70 | | | 0.70 | | | 0.70 | | | |
| PSO-GRDA | NERC | 138.0 | VINITA JUNCTION 138KV | SUB 404 - HOCKERVILLE | 36.32 | 0.00 | | | | | | | | | |
| 01-3 | | 69.0 | SUB SEKAN | SUB 444 - SHERWIN CITY | 2.46 | 2.46 | | | 2.46 | | | 2.46 | | | |
| 01-0 | | 69.0 | SUB 282 - COLUMBUS TENNESSEE ST. | SUB 94 - COLUMBUS SOUTHEAST | 2.00 | 2.00 | | | 2.00 | | | 2.00 | | | |
| 01-0 | | 69.0 | SUB 94 - COLUMBUS SOUTHEAST | SUB 167 - RIVERTON | 7.20 | 7.20 | | | 7.20 | | | 7.20 | | | |
| 01-1 | | 69.0 | SUB 282 - COLUMBUS TENNESSEE ST. | SUB 282 - COLUMBUS TENNESSEE ST. | 1.80 | 1.80 | | | 1.80 | | | 1.80 | | | |
| 01-1 | | 69.0 | SUB SEKAN | SUB 425 - SHERMAN CITY | 7.20 | 7.20 | | | 7.20 | | | 7.20 | | | |
| 01-2 | | 69.0 | SUB SEKAN | SUB SEKAN | 1.00 | 0.00 | | | | | | 0.00 | | | |
| 01-2 | | 69.0 | SUB 282 - COLUMBUS TENNESSEE ST. | SUB 363 - FAIRLAND WEST | 3.80 | 0.00 | | | 0.00 | | | 0.00 | | | |
| 06-0 | | 69.0 | SUB 428 - FAIRLAND SOUTHWEST | SUB 406 - RIVERTON SOUTH | 1.70 | 1.70 | | | 1.70 | | | 1.70 | | | |
| 06-0 | | 69.0 | SUB 167 - RIVERTON | SUB 291 - BAXTER SPRINGS 12TH ST. | 0.40 | 0.40 | | | 0.40 | | | 0.40 | | | |
| 06-0 | | 69.0 | SUB 271 - BAXTER SPRINGS WEST | SUB 404 - HOCKERVILLE | 5.60 | 5.60 | | | 5.60 | | | 5.60 | | | |
| 06-0 | | 69.0 | SUB 271 - BAXTER SPRINGS WEST | SUB 406 - RIVERTON SOUTH | 4.00 | 4.00 | | | 4.00 | | | 4.00 | | | |
| 06-0 | | 69.0 | SUB 291 - BAXTER SPRINGS 12TH ST. | SUB 363 - FAIRLAND WEST | 2.80 | 2.80 | | | 2.80 | | | 2.80 | | | |
| 06-0 | | 69.0 | SUB 377 - QUAPAW (EAGLE PICHET) | SUB 404 - HOCKERVILLE | 2.40 | 2.40 | | | 2.40 | | | 2.40 | | | |
| 06-1 | | 69.0 | SUB 291 - BAXTER SPRINGS | SUB 291 - BAXTER SPRINGS 12TH ST. | 2.94 | 2.94 | | | 2.94 | | | 2.94 | | | |
| 06-2 | | 69.0 | SUB 381 - COMMERCE NORTH | SUB 381 - COMMERCE NORTH | 3.60 | 3.60 | | | 3.60 | | | 3.60 | | | |
| 06-2 | | 69.0 | SUB 381 - COMMERCE NORTH | SUB 363 - FAIRLAND WEST | 20.40 | 20.40 | | | 20.40 | | | 20.40 | | | |
| 06-2 | | 69.0 | SUB 381 - COMMERCE NORTH | SUB 377 - QUAPAW (EAGLE PICHET) | 0.40 | 0.40 | | | 0.40 | | | 0.40 | | | |
| 08-0 | | 69.0 | SUB 250 - ARCOLA NORTH | SUB 614 - GREENFIELD | 13.20 | 13.20 | | 13.20 | | | | 13.20 | | | |
| 08-1 | | 69.0 | SUB 250 - ARCOLA NORTH | SUB 631 - STOCKTON CITY | 11.60 | 11.60 | | 11.60 | | | | 11.60 | | | |
| 08-1 | | 69.0 | SUB 324 - STOCKTON NORTHWEST | SUB 631 - STOCKTON CITY | 0.40 | 0.40 | | 0.40 | | | | 0.40 | | | |
| 08-2 | | 34.5 | SUB 308 - HUMANSVILLE WEST | SUB 283 - DUNNEGAN | 6.86 | 6.86 | | 6.86 | | | | 6.86 | | | |
| 08-2 | | 34.5 | SUB 308 - HUMANSVILLE WEST | SUB 304 - CAPLINGER | 13.73 | 13.73 | | 13.73 | | | | 13.73 | | | |
| 08-2 | | 34.5 | SUB 324 - STOCKTON NORTHWEST | SUB 304 - CAPLINGER | 5.70 | 5.70 | | 5.70 | | | | 5.70 | | | |
| 08-3 | | 34.5 | SUB 308 - HUMANSVILLE WEST | SUB 318 - COLLINS SOUTH | 7.46 | 7.46 | | 7.46 | | | | 7.46 | | | |
| 08-4 | | 69.0 | SUB 418 - AEC STOCKTON | SUB 631 - STOCKTON CITY | 2.20 | 2.20 | | 2.20 | | | | 2.20 | | | |
| 20-0 | | 34.5 | SUB 217 - FAIRPLAY EAST | SUB 283 - DUNNEGAN | 6.84 | 6.84 | | 6.84 | | | | 6.84 | | | |
| 20-0 | | 69.0 | SUB EXPLORER PLEASANT HOPE TAP | SUB EXPLORER PLEASANT HOPE | 1.50 | 1.50 | | 1.50 | | | | 1.50 | | | |
| 20-0 | | 69.0 | SUB EXPLORER PLEASANT HOPE TAP | SUB 73 - BOLIVAR BURNS | 6.90 | 6.90 | | 6.90 | | | | 6.90 | | | |
| 20-0 | | 69.0 | SUB EXPLORER PLEASANT HOPE TAP | SUB 323 - BRIGHTON EAST | 3.20 | 3.20 | | 3.20 | | | | 3.20 | | | |
| 20-0 | | 69.0 | SUB 209 - HERMITAGE | SUB 73 - BOLIVAR BURNS | 24.79 | 24.79 | | 24.79 | | | | 24.79 | | | |
| 20-0 | | 69.0 | SUB 80 - MARSHFIELD JCT. | SUB 170 - NICHOLS ST. | 8.80 | 8.80 | | 8.80 | | | | 8.80 | | | |
| 20-0 | | 69.0 | SUB 80 - MARSHFIELD JCT. | SUB 323 - BRIGHTON EAST | 8.00 | 8.00 | | 8.00 | | | | 8.00 | | | |
| 21-0 | | 69.0 | SUB 184 - NEOSHO SOUTH JCT. | SUB 314 - NEOSHO LINDE | 1.20 | 1.20 | | 1.20 | | | | 1.20 | | | |

Empire District Electric Company

Transmission System -- Infrastructure Detailed Inspection

| Line # | NERC | KV | From -- Expanded | To -- Expanded | Total | EDE | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | | |
|--------|------|--|------------------|--|-------|-------|------|-------|-------|------|-------|-------|------|--|--|
| | | | | | Miles | Miles | | | | | | | | | |
| 21-0 | 69.0 | SUB 184 - NEOSHO SOUTH JCT. | | SUB 322 - ANDERSON SOUTHWEST | 15.20 | 15.20 | | 15.20 | | | 15.20 | | | | |
| 21-0 | 69.0 | SUB 326 - DECATUR NORTH | | SUB 392 - DECATUR SOUTH | 1.60 | 1.60 | | 1.60 | | | 1.60 | | | | |
| 21-0 | 69.0 | SUB 326 - DECATUR NORTH | | SUB 700 - GRAVETTE | 4.40 | 4.40 | | 4.40 | | | 4.40 | | | | |
| 21-0 | 69.0 | SUB 435 - NOEL SOUTHWEST | | SUB 700 - GRAVETTE | 10.40 | 10.40 | | 10.40 | | | 10.40 | | | | |
| 21-0 | 69.0 | SUB 443 - NOEL CITY | | SUB 322 - ANDERSON SOUTHWEST | 7.20 | 7.20 | | 7.20 | | | 7.20 | | | | |
| 21-0 | 69.0 | SUB 443 - NOEL CITY | | SUB 435 - NOEL SOUTHWEST | 2.40 | 2.40 | | 2.40 | | | 2.40 | | | | |
| 21-1 | 69.0 | SUB 56 - NEOSHO WEST | | SUB 314 - NEOSHO LINDE | 2.80 | 2.80 | | 2.80 | | | 2.80 | | | | |
| 21-2 | 69.0 | SUB 184 - NEOSHO SOUTH JCT. | | SUB 296 - NEOSHO SOUTHEAST (ROCKETDYN) | 2.40 | 2.40 | | 2.40 | | | 2.40 | | | | |
| 21-3 | 69.0 | SUB 414 - SOUTHWEST CITY | | SUB 435 - NOEL SOUTHWEST | 2.40 | 2.40 | | 2.40 | | | 2.40 | | | | |
| 25-0 | 69.0 | SUB 59 - JOPLIN 26TH ST. | | SUB 64 - JOPLIN 10TH ST. | 1.60 | 1.60 | | | 1.60 | | | 1.60 | | | |
| 26-0 | 69.0 | SUB 121 - ASH GROVE H.T. | | SUB 260 - LAWRENCEBURG SHELL | 11.60 | 11.60 | | 11.60 | | | 11.60 | | | | |
| 26-0 | 69.0 | SUB 121 - ASH GROVE H.T. | | SUB 445 - WILLARD | 6.68 | 6.68 | | 6.68 | | | 6.68 | | | | |
| 26-0 | 69.0 | SUB 260 - LAWRENCEBURG SHELL | | SUB 338 - HEATONVILLE CHEROKEE | 6.80 | 6.80 | | 6.80 | | | 6.80 | | | | |
| 26-0 | 69.0 | SUB 262 - ALBATROSS | | SUB 338 - HEATONVILLE CHEROKEE | 4.80 | 4.80 | | 4.80 | | | 4.80 | | | | |
| 26-0 | 69.0 | SUB 262 - ALBATROSS | | SUB 351 - MOUNT VERNON EAST | 5.60 | 5.60 | | 5.60 | | | 5.60 | | | | |
| 26-0 | 69.0 | SUB 351 - MOUNT VERNON EAST | | SUB 420 - MT. VERNON EAST | 0.80 | 0.80 | | 0.80 | | | 0.80 | | | | |
| 26-0 | 69.0 | SUB 355 - AURORA WEST | | SUB 420 - MT. VERNON EAST | 10.00 | 10.00 | | 10.00 | | | 10.00 | | | | |
| 26-0 | 69.0 | SUB 80 - MARSHFIELD JCT. | | SUB 445 - WILLARD | 6.35 | 6.35 | | 6.35 | | | 6.35 | | | | |
| 26-0 | 69.0 | SUB 80 - MARSHFIELD JCT. | | SUB 397 - FAIRGROVE SOUTH | 8.80 | 8.80 | | 8.80 | | | 8.80 | | | | |
| 26-0 | 69.0 | SUB 124 - AURORA H.T. | | SUB 355 - AURORA WEST | 2.80 | 2.80 | | 2.80 | | | 2.80 | | | | |
| 26-1 | 69.0 | SUB 351 - MOUNT VERNON EAST | | MT. VERNON CITY 348 | 1.00 | 1.00 | | 1.00 | | | 1.00 | | | | |
| 26-2 | 69.0 | SUB 364 - RESCUE EXPLORER | | SUB 262 - ALBATROSS | 7.20 | 7.20 | | 7.20 | | | 7.20 | | | | |
| 26-4 | 69.0 | SUB 121 - ASH GROVE H.T. | | SUB 368 - DADEVILLE EAST | 15.60 | 15.60 | | 15.60 | | | 15.60 | | | | |
| 26-5 | 69.0 | SUB 445 - WILLARD | | SUB 369 - WILLARD | 2.10 | 2.10 | | 2.10 | | | 2.10 | | | | |
| 27-0 | 34.5 | SUB 299 - CHETOPA CITY | | SUB 271 - BAXTER SPRINGS WEST | 14.90 | 14.90 | | | 14.90 | | | 14.90 | | | |
| 27-0 | 34.5 | SUB 300 - CHETOPA SOUTH | | SUB 388 - CHETOPA TWIN VALLEY | 0.30 | 0.30 | | | 0.30 | | | 0.30 | | | |
| 27-0 | 34.5 | SUB 388 - CHETOPA TWIN VALLEY | | SUB 186 - WELCH NORTH | 11.18 | 11.18 | | | 11.18 | | | 11.18 | | | |
| 27-0 | 69.0 | SUB 66 - SCAMMON SOUTH | | SUB 94 - COLUMBUS SOUTHEAST | 10.30 | 10.30 | | | 10.30 | | | 10.30 | | | |
| 27-1 | 69.0 | SUB 94 - COLUMBUS SOUTHEAST | | SUB 271 - BAXTER SPRINGS WEST | 7.20 | 7.20 | | | 7.20 | | | 7.20 | | | |
| 27-3 | 34.5 | SUB 299 - CHETOPA CITY | | SUB 299 - CHETOPA CITY | 0.82 | 0.82 | | | 0.82 | | | 0.82 | | | |
| 27-3 | 34.5 | SUB 299 - CHETOPA CITY | | SUB 300 - CHETOPA SOUTH | 0.25 | 0.25 | | | 0.25 | | | 0.25 | | | |
| 29-0 | 69.0 | SUB 145 - JOPLIN WEST 7TH | | SUB 278 - GALENA NORTHEAST | 8.00 | 8.00 | | | 8.00 | | | 8.00 | | | |
| 29-0 | 69.0 | SUB 167 - RIVERTON | | SUB 278 - GALENA NORTHEAST | 8.80 | 8.80 | | | 8.80 | | | 8.80 | | | |
| 30-0 | 69.0 | SUB 124 - AURORA H.T. | | SUB 152 - MONETT H.T. | 11.20 | 11.20 | | 11.20 | | | 11.20 | | | | |
| 30-0 | 69.0 | SUB 124 - AURORA H.T. | | SUB 437 - MARIONVILLE NORTHWEST | 8.40 | 8.40 | | 8.40 | | | 8.40 | | | | |
| 30-0 | 69.0 | SUB 131 - DIAMOND JCT. | | SUB 393 - REINMILLER | 12.43 | 12.43 | | 12.43 | | | 12.43 | | | | |
| 30-0 | 69.0 | SUB 152 - MONETT H.T. | | SUB 383 - MONETT | 2.00 | 2.00 | | 2.00 | | | 2.00 | | | | |
| 30-0 | 69.0 | SUB 170 - NICHOLS ST. | | SUB 345 - REPUBLIC NORTHEAST | 10.80 | 10.80 | | 10.80 | | | 10.80 | | | | |
| 30-0 | 69.0 | SUB 205 - WENTWORTH WEST | | SUB 362 - SARCOXIE SOUTHWEST | 3.20 | 3.20 | | 3.20 | | | 3.20 | | | | |
| 30-0 | 69.0 | SUB 205 - WENTWORTH WEST | | SUB 383 - MONETT | 13.20 | 13.20 | | 13.20 | | | 13.20 | | | | |
| 30-0 | 69.0 | SUB 221 - BILLINGS NORTHEAST | | SUB 359 - REPUBLIC EAST | 6.04 | 6.04 | | 6.04 | | | 6.04 | | | | |
| 30-0 | 69.0 | SUB 221 - BILLINGS NORTHEAST | | SUB 437 - MARIONVILLE NORTHWEST | 8.00 | 8.00 | | 8.00 | | | 8.00 | | | | |
| 30-0 | 69.0 | SUB 345 - REPUBLIC NORTHEAST | | SUB 359 - REPUBLIC EAST | 5.20 | 5.20 | | 5.20 | | | 5.20 | | | | |
| 30-0 | 69.0 | SUB 347 - GRANBY JUNCTION | | SUB 131 - DIAMOND JCT. | 1.50 | 1.50 | | 1.50 | | | 1.50 | | | | |
| 30-0 | 69.0 | SUB 393 - REINMILLER | | SUB 447 - 32ND & STEPHENS | 3.10 | 3.10 | | 3.10 | | | 3.10 | | | | |
| 30-0 | 69.0 | SUB 59 - JOPLIN 26TH ST. | | SUB 258 - GATEWAY SOUTH | 1.60 | 1.60 | | 1.60 | | | 1.60 | | | | |
| 30-1 | 69.0 | SUB 109 - ATLAS JCT. | | SUB 315 - SOLAR (ATLAS POWDER CO.) | 2.80 | 2.80 | | 2.80 | | | 2.80 | | | | |
| 30-1 | 69.0 | SUB 315 - SOLAR TAP (ATLAS POWDER CO.) | | SUB 393 - REINMILLER | 4.00 | 4.00 | | 4.00 | | | 4.00 | | | | |
| 30-3 | 69.0 | SUB 347 - GRANBY JUNCTION | | SUB 242 - DIAMOND SHELL | 1.00 | 1.00 | | 1.00 | | | 1.00 | | | | |

Empire District Electric Company

Transmission System -- Infrastructure Detailed Inspection

| Line # | NERC | KV | From -- Expanded | To -- Expanded | Total Miles | EDE Miles | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|--------|------|-------|------------------------------------|--|-------------|-----------|------|-------|------|-------|-------|------|-------|
| | | | | | | | | | | | | | |
| 30-4 | | 69.0 | SUB 347 - GRANBY JUNCTION | SUB 347 - GRANBY | 4.00 | 4.00 | | 4.00 | | | 4.00 | | |
| 30-5 | | 69.0 | SUB 131 - DIAMOND JCT. | SUB 362 - SARCOXIE SOUTHWEST | 8.80 | 8.80 | | 8.80 | | | 8.80 | | |
| 30-5 | | 69.0 | SUB 362 - SARCOXIE | SUB 362 - SARCOXIE SOUTHWEST | 4.33 | 4.33 | | 4.33 | | | 4.33 | | |
| 30-6 | | 69.0 | SUB 376 - MONETT CITY SOUTH J2 | SUB 383 - MONETT | 9.20 | 9.20 | | | 9.20 | | | 9.20 | |
| 30-7 | | 69.0 | SUB 311 - MONETT CITY | SUB 311 - MONETT CITY | 0.40 | 0.40 | | | 0.40 | | | 0.40 | |
| 30-7 | | 69.0 | SUB 352 - MONETT CITY NORTH | SUB 352 - MONETT CITY NORTH | 0.40 | 0.40 | | | 0.40 | | | 0.40 | |
| 30-7 | | 69.0 | SUB 352 - MONETT CITY NORTH | SUB 311 - MONETT CITY | 1.20 | 1.20 | | | 1.20 | | | 1.20 | |
| 30-7 | | 69.0 | SUB 352 - MONETT CITY NORTH | SUB 383 - MONETT | 2.80 | 2.80 | | | 2.80 | | | 2.80 | |
| 30-7 | | 69.0 | SUB 376 - MONETT CITY SOUTH J2 | SUB 376 - MONETT CITY SOUTH | 0.40 | 0.40 | | | 0.40 | | | 0.40 | |
| 30-7 | | 69.0 | SUB 376 - MONETT CITY SOUTH J2 | SUB 416 - MONETT CITY EAST | 1.20 | 1.20 | | | 1.20 | | | 1.20 | |
| 30-7 | | 69.0 | SUB 416 - MONETT CITY EAST | SUB 390 - PURDY SOUTH | 8.80 | 8.80 | | | 8.80 | | | 8.80 | |
| 30-8 | | 69.0 | SUB 416 - MONETT CITY EAST | SUB 416 - MONETT CITY EAST | 0.40 | 0.40 | | | 0.40 | | | 0.40 | |
| 30-9 | | 69.0 | SUB 258 - GATEWAY SOUTH | SUB 447 - 32ND & STEPHENS | 1.00 | 1.00 | | | 1.00 | | | 1.00 | |
| 31-0 | | 69.0 | SUB 59 - JOPLIN 26TH ST. | SUB 167 - RIVERTON | 6.40 | 6.40 | | | | 6.40 | | | 6.40 |
| 32-0 | | 69.0 | SUB 100 - JOPLIN 2ND ST. | SUB 284 - JOPLIN EAST 5TH ST. | 0.40 | 0.40 | | | | 0.40 | | | 0.40 |
| 32-0 | | 69.0 | SUB 108 - CARTHAGE NORTHWEST | SUB 109 - ATLAS JCT. | 12.00 | 12.00 | | | | 12.00 | | | 12.00 |
| 32-0 | | 69.0 | SUB 109 - ATLAS JCT. | SUB 360 - JOPLIN NORTHEAST | 3.19 | 3.19 | | | | 3.19 | | | 3.19 |
| 32-0 | | 69.0 | SUB 360 - JOPLIN NORTHEAST | SUB 372 - JOPLIN 2ND & DIVISION | 2.80 | 2.80 | | | | 2.80 | | | 2.80 |
| 32-0 | | 69.0 | SUB 64 - JOPLIN 10TH ST. | SUB 145 - JOPLIN WEST 7TH | 2.40 | 2.40 | | | | 2.40 | | | 2.40 |
| 32-0 | | 69.0 | SUB 64 - JOPLIN 10TH ST. | SUB 284 - JOPLIN EAST 5TH ST. | 0.80 | 0.80 | | | | 0.80 | | | 0.80 |
| 32-1 | | 69.0 | SUB 100 - JOPLIN 2ND ST. | SUB 372 - JOPLIN 2ND & DIVISION | 0.40 | 0.40 | | | | 0.40 | | | 0.40 |
| 32-2 | | 69.0 | SUB 109 - ATLAS JCT. | SUB 315 - SOLAR TAP (ATLAS POWDER CO.) | 0.40 | 0.40 | | 0.40 | | | 0.40 | | |
| 32-2 | | 69.0 | SUB 315 - SOLAR (ATLAS POWDER CO.) | SUB 315 - SOLAR TAP (ATLAS POWDER CO.) | 2.23 | 2.23 | | 2.23 | | | 2.23 | | |
| 33-0 | | 69.0 | SUB 108 - CARTHAGE NORTHWEST | SUB 110 - ORONOGO JCT. | 11.20 | 11.20 | | 11.20 | | | 11.20 | | |
| 33-0 | | 69.0 | SUB 108 - CARTHAGE NORTHWEST | SUB 403 - JASPER WEST TAP | 8.80 | 8.80 | | 8.80 | | | 8.80 | | |
| 33-0 | | 69.0 | SUB 110 - ORONOGO JCT. | SUB 341 - JOPLIN NORTHWEST | 5.20 | 5.20 | | 5.20 | | | 5.20 | | |
| 33-0 | | 69.0 | SUB 145 - JOPLIN WEST 7TH | SUB 341 - JOPLIN NORTHWEST | 3.20 | 3.20 | | 3.20 | | | 3.20 | | |
| 33-0 | | 69.0 | SUB 217 - FAIRPLAY EAST | SUB 368 - DADEVILLE EAST | 13.60 | 13.60 | | 13.60 | | | 13.60 | | |
| 33-0 | | 69.0 | SUB 217 - FAIRPLAY EAST | SUB 602 - BOLIVAR PLANT | 8.00 | 8.00 | | 8.00 | | | 8.00 | | |
| 33-0 | | 69.0 | SUB 249 - BOSTON EAST | SUB 251 - GOLDEN CITY NORTH | 8.80 | 8.80 | | 8.80 | | | 8.80 | | |
| 33-0 | | 69.0 | SUB 249 - BOSTON EAST | SUB 403 - JASPER WEST TAP | 8.70 | 8.70 | | 8.70 | | | 8.70 | | |
| 33-0 | | 69.0 | SUB 251 - GOLDEN CITY NORTH | SUB 400 - LOCKWOOD | 7.60 | 7.60 | | 7.60 | | | 7.60 | | |
| 33-0 | | 69.0 | SUB 367 - BOLIVAR SOUTHEAST | SUB 602 - BOLIVAR PLANT | 1.60 | 1.60 | | 1.60 | | | 1.60 | | |
| 33-0 | | 69.0 | SUB 400 - LOCKWOOD | SUB 614 - GREENFIELD | 7.60 | 7.60 | | 7.60 | | | 7.60 | | |
| 33-0 | | 69.0 | SUB 403 - JASPER WEST | SUB 403 - JASPER WEST TAP | 2.80 | 2.80 | | 2.80 | | | 2.80 | | |
| 33-0 | | 69.0 | SUB 73 - BOLIVAR BURNS | SUB 367 - BOLIVAR SOUTHEAST | 5.60 | 5.60 | | 5.60 | | | 5.60 | | |
| 33-0 | | 69.0 | SUB CU PUMP STATION TAP | SUB 368 - DADEVILLE EAST | 5.00 | 5.00 | | 5.00 | | | 5.00 | | |
| 33-0 | | 69.0 | SUB CU PUMP STATION TAP | SUB 614 - GREENFIELD | 19.50 | 19.50 | | 19.50 | | | 19.50 | | |
| 33-3 | | 69.0 | SUB CU PUMP STATION TAP | SUB CU PUMP STATION | 1.20 | 1.20 | | 1.20 | | | 1.20 | | |
| 34-0 | | 69.0 | SUB 109 - ATLAS JCT. | SUB 280 - OAKLAND EAST | 3.20 | 3.20 | | 3.20 | | | 3.20 | | |
| 34-0 | | 69.0 | SUB 110 - ORONOGO JCT. | SUB 280 - OAKLAND EAST | 1.60 | 1.60 | | 1.60 | | | 1.60 | | |
| 34-0 | | 161.0 | SUB 109 - ATLAS JCT. | SUB 432 - JOPLIN OAKLAND NORTH | 4.90 | 4.90 | | 4.90 | | | 4.90 | | |
| 34-1 | | 69.0 | SUB 105 - WEBB CITY - TOM STREET | SUB 280 - OAKLAND EAST | 2.02 | 2.02 | | 2.02 | | | 2.02 | | |
| 35-0 | | 69.0 | SUB EXPLORER SPRING CITY TAP | SUB EXPLORER SPRING CITY | 1.00 | 1.00 | | | | 1.00 | | | 1.00 |
| 35-0 | | 69.0 | SUB EXPLORER SPRING CITY TAP | SUB 389 - JOPLIN SOUTHWEST | 2.95 | 2.95 | | | | 2.95 | | | 2.95 |
| 35-0 | | 69.0 | SUB 389 - JOPLIN SOUTHWEST | SUB 430 - JOPLIN 32ND & OLIVER | 3.20 | 3.20 | | | | 3.20 | | | 3.20 |
| 35-0 | | 69.0 | SUB 59 - JOPLIN 26TH ST. | SUB 430 - JOPLIN 32ND & OLIVER | 1.60 | 1.60 | | | | 1.60 | | | 1.60 |
| 35-1 | | 69.0 | SUB EXPLORER SPRING CITY TAP | SUB 375 - SENECA | 5.00 | 5.00 | | | | 5.00 | | | 5.00 |
| 35-1 | | 69.0 | SUB 375 - SENECA | SUB 375 - SENECA | 5.10 | 5.10 | | | | 5.10 | | | 5.10 |

Empire District Electric Company

Transmission System -- Infrastructure Detailed Inspection

| Line # | NERC | KV | From -- Expanded | To -- Expanded | Total Miles | EDE Miles | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|--------|------|-------|--|-------------------------------------|-------------|-----------|------|------|-------|-------|------|------|-------|
| | | | | | | | | | | | | | |
| 35-1 | | 69.0 | SUB 56 - NEOSHO WEST | SUB 375 - SENECA | 11.20 | 11.20 | | | | 11.20 | | | 11.20 |
| 36-0 | | 69.0 | SUB 167 - RIVERTON | SUB 339 - GULF JAYHAWK | 2.16 | 2.16 | | | 2.16 | | | | 2.16 |
| 38-0 | | 69.0 | SUB 243 - BUFFALO SHELL | SUB 333 - FAIRGROVE CHEROKEE | 10.30 | 10.30 | | | 10.30 | | | | 10.30 |
| 38-0 | | 69.0 | SUB 333 - FAIRGROVE CHEROKEE | SUB 397 - FAIRGROVE SOUTH | 24.00 | 24.00 | | | 24.00 | | | | 24.00 |
| 38-0 | | 69.0 | SUB 243 - BUFFALO SHELL | SUB 243 - BUFFALO SHELL | 0.21 | 0.21 | | | 0.21 | | | | 0.21 |
| 38-0 | | 69.0 | SUB 370 - STRAFFORD | SUB 397 - FAIRGROVE SOUTH | 5.60 | 5.60 | | | 5.60 | | | | 5.60 |
| 38-0 | | 69.0 | SUB KAMO-STRAFFORD | SUB 370 - STRAFFORD | 3.70 | 3.70 | | | 3.70 | | | | 3.70 |
| 38-0 | | 69.0 | SUB KAMO-STRAFFORD | SUB 415 - BLACKHAWK JCT. | 16.90 | 16.90 | | | 16.90 | | | | 16.90 |
| 38-2 | | 69.0 | SUB 243 - BUFFALO SHELL | SUB 342 - BUFFALO SOUTH | 4.51 | 4.51 | | | 4.51 | | | | 4.51 |
| 38-2 | | 69.0 | SUB 73 - BOLIVAR BURNS | SUB 342 - BUFFALO SOUTH | 10.00 | 10.00 | | | 10.00 | | | | 10.00 |
| 38-3 | | 69.0 | SUB 409 - BUFFALO SOUTH | SUB 342 - BUFFALO SOUTH | 5.24 | 5.24 | | | 5.24 | | | | 5.24 |
| 39-0 | | 69.0 | SUB 114 - NIXA NORTH | SUB 170 - NICHOLS ST. | 13.60 | 13.60 | | | 13.60 | | | | 13.60 |
| 39-0 | | 69.0 | SUB 114 - NIXA NORTH | SUB 415 - BLACKHAWK JCT. | 4.80 | 4.80 | | | 4.80 | | | | 4.80 |
| 39-0 | | 69.0 | SUB 312 - POWERSITE | SUB 410 - FORSYTH NORTH | 3.20 | 3.20 | | | 3.20 | | | | 3.20 |
| 39-0 | | 69.0 | SUB 330 - OZARK NORTHWEST | SUB 415 - BLACKHAWK JCT. | 2.40 | 2.40 | | | 2.40 | | | | 2.40 |
| 39-0 | | 69.0 | SUB 330 - OZARK NORTHWEST | SUB 434 - OZARK SOUTHEAST | 2.00 | 2.00 | | | 2.00 | | | | 2.00 |
| 39-0 | | 69.0 | SUB 410 - FORSYTH NORTH | SUB 434 - OZARK SOUTHEAST | 26.00 | 26.00 | | | 26.00 | | | | 26.00 |
| 40-0 | | 69.0 | SUB 292 - TIPTON FORD | SUB 332 - NEOSHO CHEROKEE | 4.40 | 4.40 | | | 4.40 | | | | 4.40 |
| 40-0 | | 69.0 | SUB 296 - NEOSHO SOUTHEAST (ROCKETDYN) | SUB 398 - NEOSHO NORTHEAST | 6.40 | 6.40 | | | 6.40 | | | | 6.40 |
| 40-0 | | 69.0 | SUB 332 - NEOSHO CHEROKEE | SUB 398 - NEOSHO NORTHEAST | 6.40 | 6.40 | | | 6.40 | | | | 6.40 |
| 79-0 | | 161.0 | SUB 124 - AURORA H.T. | SUB 383 - MONETT | 11.50 | 11.50 | | | | 11.50 | | | 11.50 |
| 79-0 | | 161.0 | SUB 389 - JOPLIN SOUTHWEST | SUB 439 - STATELINE | 6.60 | 6.60 | | | 6.60 | | | | 6.60 |
| 79-0 | | 161.0 | SUB 292 - TIPTON FORD | SUB 383 - MONETT | 29.10 | 29.10 | | | 29.10 | | | | 29.10 |
| 79-0 | | 161.0 | SUB 292 - TIPTON FORD | SUB 389 - JOPLIN SOUTHWEST | 7.20 | 7.20 | | | 7.20 | | | | 7.20 |
| 79-0 | | 161.0 | SUB 452 - RIVERTON | SUB 439 - STATELINE | 9.00 | 9.00 | | | 9.00 | | | | 9.00 |
| 80-0 | | 161.0 | SUB 124 - AURORA H.T. | SUB 295 - REEDS SPRING | 11.50 | 11.50 | | | 11.50 | | | | 11.50 |
| 80-0 | | 161.0 | SUB 295 - REEDS SPRING | SUB 424 - AEC REEDS SPRING | 1.50 | 1.50 | | | 1.50 | | | | 1.50 |
| 80-0 | | 161.0 | SUB 312 - POWERSITE | SUB 331 - BRANSON NORTH | 7.90 | 7.90 | | | 7.90 | | | | 7.90 |
| 80-0 | | 161.0 | SUB 331 - BRANSON NORTH | SUB 412 - BRANSON NORTHWEST | 1.10 | 1.10 | | | 1.10 | | | | 1.10 |
| 80-0 | | 161.0 | SUB 412 - BRANSON NORTHWEST | SUB 424 - AEC REEDS SPRING | 7.60 | 7.60 | | | 7.60 | | | | 7.60 |
| 80-1 | | 161.0 | SUB 413 - BRANSON SOUTHWEST | SUB 438 - RIVERSIDE | 3.80 | 3.80 | | | 3.80 | | | | 3.80 |
| 80-1 | | 161.0 | SUB 412 - BRANSON NORTHWEST | SUB 433 - GRETNNA | 2.60 | 2.60 | | | 2.60 | | | | 2.60 |
| 80-1 | | 161.0 | SUB 413 - BRANSON SOUTHWEST | SUB 433 - GRETNNA | 2.60 | 2.60 | | | 2.60 | | | | 2.60 |
| 82-0 | | 161.0 | SUB 110 - ORONOGO JCT. | SUB 452 - RIVERTON | 13.40 | 13.40 | | | 13.40 | | | | 13.40 |
| 83-0 | | 161.0 | CARTHAGE | SUB 109 - ATLAS JCT. | 8.20 | 8.20 | | | 8.20 | | | | 8.20 |
| 83-0 | | 161.0 | SUB 110 - ORONOGO JCT. | SUB 432 - JOPLIN OAKLAND NORTH | 1.80 | 1.80 | | | 1.80 | | | | 1.80 |
| 85-0 | | 161.0 | SUB 110 - ORONOGO JCT. | SUB 417 - JOPLIN FIR RD. | 3.20 | 3.20 | | | 3.20 | | | | 3.20 |
| 85-0 | | 161.0 | SUB 349 - ASBURY | SUB 366 - CARL JUNCTION | 13.10 | 13.10 | | | 13.10 | | | | 13.10 |
| 85-0 | | 161.0 | SUB 366 - CARL JUNCTION | SUB 417 - JOPLIN FIR RD. | 2.40 | 2.40 | | | 2.40 | | | | 2.40 |
| 87-0 | | 161.0 | SUB 124 - AURORA H.T. | SUB 446 - CHESAPEAKE | 13.50 | 13.50 | | | 13.50 | | | | 13.50 |
| 87-0 | | 161.0 | SUB 368 - DADEVILLE EAST | SUB 431 - BOLIVAR SOUTH | 17.20 | 17.20 | | | 17.20 | | | | 17.20 |
| 87-0 | | 161.0 | SUB 368 - DADEVILLE EAST | SUB 446 - CHESAPEAKE | 25.12 | 25.12 | | | 25.12 | | | | 25.12 |
| 87-0 | | 161.0 | SUB 73 - BOLIVAR BURNS | SUB 431 - BOLIVAR SOUTH | 8.20 | 8.20 | | | 8.20 | | | | 8.20 |
| 89-0 | | 161.0 | SUB 312 - POWERSITE | SUB 387 - HOLLISTER EAST | 0.80 | 0.80 | | | 0.80 | | | | 0.80 |
| 89-0 | | 161.0 | SUB 387 - HOLLISTER EAST | SUB 438 - RIVERSIDE | 6.40 | 6.40 | | | 6.40 | | | | 6.40 |
| 91-0 | | 161.0 | SUB 184 - NEOSHO SOUTH JCT. | SUB 435 - NOEL SOUTHWEST | 23.10 | 23.10 | | | 23.10 | | | | 23.10 |
| 91-0 | | 161.0 | SUB 392 - DECATUR SOUTH | SUB 435 - NOEL SOUTHWEST | 17.40 | 17.40 | | | 17.40 | | | | 17.40 |
| 92-0 | | 69.0 | SUB 292 - TIPTON FORD | SUB 393 - REINMILLER | 4.00 | 4.00 | | | 4.00 | | | | 4.00 |
| 92-0 | | 161.0 | SUB 389 - JOPLIN SOUTHWEST | SUB 422 - JOPLIN 24TH & CONNECTICUT | 7.16 | 7.16 | | | 7.16 | | | | 7.16 |

Empire District Electric Company

Transmission System -- Infrastructure Detailed Inspection

| Line # | NERC | KV | From -- Expanded | To -- Expanded | Total Miles | EDE Miles | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|--------|------|-------|----------------------------|-------------------------------------|-------------|-----------|------|--------|--------|--------|--------|--------|--------|
| | | | | | | | | | | | | | |
| 92-0 | | 161.0 | SUB 391 - JOPLIN SOUTHEAST | SUB 422 - JOPLIN 24TH & CONNECTICUT | 2.80 | 2.80 | | | 2.80 | | | 2.80 | |
| 92-0 | | 161.0 | NEOSHO | SUB 184 - NEOSHO SOUTH JCT. | 1.70 | 1.70 | | | 1.70 | | | 1.70 | |
| 92-0 | | 161.0 | NEOSHO | SUB 292 - TIPTON FORD | 10.60 | 10.60 | | | 10.60 | | | 10.60 | |
| 92-0 | | 161.0 | SUB 393 - REINMILLER | SUB 391 - JOPLIN SOUTHEAST | 2.05 | 2.05 | | | 2.05 | | | 2.05 | |
| 95-0 | | 161.0 | SUB 110 - ORONOGO JCT. | SUB 145 - JOPLIN WEST 7TH | 5.80 | 5.80 | | | 5.80 | | | 5.80 | |
| 95-0 | | 161.0 | SUB 145 - JOPLIN WEST 7TH | SUB 439 - STATELINE | 5.50 | 5.50 | | | 5.50 | | | 5.50 | |
| 96-0 | | 161.0 | SUB 389 - JOPLIN SOUTHWEST | SUB 439 - STATELINE | 7.00 | 7.00 | | | 7.00 | | | 7.00 | |
| KAMO | | 69.0 | SUB 446 - CHESAPEAKE | KAMO MAINTAINED | 6.06 | 0.00 | | | 0.00 | | | | |
| KAMO | | 69.0 | SUB 446 - CHESAPEAKE | KAMO MAINTAINED | 1.84 | 0.00 | | | 0.00 | | | | |
| Westar | | 161.0 | LITCHFIELD 161 KV | MARMTNE5 161 KV | 40.54 | 0.00 | | | 0.00 | | | | |
| | | | | | 1409.44 | 1305.64 | 0.00 | 443.69 | 444.43 | 417.52 | 443.69 | 444.43 | 417.52 |

Section 1.2.2

Patrol Inspection Description

Transmission System Infrastructure Patrol

Aerial surveys – Aerial surveys are performed annually in conjunction with the vegetation mid-cycle patrol. This is a visual inspection of all transmission facilities from a helicopter, reviewing poles, cross-arms, attachments, conductor and insulators.

Section 1.2.3

Intrusive Pole Inspection Schedule

Section 1.3

Annual Compliance Report

Section 1.3.1

Annual Compliance Report

Empire District Electric Company

Infrastructure Inspection Report

7/1/2009

| Circuit # | Equipment Type | Scheduled | Inspected | Rating | | Percentage | | Corrective Action Needed | Corrective Action Completed | Correction not Complete | Corrective Action Completed | Corrective Action Percentage | *Notes |
|-------------------|----------------|-----------|-----------|--------|------|------------|-------|--------------------------|-----------------------------|-------------------------|-----------------------------|------------------------------|---|
| | | | | Pass | Fail | Pass | Fail | | | | | | |
| 1263 Poles | | 2200 | 2100 | 1975 | 125 | 94.0% | 6.0% | 125 | 120 | 5 | 96.0% | 4.0% | Low lying area, poles under water & needs to dry to finish inspection and corrective action |
| 1263 Capitors | | 200 | 200 | 197 | 3 | 98.5% | 1.5% | 3 | 3 | 0 | 100.0% | 0.0% | |
| 1263 Regulators | | 50 | 50 | 48 | 2 | 96.0% | 4.0% | 2 | 2 | 0 | 100.0% | 0.0% | |
| 1263 Reclosers | | 8 | 8 | 7 | 1 | 87.5% | 12.5% | 1 | 1 | 0 | 100.0% | 0.0% | |
| 1263 Transformers | | 250 | 250 | 225 | 25 | 90.0% | 10.0% | 25 | 25 | 0 | 100.0% | 0.0% | |

* This is a sample annual report that may change depending on the contractor used to perform detailed inspections

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.



Subscribed and sworn before me this 30th day of June, 2008.

Sherri J. Blalock
Notary Public

