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**RE: Reliability Performance Report**

The Empire District Electric Company ("Liberty") respectfully submits its annual reliability report for calendar year 2022. Commission Rule 20 CSR 4240-23.010(2-8) requires the production of an annual reliability performance report including performance metrics for both including and excluding major event days, a list of the Company's worst performing circuit program and activities to improve performance, and a list of the Company's multi-year worst performing circuits and activities to improve performance. Additional reporting requirements are being included in the report as outlined in Case No. ER-2019-0374 which indicates the Company is to include a 6-year historical benchmark analysis for the year 2023.

Pursuant to Rule 23.010(2-8), Liberty's annual Reliability Performance Report discusses the 2022 performance and planned 2023 reliability activities to maintain or improve service reliability for Liberty's electric customers. Please note that this is a working document, and the planned activities are subject to change as a result of various potential factors including supply chain and labor issues.

Respectfully submitted,

Sam McGarrah  
Director of System Performance



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## **Section 1:**

### **Introduction**

This report details The Empire District Electric Company ("Liberty" or "Company") annual reliability metrics and worst performing circuits for calendar year 2022 as required by Missouri Public Service Commission Rule 20 CSR 4240-23.010, Electric Utility System Reliability Monitoring and Reporting Submission Requirements. This report will provide the reliability measures requested by the Rule, the list of Worst Performing Circuits, the Multi-Year Worst Performing Circuits, and the actions taken or planned to improve the performance of these circuits.

### **Definitions**

For the purpose of this report, the following definitions shall apply:

1. System Average Interruption Frequency Index ("SAIFI") – how often the average customer experiences a sustained interruption over a predefined period of time.
2. Customer Average Interruption Frequency Index ("CAIFI") – the average frequency of sustained interruptions for those customers experiencing sustained interruptions. The customer is counted once regardless of the number of times interrupted for this calculation.
3. System Average Interruption Duration Index ("SAIDI") – the total duration of interruption for the average customer during a predefined period of time. SAIDI is measured in minutes.
4. Customer Average Interruption Duration Index ("CAIDI") – the average time required to restore service. CAIDI is measured in minutes.
5. Worst Performing Circuit (WPC) – A distribution circuit whose SAIFI value, adjusted to exclude major events per IEEE Standard 1366-2022 when compared to the SAIFI values for the other circuits in the Liberty system places it among the 5% of circuits with the highest SAIFI values in the Liberty system.



## Section 2:

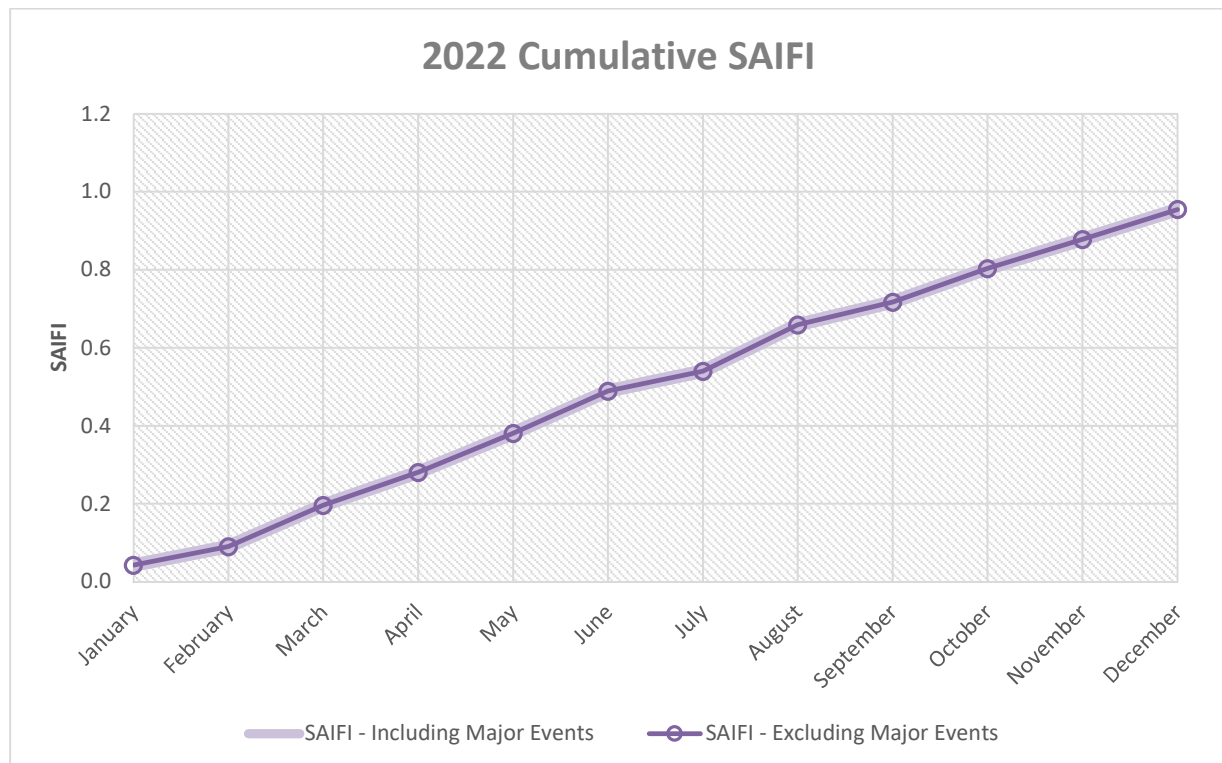
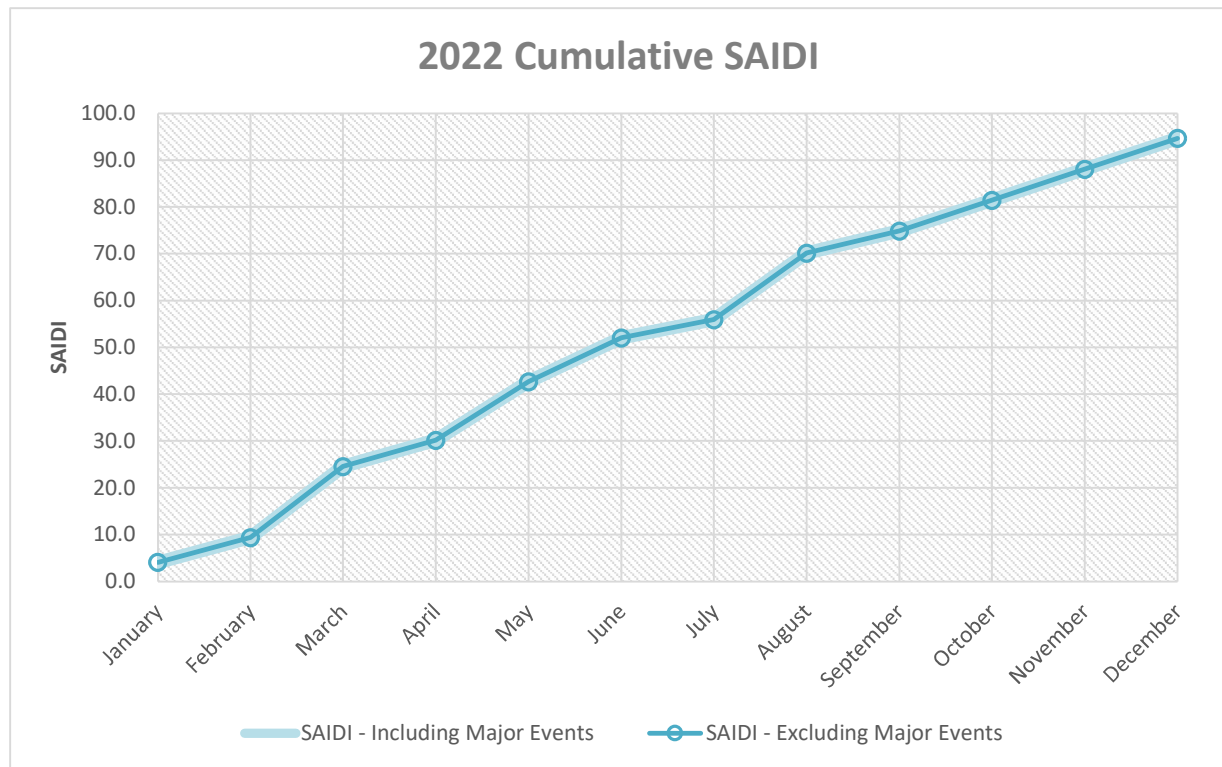
Liberty serves electric customers in sixteen counties of the southwest corner of Missouri. The region is comprised of rural communities, small towns, and medium cities. Liberty's Missouri electric customers did not experience a Major Event Day during 2022. As a result, the reliability indices for including and excluding Major Event Days are identical.

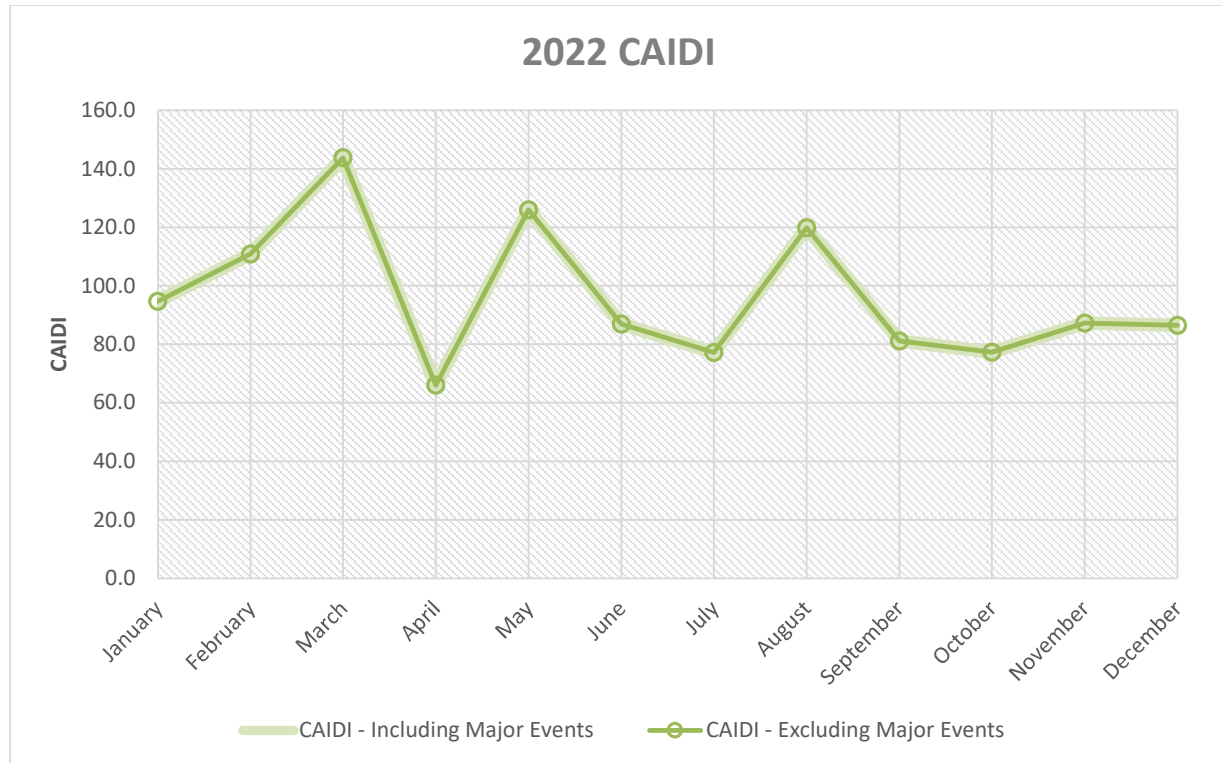
**2022 Missouri Reliability Indices including Major Event Days**

| Month     | SAIDI | SAIFI | CAIDI  |
|-----------|-------|-------|--------|
| January   | 4.09  | 0.043 | 94.68  |
| February  | 5.25  | 0.047 | 110.87 |
| March     | 15.21 | 0.106 | 143.79 |
| April     | 5.60  | 0.085 | 66.03  |
| May       | 12.54 | 0.100 | 125.94 |
| June      | 9.35  | 0.108 | 86.95  |
| July      | 3.92  | 0.051 | 77.24  |
| August    | 14.22 | 0.119 | 119.83 |
| September | 4.68  | 0.058 | 81.17  |
| October   | 6.61  | 0.086 | 77.25  |
| November  | 6.58  | 0.075 | 87.23  |
| December  | 6.63  | 0.077 | 86.53  |

**2022 Missouri Reliability Indices excluding Major Event Days**

| Month     | SAIDI | SAIFI | CAIDI  |
|-----------|-------|-------|--------|
| January   | 4.09  | 0.043 | 94.68  |
| February  | 5.25  | 0.047 | 110.87 |
| March     | 15.21 | 0.106 | 143.79 |
| April     | 5.60  | 0.085 | 66.03  |
| May       | 12.54 | 0.100 | 125.94 |
| June      | 9.35  | 0.108 | 86.95  |
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| August    | 14.22 | 0.119 | 119.83 |
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### Section 3:

#### Worst Performing Circuit Analysis/Improvement Program

Liberty's top 5% worst performing circuits for 2022 are provided in the table below.

##### 2022 Worst Performing Circuits

| Circuit Number | Location                         | Customer Outage Minutes | Customers Affected | Total Customers on Affected Circuits | SAIFI | SAIDI  |
|----------------|----------------------------------|-------------------------|--------------------|--------------------------------------|-------|--------|
| 2051           | Wentworth – West                 | 64,353                  | 875                | 211                                  | 4.152 | 305.42 |
| 3952           | Carthage – Southwest             | 298,810                 | 3,323              | 910                                  | 3.652 | 328.36 |
| 2951           | Reeds Spring – 161 KV            | 579,343                 | 4,531              | 1,253                                | 3.615 | 462.37 |
| 3621           | Sarcoxie – Southwest             | 225,564                 | 5,403              | 1,614                                | 3.348 | 139.98 |
| 3122           | Ozark Dam – Powersite            | 401,972                 | 2,951              | 898                                  | 3.286 | 447.63 |
| 4134           | Branson – Southwest              | 378,933                 | 4,179              | 1,285                                | 3.252 | 294.65 |
| 4372           | Marionville – North              | 140,761                 | 1,389              | 432                                  | 3.218 | 326.06 |
| 4092           | Buffalo – North                  | 156,852                 | 1,440              | 458                                  | 3.144 | 342.47 |
| 3661           | Carl Junction – Northeast        | 292,289                 | 3,321              | 1,082                                | 3.069 | 270.14 |
| 1311           | Diamond – H.T.                   | 141,680                 | 869                | 285                                  | 3.052 | 497.58 |
| 4476           | Pillsbury                        | 93,768                  | 1,371              | 457                                  | 3.000 | 205.18 |
| 1211           | Ash Grove – H.T.                 | 839,578                 | 4,075              | 1,506                                | 2.706 | 557.49 |
| 4101           | Forsyth – North                  | 253,805                 | 2,567              | 985                                  | 2.606 | 258.16 |
| 4223           | Joplin – 24 <sup>th</sup> Street | 267,626                 | 2,914              | 1,123                                | 2.595 | 238.31 |

#### Worst Performing Circuit Assessment

##### Circuit 2051

Vegetation maintenance was last performed in 2019 and is scheduled to be performed in 2023.

This circuit received detail inspections for both overhead and underground in 2021. This circuit is scheduled for an intrusive inspection in 2024 and patrol inspections for both overhead and underground in 2027.

The circuit has been identified as a worst performing circuit for two consecutive years. Over the past two years, circuit 2051 experienced four outages caused by lightning and a single outage caused by an animal. These types of outages can attempt to reclose at the breaker if the fault current does not exceed certain values. These type of outages are frequently momentary in nature and sustained outages are avoided by reclosing protective equipment. Given the approximate locations of the faults, Liberty suspected the reclosing mechanisms within the substation breaker were not properly operating.



Liberty investigated the substation breaker's reclosing mechanism and discovered the physical components were failing. This prevented the reclosing mechanism from consistently operating properly. Liberty also reviewed the circuit's downstream recloser settings and confirmed the settings were correct.

Substation 205 – Wentworth was entirely rebuilt in 2014, including a new circuit breaker for circuit 2051. Despite Liberty regularly maintaining this equipment, the circuit breaker required replacement to correct the issue. The circuit breaker replacement was completed in late 2022.

### **Circuit 3952**

Vegetation maintenance was last performed in 2017 and is scheduled to be performed in 2023.

This circuit received an intrusive inspection in 2017. The circuit received patrol inspections for both overhead and underground in 2021. The circuit is scheduled for detail inspections for both overhead and underground in 2026.

Two circuit-wide outages occurred due to aging underground cable faults. Liberty plans to analyze the aging underground cable and determine the best methods for remediation. Liberty will also analyze this circuit for other reliability improvement opportunities.

### **Circuit 2951**

Vegetation maintenance was last performed in 2019 and is scheduled to be performed in 2023.

This circuit received an intrusive inspection in 2022 and patrol inspections for both overhead and underground in 2022. The circuit is scheduled for detail inspections for both overhead and underground in 2028.

The circuit is being analyzed for potential sectionalization improvements.

Ospreys have recently been observed nesting on a distribution pole supporting a river crossing of circuit 2951. As a result, Liberty has included the circuit as one of two locations for Liberty's osprey outage prevention initiative. This mitigation effort analyzed locations where ospreys have caused reliability issues on distribution equipment. Ospreys cause momentary outages dropping sticks on energized overhead lines during nest building. Additionally, the osprey nest can pose a fire risk. Liberty is currently evaluating equipment to develop solutions to prevent further outages from ospreys. Liberty notes that it has acted accordingly with conservation laws surrounding ospreys.





This circuit also experienced multiple small vegetation outages. Liberty's regular vegetation maintenance will address this issue in 2023.

### **Circuit 3621**

Vegetation maintenance was performed in 2021 and is scheduled to be performed in 2027.

This circuit received patrol inspections for both overhead and underground in 2017. The circuit received an intrusive inspection in 2018. This circuit is scheduled for detail inspections for both overhead and underground in 2023.

Due to construction on the circuit, the circuit's protective equipment reclosing capabilities were blocked to ensure safety of personnel working on the circuit. This resulted in two circuit-wide outages which would have otherwise properly reclosed.

This circuit was expected to benefit from a distribution wildlife guard project that was started in early 2022. However, the work has not been completed due to the nationwide supply-chain issues impacting utility materials.

### **Circuit 3122**

Vegetation maintenance was last performed in 2019 and is scheduled to be performed in 2023.

This circuit received patrol inspections for both overhead and underground in 2021. The circuit is scheduled for an intrusive inspection in 2023 and detail inspections for both overhead and underground in 2027.

Ospreys have recently been observed nesting on a distribution pole supporting a lake crossing of circuit 3122. As a result, Liberty has included the circuit as one of two locations for Liberty's osprey outage prevention initiative. This mitigation effort analyzed locations where ospreys have caused reliability issues on distribution equipment. Ospreys cause momentary outages dropping sticks on energized overhead lines during nest building. Additionally, the osprey nest can pose a fire risk. Liberty is currently evaluating equipment to develop solutions to prevent further outages from ospreys. Liberty notes that it has acted accordingly with conservation laws surrounding ospreys.

The location of the osprey nest prevented the circuit from utilizing a transfer path between two circuits and caused a circuit-wide outage when it was initially discovered. The transfer path is now able to be utilized after completion of this project on the circuit.

The circuit is being analyzed for potential sectionalization improvements.



#### **Circuit 4134**

A coordination study and sectionalizing corrective action program was completed in 2017.

Vegetation maintenance was last performed in 2019 and is scheduled to be performed in 2023.

This circuit received an intrusive inspection in 2017. This circuit received patrol inspections for both overhead and underground in 2020. The circuit is scheduled for detail inspections for both overhead and underground in 2024.

The circuit is being analyzed for potential sectionalization and animal wildlife guarding projects. These solutions are tentatively scheduled for engineering in 2024 and completion in 2025.

#### **Circuit 4372**

Vegetation maintenance was last performed in 2021 and is scheduled to be performed in 2027.

This circuit received patrol inspections for both overhead and underground in 2018. The circuit is scheduled for detail inspections for both overhead and underground in 2024 and an intrusive inspection in 2028.

The circuit is being analyzed for potential substation and distribution animal wildlife guarding projects.

#### **Circuit 4092**

Vegetation maintenance was last performed in 2017 and is scheduled to be performed in 2023.

This circuit received an intrusive inspection in 2017. The circuit received detail inspections for both overhead and underground in 2020. The circuit is scheduled for patrol inspections for both overhead and underground in 2026.

This circuit was impacted by defective automatic transmission switching equipment. The transmission system did not properly isolate two faults causing two substation-wide outages. Liberty contacted the manufacturer about a defective control panel which controls the automatic transmission switching. The defective equipment has been replaced and the issue is now resolved.



### **Circuit 3661**

Vegetation maintenance was last performed in 2021 and is scheduled to be performed in 2023.

This circuit received patrol inspections for both overhead and underground in 2021. The circuit is scheduled for detail inspections for both overhead and underground in 2025 and an intrusive inspection in 2026.

The circuit is being analyzed for potential substation and distribution wildlife guarding projects.

### **Circuit 1311**

A coordination study and sectionalizing corrective action program was completed in late 2022.

Vegetation maintenance was performed in 2021 and is scheduled to be performed in 2027.

This circuit received an intrusive inspection in 2021. The circuit received patrol inspections for both overhead and underground in 2022. The circuit is scheduled for detail inspections for both overhead and underground in 2028.

The substation that serves this circuit is scheduled for wildlife guard installation on equipment in 2023.

### **Circuit 4476**

Vegetation maintenance was last performed in 2020 and is scheduled to be performed in 2023.

This circuit received an overhead patrol inspection in 2018. The circuit received an intrusive inspection in 2020. The circuit is scheduled for a detail inspection in 2024.

Circuit 4476 was switched to an alternate configuration to facilitate the construction of substation 490 – Joplin 32<sup>nd</sup> & Rangeline. As a result of the increased exposure, two circuit-wide outages were caused by cars hitting poles. This circuit is now in a normal configuration due to the conclusion of the construction.

### **Circuit 1211**

Vegetation maintenance was last performed in 2020 and is scheduled to be performed in 2023.



This circuit received detail inspections for both overhead and underground in 2017. The circuit received an intrusive inspection in 2022. The circuit is scheduled for patrol inspections for both overhead and underground in 2023.

This circuit benefitted from Liberty's distribution wildlife guard initiative as every distribution transformer is now protected against wildlife contact. This work was completed in 2022.

### **Circuit 4101**

Vegetation maintenance was last performed in 2021 and is scheduled to be performed in 2024.

This circuit received patrol inspections for both overhead and underground in 2018 and detail inspections for both overhead and underground in 2022. The circuit is scheduled for an intrusive inspection in 2027 and patrol inspections for both overhead and underground in 2026.

The circuit was impacted by two circuit-wide outages caused by cars hitting poles. Liberty will continue to analyze this circuit for potential reliability improvements.

### **Circuit 4223**

A coordination and sectionalizing study has not yet been performed for this circuit.

Vegetation maintenance was last performed in 2017 and is scheduled to be performed in 2023.

This circuit received an overhead patrol inspection in 2019, an intrusive inspection in 2020, and an underground patrol inspection in 2020. The circuit is scheduled for an overhead detail inspection in 2023, an underground detail inspection in 2024, and an intrusive inspection in 2027.

This circuit had ongoing construction throughout most of 2022. During construction, Liberty blocked the reclosing ability of the circuit breaker to provide a safe work environment for crews. As a result, two circuit-wide outages occurred during storms. The circuit's protective equipment is now operating as normal due to the conclusion of the construction.



### Multi-Year Worst Performing Circuits

Liberty has identified three multi-year worst performing circuits in accordance with Rule 20 CSR 4240-23.010(8). To improve the performance of the circuits, Liberty adopted a corrective action plan that includes the following activities:

- Liberty employees perform a “walk-through” of the worst performing circuit collecting engineering data to support the following coordination study and sectionalizing program. Visually identifiable defects are noted and corrected as part of the corrective action plan.
- Upon walk-through completion, a coordination study of the circuit occurs. The coordination study evaluates protective equipment settings and application to ensure each protective device properly operates with other upstream and downstream protective equipment. Additional sectionalizing is then added to the circuit to reduce the number of customers experiencing an outage, in the event an outage occurs, thus increasing reliability to other customers on the circuit. Faulted circuit indicators are also added to the circuit to reduce restoration time and shorten customer outage duration.
- In addition to the coordination study and sectionalizing program, any vegetation related issues identified are scheduled to be cleared for each circuit.

The multi-year worst performing circuits are indicated in the chart below and are ranked according to their 2022 SAIFI value. A more detailed list of each circuit’s corrective action will follow.

### 2022 Multi-Year Worst Performing Circuits

| Location              | Circuit Number | SAIFI |       |       |
|-----------------------|----------------|-------|-------|-------|
|                       |                | 2020  | 2021  | 2022  |
| Wentworth – West      | 2051           | 0.036 | 3.07  | 4.152 |
| Ozark Dam – Powersite | 3122           | 4.127 | 1.154 | 3.286 |
| Branson – Southwest   | 4134           | 3.047 | 2.054 | 3.252 |



### **Circuit 2051**

Vegetation maintenance was last performed in 2019 and is scheduled to be performed in 2023.

This circuit received detail inspections for both overhead and underground in 2021. This circuit is scheduled for an intrusive inspection in 2024 and patrol inspections for both overhead and underground in 2027.

The circuit has been identified as a worst performing circuit for two consecutive years. Over the past two years, circuit 2051 experienced four outages caused by lightning and a single outage caused by an animal. These types of outages can attempt to reclose at the breaker if the fault current does not exceed certain values. These type of outages are frequently momentary in nature and sustained outages are avoided by reclosing protective equipment. Given the approximate locations of the faults, Liberty suspected the reclosing mechanisms within the substation breaker were not properly operating.

Liberty investigated the substation breaker's reclosing mechanism and discovered the physical components were failing. This prevented the reclosing mechanism from consistently operating properly. Liberty also reviewed the circuit's downstream recloser settings and confirmed the settings were correct.

Substation 205 – Wentworth was entirely rebuilt in 2014, including a new circuit breaker for circuit 2051. Despite Liberty regularly maintaining this equipment, the circuit breaker required replacement to correct the issue. The circuit breaker replacement was completed in late 2022.

### **Circuit 3122**

Vegetation maintenance was last performed in 2019 and is scheduled to be performed in 2023.

This circuit received patrol inspections for both overhead and underground in 2021. The circuit is scheduled for an intrusive inspection in 2023 and detail inspections for both overhead and underground in 2027.

Ospreys have recently been observed nesting on a distribution pole supporting a lake crossing of circuit 3122. As a result, Liberty has included the circuit as one of two locations for Liberty's osprey outage prevention initiative. This mitigation effort analyzed locations where ospreys have caused reliability issues on distribution equipment. Ospreys cause momentary outages dropping sticks on energized overhead lines during nest building. Additionally, the osprey nest can pose a fire risk. Liberty is currently evaluating equipment to develop solutions to prevent further outages from ospreys. Liberty notes that it has acted accordingly with conservation laws surrounding ospreys.



The location of the osprey nest prevented the circuit from utilizing a transfer path between two circuits and caused a circuit-wide outage when it was initially discovered. The transfer path is now able to be utilized after completion of this project on the circuit.

The circuit is being analyzed for potential sectionalization improvements.

#### **Circuit 4134**

A coordination study and sectionalizing corrective action program was completed in 2017.

Vegetation maintenance was last performed in 2019 and is scheduled to be performed in 2023.

This circuit received an intrusive inspection in 2017. This circuit received patrol inspections for both overhead and underground in 2020. The circuit is scheduled for detail inspections for both overhead and underground in 2024.

The circuit is being analyzed for potential sectionalization and animal wildlife guarding projects. These solutions are tentatively scheduled for engineering in 2024 and completion in 2025.



## **Section 4:**

### **Industry Benchmark**

Liberty provides the following utility benchmarks per the Global Stipulation and Agreement in Case No. ER-2019-0374 regarding reliable service. The values for each utility are as provided in the Department of Energy's U.S. Energy Information Administration Form 861. Missing values are the result of omissions in the reporting utility's data. Liberty reports values for Missouri under the "Empire District Electric Co".

Liberty continues to focus its capital investments on its infrastructure to ensure its infrastructure continues to operate safely and reliably. It should be noted that the latest publication of the Energy Information Administration's Form 861 used to populate and benchmark only includes 2021 performance values.





| Utility Name                         | State | Ownership      | Standard |       |       |       |       |       |
|--------------------------------------|-------|----------------|----------|-------|-------|-------|-------|-------|
|                                      |       |                | 2016     | 2017  | 2018  | 2019  | 2020  | 2021  |
| Barton County Elec Coop, Inc         | MO    | Cooperative    | N/A      | N/A   | Other | Other | N/A   | N/A   |
| Sac-Osage Electric Coop Inc          | MO    | Cooperative    | N/A      | N/A   | Other | Other | N/A   | N/A   |
| Ozark Electric Coop                  | MO    | Cooperative    | N/A      | N/A   | N/A   | N/A   | N/A   | N/A   |
| Barry Electric Coop                  | MO    | Cooperative    | N/A      | N/A   | N/A   | N/A   | N/A   | N/A   |
| New-Mac Electric Coop                | MO    | Cooperative    | N/A      | N/A   | N/A   | N/A   | N/A   | N/A   |
| Southwest Electric Coop, Inc         | MO    | Cooperative    | N/A      | IEEE  | IEEE  | IEEE  | IEEE  | IEEE  |
| Webster Electric Coop                | MO    | Cooperative    | Other    | Other | Other | Other | Other | Other |
| White River Valley Electric Coop     | MO    | Cooperative    | N/A      | N/A   | N/A   | N/A   | N/A   | N/A   |
| Laclede Electric Coop, Inc           | MO    | Cooperative    | Other    | Other | Other | IEEE  | IEEE  | IEEE  |
| Se-MA-NO Electric Coop               | MO    | Cooperative    | N/A      | N/A   | N/A   | N/A   | N/A   | N/A   |
| City Utilities of Springfield - (MO) | MO    | Municipal      | IEEE     | IEEE  | IEEE  | IEEE  | IEEE  | IEEE  |
| Empire District Electric Co          | MO    | Investor Owned | IEEE     | IEEE  | IEEE  | IEEE  | IEEE  | IEEE  |
| Evergy Missouri West                 | MO    | Investor Owned | IEEE     | IEEE  | IEEE  | IEEE  | IEEE  | IEEE  |
| Evergy Metro                         | MO    | Investor Owned | IEEE     | IEEE  | IEEE  | IEEE  | IEEE  | IEEE  |
| Union Electric Co - (MO)             | MO    | Investor Owned | IEEE     | IEEE  | IEEE  | IEEE  | IEEE  | IEEE  |
| Empire District Electric Co          | KS    | Investor Owned | IEEE     | IEEE  | IEEE  | IEEE  | IEEE  | IEEE  |
| Evergy Metro                         | KS    | Investor Owned | IEEE     | IEEE  | IEEE  | IEEE  | IEEE  | IEEE  |
| Evergy Kansas South, Inc             | KS    | Investor Owned | IEEE     | IEEE  | IEEE  | IEEE  | IEEE  | IEEE  |
| Evergy Kansas Central, Inc           | KS    | Investor Owned | IEEE     | IEEE  | IEEE  | IEEE  | IEEE  | IEEE  |
| Empire District Electric Co          | OK    | Investor Owned | IEEE     | IEEE  | IEEE  | IEEE  | IEEE  | IEEE  |
| Oklahoma Gas & Electric Co           | OK    | Investor Owned | Other    | Other | Other | Other | Other | Other |
| Public Service Co of Oklahoma        | OK    | Investor Owned | IEEE     | IEEE  | IEEE  | IEEE  | IEEE  | IEEE  |
| Entergy Arkansas LLC                 | AR    | Investor Owned | IEEE     | IEEE  | IEEE  | IEEE  | IEEE  | IEEE  |
| Empire District Electric Co          | AR    | Investor Owned | IEEE     | IEEE  | IEEE  | IEEE  | IEEE  | IEEE  |
| Oklahoma Gas & Electric Co           | AR    | Investor Owned | Other    | Other | Other | Other | Other | Other |
| Southwestern Electric Power Co       | AR    | Investor Owned | IEEE     | IEEE  | IEEE  | IEEE  | IEEE  | IEEE  |



| Utility Name                         | State | Type | SAIDI Excluding Major Events |        |        |        |        |        |        |      |
|--------------------------------------|-------|------|------------------------------|--------|--------|--------|--------|--------|--------|------|
|                                      |       |      | 2016                         | 2017   | 2018   | 2019   | 2020   | 2021   | Avg    | Rank |
| Barton County Elec Coop, Inc         | MO    | Coop |                              |        | 144.90 | 155.20 |        |        | 150.05 | 18   |
| Sac-Osage Electric Coop Inc          | MO    | Coop |                              |        | 455.20 | 204.70 |        |        | 329.95 | 20   |
| Ozark Electric Coop                  | MO    | Coop |                              |        |        |        |        |        |        |      |
| Barry Electric Coop                  | MO    | Coop |                              |        |        |        |        |        |        |      |
| New-Mac Electric Coop                | MO    | Coop |                              |        |        |        |        |        |        |      |
| Southwest Electric Coop, Inc         | MO    | Coop |                              | 108.83 | 100.65 | 139.50 | 109.97 | 100.00 | 111.79 | 11   |
| Webster Electric Coop                | MO    | Coop | 97.00                        | 96.57  | 90.10  | 20.00  | 71.00  | 82.00  | 76.11  | 3    |
| White River Valley Electric Coop     | MO    | Coop |                              |        |        |        |        |        |        |      |
| Laclede Electric Coop, Inc           | MO    | Coop | 123.00                       | 208.20 | 112.80 | 123.25 | 128.23 | 125.92 | 136.90 | 15   |
| Se-MA-NO Electric Coop               | MO    | Coop |                              |        |        |        |        |        |        |      |
| City Utilities of Springfield - (MO) | MO    | Muni |                              |        |        |        |        | 0.00   |        |      |
| Empire District Electric Co          | MO    | IOU  | 96.68                        | 116.59 | 102.55 | 138.16 | 103.54 | 141.92 | 116.57 | 12   |
| Evergy Missouri West                 | MO    | IOU  | 65.98                        | 77.13  | 89.80  | 125.16 | 120.82 | 137.42 | 102.72 | 7    |
| Evergy Metro                         | MO    | IOU  | 62.19                        | 90.80  | 92.00  | 91.38  | 89.41  | 97.98  | 87.29  | 4    |
| Union Electric Co - (MO)             | MO    | IOU  | 91.00                        | 85.00  | 86.00  | 106.00 | 86.00  | 90.00  | 90.67  | 5    |
| Empire District Electric Co          | KS    | IOU  | 158.16                       | 106.26 | 87.05  | 115.14 | 47.80  | 105.41 | 103.30 | 8    |
| Evergy Metro                         | KS    | IOU  | 71.01                        | 55.91  | 52.34  | 61.51  | 54.21  | 88.70  | 63.95  | 2    |
| Evergy Kansas South, Inc             | KS    | IOU  | 153.42                       | 88.77  | 101.05 | 122.70 | 86.13  | 113.90 | 111.00 | 10   |
| Evergy Kansas Central, Inc           | KS    | IOU  | 116.26                       | 101.92 | 92.46  | 99.85  | 98.89  | 100.74 | 101.69 | 6    |
| Empire District Electric Co          | OK    | IOU  | 185.25                       | 122.57 | 156.72 | 160.34 | 88.84  | 63.59  | 129.55 | 13   |
| Oklahoma Gas & Electric Co           | OK    | IOU  | 158.40                       | 143.90 | 130.90 | 135.39 | 140.08 | 160.15 | 144.80 | 16   |
| Public Service Co of Oklahoma        | OK    | IOU  | 100.40                       | 102.50 | 101.20 | 125.10 | 88.90  | 113.10 | 105.20 | 9    |
| Entergy Arkansas LLC                 | AR    | IOU  | 288.20                       | 218.50 | 297.20 | 308.80 | 270.10 | 263.30 | 274.35 | 19   |
| Empire District Electric Co          | AR    | IOU  | 80.74                        | 26.92  | 25.49  | 28.15  | 23.43  | 40.77  | 37.58  | 1    |
| Oklahoma Gas & Electric Co           | AR    | IOU  | 134.90                       | 161.50 | 145.20 | 123.05 | 125.64 | 91.22  | 130.25 | 14   |
| Southwestern Electric Power Co       | AR    | IOU  | 117.30                       | 131.00 | 135.40 | 170.30 | 185.20 | 144.00 | 147.20 | 17   |



| Utility Name                         | State | Type | SAIDI Including Major Events |        |        |        |         |        |         |      |
|--------------------------------------|-------|------|------------------------------|--------|--------|--------|---------|--------|---------|------|
|                                      |       |      | 2016                         | 2017   | 2018   | 2019   | 2020    | 2021   | Avg     | Rank |
| Barton County Elec Coop, Inc         | MO    | Coop |                              |        | 144.90 | 405.10 |         |        | 275.00  | 16   |
| Sac-Osage Electric Coop Inc          | MO    | Coop |                              |        | 483.40 | 208.30 |         |        | 345.85  | 18   |
| Ozark Electric Coop                  | MO    | Coop |                              |        |        |        |         |        |         |      |
| Barry Electric Coop                  | MO    | Coop |                              |        |        |        |         |        |         |      |
| New-Mac Electric Coop                | MO    | Coop |                              |        |        |        |         |        |         |      |
| Southwest Electric Coop, Inc         | MO    | Coop |                              | 170.19 | 148.02 | 231.41 | 158.07  | 140.00 | 169.54  | 8    |
| Webster Electric Coop                | MO    | Coop | 97.00                        | 96.57  | 102.00 | 110.00 | 99.90   | 92.60  | 99.68   | 1    |
| White River Valley Electric Coop     | MO    | Coop |                              |        |        |        |         |        |         |      |
| Laclede Electric Coop, Inc           | MO    | Coop | 141.60                       | 414.60 | 112.80 | 258.96 | 238.14  | 134.64 | 216.79  | 11   |
| Se-MA-NO Electric Coop               | MO    | Coop |                              |        |        |        |         |        |         |      |
| City Utilities of Springfield - (MO) | MO    | Muni | 38.08                        | 143.98 | 100.70 | 112.32 | 128.43  | 140.91 | 110.74  | 2    |
| Empire District Electric Co          | MO    | IOU  | 96.68                        | 147.72 | 141.75 | 214.19 | 103.54  | 174.12 | 146.33  | 5    |
| Evergy Missouri West                 | MO    | IOU  | 121.97                       | 265.60 | 181.71 | 333.40 | 247.95  | 310.54 | 243.53  | 14   |
| Evergy Metro                         | MO    | IOU  | 123.91                       | 552.91 | 199.14 | 658.97 | 109.90  | 288.91 | 322.29  | 17   |
| Union Electric Co - (MO)             | MO    | IOU  | 294.00                       | 244.00 | 140.00 | 181.00 | 155.00  | 293.00 | 217.83  | 12   |
| Empire District Electric Co          | KS    | IOU  | 264.81                       | 154.15 | 109.87 | 140.08 | 64.17   | 119.70 | 142.13  | 4    |
| Evergy Metro                         | KS    | IOU  | 117.28                       | 473.93 | 114.67 | 395.30 | 73.85   | 187.95 | 227.16  | 13   |
| Evergy Kansas South, Inc             | KS    | IOU  | 164.90                       | 100.59 | 105.93 | 179.23 | 86.16   | 167.83 | 134.11  | 3    |
| Evergy Kansas Central, Inc           | KS    | IOU  | 146.22                       | 146.05 | 153.43 | 178.61 | 106.94  | 349.87 | 180.19  | 9    |
| Empire District Electric Co          | OK    | IOU  | 185.25                       | 173.77 | 156.72 | 285.22 | 88.84   | 63.59  | 158.90  | 6    |
| Oklahoma Gas & Electric Co           | OK    | IOU  | 281.90                       | 264.70 | 180.50 | 515.58 | 5995.97 | 167.98 | 1234.44 | 21   |
| Public Service Co of Oklahoma        | OK    | IOU  | 292.30                       | 180.20 | 126.90 | 161.30 | 263.70  | 138.10 | 193.75  | 10   |
| Entergy Arkansas LLC                 | AR    | IOU  | 570.00                       | 504.40 | 448.50 | 529.60 | 1190.50 | 385.50 | 604.75  | 20   |
| Empire District Electric Co          | AR    | IOU  | 80.74                        | 98.93  | 97.32  | 456.68 | 23.43   | 224.20 | 163.55  | 7    |
| Oklahoma Gas & Electric Co           | AR    | IOU  | 651.00                       | 382.50 | 278.40 | 483.21 | 165.35  | 504.89 | 410.89  | 19   |
| Southwestern Electric Power Co       | AR    | IOU  | 128.90                       | 209.80 | 146.70 | 337.90 | 354.20  | 304.10 | 246.93  | 15   |



| Utility Name                         | State | Type | SAIFI Excluding Major Events |       |       |       |       |       |       |      |
|--------------------------------------|-------|------|------------------------------|-------|-------|-------|-------|-------|-------|------|
|                                      |       |      | 2016                         | 2017  | 2018  | 2019  | 2020  | 2021  | Avg   | Rank |
| Barton County Elec Coop, Inc         | MO    | Coop |                              |       | .     | .     |       |       |       |      |
| Sac-Osage Electric Coop Inc          | MO    | Coop |                              |       | .     | .     |       |       |       |      |
| Ozark Electric Coop                  | MO    | Coop |                              |       |       |       |       |       |       |      |
| Barry Electric Coop                  | MO    | Coop |                              |       |       |       |       |       |       |      |
| New-Mac Electric Coop                | MO    | Coop |                              |       |       |       |       |       |       |      |
| Southwest Electric Coop, Inc         | MO    | Coop |                              | 1.183 | 0.990 | 1.024 | 1.095 | 1.000 | 1.058 | 9    |
| Webster Electric Coop                | MO    | Coop | 1.931                        | 1.037 | 1.020 | 1.027 | 0.970 | 0.920 | 1.151 | 12   |
| White River Valley Electric Coop     | MO    | Coop |                              |       |       |       |       |       |       |      |
| Laclede Electric Coop, Inc           | MO    | Coop | 1.680                        | 2.390 | 1.400 | 1.810 | 1.580 | 1.800 | 1.777 | 18   |
| Se-MA-NO Electric Coop               | MO    | Coop |                              |       |       |       |       |       |       |      |
| City Utilities of Springfield - (MO) | MO    | Muni | .                            | .     | .     | .     | .     | 0.000 |       |      |
| Empire District Electric Co          | MO    | IOU  | 1.035                        | 1.220 | 1.120 | 1.193 | 0.941 | 1.231 | 1.123 | 11   |
| Evergy Missouri West                 | MO    | IOU  | 0.786                        | 0.755 | 0.948 | 1.189 | 1.148 | 1.221 | 1.008 | 7    |
| Evergy Metro                         | MO    | IOU  | 0.715                        | 0.896 | 0.981 | 0.977 | 0.915 | 1.000 | 0.914 | 5    |
| Union Electric Co - (MO)             | MO    | IOU  | 0.730                        | 0.680 | 0.720 | 0.900 | 0.710 | 0.690 | 0.738 | 3    |
| Empire District Electric Co          | KS    | IOU  | 2.397                        | 1.205 | 1.150 | 1.285 | 0.602 | 1.263 | 1.317 | 14   |
| Evergy Metro                         | KS    | IOU  | 0.701                        | 0.523 | 0.584 | 0.663 | 0.601 | 0.878 | 0.658 | 2    |
| Evergy Kansas South, Inc             | KS    | IOU  | 1.330                        | 0.940 | 1.050 | 1.114 | 0.887 | 1.103 | 1.071 | 10   |
| Evergy Kansas Central, Inc           | KS    | IOU  | 1.240                        | 1.080 | 0.910 | 1.019 | 0.998 | 1.025 | 1.045 | 8    |
| Empire District Electric Co          | OK    | IOU  | 2.169                        | 1.264 | 1.411 | 1.682 | 0.835 | 0.967 | 1.388 | 16   |
| Oklahoma Gas & Electric Co           | OK    | IOU  | 1.000                        | 0.900 | 0.900 | 0.780 | 0.859 | 1.028 | 0.911 | 4    |
| Public Service Co of Oklahoma        | OK    | IOU  | 1.144                        | 1.083 | 1.167 | 1.322 | 1.027 | 1.209 | 1.159 | 13   |
| Entergy Arkansas LLC                 | AR    | IOU  | 1.960                        | 1.558 | 1.740 | 1.720 | 1.522 | 1.515 | 1.669 | 17   |
| Empire District Electric Co          | AR    | IOU  | 0.723                        | 0.314 | 0.538 | 0.422 | 0.415 | 0.447 | 0.477 | 1    |
| Oklahoma Gas & Electric Co           | AR    | IOU  | 0.900                        | 0.900 | 1.200 | 0.850 | 1.202 | 0.718 | 0.962 | 6    |
| Southwestern Electric Power Co       | AR    | IOU  | 1.281                        | 1.254 | 1.326 | 1.463 | 1.448 | 1.283 | 1.343 | 15   |



| Utility Name                         | State | Type | SAIFI Including Major Events |       |       |       |       |       |       |      |
|--------------------------------------|-------|------|------------------------------|-------|-------|-------|-------|-------|-------|------|
|                                      |       |      | 2016                         | 2017  | 2018  | 2019  | 2020  | 2021  | Avg   | Rank |
| Barton County Elec Coop, Inc         | MO    | Coop |                              |       |       |       |       |       |       |      |
| Sac-Osage Electric Coop Inc          | MO    | Coop |                              |       |       |       |       |       |       |      |
| Ozark Electric Coop                  | MO    | Coop |                              |       |       |       |       |       |       |      |
| Barry Electric Coop                  | MO    | Coop |                              |       |       |       |       |       |       |      |
| New-Mac Electric Coop                | MO    | Coop |                              |       |       |       |       |       |       |      |
| Southwest Electric Coop, Inc         | MO    | Coop |                              | 1.380 | 1.220 | 1.280 | 1.226 | 1.000 | 1.221 | 6    |
| Webster Electric Coop                | MO    | Coop | 1.931                        | 1.037 | 1.030 | 1.038 | 1.200 | 1.100 | 1.223 | 7    |
| White River Valley Electric Coop     | MO    | Coop |                              |       |       |       |       |       |       |      |
| Laclede Electric Coop, Inc           | MO    | Coop | 1.760                        | 2.970 | 1.400 | 2.520 | 1.810 | 1.910 | 2.062 | 18   |
| Se-MA-NO Electric Coop               | MO    | Coop |                              |       |       |       |       |       |       |      |
| City Utilities of Springfield - (MO) | MO    | Muni | 0.354                        | 0.755 | 0.592 | 0.645 | 0.715 | 0.810 | 0.645 | 1    |
| Empire District Electric Co          | MO    | IOU  | 1.035                        | 1.365 | 1.253 | 1.328 | 0.941 | 1.457 | 1.230 | 8    |
| Evergy Missouri West                 | MO    | IOU  | 1.020                        | 1.208 | 1.230 | 1.641 | 1.470 | 1.860 | 1.405 | 13   |
| Evergy Metro                         | MO    | IOU  | 0.935                        | 1.676 | 1.235 | 1.562 | 1.016 | 1.813 | 1.373 | 11   |
| Union Electric Co - (MO)             | MO    | IOU  | 1.130                        | 1.040 | 0.850 | 1.130 | 0.860 | 1.020 | 1.005 | 3    |
| Empire District Electric Co          | KS    | IOU  | 2.810                        | 1.436 | 1.289 | 1.337 | 0.940 | 1.312 | 1.521 | 16   |
| Evergy Metro                         | KS    | IOU  | 0.887                        | 1.061 | 0.772 | 1.107 | 0.674 | 1.334 | 0.973 | 2    |
| Evergy Kansas South, Inc             | KS    | IOU  | 1.400                        | 1.010 | 1.100 | 1.345 | 0.887 | 1.330 | 1.179 | 5    |
| Evergy Kansas Central, Inc           | KS    | IOU  | 1.410                        | 1.230 | 1.160 | 1.308 | 1.040 | 1.684 | 1.305 | 9    |
| Empire District Electric Co          | OK    | IOU  | 2.169                        | 1.512 | 1.411 | 1.940 | 0.835 | 0.967 | 1.472 | 15   |
| Oklahoma Gas & Electric Co           | OK    | IOU  | 1.200                        | 1.100 | 1.000 | 1.250 | 2.336 | 1.050 | 1.323 | 10   |
| Public Service Co of Oklahoma        | OK    | IOU  | 1.422                        | 1.335 | 1.342 | 1.458 | 1.412 | 1.393 | 1.394 | 12   |
| Entergy Arkansas LLC                 | AR    | IOU  | 2.360                        | 2.195 | 1.927 | 2.075 | 2.099 | 1.762 | 2.070 | 19   |
| Empire District Electric Co          | AR    | IOU  | 0.723                        | 0.905 | 1.398 | 1.639 | 0.415 | 1.284 | 1.061 | 4    |
| Oklahoma Gas & Electric Co           | AR    | IOU  | 1.300                        | 1.500 | 1.800 | 1.640 | 1.380 | 1.066 | 1.448 | 14   |
| Southwestern Electric Power Co       | AR    | IOU  | 1.357                        | 1.501 | 1.351 | 1.803 | 1.683 | 1.719 | 1.569 | 17   |

**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
1/1/2022 to 1/31/2022  
INCLUDING MAJOR EVENT DAYS

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1082              | 1                    | 2.33                        | 1                     | 140                           | 1,394                                  | 0.001 | 140.00 | 0.10   | 1.000 | 0.99999 |
| 1091              | 1                    | 0.58                        | 1                     | 35                            | 721                                    | 0.001 | 35.00  | 0.05   | 1.000 | 0.99999 |
| 1094              | 1                    | 0.37                        | 1                     | 22                            | 1,255                                  | 0.001 | 22.00  | 0.02   | 1.000 | 0.99999 |
| 1102              | 2                    | 0.42                        | 37                    | 560                           | 1,084                                  | 0.034 | 15.14  | 0.52   | 1.000 | 0.99999 |
| 1103              | 1                    | 0.52                        | 17                    | 534                           | 1,008                                  | 0.017 | 31.41  | 0.53   | 1.000 | 0.99999 |
| 1232              | 1                    | 1.08                        | 1                     | 65                            | 1,209                                  | 0.001 | 65.00  | 0.05   | 1.000 | 0.99999 |
| 1233              | 2                    | 1.23                        | 73                    | 1,548                         | 649                                    | 0.112 | 21.21  | 2.39   | 1.014 | 0.99995 |
| 1241              | 1                    | 2.60                        | 1                     | 156                           | 890                                    | 0.001 | 156.00 | 0.18   | 1.000 | 0.99999 |
| 1242              | 1                    | 1.88                        | 1                     | 113                           | 858                                    | 0.001 | 113.00 | 0.13   | 1.000 | 0.99999 |
| 1265              | 1                    | 1.58                        | 1                     | 95                            | 1,306                                  | 0.001 | 95.00  | 0.07   | 1.000 | 0.99999 |
| 1273              | 1                    | 1.60                        | 9                     | 868                           | 871                                    | 0.010 | 96.44  | 1.00   | 1.000 | 0.99998 |
| 1311              | 1                    | 3.30                        | 284                   | 56,250                        | 284                                    | 1.000 | 198.06 | 198.06 | 1.000 | 0.99556 |
| 1312              | 1                    | 2.55                        | 9                     | 1,377                         | 977                                    | 0.009 | 153.00 | 1.41   | 1.000 | 0.99997 |
| 1452              | 1                    | 0.98                        | 3                     | 177                           | 462                                    | 0.006 | 59.00  | 0.38   | 1.000 | 0.99999 |
| 1453              | 3                    | 4.73                        | 3                     | 284                           | 1,826                                  | 0.002 | 94.67  | 0.16   | 1.500 | 0.99999 |
| 1842              | 1                    | 2.70                        | 1,417                 | 230,286                       | 1,417                                  | 1.000 | 162.52 | 162.52 | 1.000 | 0.99629 |
| 2091              | 1                    | 0.97                        | 1                     | 58                            | 923                                    | 0.001 | 58.00  | 0.06   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 2211              | 1                    | 2.05                        | 1                     | 123                           | 742                                    | 0.001 | 123.00 | 0.17  | 1.000 | 0.99999 |
| 2212              | 1                    | 0.85                        | 1                     | 51                            | 1,384                                  | 0.001 | 51.00  | 0.04  | 1.000 | 0.99999 |
| 2511              | 1                    | 1.97                        | 17                    | 2,007                         | 626                                    | 0.027 | 118.06 | 3.21  | 1.000 | 0.99993 |
| 2951              | 3                    | 3.92                        | 1,275                 | 60,538                        | 1,256                                  | 1.015 | 47.48  | 48.20 | 1.015 | 0.99892 |
| 2961              | 1                    | 2.67                        | 40                    | 6,411                         | 656                                    | 0.061 | 160.28 | 9.77  | 1.000 | 0.99978 |
| 2962              | 1                    | 0.55                        | 6                     | 203                           | 263                                    | 0.023 | 33.83  | 0.77  | 1.000 | 0.99998 |
| 3121              | 1                    | 0.60                        | 1                     | 36                            | 1,156                                  | 0.001 | 36.00  | 0.03  | 1.000 | 0.99999 |
| 3122              | 2                    | 2.46                        | 16                    | 1,492                         | 891                                    | 0.018 | 93.25  | 1.67  | 1.067 | 0.99996 |
| 3181              | 1                    | 1.05                        | 35                    | 2,212                         | 767                                    | 0.046 | 63.20  | 2.88  | 1.000 | 0.99994 |
| 3221              | 2                    | 3.12                        | 4                     | 422                           | 1,289                                  | 0.003 | 105.50 | 0.33  | 1.000 | 0.99999 |
| 3231              | 1                    | 2.95                        | 1                     | 177                           | 216                                    | 0.005 | 177.00 | 0.82  | 1.000 | 0.99998 |
| 3303              | 1                    | 1.30                        | 10                    | 780                           | 1,792                                  | 0.006 | 78.00  | 0.44  | 1.000 | 0.99999 |
| 3304              | 2                    | 2.43                        | 2                     | 146                           | 1,178                                  | 0.002 | 73.00  | 0.12  | 1.000 | 0.99999 |
| 3313              | 2                    | 1.85                        | 17                    | 1,200                         | 1,525                                  | 0.011 | 70.59  | 0.79  | 1.000 | 0.99998 |
| 3471              | 2                    | 5.43                        | 2                     | 326                           | 496                                    | 0.004 | 163.00 | 0.66  | 1.000 | 0.99999 |
| 3472              | 3                    | 3.77                        | 3                     | 226                           | 1,327                                  | 0.002 | 75.33  | 0.17  | 1.000 | 0.99999 |
| 3551              | 1                    | 0.50                        | 8                     | 241                           | 1,045                                  | 0.008 | 30.13  | 0.23  | 1.000 | 0.99999 |
| 3553              | 1                    | 0.88                        | 1                     | 53                            | 878                                    | 0.001 | 53.00  | 0.06  | 1.000 | 0.99999 |
| 3621              | 2                    | 1.86                        | 1,609                 | 100,523                       | 1,608                                  | 1.001 | 62.48  | 62.51 | 1.001 | 0.99860 |
| 3661              | 2                    | 1.99                        | 47                    | 3,288                         | 1,082                                  | 0.043 | 69.96  | 3.04  | 1.000 | 0.99993 |
| 3662              | 1                    | 0.63                        | 1                     | 38                            | 892                                    | 0.001 | 38.00  | 0.04  | 1.000 | 0.99999 |
| 3663              | 2                    | 2.71                        | 2                     | 163                           | 312                                    | 0.006 | 81.50  | 0.52  | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 3701              | 2                    | 1.53                        | 2                     | 92                            | 535                                    | 0.004 | 46.00  | 0.17  | 1.000 | 0.99999 |
| 3751              | 2                    | 1.27                        | 948                   | 35,231                        | 929                                    | 1.020 | 37.16  | 37.92 | 1.020 | 0.99915 |
| 3872              | 1                    | 1.25                        | 23                    | 1,736                         | 1,180                                  | 0.019 | 75.48  | 1.47  | 1.000 | 0.99997 |
| 3878              | 1                    | 2.80                        | 1                     | 168                           | 847                                    | 0.001 | 168.00 | 0.20  | 1.000 | 0.99999 |
| 3892              | 1                    | 1.87                        | 87                    | 9,780                         | 541                                    | 0.161 | 112.41 | 18.08 | 1.000 | 0.99960 |
| 3893              | 3                    | 3.12                        | 3                     | 187                           | 1,171                                  | 0.003 | 62.33  | 0.16  | 1.000 | 0.99999 |
| 3912              | 1                    | 1.42                        | 1                     | 85                            | 1,366                                  | 0.001 | 85.00  | 0.06  | 1.000 | 0.99999 |
| 3913              | 1                    | 0.60                        | 12                    | 439                           | 825                                    | 0.015 | 36.58  | 0.53  | 1.000 | 0.99999 |
| 3914              | 1                    | 1.08                        | 1                     | 65                            | 396                                    | 0.003 | 65.00  | 0.16  | 1.000 | 0.99999 |
| 3951              | 2                    | 7.80                        | 2                     | 468                           | 961                                    | 0.002 | 234.00 | 0.49  | 1.000 | 0.99999 |
| 3952              | 14                   | 27.01                       | 320                   | 55,075                        | 1,309                                  | 0.244 | 172.11 | 42.07 | 1.077 | 0.99906 |
| 3981              | 2                    | 1.92                        | 9                     | 675                           | 1,568                                  | 0.006 | 75.00  | 0.43  | 1.000 | 0.99999 |
| 3991              | 1                    | 0.87                        | 1                     | 52                            | 761                                    | 0.001 | 52.00  | 0.07  | 1.000 | 0.99999 |
| 403               | 1                    | 0.35                        | 1                     | 21                            | 270                                    | 0.004 | 21.00  | 0.08  | 1.000 | 0.99999 |
| 4101              | 2                    | 1.02                        | 2                     | 61                            | 981                                    | 0.002 | 30.50  | 0.06  | 1.000 | 0.99999 |
| 4138              | 1                    | 1.53                        | 1                     | 92                            | 760                                    | 0.001 | 92.00  | 0.12  | 1.000 | 0.99999 |
| 4141              | 2                    | 3.58                        | 2                     | 215                           | 84                                     | 0.024 | 107.50 | 2.56  | 1.000 | 0.99994 |
| 4171              | 1                    | 3.52                        | 1                     | 211                           | 1,186                                  | 0.001 | 211.00 | 0.18  | 1.000 | 0.99999 |
| 4181              | 2                    | 4.07                        | 85                    | 10,001                        | 783                                    | 0.109 | 117.66 | 12.77 | 1.012 | 0.99971 |
| 4211              | 1                    | 3.35                        | 161                   | 32,428                        | 719                                    | 0.224 | 201.42 | 45.10 | 1.000 | 0.99899 |
| 4212              | 1                    | 0.58                        | 33                    | 1,170                         | 1,084                                  | 0.030 | 35.45  | 1.08  | 1.000 | 0.99998 |
| 4222              | 3                    | 1.53                        | 4                     | 129                           | 1,073                                  | 0.004 | 32.25  | 0.12  | 1.000 | 0.99999 |



| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 4311              | 1                    | 1.57                        | 1                     | 94                            | 748                                    | 0.001 | 94.00  | 0.13   | 1.000 | 0.99999 |
| 4312              | 3                    | 27.00                       | 3                     | 1,620                         | 900                                    | 0.003 | 540.00 | 1.80   | 3.000 | 0.99996 |
| 4331              | 2                    | 5.54                        | 62                    | 12,123                        | 332                                    | 0.187 | 195.53 | 36.52  | 1.000 | 0.99918 |
| 4341              | 1                    | 1.02                        | 1                     | 61                            | 1,825                                  | 0.001 | 61.00  | 0.03   | 1.000 | 0.99999 |
| 4343              | 1                    | 1.17                        | 1                     | 70                            | 1,680                                  | 0.001 | 70.00  | 0.04   | 1.000 | 0.99999 |
| 4361              | 12                   | 14.91                       | 259                   | 20,932                        | 1,660                                  | 0.156 | 80.82  | 12.61  | 1.016 | 0.99972 |
| 4362              | 1                    | 0.85                        | 24                    | 1,246                         | 840                                    | 0.029 | 51.92  | 1.48   | 1.000 | 0.99997 |
| 4371              | 5                    | 7.96                        | 16                    | 1,420                         | 1,556                                  | 0.010 | 88.75  | 0.91   | 1.000 | 0.99998 |
| 4373              | 2                    | 5.53                        | 166                   | 22,876                        | 769                                    | 0.216 | 137.81 | 29.75  | 1.085 | 0.99933 |
| 4381              | 1                    | 2.83                        | 5                     | 851                           | 8                                      | 0.625 | 170.20 | 106.38 | 1.000 | 0.99762 |
| 4431              | 2                    | 1.08                        | 2                     | 65                            | 1,428                                  | 0.001 | 32.50  | 0.05   | 1.000 | 0.99999 |
| 4692              | 1                    | 3.97                        | 6                     | 1,433                         | 488                                    | 0.012 | 238.83 | 2.94   | 1.000 | 0.99993 |
| 4714              | 1                    | 1.48                        | 10                    | 892                           | 349                                    | 0.029 | 89.20  | 2.56   | 1.000 | 0.99994 |
| 5601              | 4                    | 3.43                        | 118                   | 6,378                         | 1,297                                  | 0.091 | 54.05  | 4.92   | 1.000 | 0.99989 |
| 5602              | 1                    | 0.90                        | 1                     | 54                            | 715                                    | 0.001 | 54.00  | 0.08   | 1.000 | 0.99999 |
| 5603              | 2                    | 3.72                        | 176                   | 18,786                        | 1,484                                  | 0.119 | 106.74 | 12.66  | 1.006 | 0.99972 |
| 5905              | 1                    | 3.75                        | 5                     | 1,125                         | 1,941                                  | 0.003 | 225.00 | 0.58   | 1.000 | 0.99999 |
| 6141              | 1                    | 1.68                        | 6                     | 610                           | 651                                    | 0.009 | 101.67 | 0.94   | 1.000 | 0.99998 |
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
| Total:            | 143                  | 235.42                      | 7,521                 | 712,241                       | 174,258                                | 0.043 | 94.70  | 4.09   | 1.012 | 0.99991 |

**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
*2/1/2022 to 2/28/2022*  
**INCLUDING MAJOR EVENT DAYS**

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1051              | 1                    | 0.98                        | 35                    | 2,070                         | 785                                    | 0.045 | 59.14  | 2.64   | 1.000 | 0.99993 |
| 1082              | 4                    | 5.45                        | 1,550                 | 101,083                       | 1,394                                  | 1.112 | 65.21  | 72.51  | 1.180 | 0.99820 |
| 1092              | 2                    | 3.91                        | 249                   | 33,395                        | 959                                    | 0.260 | 134.12 | 34.82  | 1.004 | 0.99914 |
| 1094              | 1                    | 0.72                        | 1                     | 43                            | 1,255                                  | 0.001 | 43.00  | 0.03   | 1.000 | 0.99999 |
| 1102              | 3                    | 3.43                        | 95                    | 6,811                         | 1,084                                  | 0.088 | 71.69  | 6.28   | 1.011 | 0.99984 |
| 1103              | 3                    | 4.58                        | 66                    | 6,876                         | 1,008                                  | 0.065 | 104.18 | 6.82   | 1.000 | 0.99983 |
| 1211              | 1                    | 3.77                        | 1                     | 226                           | 1,506                                  | 0.001 | 226.00 | 0.15   | 1.000 | 0.99999 |
| 1212              | 1                    | 3.80                        | 1                     | 228                           | 343                                    | 0.003 | 228.00 | 0.66   | 1.000 | 0.99998 |
| 1230              | 2                    | 1.28                        | 2                     | 77                            | 1,232                                  | 0.002 | 38.50  | 0.06   | 2.000 | 0.99999 |
| 1263              | 1                    | 0.98                        | 65                    | 3,863                         | 1,217                                  | 0.053 | 59.43  | 3.17   | 1.000 | 0.99992 |
| 1265              | 2                    | 4.73                        | 46                    | 8,629                         | 1,306                                  | 0.035 | 187.59 | 6.61   | 1.000 | 0.99984 |
| 1271              | 3                    | 5.80                        | 3                     | 348                           | 988                                    | 0.003 | 116.00 | 0.35   | 1.000 | 0.99999 |
| 1273              | 1                    | 1.52                        | 6                     | 550                           | 871                                    | 0.007 | 91.67  | 0.63   | 1.000 | 0.99998 |
| 1281              | 1                    | 0.32                        | 1                     | 19                            | 170                                    | 0.006 | 19.00  | 0.11   | 1.000 | 0.99999 |
| 1284              | 1                    | 0.75                        | 1                     | 45                            | 955                                    | 0.001 | 45.00  | 0.05   | 1.000 | 0.99999 |
| 1311              | 1                    | 1.92                        | 284                   | 32,820                        | 284                                    | 1.000 | 115.56 | 115.56 | 1.000 | 0.99713 |
| 1312              | 1                    | 2.10                        | 1                     | 126                           | 977                                    | 0.001 | 126.00 | 0.13   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1452              | 1                    | 0.52                        | 1                     | 31                            | 462                                    | 0.002 | 31.00  | 0.07   | 1.000 | 0.99999 |
| 1453              | 3                    | 6.33                        | 28                    | 5,417                         | 1,826                                  | 0.015 | 193.46 | 2.97   | 1.000 | 0.99993 |
| 1523              | 1                    | 0.90                        | 1                     | 54                            | 763                                    | 0.001 | 54.00  | 0.07   | 1.000 | 0.99999 |
| 1842              | 1                    | 3.03                        | 6                     | 1,096                         | 298                                    | 0.020 | 182.67 | 3.68   | 1.000 | 0.99991 |
| 2092              | 1                    | 1.92                        | 28                    | 3,234                         | 953                                    | 0.029 | 115.50 | 3.39   | 1.000 | 0.99992 |
| 2171              | 1                    | 1.07                        | 7                     | 450                           | 593                                    | 0.012 | 64.29  | 0.76   | 1.000 | 0.99998 |
| 2211              | 1                    | 1.18                        | 47                    | 3,359                         | 742                                    | 0.063 | 71.47  | 4.53   | 1.000 | 0.99989 |
| 2501              | 1                    | 4.50                        | 84                    | 22,686                        | 84                                     | 1.000 | 270.07 | 270.07 | 1.000 | 0.99330 |
| 2621              | 1                    | 1.92                        | 25                    | 2,787                         | 1,212                                  | 0.021 | 111.48 | 2.30   | 1.000 | 0.99994 |
| 2951              | 2                    | 2.22                        | 45                    | 2,816                         | 1,256                                  | 0.036 | 62.58  | 2.24   | 1.125 | 0.99994 |
| 3041              | 1                    | 4.43                        | 83                    | 22,155                        | 87                                     | 0.954 | 266.93 | 254.66 | 1.000 | 0.99368 |
| 3121              | 2                    | 0.65                        | 2                     | 39                            | 1,156                                  | 0.002 | 19.50  | 0.03   | 1.000 | 0.99999 |
| 3122              | 1                    | 1.58                        | 1                     | 95                            | 891                                    | 0.001 | 95.00  | 0.11   | 1.000 | 0.99999 |
| 3221              | 3                    | 12.43                       | 22                    | 6,815                         | 1,289                                  | 0.017 | 309.77 | 5.29   | 1.048 | 0.99987 |
| 3222              | 3                    | 8.88                        | 3                     | 533                           | 801                                    | 0.004 | 177.67 | 0.67   | 1.000 | 0.99998 |
| 3302              | 1                    | 0.58                        | 1                     | 35                            | 652                                    | 0.002 | 35.00  | 0.05   | 1.000 | 0.99999 |
| 3303              | 1                    | 0.10                        | 1                     | 6                             | 1,792                                  | 0.001 | 6.00   | 0.00   | 1.000 | 0.99999 |
| 3304              | 1                    | 0.95                        | 469                   | 26,983                        | 1,178                                  | 0.398 | 57.53  | 22.91  | 1.000 | 0.99943 |
| 3313              | 1                    | 0.92                        | 17                    | 940                           | 1,525                                  | 0.011 | 55.29  | 0.62   | 1.000 | 0.99998 |
| 3315              | 1                    | 0.68                        | 1                     | 41                            | 1,620                                  | 0.001 | 41.00  | 0.03   | 1.000 | 0.99999 |
| 3472              | 2                    | 1.18                        | 26                    | 990                           | 1,327                                  | 0.020 | 38.08  | 0.75   | 1.040 | 0.99998 |
| 3592              | 3                    | 4.47                        | 30                    | 2,567                         | 1,808                                  | 0.017 | 85.57  | 1.42   | 1.000 | 0.99996 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 3621              | 1                    | 2.77                        | 1                     | 166                           | 1,608                                  | 0.001 | 166.00 | 0.10   | 1.000 | 0.99999 |
| 3664              | 1                    | 0.65                        | 1                     | 39                            | 582                                    | 0.002 | 39.00  | 0.07   | 1.000 | 0.99999 |
| 3692              | 1                    | 2.67                        | 1                     | 160                           | 417                                    | 0.002 | 160.00 | 0.38   | 1.000 | 0.99999 |
| 3701              | 1                    | 1.07                        | 1                     | 64                            | 535                                    | 0.002 | 64.00  | 0.12   | 1.000 | 0.99999 |
| 3751              | 1                    | 1.90                        | 1                     | 114                           | 929                                    | 0.001 | 114.00 | 0.12   | 1.000 | 0.99999 |
| 3891              | 1                    | 1.40                        | 1                     | 84                            | 451                                    | 0.002 | 84.00  | 0.19   | 1.000 | 0.99999 |
| 3893              | 1                    | 0.50                        | 26                    | 785                           | 1,171                                  | 0.022 | 30.19  | 0.67   | 1.000 | 0.99998 |
| 3903              | 2                    | 1.72                        | 12                    | 943                           | 315                                    | 0.038 | 78.58  | 2.99   | 1.000 | 0.99993 |
| 3912              | 2                    | 2.40                        | 2                     | 144                           | 1,366                                  | 0.001 | 72.00  | 0.11   | 1.000 | 0.99999 |
| 3913              | 1                    | 1.37                        | 12                    | 990                           | 825                                    | 0.015 | 82.50  | 1.20   | 1.000 | 0.99997 |
| 3953              | 3                    | 3.08                        | 3                     | 185                           | 543                                    | 0.006 | 61.67  | 0.34   | 1.000 | 0.99999 |
| 3971              | 1                    | 0.80                        | 2                     | 96                            | 693                                    | 0.003 | 48.00  | 0.14   | 1.000 | 0.99999 |
| 3982              | 1                    | 1.08                        | 34                    | 2,224                         | 1,827                                  | 0.019 | 65.41  | 1.22   | 1.000 | 0.99997 |
| 3991              | 1                    | 1.13                        | 5                     | 343                           | 761                                    | 0.007 | 68.60  | 0.45   | 1.000 | 0.99999 |
| 402               | 2                    | 1.84                        | 2                     | 110                           | 108                                    | 0.019 | 55.00  | 1.02   | 1.000 | 0.99997 |
| 403               | 1                    | 0.72                        | 1                     | 43                            | 270                                    | 0.004 | 43.00  | 0.16   | 1.000 | 0.99999 |
| 4031              | 1                    | 2.02                        | 714                   | 86,405                        | 714                                    | 1.000 | 121.02 | 121.02 | 1.000 | 0.99700 |
| 4092              | 1                    | 1.52                        | 1                     | 91                            | 458                                    | 0.002 | 91.00  | 0.20   | 1.000 | 0.99999 |
| 4101              | 2                    | 3.62                        | 21                    | 1,612                         | 981                                    | 0.021 | 76.76  | 1.64   | 1.050 | 0.99996 |
| 4131              | 1                    | 1.35                        | 1                     | 81                            | 205                                    | 0.005 | 81.00  | 0.40   | 1.000 | 0.99999 |
| 4133              | 5                    | 5.31                        | 66                    | 5,859                         | 284                                    | 0.232 | 88.77  | 20.63  | 1.650 | 0.99949 |
| 4142              | 1                    | 4.18                        | 1                     | 251                           | 621                                    | 0.002 | 251.00 | 0.40   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 4152              | 2                    | 3.95                        | 29                    | 2,420                         | 1,297                                  | 0.022 | 83.45  | 1.87   | 1.036 | 0.99995 |
| 4153              | 2                    | 7.58                        | 108                   | 24,615                        | 1,133                                  | 0.095 | 227.92 | 21.73  | 1.059 | 0.99946 |
| 4171              | 1                    | 1.50                        | 1                     | 90                            | 1,186                                  | 0.001 | 90.00  | 0.08   | 1.000 | 0.99999 |
| 4172              | 2                    | 1.23                        | 5                     | 206                           | 1,855                                  | 0.003 | 41.20  | 0.11   | 1.250 | 0.99999 |
| 4173              | 2                    | 1.37                        | 9                     | 366                           | 691                                    | 0.013 | 40.67  | 0.53   | 1.000 | 0.99999 |
| 4182              | 1                    | 1.42                        | 9                     | 773                           | 779                                    | 0.012 | 85.89  | 0.99   | 1.000 | 0.99998 |
| 4211              | 1                    | 1.35                        | 1                     | 81                            | 719                                    | 0.001 | 81.00  | 0.11   | 1.000 | 0.99999 |
| 4222              | 5                    | 6.35                        | 50                    | 3,833                         | 1,073                                  | 0.047 | 76.66  | 3.57   | 1.064 | 0.99991 |
| 4224              | 1                    | 1.97                        | 1                     | 118                           | 772                                    | 0.001 | 118.00 | 0.15   | 1.000 | 0.99999 |
| 4303              | 2                    | 10.62                       | 85                    | 25,468                        | 1,304                                  | 0.065 | 299.62 | 19.53  | 1.000 | 0.99952 |
| 4341              | 1                    | 5.20                        | 1                     | 312                           | 1,825                                  | 0.001 | 312.00 | 0.17   | 1.000 | 0.99999 |
| 4361              | 1                    | 0.45                        | 1                     | 27                            | 1,660                                  | 0.001 | 27.00  | 0.02   | 1.000 | 0.99999 |
| 4362              | 1                    | 1.70                        | 1                     | 102                           | 840                                    | 0.001 | 102.00 | 0.12   | 1.000 | 0.99999 |
| 4383              | 1                    | 2.07                        | 147                   | 18,355                        | 147                                    | 1.000 | 124.86 | 124.86 | 1.000 | 0.99690 |
| 4385              | 1                    | 2.13                        | 1,156                 | 148,372                       | 1,156                                  | 1.000 | 128.35 | 128.35 | 1.000 | 0.99682 |
| 4386              | 1                    | 2.12                        | 1,656                 | 211,360                       | 1,656                                  | 1.000 | 127.63 | 127.63 | 1.000 | 0.99683 |
| 4431              | 2                    | 1.90                        | 17                    | 1,150                         | 1,428                                  | 0.012 | 67.65  | 0.81   | 1.063 | 0.99998 |
| 4602              | 1                    | 1.28                        | 1                     | 77                            | 978                                    | 0.001 | 77.00  | 0.08   | 1.000 | 0.99999 |
| 4692              | 1                    | 0.93                        | 5                     | 284                           | 488                                    | 0.010 | 56.80  | 0.58   | 1.000 | 0.99999 |
| 4791              | 1                    | 1.83                        | 607                   | 67,326                        | 627                                    | 0.968 | 110.92 | 107.38 | 1.000 | 0.99734 |
| 4891              | 1                    | 3.42                        | 1                     | 205                           | 593                                    | 0.002 | 205.00 | 0.35   | 1.000 | 0.99999 |
| 5601              | 3                    | 4.05                        | 95                    | 5,401                         | 1,297                                  | 0.073 | 56.85  | 4.16   | 1.000 | 0.99990 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 5602              | 1                    | 1.05                        | 1                     | 63                            | 715                                    | 0.001 | 63.00  | 0.09  | 1.000 | 0.99999 |
| 5603              | 3                    | 5.99                        | 18                    | 2,455                         | 1,484                                  | 0.012 | 136.39 | 1.65  | 1.125 | 0.99996 |
| 6141              | 1                    | 1.37                        | 5                     | 411                           | 651                                    | 0.008 | 82.20  | 0.63  | 1.000 | 0.99998 |
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
| Total:            | 133                  | 222.41                      | 8,254                 | 914,997                       | 174,258                                | 0.047 | 110.85 | 5.25  | 1.036 | 0.99987 |

**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
3/1/2022 to 3/31/2022  
INCLUDING MAJOR EVENT DAYS

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1050              | 2                    | 1.70                        | 39                    | 2,669                         | 1,762                                  | 0.022 | 68.44  | 1.51   | 1.026 | 0.99997 |
| 1051              | 1                    | 0.80                        | 19                    | 925                           | 785                                    | 0.024 | 48.68  | 1.18   | 1.000 | 0.99997 |
| 1052              | 2                    | 3.45                        | 177                   | 11,669                        | 1,195                                  | 0.148 | 65.93  | 9.76   | 1.006 | 0.99978 |
| 1082              | 2                    | 2.40                        | 2                     | 144                           | 1,394                                  | 0.001 | 72.00  | 0.10   | 1.000 | 0.99999 |
| 1091              | 1                    | 0.77                        | 34                    | 1,567                         | 721                                    | 0.047 | 46.09  | 2.17   | 1.000 | 0.99995 |
| 1092              | 2                    | 5.35                        | 261                   | 70,290                        | 959                                    | 0.272 | 269.31 | 73.30  | 1.052 | 0.99836 |
| 1102              | 2                    | 5.87                        | 63                    | 9,190                         | 1,084                                  | 0.058 | 145.87 | 8.48   | 1.370 | 0.99981 |
| 1103              | 1                    | 0.68                        | 38                    | 1,562                         | 1,008                                  | 0.038 | 41.11  | 1.55   | 1.000 | 0.99997 |
| 1211              | 3                    | 11.17                       | 3,013                 | 805,469                       | 1,506                                  | 2.001 | 267.33 | 534.84 | 2.001 | 0.98802 |
| 1212              | 2                    | 8.83                        | 686                   | 182,235                       | 343                                    | 2.000 | 265.65 | 531.30 | 2.000 | 0.98810 |
| 1213              | 2                    | 8.86                        | 1,152                 | 306,643                       | 576                                    | 2.000 | 266.18 | 532.37 | 2.000 | 0.98807 |
| 1230              | 2                    | 1.62                        | 2                     | 97                            | 1,232                                  | 0.002 | 48.50  | 0.08   | 1.000 | 0.99999 |
| 1232              | 2                    | 2.07                        | 22                    | 1,962                         | 1,209                                  | 0.018 | 89.18  | 1.62   | 1.048 | 0.99996 |
| 1241              | 3                    | 3.22                        | 892                   | 58,556                        | 890                                    | 1.002 | 65.65  | 65.79  | 1.002 | 0.99853 |
| 1242              | 1                    | 2.62                        | 11                    | 1,732                         | 858                                    | 0.013 | 157.45 | 2.02   | 1.000 | 0.99995 |
| 1243              | 1                    | 0.95                        | 1                     | 57                            | 1,247                                  | 0.001 | 57.00  | 0.05   | 1.000 | 0.99999 |
| 1263              | 1                    | 0.70                        | 43                    | 1,829                         | 1,217                                  | 0.035 | 42.53  | 1.50   | 1.000 | 0.99997 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1271              | 3                    | 7.05                        | 106                   | 25,313                        | 988                                    | 0.107 | 238.80 | 25.62  | 1.060 | 0.99943 |
| 1311              | 2                    | 1.10                        | 2                     | 66                            | 284                                    | 0.007 | 33.00  | 0.23   | 1.000 | 0.99999 |
| 1453              | 1                    | 1.37                        | 1                     | 82                            | 1,826                                  | 0.001 | 82.00  | 0.04   | 1.000 | 0.99999 |
| 1523              | 1                    | 3.20                        | 55                    | 10,575                        | 763                                    | 0.072 | 192.27 | 13.86  | 1.000 | 0.99969 |
| 1842              | 2                    | 1.50                        | 11                    | 389                           | 298                                    | 0.037 | 35.36  | 1.31   | 1.100 | 0.99997 |
| 2051              | 3                    | 4.07                        | 225                   | 15,447                        | 210                                    | 1.071 | 68.65  | 73.56  | 1.071 | 0.99835 |
| 2092              | 2                    | 4.22                        | 2                     | 253                           | 953                                    | 0.002 | 126.50 | 0.27   | 1.000 | 0.99999 |
| 2172              | 1                    | 5.45                        | 1                     | 327                           | 247                                    | 0.004 | 327.00 | 1.32   | 1.000 | 0.99997 |
| 2211              | 2                    | 5.77                        | 39                    | 6,348                         | 742                                    | 0.053 | 162.77 | 8.56   | 1.000 | 0.99981 |
| 2212              | 1                    | 0.92                        | 34                    | 1,872                         | 1,384                                  | 0.025 | 55.06  | 1.35   | 1.000 | 0.99997 |
| 2511              | 1                    | 0.48                        | 9                     | 262                           | 626                                    | 0.014 | 29.11  | 0.42   | 1.000 | 0.99999 |
| 2621              | 1                    | 3.10                        | 1                     | 186                           | 1,212                                  | 0.001 | 186.00 | 0.15   | 1.000 | 0.99999 |
| 2951              | 2                    | 7.60                        | 1,018                 | 232,825                       | 1,256                                  | 0.811 | 228.71 | 185.37 | 2.000 | 0.99585 |
| 2961              | 1                    | 1.35                        | 1,218                 | 98,881                        | 1,218                                  | 1.000 | 81.18  | 81.18  | 1.000 | 0.99815 |
| 3121              | 3                    | 2.80                        | 31                    | 1,782                         | 1,156                                  | 0.027 | 57.48  | 1.54   | 1.033 | 0.99997 |
| 3221              | 1                    | 1.97                        | 9                     | 1,065                         | 1,289                                  | 0.007 | 118.33 | 0.83   | 1.000 | 0.99998 |
| 3301              | 2                    | 1.82                        | 11                    | 690                           | 772                                    | 0.014 | 62.73  | 0.89   | 1.100 | 0.99998 |
| 3303              | 2                    | 2.15                        | 45                    | 3,857                         | 1,792                                  | 0.025 | 85.71  | 2.15   | 1.023 | 0.99995 |
| 3304              | 1                    | 0.78                        | 1                     | 47                            | 1,178                                  | 0.001 | 47.00  | 0.04   | 1.000 | 0.99999 |
| 3313              | 1                    | 0.70                        | 1                     | 42                            | 1,525                                  | 0.001 | 42.00  | 0.03   | 1.000 | 0.99999 |
| 3421              | 1                    | 2.02                        | 307                   | 37,162                        | 307                                    | 1.000 | 121.05 | 121.05 | 1.000 | 0.99729 |
| 3422              | 1                    | 2.05                        | 1,018                 | 125,841                       | 1,018                                  | 1.000 | 123.62 | 123.62 | 1.000 | 0.99718 |



| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 3423              | 1                    | 2.05                        | 404                   | 49,860                        | 404                                    | 1.000 | 123.42 | 123.42 | 1.000 | 0.99724 |
| 3472              | 3                    | 4.64                        | 14                    | 1,094                         | 1,327                                  | 0.011 | 78.14  | 0.82   | 1.167 | 0.99998 |
| 3551              | 1                    | 0.58                        | 8                     | 282                           | 1,045                                  | 0.008 | 35.25  | 0.27   | 1.000 | 0.99999 |
| 3552              | 3                    | 2.00                        | 9                     | 390                           | 585                                    | 0.015 | 43.33  | 0.67   | 1.000 | 0.99999 |
| 3591              | 1                    | 2.78                        | 1                     | 167                           | 1,560                                  | 0.001 | 167.00 | 0.11   | 1.000 | 0.99999 |
| 3621              | 2                    | 3.45                        | 129                   | 14,174                        | 1,608                                  | 0.080 | 109.88 | 8.81   | 1.024 | 0.99980 |
| 3691              | 1                    | 1.88                        | 375                   | 42,412                        | 377                                    | 0.995 | 113.10 | 112.50 | 1.000 | 0.99748 |
| 3692              | 1                    | 1.87                        | 417                   | 46,808                        | 417                                    | 1.000 | 112.25 | 112.25 | 1.000 | 0.99749 |
| 3693              | 1                    | 1.87                        | 181                   | 20,428                        | 181                                    | 1.000 | 112.86 | 112.86 | 1.000 | 0.99747 |
| 3694              | 2                    | 3.70                        | 527                   | 59,479                        | 528                                    | 0.998 | 112.86 | 112.65 | 1.008 | 0.99748 |
| 3751              | 3                    | 3.25                        | 47                    | 3,562                         | 929                                    | 0.051 | 75.79  | 3.83   | 1.000 | 0.99991 |
| 3872              | 2                    | 1.67                        | 77                    | 2,457                         | 1,180                                  | 0.065 | 31.91  | 2.08   | 1.013 | 0.99995 |
| 3873              | 1                    | 0.73                        | 1                     | 44                            | 815                                    | 0.001 | 44.00  | 0.05   | 1.000 | 0.99999 |
| 3878              | 1                    | 2.83                        | 17                    | 2,906                         | 847                                    | 0.020 | 170.94 | 3.43   | 1.000 | 0.99992 |
| 3891              | 1                    | 0.60                        | 1                     | 36                            | 451                                    | 0.002 | 36.00  | 0.08   | 1.000 | 0.99999 |
| 3893              | 7                    | 7.45                        | 702                   | 40,013                        | 1,171                                  | 0.599 | 57.00  | 34.17  | 1.085 | 0.99923 |
| 3894              | 1                    | 0.27                        | 1                     | 16                            | 160                                    | 0.006 | 16.00  | 0.10   | 1.000 | 0.99999 |
| 3901              | 2                    | 2.25                        | 18                    | 1,042                         | 884                                    | 0.020 | 57.89  | 1.18   | 1.000 | 0.99997 |
| 3903              | 1                    | 0.87                        | 264                   | 13,877                        | 315                                    | 0.838 | 52.56  | 44.05  | 1.000 | 0.99901 |
| 3912              | 2                    | 1.45                        | 17                    | 906                           | 1,366                                  | 0.012 | 53.29  | 0.66   | 1.063 | 0.99999 |
| 3913              | 2                    | 3.00                        | 16                    | 1,146                         | 825                                    | 0.019 | 71.63  | 1.39   | 1.067 | 0.99997 |
| 3914              | 1                    | 6.08                        | 18                    | 6,571                         | 396                                    | 0.045 | 365.06 | 16.59  | 1.000 | 0.99963 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 3951              | 4                    | 3.70                        | 34                    | 1,828                         | 961                                    | 0.035 | 53.76  | 1.90   | 1.063 | 0.99996 |
| 3981              | 3                    | 2.25                        | 8                     | 246                           | 1,568                                  | 0.005 | 30.75  | 0.16   | 1.143 | 0.99999 |
| 3982              | 4                    | 3.20                        | 69                    | 3,556                         | 1,827                                  | 0.038 | 51.54  | 1.95   | 1.030 | 0.99996 |
| 4091              | 1                    | 2.07                        | 1,190                 | 147,936                       | 1,206                                  | 0.987 | 124.32 | 122.67 | 1.000 | 0.99725 |
| 4092              | 2                    | 4.20                        | 459                   | 57,118                        | 458                                    | 1.002 | 124.44 | 124.71 | 1.002 | 0.99721 |
| 4101              | 1                    | 1.03                        | 68                    | 4,221                         | 981                                    | 0.069 | 62.07  | 4.30   | 1.000 | 0.99990 |
| 4131              | 1                    | 2.27                        | 205                   | 27,917                        | 205                                    | 1.000 | 136.18 | 136.18 | 1.000 | 0.99695 |
| 4142              | 1                    | 1.15                        | 14                    | 970                           | 621                                    | 0.023 | 69.29  | 1.56   | 1.000 | 0.99997 |
| 4152              | 1                    | 1.68                        | 1                     | 101                           | 1,297                                  | 0.001 | 101.00 | 0.08   | 1.000 | 0.99999 |
| 4171              | 1                    | 0.45                        | 1                     | 27                            | 1,186                                  | 0.001 | 27.00  | 0.02   | 1.000 | 0.99999 |
| 4172              | 4                    | 4.17                        | 58                    | 5,267                         | 1,855                                  | 0.031 | 90.81  | 2.84   | 1.036 | 0.99994 |
| 4173              | 1                    | 0.95                        | 1                     | 57                            | 691                                    | 0.001 | 57.00  | 0.08   | 1.000 | 0.99999 |
| 4181              | 5                    | 9.04                        | 7                     | 731                           | 783                                    | 0.009 | 104.43 | 0.93   | 1.000 | 0.99998 |
| 4182              | 1                    | 0.38                        | 1                     | 23                            | 779                                    | 0.001 | 23.00  | 0.03   | 1.000 | 0.99999 |
| 4211              | 1                    | 1.08                        | 1                     | 65                            | 719                                    | 0.001 | 65.00  | 0.09   | 1.000 | 0.99999 |
| 4212              | 5                    | 3.37                        | 18                    | 776                           | 1,084                                  | 0.017 | 43.11  | 0.72   | 1.125 | 0.99998 |
| 4222              | 1                    | 1.75                        | 1                     | 105                           | 1,073                                  | 0.001 | 105.00 | 0.10   | 1.000 | 0.99999 |
| 4224              | 1                    | 0.62                        | 11                    | 412                           | 772                                    | 0.014 | 37.45  | 0.53   | 1.000 | 0.99999 |
| 4302              | 1                    | 8.48                        | 1                     | 509                           | 662                                    | 0.002 | 509.00 | 0.77   | 1.000 | 0.99998 |
| 4303              | 2                    | 0.84                        | 26                    | 940                           | 1,304                                  | 0.020 | 36.15  | 0.72   | 1.040 | 0.99998 |
| 4313              | 1                    | 0.70                        | 4                     | 169                           | 558                                    | 0.007 | 42.25  | 0.30   | 1.000 | 0.99999 |
| 4341              | 1                    | 2.35                        | 1                     | 141                           | 1,825                                  | 0.001 | 141.00 | 0.08   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 4343              | 1                    | 3.97                        | 1                     | 238                           | 1,680                                  | 0.001 | 238.00 | 0.14  | 1.000 | 0.99999 |
| 4361              | 2                    | 1.56                        | 2                     | 94                            | 1,660                                  | 0.001 | 47.00  | 0.06  | 1.000 | 0.99999 |
| 4363              | 4                    | 3.65                        | 78                    | 5,168                         | 703                                    | 0.111 | 66.26  | 7.35  | 1.950 | 0.99984 |
| 4364              | 3                    | 2.77                        | 49                    | 2,773                         | 858                                    | 0.057 | 56.59  | 3.23  | 1.089 | 0.99993 |
| 4386              | 1                    | 1.00                        | 1                     | 60                            | 1,656                                  | 0.001 | 60.00  | 0.04  | 1.000 | 0.99999 |
| 4431              | 1                    | 1.58                        | 48                    | 4,569                         | 1,428                                  | 0.034 | 95.19  | 3.20  | 1.000 | 0.99993 |
| 4432              | 1                    | 1.40                        | 7                     | 593                           | 482                                    | 0.015 | 84.71  | 1.23  | 1.000 | 0.99997 |
| 4692              | 6                    | 5.85                        | 13                    | 1,092                         | 488                                    | 0.027 | 84.00  | 2.24  | 1.000 | 0.99995 |
| 4714              | 2                    | 2.89                        | 5                     | 338                           | 349                                    | 0.014 | 67.60  | 0.97  | 1.250 | 0.99998 |
| 4791              | 1                    | 0.28                        | 628                   | 11,094                        | 628                                    | 1.000 | 17.67  | 17.67 | 1.000 | 0.99960 |
| 4793              | 1                    | 0.25                        | 776                   | 12,131                        | 777                                    | 0.999 | 15.63  | 15.61 | 1.000 | 0.99965 |
| 4794              | 1                    | 0.30                        | 398                   | 7,422                         | 398                                    | 1.000 | 18.65  | 18.65 | 1.000 | 0.99958 |
| 5601              | 7                    | 8.11                        | 126                   | 8,826                         | 1,297                                  | 0.097 | 70.05  | 6.80  | 1.016 | 0.99985 |
| 5602              | 2                    | 3.20                        | 28                    | 1,356                         | 715                                    | 0.039 | 48.43  | 1.90  | 1.000 | 0.99996 |
| 5603              | 1                    | 5.25                        | 5                     | 1,576                         | 1,484                                  | 0.003 | 315.20 | 1.06  | 1.000 | 0.99998 |
| 5902              | 1                    | 0.50                        | 1                     | 30                            | 967                                    | 0.001 | 30.00  | 0.03  | 1.000 | 0.99999 |
| 5904              | 3                    | 1.97                        | 100                   | 3,918                         | 1,287                                  | 0.078 | 39.18  | 3.04  | 1.000 | 0.99993 |
| 5905              | 2                    | 1.40                        | 90                    | 3,826                         | 1,941                                  | 0.046 | 42.51  | 1.97  | 1.000 | 0.99996 |
| 6021              | 2                    | 4.25                        | 2                     | 255                           | 1,364                                  | 0.001 | 127.50 | 0.19  | 1.000 | 0.99999 |
| 6141              | 2                    | 3.20                        | 16                    | 1,424                         | 651                                    | 0.025 | 89.00  | 2.19  | 1.000 | 0.99995 |
| 6143              | 1                    | 1.52                        | 41                    | 3,763                         | 376                                    | 0.109 | 91.78  | 10.01 | 1.000 | 0.99978 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
| Total:            | 193                  | 288.43                      | 18,438                | 2,651,239                     | 174,258                                | 0.106 | 143.79 | 15.21 | 1.204 | 0.99966 |

**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
4/1/2022 to 4/30/2022  
INCLUDING MAJOR EVENT DAYS

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1050              | 1                    | 1.07                        | 20                    | 1,296                         | 1,762                                  | 0.011 | 64.80  | 0.74   | 1.000 | 0.99998 |
| 1051              | 2                    | 3.00                        | 2                     | 180                           | 785                                    | 0.003 | 90.00  | 0.23   | 1.000 | 0.99999 |
| 1081              | 1                    | 1.08                        | 17                    | 1,069                         | 20                                     | 0.850 | 62.88  | 53.45  | 1.000 | 0.99876 |
| 1082              | 1                    | 1.20                        | 1,394                 | 101,622                       | 1,394                                  | 1.000 | 72.90  | 72.90  | 1.000 | 0.99831 |
| 1084              | 1                    | 0.67                        | 1                     | 40                            | 5                                      | 0.200 | 40.00  | 8.00   | 1.000 | 0.99981 |
| 1094              | 2                    | 2.55                        | 72                    | 7,934                         | 1,255                                  | 0.057 | 110.19 | 6.32   | 1.000 | 0.99985 |
| 1102              | 3                    | 3.96                        | 77                    | 3,624                         | 1,084                                  | 0.071 | 47.06  | 3.34   | 1.013 | 0.99992 |
| 1103              | 2                    | 2.51                        | 9                     | 507                           | 1,008                                  | 0.009 | 56.33  | 0.50   | 1.000 | 0.99999 |
| 1142              | 2                    | 3.87                        | 158                   | 25,675                        | 157                                    | 1.006 | 162.50 | 163.54 | 1.006 | 0.99621 |
| 1211              | 4                    | 3.08                        | 86                    | 4,334                         | 1,506                                  | 0.057 | 50.40  | 2.88   | 1.162 | 0.99993 |
| 1212              | 1                    | 0.70                        | 1                     | 42                            | 343                                    | 0.003 | 42.00  | 0.12   | 1.000 | 0.99999 |
| 1230              | 2                    | 2.87                        | 2                     | 172                           | 1,232                                  | 0.002 | 86.00  | 0.14   | 1.000 | 0.99999 |
| 1232              | 1                    | 2.38                        | 617                   | 88,683                        | 1,209                                  | 0.510 | 143.73 | 73.35  | 1.000 | 0.99830 |
| 1242              | 2                    | 2.42                        | 860                   | 52,211                        | 859                                    | 1.001 | 60.71  | 60.78  | 1.001 | 0.99861 |
| 1243              | 1                    | 1.20                        | 1                     | 72                            | 1,247                                  | 0.001 | 72.00  | 0.06   | 1.000 | 0.99999 |
| 1262              | 2                    | 1.27                        | 2                     | 76                            | 160                                    | 0.013 | 38.00  | 0.48   | 1.000 | 0.99999 |
| 1263              | 2                    | 3.07                        | 2                     | 184                           | 1,217                                  | 0.002 | 92.00  | 0.15   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI   | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|---------|-------|-------|---------|
| 1271              | 1                    | 2.42                        | 1                     | 145                           | 988                                    | 0.001 | 145.00  | 0.15  | 1.000 | 0.99999 |
| 1273              | 4                    | 4.11                        | 52                    | 3,305                         | 871                                    | 0.060 | 63.56   | 3.79  | 1.020 | 0.99991 |
| 1284              | 1                    | 0.85                        | 84                    | 4,288                         | 955                                    | 0.088 | 51.05   | 4.49  | 1.000 | 0.99990 |
| 1312              | 2                    | 1.78                        | 21                    | 901                           | 977                                    | 0.021 | 42.90   | 0.92  | 1.050 | 0.99998 |
| 1451              | 3                    | 2.38                        | 6                     | 309                           | 556                                    | 0.011 | 51.50   | 0.56  | 1.000 | 0.99999 |
| 1452              | 4                    | 4.35                        | 4                     | 261                           | 462                                    | 0.009 | 65.25   | 0.56  | 1.333 | 0.99999 |
| 1454              | 2                    | 1.90                        | 2                     | 114                           | 950                                    | 0.002 | 57.00   | 0.12  | 1.000 | 0.99999 |
| 1455              | 2                    | 1.62                        | 11                    | 563                           | 416                                    | 0.026 | 51.18   | 1.35  | 1.000 | 0.99997 |
| 1521              | 1                    | 2.53                        | 1                     | 152                           | 388                                    | 0.003 | 152.00  | 0.39  | 1.000 | 0.99999 |
| 1522              | 1                    | 1.17                        | 29                    | 2,040                         | 107                                    | 0.271 | 70.34   | 19.07 | 1.000 | 0.99956 |
| 1523              | 2                    | 2.66                        | 37                    | 3,164                         | 763                                    | 0.048 | 85.51   | 4.15  | 1.000 | 0.99990 |
| 1842              | 2                    | 5.98                        | 9                     | 2,498                         | 298                                    | 0.030 | 277.56  | 8.38  | 1.125 | 0.99981 |
| 2091              | 2                    | 4.08                        | 20                    | 1,072                         | 923                                    | 0.022 | 53.60   | 1.16  | 1.053 | 0.99997 |
| 2092              | 1                    | 1.68                        | 1                     | 101                           | 953                                    | 0.001 | 101.00  | 0.11  | 1.000 | 0.99999 |
| 2171              | 2                    | 1.44                        | 8                     | 434                           | 593                                    | 0.013 | 54.25   | 0.73  | 1.143 | 0.99998 |
| 2172              | 1                    | 0.67                        | 1                     | 40                            | 247                                    | 0.004 | 40.00   | 0.16  | 1.000 | 0.99999 |
| 2211              | 2                    | 2.14                        | 83                    | 5,571                         | 742                                    | 0.112 | 67.12   | 7.51  | 1.000 | 0.99983 |
| 2212              | 2                    | 2.37                        | 10                    | 683                           | 1,384                                  | 0.007 | 68.30   | 0.49  | 1.000 | 0.99999 |
| 2501              | 1                    | 1.15                        | 84                    | 5,810                         | 84                                     | 1.000 | 69.17   | 69.17 | 1.000 | 0.99840 |
| 2511              | 3                    | 3.60                        | 8                     | 578                           | 626                                    | 0.013 | 72.25   | 0.92  | 1.000 | 0.99998 |
| 2621              | 5                    | 4.96                        | 16                    | 970                           | 1,212                                  | 0.013 | 60.63   | 0.80  | 1.067 | 0.99998 |
| 2921              | 2                    | 36.38                       | 2                     | 2,183                         | 396                                    | 0.005 | 1091.50 | 5.51  | 1.000 | 0.99987 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI   | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|---------|--------|-------|---------|
| 2951              | 2                    | 1.38                        | 86                    | 5,203                         | 1,256                                  | 0.068 | 60.50   | 4.14   | 1.012 | 0.99990 |
| 2961              | 2                    | 10.45                       | 25                    | 8,325                         | 656                                    | 0.038 | 333.00  | 12.69  | 1.000 | 0.99971 |
| 2962              | 6                    | 7.44                        | 38                    | 1,631                         | 263                                    | 0.144 | 42.92   | 6.20   | 1.000 | 0.99986 |
| 3041              | 1                    | 1.15                        | 87                    | 6,055                         | 87                                     | 1.000 | 69.60   | 69.60  | 1.000 | 0.99839 |
| 3122              | 3                    | 4.23                        | 8                     | 679                           | 891                                    | 0.009 | 84.88   | 0.76   | 1.000 | 0.99998 |
| 3181              | 2                    | 3.20                        | 30                    | 3,042                         | 767                                    | 0.039 | 101.40  | 3.97   | 1.034 | 0.99991 |
| 3221              | 1                    | 0.27                        | 1                     | 16                            | 1,289                                  | 0.001 | 16.00   | 0.01   | 1.000 | 0.99999 |
| 3222              | 2                    | 4.20                        | 2                     | 252                           | 801                                    | 0.002 | 126.00  | 0.31   | 1.000 | 0.99999 |
| 3232              | 1                    | 1.08                        | 2                     | 131                           | 450                                    | 0.004 | 65.50   | 0.29   | 1.000 | 0.99999 |
| 3313              | 1                    | 0.43                        | 1                     | 26                            | 1,525                                  | 0.001 | 26.00   | 0.02   | 1.000 | 0.99999 |
| 3421              | 2                    | 1.47                        | 308                   | 9,268                         | 307                                    | 1.003 | 30.09   | 30.19  | 1.003 | 0.99930 |
| 3422              | 2                    | 2.23                        | 1,019                 | 33,271                        | 1,018                                  | 1.001 | 32.65   | 32.68  | 1.001 | 0.99925 |
| 3423              | 1                    | 0.50                        | 404                   | 12,362                        | 404                                    | 1.000 | 30.60   | 30.60  | 1.000 | 0.99929 |
| 3472              | 2                    | 45.90                       | 2                     | 2,754                         | 1,327                                  | 0.002 | 1377.00 | 2.08   | 1.000 | 0.99995 |
| 3551              | 1                    | 1.38                        | 1                     | 83                            | 1,045                                  | 0.001 | 83.00   | 0.08   | 1.000 | 0.99999 |
| 3552              | 1                    | 0.92                        | 1                     | 55                            | 585                                    | 0.002 | 55.00   | 0.09   | 1.000 | 0.99999 |
| 3553              | 1                    | 0.67                        | 1                     | 40                            | 878                                    | 0.001 | 40.00   | 0.05   | 1.000 | 0.99999 |
| 3593              | 2                    | 8.73                        | 24                    | 6,292                         | 950                                    | 0.025 | 262.17  | 6.62   | 1.000 | 0.99985 |
| 3621              | 1                    | 2.20                        | 1                     | 132                           | 1,608                                  | 0.001 | 132.00  | 0.08   | 1.000 | 0.99999 |
| 3661              | 3                    | 3.68                        | 1,112                 | 114,344                       | 1,082                                  | 1.028 | 102.83  | 105.68 | 1.028 | 0.99755 |
| 3664              | 3                    | 4.57                        | 47                    | 5,471                         | 582                                    | 0.081 | 116.40  | 9.40   | 1.022 | 0.99978 |
| 3671              | 1                    | 0.82                        | 14                    | 689                           | 660                                    | 0.021 | 49.21   | 1.04   | 1.000 | 0.99998 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 3701              | 1                    | 1.47                        | 17                    | 1,496                         | 535                                    | 0.032 | 88.00  | 2.80  | 1.000 | 0.99994 |
| 3702              | 1                    | 1.53                        | 1                     | 92                            | 673                                    | 0.001 | 92.00  | 0.14  | 1.000 | 0.99999 |
| 3751              | 3                    | 8.12                        | 32                    | 6,887                         | 929                                    | 0.034 | 215.22 | 7.41  | 1.000 | 0.99983 |
| 3871              | 1                    | 0.47                        | 26                    | 728                           | 1,092                                  | 0.024 | 28.00  | 0.67  | 1.000 | 0.99998 |
| 3878              | 1                    | 1.03                        | 1                     | 62                            | 847                                    | 0.001 | 62.00  | 0.07  | 1.000 | 0.99999 |
| 3891              | 7                    | 7.32                        | 674                   | 45,018                        | 451                                    | 1.494 | 66.79  | 99.82 | 1.494 | 0.99769 |
| 3903              | 1                    | 0.93                        | 1                     | 56                            | 315                                    | 0.003 | 56.00  | 0.18  | 1.000 | 0.99999 |
| 3913              | 3                    | 3.01                        | 163                   | 13,149                        | 825                                    | 0.198 | 80.67  | 15.94 | 1.006 | 0.99963 |
| 3951              | 3                    | 2.98                        | 35                    | 1,904                         | 961                                    | 0.036 | 54.40  | 1.98  | 1.061 | 0.99995 |
| 3952              | 1                    | 0.63                        | 10                    | 385                           | 1,309                                  | 0.008 | 38.50  | 0.29  | 1.000 | 0.99999 |
| 3953              | 1                    | 2.42                        | 1                     | 145                           | 543                                    | 0.002 | 145.00 | 0.27  | 1.000 | 0.99999 |
| 3971              | 3                    | 3.28                        | 10                    | 561                           | 693                                    | 0.014 | 56.10  | 0.81  | 1.000 | 0.99998 |
| 3981              | 3                    | 3.10                        | 3                     | 186                           | 1,568                                  | 0.002 | 62.00  | 0.12  | 1.000 | 0.99999 |
| 3982              | 1                    | 0.63                        | 36                    | 1,354                         | 1,827                                  | 0.020 | 37.61  | 0.74  | 1.000 | 0.99998 |
| 3991              | 2                    | 3.60                        | 2                     | 216                           | 761                                    | 0.003 | 108.00 | 0.28  | 1.000 | 0.99999 |
| 3992              | 1                    | 1.05                        | 1                     | 63                            | 173                                    | 0.006 | 63.00  | 0.36  | 1.000 | 0.99999 |
| 403               | 1                    | 1.30                        | 11                    | 859                           | 270                                    | 0.041 | 78.09  | 3.18  | 1.000 | 0.99993 |
| 4091              | 4                    | 6.65                        | 1,236                 | 45,479                        | 1,206                                  | 1.025 | 36.80  | 37.71 | 1.039 | 0.99913 |
| 4092              | 2                    | 1.91                        | 469                   | 15,932                        | 458                                    | 1.024 | 33.97  | 34.79 | 1.024 | 0.99919 |
| 4131              | 1                    | 2.37                        | 19                    | 2,700                         | 205                                    | 0.093 | 142.11 | 13.17 | 1.000 | 0.99970 |
| 4134              | 1                    | 1.38                        | 1                     | 83                            | 1,278                                  | 0.001 | 83.00  | 0.06  | 1.000 | 0.99999 |
| 4137              | 1                    | 0.63                        | 8                     | 309                           | 817                                    | 0.010 | 38.63  | 0.38  | 1.000 | 0.99999 |



| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 4138              | 3                    | 2.60                        | 23                    | 947                           | 760                                    | 0.030 | 41.17  | 1.25  | 1.000 | 0.99997 |
| 4152              | 2                    | 3.05                        | 27                    | 2,516                         | 1,297                                  | 0.021 | 93.19  | 1.94  | 1.000 | 0.99996 |
| 4172              | 1                    | 0.52                        | 1                     | 31                            | 1,855                                  | 0.001 | 31.00  | 0.02  | 1.000 | 0.99999 |
| 4181              | 1                    | 1.40                        | 19                    | 1,610                         | 783                                    | 0.024 | 84.74  | 2.06  | 1.000 | 0.99995 |
| 4182              | 1                    | 2.00                        | 1                     | 120                           | 779                                    | 0.001 | 120.00 | 0.15  | 1.000 | 0.99999 |
| 4211              | 1                    | 3.07                        | 27                    | 4,990                         | 719                                    | 0.038 | 184.81 | 6.94  | 1.000 | 0.99984 |
| 4212              | 5                    | 3.33                        | 43                    | 1,735                         | 1,084                                  | 0.040 | 40.35  | 1.60  | 1.000 | 0.99996 |
| 4222              | 5                    | 2.99                        | 54                    | 1,713                         | 1,073                                  | 0.050 | 31.72  | 1.60  | 1.000 | 0.99996 |
| 4223              | 5                    | 3.35                        | 1,253                 | 51,856                        | 1,123                                  | 1.116 | 41.39  | 46.18 | 1.116 | 0.99893 |
| 4224              | 1                    | 9.42                        | 1                     | 565                           | 772                                    | 0.001 | 565.00 | 0.73  | 1.000 | 0.99998 |
| 4301              | 2                    | 2.13                        | 48                    | 3,103                         | 111                                    | 0.432 | 64.65  | 27.95 | 1.000 | 0.99935 |
| 4303              | 2                    | 1.98                        | 2                     | 119                           | 1,304                                  | 0.002 | 59.50  | 0.09  | 1.000 | 0.99999 |
| 4334              | 1                    | 0.83                        | 1                     | 50                            | 302                                    | 0.003 | 50.00  | 0.17  | 1.000 | 0.99999 |
| 4343              | 3                    | 3.58                        | 1,682                 | 135,206                       | 1,680                                  | 1.001 | 80.38  | 80.48 | 1.001 | 0.99814 |
| 4361              | 2                    | 1.35                        | 2                     | 81                            | 1,660                                  | 0.001 | 40.50  | 0.05  | 1.000 | 0.99999 |
| 4362              | 1                    | 0.95                        | 1                     | 57                            | 840                                    | 0.001 | 57.00  | 0.07  | 1.000 | 0.99999 |
| 4364              | 3                    | 12.61                       | 34                    | 1,870                         | 858                                    | 0.040 | 55.00  | 2.18  | 1.063 | 0.99995 |
| 4371              | 2                    | 3.70                        | 2                     | 222                           | 1,556                                  | 0.001 | 111.00 | 0.14  | 1.000 | 0.99999 |
| 4381              | 1                    | 2.10                        | 1                     | 126                           | 8                                      | 0.125 | 126.00 | 15.75 | 1.000 | 0.99964 |
| 4385              | 1                    | 2.85                        | 50                    | 8,561                         | 1,156                                  | 0.043 | 171.22 | 7.41  | 1.000 | 0.99983 |
| 4386              | 1                    | 0.65                        | 1                     | 39                            | 1,656                                  | 0.001 | 39.00  | 0.02  | 1.000 | 0.99999 |
| 4431              | 6                    | 8.68                        | 58                    | 5,874                         | 1,428                                  | 0.041 | 101.28 | 4.11  | 1.055 | 0.99990 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|-------|-------|-------|---------|
| 4476              | 2                    | 1.25                        | 914                   | 34,480                        | 457                                    | 2.000 | 37.72 | 75.45 | 2.000 | 0.99828 |
| 4511              | 4                    | 4.14                        | 129                   | 8,597                         | 1,146                                  | 0.113 | 66.64 | 7.50  | 1.049 | 0.99983 |
| 4602              | 2                    | 1.31                        | 68                    | 1,707                         | 978                                    | 0.070 | 25.10 | 1.75  | 1.000 | 0.99996 |
| 4712              | 1                    | 0.88                        | 1                     | 53                            | 129                                    | 0.008 | 53.00 | 0.41  | 1.000 | 0.99999 |
| 5601              | 4                    | 4.33                        | 11                    | 627                           | 1,297                                  | 0.008 | 57.00 | 0.48  | 1.000 | 0.99999 |
| 5603              | 9                    | 20.00                       | 192                   | 17,695                        | 1,484                                  | 0.129 | 92.16 | 11.92 | 1.027 | 0.99972 |
| 5901              | 1                    | 0.53                        | 1                     | 32                            | 827                                    | 0.001 | 32.00 | 0.04  | 1.000 | 0.99999 |
| 5902              | 2                    | 2.23                        | 108                   | 7,265                         | 967                                    | 0.112 | 67.27 | 7.51  | 2.000 | 0.99983 |
| 5903              | 1                    | 0.83                        | 1                     | 50                            | 281                                    | 0.004 | 50.00 | 0.18  | 1.000 | 0.99999 |
| 5905              | 4                    | 3.18                        | 102                   | 4,976                         | 1,941                                  | 0.053 | 48.78 | 2.56  | 1.378 | 0.99994 |
| 6021              | 2                    | 2.63                        | 72                    | 3,632                         | 1,364                                  | 0.053 | 50.44 | 2.66  | 1.000 | 0.99994 |
| 6023              | 1                    | 0.83                        | 1                     | 50                            | 130                                    | 0.008 | 50.00 | 0.38  | 1.000 | 0.99999 |
| 6141              | 1                    | 1.37                        | 1                     | 82                            | 651                                    | 0.002 | 82.00 | 0.13  | 1.000 | 0.99999 |
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI | SAIDI | CAIFI | ASAI    |
| Total:            | 244                  | 406.48                      | 14,714                | 971,325                       | 174,258                                | 0.084 | 66.01 | 5.57  | 1.075 | 0.99987 |

**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
5/1/2022 to 5/31/2022  
INCLUDING MAJOR EVENT DAYS

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1050              | 9                    | 18.89                       | 333                   | 21,342                        | 1,762                                  | 0.189 | 64.09  | 12.11  | 1.057 | 0.99973 |
| 1051              | 3                    | 3.74                        | 39                    | 2,375                         | 785                                    | 0.050 | 60.90  | 3.03   | 1.054 | 0.99993 |
| 1052              | 1                    | 1.35                        | 49                    | 3,943                         | 1,195                                  | 0.041 | 80.47  | 3.30   | 1.000 | 0.99993 |
| 1082              | 16                   | 51.80                       | 90                    | 23,713                        | 1,394                                  | 0.065 | 263.48 | 17.01  | 1.023 | 0.99962 |
| 1091              | 4                    | 8.03                        | 50                    | 10,520                        | 721                                    | 0.069 | 210.40 | 14.59  | 1.064 | 0.99967 |
| 1092              | 30                   | 21.47                       | 1,199                 | 137,738                       | 1090                                   | 1.100 | 114.88 | 126.37 | 1.100 | 0.99712 |
| 1093              | 2                    | 11.25                       | 3                     | 1,318                         | 232                                    | 0.013 | 439.33 | 5.68   | 1.500 | 0.99987 |
| 1094              | 4                    | 3.16                        | 11                    | 499                           | 1,255                                  | 0.009 | 45.36  | 0.40   | 1.000 | 0.99999 |
| 1101              | 1                    | 0.78                        | 14                    | 666                           | 847                                    | 0.017 | 47.57  | 0.79   | 1.000 | 0.99998 |
| 1102              | 2                    | 1.49                        | 38                    | 1,732                         | 1,084                                  | 0.035 | 45.58  | 1.60   | 1.000 | 0.99996 |
| 1103              | 7                    | 10.35                       | 129                   | 10,131                        | 1,008                                  | 0.128 | 78.53  | 10.05  | 1.358 | 0.99977 |
| 1211              | 4                    | 7.86                        | 4                     | 471                           | 1,506                                  | 0.003 | 117.75 | 0.31   | 1.000 | 0.99999 |
| 1230              | 5                    | 4.22                        | 182                   | 8,389                         | 1,232                                  | 0.148 | 46.09  | 6.81   | 1.017 | 0.99985 |
| 1233              | 3                    | 9.33                        | 721                   | 217,719                       | 719                                    | 1.003 | 301.97 | 302.81 | 1.003 | 0.99309 |
| 1241              | 4                    | 12.69                       | 108                   | 9,724                         | 890                                    | 0.121 | 90.04  | 10.93  | 2.204 | 0.99976 |
| 1243              | 3                    | 15.10                       | 13                    | 6,032                         | 1,247                                  | 0.010 | 464.00 | 4.84   | 1.000 | 0.99989 |
| 1263              | 2                    | 2.46                        | 2                     | 148                           | 1,217                                  | 0.002 | 74.00  | 0.12   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1271              | 2                    | 5.46                        | 267                   | 72,416                        | 988                                    | 0.270 | 271.22 | 73.30  | 1.004 | 0.99836 |
| 1273              | 6                    | 12.99                       | 52                    | 4,141                         | 871                                    | 0.060 | 79.63  | 4.75   | 1.000 | 0.99989 |
| 1284              | 3                    | 5.80                        | 31                    | 1,067                         | 955                                    | 0.032 | 34.42  | 1.12   | 1.033 | 0.99997 |
| 1311              | 1                    | 1.82                        | 1                     | 109                           | 284                                    | 0.004 | 109.00 | 0.38   | 1.000 | 0.99999 |
| 1312              | 1                    | 5.45                        | 9                     | 2,944                         | 977                                    | 0.009 | 327.11 | 3.01   | 1.000 | 0.99993 |
| 1451              | 2                    | 1.88                        | 36                    | 2,452                         | 556                                    | 0.065 | 68.11  | 4.41   | 1.000 | 0.99990 |
| 1452              | 1                    | 1.30                        | 1                     | 78                            | 462                                    | 0.002 | 78.00  | 0.17   | 1.000 | 0.99999 |
| 1453              | 7                    | 14.37                       | 63                    | 2,646                         | 1,826                                  | 0.035 | 42.00  | 1.45   | 1.000 | 0.99997 |
| 1454              | 1                    | 2.45                        | 1                     | 147                           | 950                                    | 0.001 | 147.00 | 0.15   | 1.000 | 0.99999 |
| 1521              | 1                    | 1.22                        | 1                     | 73                            | 388                                    | 0.003 | 73.00  | 0.19   | 1.000 | 0.99999 |
| 1522              | 5                    | 11.16                       | 36                    | 4,976                         | 107                                    | 0.336 | 138.22 | 46.50  | 1.059 | 0.99896 |
| 1523              | 3                    | 5.08                        | 14                    | 833                           | 763                                    | 0.018 | 59.50  | 1.09   | 1.167 | 0.99998 |
| 1842              | 11                   | 18.19                       | 58                    | 4,343                         | 298                                    | 0.195 | 74.88  | 14.57  | 1.018 | 0.99967 |
| 2051              | 4                    | 4.34                        | 431                   | 33,645                        | 210                                    | 2.052 | 78.06  | 160.21 | 2.052 | 0.99641 |
| 2091              | 3                    | 5.11                        | 7                     | 628                           | 923                                    | 0.008 | 89.71  | 0.68   | 1.000 | 0.99998 |
| 2092              | 1                    | 1.28                        | 1                     | 77                            | 953                                    | 0.001 | 77.00  | 0.08   | 1.000 | 0.99999 |
| 2211              | 4                    | 6.51                        | 41                    | 1,733                         | 742                                    | 0.055 | 42.27  | 2.34   | 1.139 | 0.99995 |
| 2212              | 3                    | 9.32                        | 58                    | 9,570                         | 1,384                                  | 0.042 | 165.00 | 6.91   | 1.036 | 0.99985 |
| 2491              | 1                    | 6.03                        | 1                     | 362                           | 63                                     | 0.016 | 362.00 | 5.75   | 1.000 | 0.99987 |
| 2511              | 4                    | 5.19                        | 32                    | 3,122                         | 626                                    | 0.051 | 97.56  | 4.99   | 1.000 | 0.99989 |
| 2621              | 10                   | 16.75                       | 21                    | 1,884                         | 1,212                                  | 0.017 | 89.71  | 1.55   | 1.050 | 0.99997 |
| 2921              | 1                    | 0.70                        | 1                     | 42                            | 396                                    | 0.003 | 42.00  | 0.11   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 2951              | 3                    | 4.80                        | 31                    | 3,813                         | 1,256                                  | 0.025 | 123.00 | 3.04   | 1.033 | 0.99993 |
| 2952              | 2                    | 4.53                        | 17                    | 2,325                         | 379                                    | 0.045 | 136.76 | 6.13   | 1.063 | 0.99986 |
| 2961              | 6                    | 15.57                       | 69                    | 17,231                        | 656                                    | 0.105 | 249.72 | 26.27  | 1.000 | 0.99941 |
| 3121              | 5                    | 15.39                       | 58                    | 14,800                        | 1,156                                  | 0.050 | 255.17 | 12.80  | 1.018 | 0.99971 |
| 3122              | 17                   | 21.66                       | 993                   | 194,429                       | 891                                    | 1.114 | 195.80 | 218.21 | 1.599 | 0.99511 |
| 3123              | 6                    | 26.66                       | 65                    | 19,336                        | 1,132                                  | 0.057 | 297.48 | 17.08  | 1.161 | 0.99962 |
| 3181              | 1                    | 0.50                        | 1                     | 30                            | 767                                    | 0.001 | 30.00  | 0.04   | 1.000 | 0.99999 |
| 3221              | 3                    | 2.53                        | 38                    | 1,863                         | 1,289                                  | 0.029 | 49.03  | 1.45   | 1.000 | 0.99997 |
| 3222              | 2                    | 2.87                        | 24                    | 2,445                         | 801                                    | 0.030 | 101.88 | 3.05   | 1.043 | 0.99993 |
| 3231              | 1                    | 1.38                        | 20                    | 1,660                         | 216                                    | 0.093 | 83.00  | 7.69   | 1.000 | 0.99983 |
| 3301              | 2                    | 3.96                        | 772                   | 30,063                        | 772                                    | 1.000 | 38.94  | 38.94  | 1.001 | 0.99913 |
| 3303              | 3                    | 3.48                        | 126                   | 7,979                         | 1,792                                  | 0.070 | 63.33  | 4.45   | 1.008 | 0.99990 |
| 3304              | 3                    | 3.67                        | 20                    | 1,758                         | 1,178                                  | 0.017 | 87.90  | 1.49   | 1.111 | 0.99997 |
| 3314              | 1                    | 1.63                        | 7                     | 691                           | 227                                    | 0.031 | 98.71  | 3.04   | 1.000 | 0.99993 |
| 3315              | 6                    | 14.74                       | 86                    | 17,235                        | 1,620                                  | 0.053 | 200.41 | 10.64  | 1.000 | 0.99976 |
| 3422              | 1                    | 0.83                        | 1                     | 50                            | 1,002                                  | 0.001 | 50.00  | 0.05   | 1.000 | 0.99999 |
| 3423              | 1                    | 0.58                        | 1                     | 35                            | 404                                    | 0.002 | 35.00  | 0.09   | 1.000 | 0.99999 |
| 3471              | 1                    | 0.57                        | 1                     | 34                            | 496                                    | 0.002 | 34.00  | 0.07   | 1.000 | 0.99999 |
| 3472              | 12                   | 17.07                       | 1,441                 | 336,151                       | 1,327                                  | 1.086 | 233.28 | 253.32 | 1.086 | 0.99433 |
| 3551              | 1                    | 1.12                        | 8                     | 541                           | 1,045                                  | 0.008 | 67.63  | 0.52   | 1.000 | 0.99999 |
| 3552              | 1                    | 1.40                        | 1                     | 84                            | 585                                    | 0.002 | 84.00  | 0.14   | 1.000 | 0.99999 |
| 3553              | 1                    | 1.65                        | 1                     | 99                            | 878                                    | 0.001 | 99.00  | 0.11   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 3592              | 5                    | 9.27                        | 35                    | 3,903                         | 1,808                                  | 0.019 | 111.51 | 2.16  | 1.029 | 0.99995 |
| 3621              | 6                    | 9.74                        | 1,857                 | 67,856                        | 1,608                                  | 1.155 | 36.54  | 42.20 | 1.155 | 0.99905 |
| 3662              | 3                    | 3.12                        | 27                    | 1,160                         | 892                                    | 0.030 | 42.96  | 1.30  | 1.080 | 0.99997 |
| 3663              | 2                    | 3.93                        | 2                     | 236                           | 312                                    | 0.006 | 118.00 | 0.76  | 1.000 | 0.99998 |
| 3664              | 3                    | 7.91                        | 3                     | 475                           | 582                                    | 0.005 | 158.33 | 0.82  | 1.000 | 0.99998 |
| 3671              | 1                    | 2.52                        | 1                     | 151                           | 660                                    | 0.002 | 151.00 | 0.23  | 1.000 | 0.99999 |
| 3701              | 10                   | 11.09                       | 10                    | 665                           | 535                                    | 0.019 | 66.50  | 1.24  | 1.111 | 0.99997 |
| 3751              | 1                    | 2.63                        | 1                     | 158                           | 929                                    | 0.001 | 158.00 | 0.17  | 1.000 | 0.99999 |
| 3871              | 1                    | 0.30                        | 1                     | 18                            | 1,092                                  | 0.001 | 18.00  | 0.02  | 1.000 | 0.99999 |
| 3872              | 3                    | 12.85                       | 27                    | 3,696                         | 1,180                                  | 0.023 | 136.89 | 3.13  | 1.000 | 0.99993 |
| 3873              | 1                    | 1.58                        | 1                     | 95                            | 815                                    | 0.001 | 95.00  | 0.12  | 1.000 | 0.99999 |
| 3878              | 3                    | 1.93                        | 48                    | 1,528                         | 847                                    | 0.057 | 31.83  | 1.80  | 1.000 | 0.99996 |
| 3891              | 1                    | 0.77                        | 1                     | 46                            | 451                                    | 0.002 | 46.00  | 0.10  | 1.000 | 0.99999 |
| 3892              | 1                    | 1.73                        | 1                     | 104                           | 541                                    | 0.002 | 104.00 | 0.19  | 1.000 | 0.99999 |
| 3893              | 6                    | 9.48                        | 8                     | 897                           | 1,171                                  | 0.007 | 112.13 | 0.77  | 1.000 | 0.99998 |
| 3894              | 1                    | 7.85                        | 3                     | 1,415                         | 160                                    | 0.019 | 471.67 | 8.84  | 1.000 | 0.99980 |
| 3901              | 3                    | 5.20                        | 44                    | 7,088                         | 884                                    | 0.050 | 161.09 | 8.02  | 1.000 | 0.99982 |
| 3903              | 2                    | 2.53                        | 2                     | 152                           | 315                                    | 0.006 | 76.00  | 0.48  | 1.000 | 0.99999 |
| 3913              | 2                    | 1.15                        | 2                     | 69                            | 825                                    | 0.002 | 34.50  | 0.08  | 1.000 | 0.99999 |
| 3951              | 4                    | 4.14                        | 10                    | 532                           | 961                                    | 0.010 | 53.20  | 0.55  | 1.000 | 0.99999 |
| 3952              | 5                    | 7.25                        | 88                    | 4,602                         | 1,309                                  | 0.067 | 52.30  | 3.52  | 1.000 | 0.99992 |
| 3953              | 2                    | 6.08                        | 2                     | 365                           | 543                                    | 0.004 | 182.50 | 0.67  | 1.000 | 0.99998 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 3971              | 8                    | 21.73                       | 13                    | 2,996                         | 693                                    | 0.019 | 230.46 | 4.32  | 1.000 | 0.99990 |
| 3981              | 6                    | 7.90                        | 735                   | 32,313                        | 1,568                                  | 0.469 | 43.96  | 20.61 | 1.005 | 0.99954 |
| 3982              | 4                    | 4.69                        | 119                   | 12,637                        | 1,827                                  | 0.065 | 106.19 | 6.92  | 1.017 | 0.99985 |
| 3991              | 5                    | 13.31                       | 67                    | 20,788                        | 761                                    | 0.088 | 310.27 | 27.32 | 1.031 | 0.99939 |
| 4031              | 2                    | 12.33                       | 2                     | 740                           | 714                                    | 0.003 | 370.00 | 1.04  | 1.000 | 0.99998 |
| 4091              | 2                    | 6.14                        | 78                    | 13,794                        | 1,206                                  | 0.065 | 176.85 | 11.44 | 1.026 | 0.99974 |
| 4092              | 1                    | 2.98                        | 1                     | 179                           | 458                                    | 0.002 | 179.00 | 0.39  | 1.000 | 0.99999 |
| 4101              | 3                    | 12.00                       | 167                   | 57,096                        | 981                                    | 0.170 | 341.89 | 58.20 | 1.025 | 0.99870 |
| 4134              | 2                    | 2.58                        | 1,280                 | 73,851                        | 1,278                                  | 1.002 | 57.70  | 57.79 | 1.002 | 0.99871 |
| 4138              | 3                    | 2.75                        | 24                    | 1,225                         | 760                                    | 0.032 | 51.04  | 1.61  | 1.000 | 0.99996 |
| 4142              | 1                    | 3.75                        | 10                    | 2,253                         | 621                                    | 0.016 | 225.30 | 3.63  | 1.000 | 0.99992 |
| 4152              | 3                    | 7.12                        | 37                    | 4,198                         | 1,297                                  | 0.029 | 113.46 | 3.24  | 1.057 | 0.99993 |
| 4153              | 4                    | 8.18                        | 5                     | 698                           | 1,133                                  | 0.004 | 139.60 | 0.62  | 1.000 | 0.99999 |
| 4154              | 2                    | 1.55                        | 21                    | 911                           | 1,366                                  | 0.015 | 43.38  | 0.67  | 1.235 | 0.99999 |
| 4155              | 2                    | 2.08                        | 2                     | 125                           | 1,683                                  | 0.001 | 62.50  | 0.07  | 1.000 | 0.99999 |
| 4171              | 5                    | 7.93                        | 46                    | 8,424                         | 1,186                                  | 0.039 | 183.13 | 7.10  | 1.000 | 0.99984 |
| 4172              | 19                   | 24.09                       | 30                    | 2,532                         | 1,855                                  | 0.016 | 84.40  | 1.36  | 1.034 | 0.99997 |
| 4173              | 2                    | 1.38                        | 41                    | 1,632                         | 691                                    | 0.059 | 39.80  | 2.36  | 1.025 | 0.99995 |
| 4181              | 2                    | 2.91                        | 20                    | 1,453                         | 783                                    | 0.026 | 72.65  | 1.86  | 1.000 | 0.99996 |
| 4182              | 4                    | 6.05                        | 12                    | 1,048                         | 779                                    | 0.015 | 87.33  | 1.35  | 1.000 | 0.99997 |
| 4212              | 2                    | 1.89                        | 47                    | 2,948                         | 1,084                                  | 0.043 | 62.72  | 2.72  | 1.000 | 0.99994 |
| 4222              | 7                    | 14.48                       | 35                    | 3,088                         | 1,073                                  | 0.033 | 88.23  | 2.88  | 1.029 | 0.99994 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI   | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|---------|-------|---------|
| 4223              | 3                    | 3.82                        | 1,145                 | 184,379                       | 1,123                                  | 1.020 | 161.03 | 164.18  | 1.020 | 0.99632 |
| 4224              | 4                    | 4.17                        | 38                    | 3,045                         | 772                                    | 0.049 | 80.13  | 3.94    | 1.000 | 0.99991 |
| 4302              | 2                    | 6.06                        | 79                    | 12,322                        | 662                                    | 0.119 | 155.97 | 18.61   | 1.013 | 0.99958 |
| 4303              | 2                    | 8.32                        | 8                     | 3,397                         | 1,304                                  | 0.006 | 424.63 | 2.61    | 1.000 | 0.99994 |
| 4311              | 1                    | 1.58                        | 3                     | 286                           | 748                                    | 0.004 | 95.33  | 0.38    | 1.000 | 0.99999 |
| 4313              | 2                    | 3.90                        | 321                   | 39,759                        | 558                                    | 0.575 | 123.86 | 71.25   | 1.003 | 0.99840 |
| 4321              | 1                    | 0.72                        | 1                     | 43                            | 182                                    | 0.005 | 43.00  | 0.24    | 1.000 | 0.99999 |
| 4331              | 1                    | 1.73                        | 2                     | 209                           | 332                                    | 0.006 | 104.50 | 0.63    | 1.000 | 0.99999 |
| 4334              | 1                    | 1.10                        | 1                     | 66                            | 302                                    | 0.003 | 66.00  | 0.22    | 1.000 | 0.99999 |
| 4341              | 4                    | 5.14                        | 146                   | 7,848                         | 1,825                                  | 0.080 | 53.75  | 4.30    | 1.090 | 0.99990 |
| 4342              | 2                    | 5.33                        | 48                    | 6,204                         | 837                                    | 0.057 | 129.25 | 7.41    | 1.000 | 0.99983 |
| 4343              | 5                    | 7.32                        | 28                    | 1,622                         | 1,680                                  | 0.017 | 57.93  | 0.97    | 1.077 | 0.99998 |
| 4361              | 2                    | 9.88                        | 29                    | 11,262                        | 1,660                                  | 0.017 | 388.34 | 6.78    | 1.318 | 0.99985 |
| 4362              | 1                    | 0.82                        | 69                    | 3,413                         | 840                                    | 0.082 | 49.46  | 4.06    | 1.000 | 0.99991 |
| 4363              | 1                    | 0.85                        | 48                    | 2,451                         | 703                                    | 0.068 | 51.06  | 3.49    | 1.000 | 0.99992 |
| 4364              | 22                   | 77.48                       | 249                   | 48,922                        | 858                                    | 0.290 | 196.47 | 57.02   | 1.000 | 0.99872 |
| 4371              | 3                    | 3.46                        | 19                    | 2,224                         | 1,556                                  | 0.012 | 117.05 | 1.43    | 1.056 | 0.99997 |
| 4372              | 4                    | 5.95                        | 33                    | 1,477                         | 431                                    | 0.077 | 44.76  | 3.43    | 1.065 | 0.99992 |
| 4373              | 2                    | 2.23                        | 2                     | 134                           | 769                                    | 0.003 | 67.00  | 0.17    | 1.000 | 0.99999 |
| 4431              | 4                    | 14.28                       | 88                    | 16,183                        | 1,428                                  | 0.062 | 183.90 | 11.33   | 1.000 | 0.99975 |
| 4432              | 5                    | 7.21                        | 68                    | 6,063                         | 482                                    | 0.141 | 89.16  | 12.58   | 1.063 | 0.99972 |
| 4476              | 1                    | 2.15                        | 457                   | 59,288                        | 457                                    | 1.000 | 129.73 | 129.733 | 1.000 | 0.99998 |



| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 4511              | 2                    | 2.77                        | 1,147                 | 127,604                       | 1,146                                  | 1.001 | 111.25 | 111.35 | 1.001 | 0.99751 |
| 455               | 1                    | 0.48                        | 1                     | 29                            | 170                                    | 0.006 | 29.00  | 0.17   | 1.000 | 0.99999 |
| 457               | 2                    | 9.41                        | 25                    | 10,483                        | 179                                    | 0.140 | 419.32 | 58.56  | 1.000 | 0.99869 |
| 4602              | 4                    | 4.45                        | 24                    | 1,950                         | 978                                    | 0.025 | 81.25  | 1.99   | 1.000 | 0.99996 |
| 4692              | 2                    | 4.12                        | 12                    | 1,185                         | 488                                    | 0.025 | 98.75  | 2.43   | 1.091 | 0.99995 |
| 4712              | 2                    | 7.12                        | 2                     | 427                           | 129                                    | 0.016 | 213.50 | 3.31   | 1.000 | 0.99993 |
| 4714              | 3                    | 5.60                        | 38                    | 4,969                         | 349                                    | 0.109 | 130.76 | 14.24  | 1.027 | 0.99968 |
| 4791              | 3                    | 3.25                        | 3                     | 195                           | 627                                    | 0.005 | 65.00  | 0.31   | 1.000 | 0.99999 |
| 4891              | 1                    | 1.57                        | 1                     | 94                            | 593                                    | 0.002 | 94.00  | 0.16   | 1.000 | 0.99999 |
| 5601              | 5                    | 9.63                        | 15                    | 1,374                         | 1,297                                  | 0.012 | 91.60  | 1.06   | 1.000 | 0.99998 |
| 5602              | 2                    | 3.84                        | 2                     | 230                           | 715                                    | 0.003 | 115.00 | 0.32   | 1.000 | 0.99999 |
| 5603              | 3                    | 4.42                        | 52                    | 4,444                         | 1,484                                  | 0.035 | 85.46  | 2.99   | 1.000 | 0.99993 |
| 5901              | 1                    | 1.52                        | 53                    | 4,823                         | 827                                    | 0.064 | 91.00  | 5.83   | 1.000 | 0.99987 |
| 5902              | 2                    | 1.37                        | 55                    | 3,748                         | 967                                    | 0.057 | 68.15  | 3.88   | 1.019 | 0.99991 |
| 5905              | 8                    | 16.39                       | 96                    | 14,291                        | 1,941                                  | 0.049 | 148.86 | 7.36   | 1.000 | 0.99984 |
| 6021              | 3                    | 4.31                        | 7                     | 939                           | 1,364                                  | 0.005 | 134.14 | 0.69   | 1.000 | 0.99998 |
| 6141              | 1                    | 0.73                        | 1                     | 44                            | 651                                    | 0.002 | 44.00  | 0.07   | 1.000 | 0.99999 |
| 6143              | 1                    | 1.05                        | 1                     | 63                            | 376                                    | 0.003 | 63.00  | 0.17   | 1.000 | 0.99999 |
| 6393              | 1                    | 1.85                        | 1                     | 111                           | 2                                      | 0.500 | 111.00 | 55.50  | 1.000 | 0.99876 |
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
| Total:            | 529                  | 1,011.21                    | 17,313                | 2,184,140                     | 174,258                                | 0.099 | 126.16 | 12.53  | 1.080 | 0.99972 |

**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
6/1/2022 to 6/30/2022  
INCLUDING MAJOR EVENT DAYS

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 1050              | 4                    | 3.75                        | 66                    | 3,349                         | 1,762                                  | 0.037 | 50.74  | 1.90  | 1.015 | 0.99996 |
| 1051              | 2                    | 1.70                        | 20                    | 1,262                         | 785                                    | 0.025 | 63.10  | 1.61  | 1.053 | 0.99996 |
| 1082              | 7                    | 9.53                        | 284                   | 26,773                        | 1,394                                  | 0.204 | 94.27  | 19.21 | 1.060 | 0.99956 |
| 1091              | 13                   | 12.06                       | 38                    | 1,517                         | 721                                    | 0.053 | 39.92  | 2.10  | 1.056 | 0.99995 |
| 1093              | 3                    | 3.12                        | 6                     | 387                           | 232                                    | 0.026 | 64.50  | 1.67  | 1.000 | 0.99996 |
| 1094              | 9                    | 6.86                        | 61                    | 2,257                         | 1,255                                  | 0.049 | 37.00  | 1.80  | 1.017 | 0.99996 |
| 1102              | 4                    | 3.94                        | 140                   | 10,289                        | 1,084                                  | 0.129 | 73.49  | 9.49  | 1.000 | 0.99978 |
| 1103              | 4                    | 1.12                        | 24                    | 269                           | 1,008                                  | 0.024 | 11.21  | 0.27  | 1.043 | 0.99999 |
| 1104              | 1                    | 4.37                        | 3                     | 787                           | 191                                    | 0.016 | 262.33 | 4.12  | 1.000 | 0.99990 |
| 1142              | 1                    | 1.22                        | 19                    | 1,387                         | 157                                    | 0.121 | 73.00  | 8.83  | 1.000 | 0.99980 |
| 1211              | 3                    | 1.69                        | 20                    | 810                           | 1,506                                  | 0.013 | 40.50  | 0.54  | 1.000 | 0.99999 |
| 1212              | 1                    | 1.55                        | 1                     | 93                            | 343                                    | 0.003 | 93.00  | 0.27  | 1.000 | 0.99999 |
| 1213              | 5                    | 4.80                        | 130                   | 5,314                         | 576                                    | 0.226 | 40.88  | 9.23  | 1.066 | 0.99979 |
| 1230              | 2                    | 0.97                        | 42                    | 1,155                         | 1,232                                  | 0.034 | 27.50  | 0.94  | 1.000 | 0.99998 |
| 1232              | 2                    | 1.65                        | 3                     | 153                           | 1,209                                  | 0.002 | 51.00  | 0.13  | 1.000 | 0.99999 |
| 1233              | 2                    | 2.30                        | 8                     | 677                           | 649                                    | 0.012 | 84.63  | 1.04  | 1.000 | 0.99998 |
| 1241              | 1                    | 1.63                        | 1                     | 98                            | 890                                    | 0.001 | 98.00  | 0.11  | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1242              | 1                    | 0.92                        | 22                    | 1,216                         | 858                                    | 0.026 | 55.27  | 1.42   | 1.000 | 0.99997 |
| 1243              | 4                    | 11.35                       | 85                    | 12,731                        | 1,247                                  | 0.068 | 149.78 | 10.21  | 1.037 | 0.99976 |
| 1264              | 1                    | 1.70                        | 425                   | 43,682                        | 425                                    | 1.000 | 102.78 | 102.78 | 1.000 | 0.99765 |
| 1265              | 1                    | 1.75                        | 1                     | 105                           | 1,306                                  | 0.001 | 105.00 | 0.08   | 1.000 | 0.99999 |
| 1271              | 1                    | 1.18                        | 1                     | 71                            | 988                                    | 0.001 | 71.00  | 0.07   | 1.000 | 0.99999 |
| 1273              | 5                    | 3.13                        | 21                    | 1,261                         | 871                                    | 0.024 | 60.05  | 1.45   | 1.050 | 0.99997 |
| 1284              | 5                    | 19.17                       | 22                    | 2,306                         | 955                                    | 0.023 | 104.82 | 2.41   | 1.000 | 0.99994 |
| 1312              | 8                    | 13.80                       | 1,050                 | 116,455                       | 977                                    | 1.075 | 110.91 | 119.20 | 1.167 | 0.99724 |
| 1451              | 1                    | 1.30                        | 4                     | 314                           | 556                                    | 0.007 | 78.50  | 0.56   | 1.000 | 0.99999 |
| 1452              | 2                    | 1.30                        | 21                    | 762                           | 462                                    | 0.045 | 36.29  | 1.65   | 1.050 | 0.99996 |
| 1453              | 5                    | 4.45                        | 256                   | 18,708                        | 1,826                                  | 0.140 | 73.08  | 10.25  | 1.016 | 0.99976 |
| 1454              | 1                    | 1.82                        | 1                     | 109                           | 950                                    | 0.001 | 109.00 | 0.11   | 1.000 | 0.99999 |
| 1455              | 1                    | 1.02                        | 1                     | 61                            | 416                                    | 0.002 | 61.00  | 0.15   | 1.000 | 0.99999 |
| 1523              | 5                    | 4.64                        | 147                   | 10,860                        | 763                                    | 0.193 | 73.88  | 14.23  | 1.089 | 0.99967 |
| 1842              | 1                    | 1.07                        | 11                    | 706                           | 298                                    | 0.037 | 64.18  | 2.37   | 1.000 | 0.99995 |
| 2091              | 9                    | 30.16                       | 95                    | 22,061                        | 923                                    | 0.103 | 232.22 | 23.90  | 1.056 | 0.99945 |
| 2092              | 3                    | 7.93                        | 3                     | 476                           | 953                                    | 0.003 | 158.67 | 0.50   | 1.000 | 0.99999 |
| 2171              | 2                    | 1.60                        | 2                     | 96                            | 593                                    | 0.003 | 48.00  | 0.16   | 1.000 | 0.99999 |
| 2211              | 5                    | 6.05                        | 120                   | 7,833                         | 742                                    | 0.162 | 65.28  | 10.56  | 1.034 | 0.99976 |
| 2212              | 8                    | 9.18                        | 203                   | 12,720                        | 1,384                                  | 0.147 | 62.66  | 9.19   | 1.015 | 0.99979 |
| 2621              | 4                    | 8.15                        | 65                    | 4,006                         | 1,212                                  | 0.054 | 61.63  | 3.31   | 1.016 | 0.99992 |
| 2921              | 2                    | 2.10                        | 11                    | 951                           | 396                                    | 0.028 | 86.45  | 2.40   | 1.100 | 0.99994 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 2951              | 2                    | 5.01                        | 48                    | 4,570                         | 1,256                                  | 0.038 | 95.21  | 3.64   | 1.021 | 0.99992 |
| 2952              | 1                    | 1.27                        | 1                     | 76                            | 379                                    | 0.003 | 76.00  | 0.20   | 1.000 | 0.99999 |
| 2961              | 11                   | 15.34                       | 1,347                 | 123,700                       | 1,218                                  | 1.106 | 91.83  | 101.56 | 1.106 | 0.99768 |
| 3122              | 3                    | 2.54                        | 98                    | 5,991                         | 891                                    | 0.110 | 61.13  | 6.72   | 1.000 | 0.99984 |
| 3123              | 3                    | 3.55                        | 9                     | 448                           | 1,132                                  | 0.008 | 49.78  | 0.40   | 1.000 | 0.99999 |
| 3181              | 5                    | 24.74                       | 100                   | 23,221                        | 767                                    | 0.130 | 232.21 | 30.28  | 1.538 | 0.99930 |
| 3221              | 2                    | 2.27                        | 15                    | 1,172                         | 1,289                                  | 0.012 | 78.13  | 0.91   | 1.071 | 0.99998 |
| 3222              | 1                    | 1.55                        | 6                     | 558                           | 801                                    | 0.007 | 93.00  | 0.70   | 1.000 | 0.99998 |
| 3231              | 6                    | 14.57                       | 97                    | 10,375                        | 216                                    | 0.449 | 106.96 | 48.03  | 1.102 | 0.99889 |
| 3232              | 1                    | 2.75                        | 19                    | 3,145                         | 450                                    | 0.042 | 165.53 | 6.99   | 1.000 | 0.99984 |
| 3301              | 3                    | 3.44                        | 5                     | 350                           | 772                                    | 0.006 | 70.00  | 0.45   | 1.000 | 0.99999 |
| 3303              | 3                    | 2.93                        | 143                   | 7,256                         | 1,792                                  | 0.080 | 50.74  | 4.05   | 1.000 | 0.99991 |
| 3304              | 7                    | 8.30                        | 137                   | 10,985                        | 1,178                                  | 0.116 | 80.18  | 9.33   | 1.007 | 0.99978 |
| 3305              | 1                    | 1.30                        | 1                     | 78                            | 18                                     | 0.056 | 78.00  | 4.33   | 1.000 | 0.99990 |
| 3313              | 1                    | 3.33                        | 1                     | 200                           | 1,525                                  | 0.001 | 200.00 | 0.13   | 1.000 | 0.99999 |
| 3315              | 2                    | 2.19                        | 35                    | 2,274                         | 1,620                                  | 0.022 | 64.97  | 1.40   | 1.000 | 0.99997 |
| 3471              | 2                    | 1.27                        | 19                    | 748                           | 496                                    | 0.038 | 39.37  | 1.51   | 1.056 | 0.99997 |
| 3472              | 4                    | 3.00                        | 35                    | 1,285                         | 1,327                                  | 0.026 | 36.71  | 0.97   | 1.061 | 0.99998 |
| 3551              | 1                    | 4.02                        | 27                    | 6,511                         | 1,045                                  | 0.026 | 241.15 | 6.23   | 1.000 | 0.99986 |
| 3552              | 1                    | 7.83                        | 11                    | 5,171                         | 585                                    | 0.019 | 470.09 | 8.84   | 1.000 | 0.99980 |
| 3553              | 3                    | 9.02                        | 19                    | 1,925                         | 878                                    | 0.022 | 101.32 | 2.19   | 1.118 | 0.99995 |
| 3591              | 4                    | 13.12                       | 55                    | 15,873                        | 1,560                                  | 0.035 | 288.60 | 10.18  | 1.000 | 0.99976 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 3592              | 3                    | 3.60                        | 20                    | 1,556                         | 1,808                                  | 0.011 | 77.80  | 0.86   | 1.053 | 0.99998 |
| 3593              | 1                    | 1.23                        | 45                    | 3,336                         | 950                                    | 0.047 | 74.13  | 3.51   | 1.000 | 0.99992 |
| 3594              | 1                    | 1.13                        | 189                   | 13,031                        | 789                                    | 0.240 | 68.95  | 16.52  | 1.000 | 0.99962 |
| 3621              | 5                    | 6.01                        | 29                    | 2,060                         | 1,608                                  | 0.018 | 71.03  | 1.28   | 1.074 | 0.99997 |
| 3661              | 6                    | 4.56                        | 1,301                 | 103,596                       | 1,082                                  | 1.202 | 79.63  | 95.74  | 1.202 | 0.99778 |
| 3662              | 4                    | 5.17                        | 900                   | 78,927                        | 892                                    | 1.009 | 87.70  | 88.48  | 1.009 | 0.99795 |
| 3663              | 7                    | 7.18                        | 322                   | 27,654                        | 312                                    | 1.032 | 85.88  | 88.63  | 1.032 | 0.99795 |
| 3664              | 4                    | 3.82                        | 599                   | 52,176                        | 582                                    | 1.029 | 87.11  | 89.65  | 1.029 | 0.99792 |
| 3692              | 2                    | 1.27                        | 2                     | 76                            | 417                                    | 0.005 | 38.00  | 0.18   | 1.000 | 0.99999 |
| 3701              | 7                    | 4.58                        | 15                    | 660                           | 535                                    | 0.028 | 44.00  | 1.23   | 1.250 | 0.99997 |
| 3702              | 1                    | 0.60                        | 15                    | 545                           | 673                                    | 0.022 | 36.33  | 0.81   | 1.000 | 0.99998 |
| 3751              | 5                    | 4.89                        | 982                   | 32,496                        | 929                                    | 1.057 | 33.09  | 34.98  | 1.057 | 0.99919 |
| 3872              | 2                    | 1.75                        | 12                    | 366                           | 1,180                                  | 0.010 | 30.50  | 0.31   | 1.000 | 0.99999 |
| 3878              | 2                    | 2.49                        | 45                    | 2,477                         | 847                                    | 0.053 | 55.04  | 2.92   | 1.071 | 0.99993 |
| 3891              | 6                    | 5.07                        | 6                     | 305                           | 451                                    | 0.013 | 50.83  | 0.68   | 1.000 | 0.99998 |
| 3892              | 2                    | 2.61                        | 536                   | 60,570                        | 541                                    | 0.991 | 113.00 | 111.96 | 1.002 | 0.99741 |
| 3893              | 3                    | 4.62                        | 3                     | 277                           | 1,171                                  | 0.003 | 92.33  | 0.24   | 1.000 | 0.99999 |
| 3901              | 4                    | 3.83                        | 57                    | 3,466                         | 884                                    | 0.064 | 60.81  | 3.92   | 1.000 | 0.99991 |
| 3903              | 3                    | 4.14                        | 125                   | 10,402                        | 315                                    | 0.397 | 83.22  | 33.02  | 1.106 | 0.99924 |
| 3912              | 10                   | 26.76                       | 183                   | 15,795                        | 1,366                                  | 0.134 | 86.31  | 11.56  | 1.046 | 0.99973 |
| 3913              | 1                    | 0.52                        | 12                    | 375                           | 825                                    | 0.015 | 31.25  | 0.45   | 1.000 | 0.99999 |
| 3914              | 1                    | 0.82                        | 1                     | 49                            | 396                                    | 0.003 | 49.00  | 0.12   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 3951              | 1                    | 0.77                        | 26                    | 1,204                         | 961                                    | 0.027 | 46.31  | 1.25   | 1.000 | 0.99997 |
| 3952              | 3                    | 2.77                        | 311                   | 22,684                        | 1,309                                  | 0.238 | 72.94  | 17.33  | 1.020 | 0.99960 |
| 3953              | 8                    | 7.51                        | 608                   | 60,511                        | 543                                    | 1.120 | 99.52  | 111.44 | 1.120 | 0.99742 |
| 3971              | 2                    | 2.49                        | 25                    | 1,484                         | 693                                    | 0.036 | 59.36  | 2.14   | 1.000 | 0.99995 |
| 3981              | 4                    | 4.07                        | 14                    | 932                           | 1,568                                  | 0.009 | 66.57  | 0.59   | 1.167 | 0.99999 |
| 3982              | 3                    | 2.30                        | 73                    | 4,187                         | 1,827                                  | 0.040 | 57.36  | 2.29   | 1.000 | 0.99995 |
| 3991              | 4                    | 4.05                        | 7                     | 445                           | 761                                    | 0.009 | 63.57  | 0.58   | 1.000 | 0.99999 |
| 4031              | 3                    | 8.71                        | 23                    | 4,848                         | 714                                    | 0.032 | 210.78 | 6.79   | 1.000 | 0.99984 |
| 4091              | 2                    | 6.17                        | 20                    | 3,401                         | 1,206                                  | 0.017 | 170.05 | 2.82   | 1.000 | 0.99993 |
| 4092              | 2                    | 2.08                        | 20                    | 1,277                         | 458                                    | 0.044 | 63.85  | 2.79   | 1.053 | 0.99994 |
| 4101              | 4                    | 3.45                        | 1,066                 | 122,760                       | 981                                    | 1.087 | 115.16 | 125.14 | 1.087 | 0.99710 |
| 4102              | 1                    | 2.00                        | 4                     | 480                           | 539                                    | 0.007 | 120.00 | 0.89   | 1.000 | 0.99998 |
| 4131              | 2                    | 2.80                        | 5                     | 417                           | 205                                    | 0.024 | 83.40  | 2.03   | 1.000 | 0.99995 |
| 4132              | 1                    | 0.93                        | 1                     | 56                            | 568                                    | 0.002 | 56.00  | 0.10   | 1.000 | 0.99999 |
| 4134              | 1                    | 1.52                        | 1                     | 91                            | 1,278                                  | 0.001 | 91.00  | 0.07   | 1.000 | 0.99999 |
| 4137              | 3                    | 3.21                        | 52                    | 3,893                         | 817                                    | 0.064 | 74.87  | 4.76   | 1.040 | 0.99989 |
| 4138              | 3                    | 3.65                        | 59                    | 3,811                         | 760                                    | 0.078 | 64.59  | 5.01   | 1.000 | 0.99988 |
| 4141              | 2                    | 5.75                        | 2                     | 345                           | 84                                     | 0.024 | 172.50 | 4.11   | 1.000 | 0.99990 |
| 4142              | 2                    | 1.99                        | 63                    | 3,210                         | 621                                    | 0.101 | 50.95  | 5.17   | 1.000 | 0.99988 |
| 4152              | 5                    | 6.75                        | 33                    | 2,306                         | 1,297                                  | 0.025 | 69.88  | 1.78   | 1.375 | 0.99996 |
| 4154              | 1                    | 1.32                        | 1                     | 79                            | 1,366                                  | 0.001 | 79.00  | 0.06   | 1.000 | 0.99999 |
| 4171              | 1                    | 0.85                        | 12                    | 619                           | 1,186                                  | 0.010 | 51.58  | 0.52   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 4172              | 2                    | 3.35                        | 7                     | 511                           | 1,855                                  | 0.004 | 73.00  | 0.28  | 1.167 | 0.99999 |
| 4181              | 2                    | 2.25                        | 20                    | 1,359                         | 783                                    | 0.026 | 67.95  | 1.74  | 2.000 | 0.99996 |
| 4211              | 1                    | 0.82                        | 16                    | 787                           | 719                                    | 0.022 | 49.19  | 1.09  | 1.000 | 0.99997 |
| 4212              | 6                    | 14.85                       | 99                    | 18,315                        | 1,084                                  | 0.091 | 185.00 | 16.90 | 1.031 | 0.99961 |
| 4222              | 2                    | 1.77                        | 8                     | 473                           | 1,073                                  | 0.007 | 59.13  | 0.44  | 1.143 | 0.99999 |
| 4223              | 11                   | 10.15                       | 476                   | 29,485                        | 1,123                                  | 0.424 | 61.94  | 26.26 | 1.273 | 0.99939 |
| 4224              | 4                    | 10.90                       | 138                   | 17,747                        | 772                                    | 0.179 | 128.60 | 22.99 | 1.000 | 0.99947 |
| 4301              | 1                    | 0.28                        | 3                     | 51                            | 111                                    | 0.027 | 17.00  | 0.46  | 1.000 | 0.99999 |
| 4303              | 3                    | 4.63                        | 95                    | 8,236                         | 1,304                                  | 0.073 | 86.69  | 6.32  | 1.000 | 0.99985 |
| 4312              | 2                    | 3.76                        | 2                     | 226                           | 900                                    | 0.002 | 113.00 | 0.25  | 1.000 | 0.99999 |
| 4313              | 4                    | 6.27                        | 38                    | 3,431                         | 558                                    | 0.068 | 90.29  | 6.15  | 1.000 | 0.99986 |
| 4321              | 2                    | 1.96                        | 170                   | 10,079                        | 182                                    | 0.934 | 59.29  | 55.38 | 1.574 | 0.99872 |
| 4331              | 2                    | 1.68                        | 6                     | 316                           | 332                                    | 0.018 | 52.67  | 0.95  | 1.200 | 0.99998 |
| 4334              | 1                    | 1.20                        | 1                     | 72                            | 302                                    | 0.003 | 72.00  | 0.24  | 1.000 | 0.99999 |
| 4341              | 2                    | 1.50                        | 38                    | 1,726                         | 1,825                                  | 0.021 | 45.42  | 0.95  | 1.357 | 0.99998 |
| 4342              | 1                    | 0.45                        | 41                    | 1,139                         | 837                                    | 0.049 | 27.78  | 1.36  | 1.000 | 0.99997 |
| 4343              | 4                    | 9.69                        | 85                    | 13,418                        | 1,680                                  | 0.051 | 157.86 | 7.99  | 1.250 | 0.99982 |
| 4361              | 4                    | 7.73                        | 147                   | 14,229                        | 1,660                                  | 0.089 | 96.80  | 8.57  | 1.028 | 0.99980 |
| 4362              | 6                    | 17.59                       | 214                   | 31,381                        | 840                                    | 0.255 | 146.64 | 37.36 | 1.597 | 0.99914 |
| 4363              | 1                    | 0.90                        | 1                     | 54                            | 703                                    | 0.001 | 54.00  | 0.08  | 1.000 | 0.99999 |
| 4364              | 4                    | 2.60                        | 991                   | 15,308                        | 858                                    | 1.155 | 15.45  | 17.84 | 1.155 | 0.99959 |
| 4371              | 5                    | 5.72                        | 27                    | 2,039                         | 1,556                                  | 0.017 | 75.52  | 1.31  | 1.038 | 0.99997 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 4372              | 2                    | 2.97                        | 432                   | 40,555                        | 431                                    | 1.002 | 93.88  | 94.10  | 1.002 | 0.99782 |
| 4373              | 8                    | 12.30                       | 802                   | 84,007                        | 769                                    | 1.043 | 104.75 | 109.24 | 1.043 | 0.99747 |
| 4431              | 6                    | 6.06                        | 6                     | 364                           | 1,428                                  | 0.004 | 60.67  | 0.25   | 1.200 | 0.99999 |
| 4432              | 1                    | 0.73                        | 11                    | 490                           | 482                                    | 0.023 | 44.55  | 1.02   | 1.000 | 0.99998 |
| 4511              | 1                    | 1.97                        | 1                     | 118                           | 1,146                                  | 0.001 | 118.00 | 0.10   | 1.000 | 0.99999 |
| 4602              | 1                    | 1.33                        | 13                    | 1,046                         | 978                                    | 0.013 | 80.46  | 1.07   | 1.000 | 0.99998 |
| 4692              | 1                    | 1.72                        | 17                    | 1,762                         | 488                                    | 0.035 | 103.65 | 3.61   | 1.000 | 0.99992 |
| 4714              | 1                    | 1.12                        | 10                    | 673                           | 349                                    | 0.029 | 67.30  | 1.93   | 1.000 | 0.99996 |
| 4791              | 2                    | 3.90                        | 2                     | 234                           | 627                                    | 0.003 | 117.00 | 0.37   | 1.000 | 0.99999 |
| 4794              | 1                    | 1.53                        | 1                     | 92                            | 398                                    | 0.003 | 92.00  | 0.23   | 1.000 | 0.99999 |
| 4891              | 2                    | 5.80                        | 593                   | 83,226                        | 593                                    | 1.000 | 140.35 | 140.35 | 1.002 | 0.99675 |
| 5601              | 3                    | 3.42                        | 523                   | 44,261                        | 1,297                                  | 0.403 | 84.63  | 34.13  | 1.165 | 0.99921 |
| 5603              | 1                    | 1.20                        | 10                    | 726                           | 1,484                                  | 0.007 | 72.60  | 0.49   | 1.000 | 0.99999 |
| 5902              | 1                    | 2.02                        | 1                     | 121                           | 967                                    | 0.001 | 121.00 | 0.13   | 1.000 | 0.99999 |
| 5904              | 1                    | 0.60                        | 25                    | 912                           | 1,287                                  | 0.019 | 36.48  | 0.71   | 1.000 | 0.99998 |
| 5905              | 4                    | 2.83                        | 29                    | 1,028                         | 1,941                                  | 0.015 | 35.45  | 0.53   | 1.036 | 0.99999 |
| 6021              | 4                    | 4.15                        | 39                    | 2,252                         | 1,364                                  | 0.029 | 57.74  | 1.65   | 1.083 | 0.99996 |
| 6022              | 3                    | 3.47                        | 3                     | 208                           | 568                                    | 0.005 | 69.33  | 0.37   | 1.500 | 0.99999 |
| 6141              | 1                    | 0.98                        | 9                     | 535                           | 651                                    | 0.014 | 59.44  | 0.82   | 1.000 | 0.99998 |
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
| Total:            | 458                  | 669.31                      | 18,636                | 1,622,206                     | 174,258                                | 0.107 | 87.05  | 9.31   | 1.084 | 0.99978 |



**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
7/1/2022 to 7/31/2022  
INCLUDING MAJOR EVENT DAYS

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 1050              | 1                    | 1.85                        | 24                    | 2,686                         | 1,762                                  | 0.014 | 111.92 | 1.52  | 1.000 | 0.99997 |
| 1082              | 3                    | 1.85                        | 12                    | 513                           | 1,394                                  | 0.009 | 42.75  | 0.37  | 1.000 | 0.99999 |
| 1092              | 5                    | 3.83                        | 28                    | 1,510                         | 959                                    | 0.029 | 53.93  | 1.57  | 1.077 | 0.99996 |
| 1093              | 1                    | 0.80                        | 1                     | 48                            | 232                                    | 0.004 | 48.00  | 0.21  | 1.000 | 0.99999 |
| 1094              | 2                    | 1.84                        | 22                    | 1,342                         | 1,255                                  | 0.018 | 61.00  | 1.07  | 1.000 | 0.99998 |
| 1101              | 1                    | 0.83                        | 14                    | 706                           | 847                                    | 0.017 | 50.43  | 0.83  | 1.000 | 0.99998 |
| 1102              | 4                    | 2.53                        | 121                   | 4,533                         | 1,084                                  | 0.112 | 37.46  | 4.18  | 1.000 | 0.99991 |
| 1103              | 3                    | 3.52                        | 74                    | 4,980                         | 1,008                                  | 0.073 | 67.30  | 4.94  | 1.000 | 0.99989 |
| 1104              | 2                    | 6.93                        | 64                    | 13,334                        | 191                                    | 0.335 | 208.34 | 69.81 | 2.000 | 0.99844 |
| 1141              | 3                    | 7.04                        | 22                    | 5,789                         | 914                                    | 0.024 | 263.14 | 6.33  | 1.000 | 0.99986 |
| 1211              | 1                    | 1.55                        | 8                     | 746                           | 1,506                                  | 0.005 | 93.25  | 0.50  | 1.000 | 0.99999 |
| 1213              | 13                   | 12.42                       | 15                    | 869                           | 576                                    | 0.026 | 57.93  | 1.51  | 1.500 | 0.99997 |
| 1233              | 2                    | 1.40                        | 2                     | 84                            | 649                                    | 0.003 | 42.00  | 0.13  | 1.000 | 0.99999 |
| 1241              | 1                    | 1.52                        | 56                    | 5,114                         | 890                                    | 0.063 | 91.32  | 5.75  | 1.000 | 0.99987 |
| 1242              | 2                    | 3.17                        | 6                     | 618                           | 858                                    | 0.007 | 103.00 | 0.72  | 1.000 | 0.99998 |
| 1263              | 3                    | 1.77                        | 86                    | 5,526                         | 1,217                                  | 0.071 | 64.26  | 4.54  | 1.012 | 0.99990 |
| 1264              | 1                    | 0.47                        | 11                    | 316                           | 20                                     | 0.550 | 28.73  | 15.80 | 1.000 | 0.99965 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 1265              | 2                    | 1.40                        | 226                   | 9,668                         | 1,306                                  | 0.173 | 42.78  | 7.40  | 1.000 | 0.99983 |
| 1271              | 1                    | 0.73                        | 48                    | 2,136                         | 988                                    | 0.049 | 44.50  | 2.16  | 1.000 | 0.99995 |
| 1273              | 1                    | 1.07                        | 28                    | 1,794                         | 871                                    | 0.032 | 64.07  | 2.06  | 1.000 | 0.99995 |
| 1281              | 2                    | 1.33                        | 170                   | 1,250                         | 170                                    | 1.000 | 7.35   | 7.35  | 1.030 | 0.99984 |
| 1282              | 2                    | 3.24                        | 27                    | 2,024                         | 702                                    | 0.038 | 74.96  | 2.88  | 1.038 | 0.99994 |
| 1284              | 4                    | 2.47                        | 347                   | 32,605                        | 955                                    | 0.363 | 93.96  | 34.14 | 1.045 | 0.99924 |
| 1312              | 6                    | 6.47                        | 29                    | 1,541                         | 977                                    | 0.030 | 53.14  | 1.58  | 1.000 | 0.99996 |
| 1453              | 1                    | 0.37                        | 1                     | 22                            | 1,826                                  | 0.001 | 22.00  | 0.01  | 1.000 | 0.99999 |
| 1454              | 1                    | 0.77                        | 13                    | 609                           | 950                                    | 0.014 | 46.85  | 0.64  | 1.000 | 0.99999 |
| 1455              | 1                    | 0.85                        | 26                    | 1,345                         | 416                                    | 0.063 | 51.73  | 3.23  | 1.000 | 0.99993 |
| 1523              | 6                    | 13.37                       | 222                   | 18,619                        | 763                                    | 0.291 | 83.87  | 24.40 | 1.037 | 0.99945 |
| 1843              | 1                    | 1.18                        | 1                     | 71                            | 1,119                                  | 0.001 | 71.00  | 0.06  | 1.000 | 0.99999 |
| 2091              | 3                    | 6.15                        | 26                    | 3,477                         | 923                                    | 0.028 | 133.73 | 3.77  | 1.000 | 0.99992 |
| 2092              | 1                    | 1.73                        | 11                    | 1,147                         | 953                                    | 0.012 | 104.27 | 1.20  | 1.000 | 0.99997 |
| 2171              | 1                    | 2.22                        | 1                     | 133                           | 593                                    | 0.002 | 133.00 | 0.22  | 1.000 | 0.99999 |
| 2212              | 4                    | 3.75                        | 18                    | 1,507                         | 1,384                                  | 0.013 | 83.72  | 1.09  | 1.200 | 0.99998 |
| 2511              | 1                    | 1.63                        | 5                     | 494                           | 626                                    | 0.008 | 98.80  | 0.79  | 1.000 | 0.99998 |
| 2621              | 1                    | 2.20                        | 13                    | 1,725                         | 1,212                                  | 0.011 | 132.69 | 1.42  | 1.000 | 0.99997 |
| 2951              | 2                    | 5.50                        | 13                    | 1,882                         | 1,256                                  | 0.010 | 144.77 | 1.50  | 1.000 | 0.99997 |
| 2961              | 3                    | 4.08                        | 30                    | 2,945                         | 656                                    | 0.046 | 98.17  | 4.49  | 1.034 | 0.99990 |
| 3121              | 5                    | 11.08                       | 75                    | 7,467                         | 1,156                                  | 0.065 | 99.56  | 6.46  | 1.027 | 0.99986 |
| 3122              | 1                    | 1.55                        | 26                    | 2,442                         | 891                                    | 0.029 | 93.92  | 2.74  | 1.000 | 0.99994 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 3301              | 2                    | 1.18                        | 5                     | 177                           | 772                                    | 0.006 | 35.40  | 0.23  | 1.000 | 0.99999 |
| 3302              | 1                    | 0.87                        | 6                     | 314                           | 652                                    | 0.009 | 52.33  | 0.48  | 1.000 | 0.99999 |
| 3303              | 11                   | 22.39                       | 159                   | 16,888                        | 1,792                                  | 0.089 | 106.21 | 9.42  | 1.000 | 0.99979 |
| 3304              | 5                    | 7.81                        | 16                    | 1,037                         | 1,178                                  | 0.014 | 64.81  | 0.88  | 1.067 | 0.99998 |
| 3311              | 3                    | 3.34                        | 24                    | 2,252                         | 545                                    | 0.044 | 93.83  | 4.13  | 1.043 | 0.99991 |
| 3315              | 3                    | 2.32                        | 53                    | 2,718                         | 1,620                                  | 0.033 | 51.28  | 1.68  | 1.019 | 0.99996 |
| 3421              | 1                    | 0.98                        | 12                    | 711                           | 307                                    | 0.039 | 59.25  | 2.32  | 1.000 | 0.99995 |
| 3422              | 2                    | 8.85                        | 20                    | 5,701                         | 1,002                                  | 0.020 | 285.05 | 5.69  | 1.000 | 0.99987 |
| 3471              | 1                    | 1.20                        | 1                     | 72                            | 496                                    | 0.002 | 72.00  | 0.15  | 1.000 | 0.99999 |
| 3553              | 8                    | 9.01                        | 108                   | 7,589                         | 878                                    | 0.123 | 70.27  | 8.64  | 1.080 | 0.99981 |
| 3592              | 1                    | 1.53                        | 56                    | 5,152                         | 1,808                                  | 0.031 | 92.00  | 2.85  | 1.000 | 0.99994 |
| 3594              | 5                    | 6.59                        | 41                    | 5,882                         | 789                                    | 0.052 | 143.46 | 7.46  | 1.000 | 0.99983 |
| 3621              | 3                    | 4.70                        | 9                     | 886                           | 1,608                                  | 0.006 | 98.44  | 0.55  | 1.000 | 0.99999 |
| 3661              | 5                    | 7.86                        | 144                   | 8,249                         | 1,082                                  | 0.133 | 57.28  | 7.62  | 1.007 | 0.99983 |
| 3663              | 1                    | 1.05                        | 3                     | 190                           | 312                                    | 0.010 | 63.33  | 0.61  | 1.000 | 0.99999 |
| 3692              | 1                    | 1.62                        | 1                     | 97                            | 417                                    | 0.002 | 97.00  | 0.23  | 1.000 | 0.99999 |
| 3751              | 6                    | 6.04                        | 104                   | 6,187                         | 929                                    | 0.112 | 59.49  | 6.66  | 1.040 | 0.99985 |
| 3872              | 3                    | 5.16                        | 6                     | 610                           | 1,180                                  | 0.005 | 101.67 | 0.52  | 1.500 | 0.99999 |
| 3873              | 1                    | 0.88                        | 40                    | 2,134                         | 815                                    | 0.049 | 53.35  | 2.62  | 1.000 | 0.99994 |
| 3891              | 2                    | 3.60                        | 5                     | 735                           | 451                                    | 0.011 | 147.00 | 1.63  | 1.000 | 0.99996 |
| 3892              | 1                    | 1.13                        | 1                     | 68                            | 541                                    | 0.002 | 68.00  | 0.13  | 1.000 | 0.99999 |
| 3893              | 1                    | 0.88                        | 29                    | 1,552                         | 1,171                                  | 0.025 | 53.52  | 1.33  | 1.000 | 0.99997 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 3901              | 6                    | 10.59                       | 103                   | 4,481                         | 884                                    | 0.117 | 43.50  | 5.07  | 1.051 | 0.99989 |
| 3902              | 3                    | 3.67                        | 69                    | 4,488                         | 98                                     | 0.704 | 65.04  | 45.80 | 1.030 | 0.99897 |
| 3951              | 10                   | 10.67                       | 1,151                 | 34,397                        | 961                                    | 1.198 | 29.88  | 35.79 | 1.198 | 0.99920 |
| 3952              | 1                    | 0.88                        | 25                    | 1,343                         | 1,309                                  | 0.019 | 53.72  | 1.03  | 1.000 | 0.99998 |
| 3953              | 2                    | 1.44                        | 20                    | 871                           | 543                                    | 0.037 | 43.55  | 1.60  | 1.000 | 0.99996 |
| 3971              | 2                    | 1.98                        | 6                     | 358                           | 693                                    | 0.009 | 59.67  | 0.52  | 1.000 | 0.99999 |
| 3981              | 4                    | 8.25                        | 41                    | 3,882                         | 1,568                                  | 0.026 | 94.68  | 2.48  | 1.025 | 0.99994 |
| 3982              | 2                    | 1.73                        | 19                    | 957                           | 1,827                                  | 0.010 | 50.37  | 0.52  | 1.000 | 0.99999 |
| 3991              | 6                    | 7.93                        | 20                    | 1,800                         | 761                                    | 0.026 | 90.00  | 2.37  | 1.053 | 0.99995 |
| 4031              | 3                    | 4.45                        | 3                     | 267                           | 714                                    | 0.004 | 89.00  | 0.37  | 1.500 | 0.99999 |
| 4092              | 1                    | 1.88                        | 1                     | 113                           | 458                                    | 0.002 | 113.00 | 0.25  | 1.000 | 0.99999 |
| 4101              | 1                    | 1.30                        | 1                     | 78                            | 981                                    | 0.001 | 78.00  | 0.08  | 1.000 | 0.99999 |
| 4134              | 3                    | 4.76                        | 177                   | 25,592                        | 1,278                                  | 0.138 | 144.59 | 20.03 | 1.006 | 0.99955 |
| 4136              | 1                    | 2.85                        | 1                     | 171                           | 684                                    | 0.001 | 171.00 | 0.25  | 1.000 | 0.99999 |
| 4142              | 2                    | 2.29                        | 2                     | 137                           | 621                                    | 0.003 | 68.50  | 0.22  | 1.000 | 0.99999 |
| 4152              | 1                    | 6.35                        | 1                     | 381                           | 1,297                                  | 0.001 | 381.00 | 0.29  | 1.000 | 0.99999 |
| 4153              | 3                    | 3.60                        | 29                    | 1,666                         | 1,133                                  | 0.026 | 57.45  | 1.47  | 1.074 | 0.99997 |
| 4154              | 2                    | 1.80                        | 33                    | 1,632                         | 1,366                                  | 0.024 | 49.45  | 1.19  | 1.000 | 0.99997 |
| 4171              | 4                    | 3.70                        | 28                    | 1,196                         | 1,186                                  | 0.024 | 42.71  | 1.01  | 1.000 | 0.99998 |
| 4173              | 4                    | 8.33                        | 284                   | 47,114                        | 691                                    | 0.411 | 165.89 | 68.18 | 1.596 | 0.99847 |
| 4181              | 1                    | 1.25                        | 10                    | 750                           | 783                                    | 0.013 | 75.00  | 0.96  | 1.000 | 0.99998 |
| 4182              | 2                    | 8.99                        | 8                     | 1,820                         | 779                                    | 0.010 | 227.50 | 2.34  | 1.000 | 0.99995 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 4211              | 1                    | 0.80                        | 30                    | 1,447                         | 719                                    | 0.042 | 48.23  | 2.01   | 1.000 | 0.99995 |
| 4212              | 3                    | 2.03                        | 35                    | 1,367                         | 1,084                                  | 0.032 | 39.06  | 1.26   | 1.061 | 0.99997 |
| 4222              | 3                    | 2.98                        | 15                    | 625                           | 1,073                                  | 0.014 | 41.67  | 0.58   | 1.154 | 0.99999 |
| 4223              | 2                    | 1.47                        | 37                    | 1,600                         | 1,123                                  | 0.033 | 43.24  | 1.42   | 1.000 | 0.99997 |
| 4224              | 1                    | 0.55                        | 7                     | 236                           | 772                                    | 0.009 | 33.71  | 0.31   | 1.000 | 0.99999 |
| 4301              | 1                    | 0.70                        | 3                     | 126                           | 111                                    | 0.027 | 42.00  | 1.14   | 1.000 | 0.99997 |
| 4302              | 4                    | 5.74                        | 183                   | 12,500                        | 662                                    | 0.276 | 68.31  | 18.88  | 1.011 | 0.99958 |
| 4311              | 1                    | 1.60                        | 1                     | 96                            | 748                                    | 0.001 | 96.00  | 0.13   | 1.000 | 0.99999 |
| 4313              | 2                    | 2.47                        | 13                    | 847                           | 558                                    | 0.023 | 65.15  | 1.52   | 1.000 | 0.99997 |
| 4331              | 1                    | 0.45                        | 61                    | 1,701                         | 332                                    | 0.184 | 27.89  | 5.12   | 1.000 | 0.99989 |
| 4334              | 1                    | 0.72                        | 1                     | 43                            | 302                                    | 0.003 | 43.00  | 0.14   | 1.000 | 0.99999 |
| 4341              | 2                    | 2.45                        | 3                     | 248                           | 1,825                                  | 0.002 | 82.67  | 0.14   | 1.000 | 0.99999 |
| 4342              | 1                    | 0.63                        | 12                    | 462                           | 837                                    | 0.014 | 38.50  | 0.55   | 1.000 | 0.99999 |
| 4343              | 2                    | 2.42                        | 2                     | 145                           | 1,680                                  | 0.001 | 72.50  | 0.09   | 1.000 | 0.99999 |
| 4361              | 3                    | 3.26                        | 7                     | 412                           | 1,660                                  | 0.004 | 58.86  | 0.25   | 1.000 | 0.99999 |
| 4362              | 4                    | 2.90                        | 238                   | 11,879                        | 840                                    | 0.283 | 49.91  | 14.14  | 1.039 | 0.99968 |
| 4363              | 1                    | 1.02                        | 48                    | 2,953                         | 703                                    | 0.068 | 61.52  | 4.20   | 1.000 | 0.99991 |
| 4371              | 2                    | 1.60                        | 25                    | 1,237                         | 1,556                                  | 0.016 | 49.48  | 0.79   | 1.042 | 0.99998 |
| 4372              | 6                    | 7.84                        | 45                    | 3,076                         | 431                                    | 0.104 | 68.36  | 7.14   | 1.216 | 0.99984 |
| 4373              | 1                    | 1.40                        | 24                    | 2,022                         | 769                                    | 0.031 | 84.25  | 2.63   | 1.000 | 0.99994 |
| 4385              | 1                    | 2.13                        | 1,156                 | 148,603                       | 1,156                                  | 1.000 | 128.55 | 128.55 | 1.000 | 0.99712 |
| 4431              | 3                    | 6.18                        | 198                   | 16,607                        | 1,428                                  | 0.139 | 83.87  | 11.63  | 1.010 | 0.99974 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 4513              | 7                    | 16.46                       | 59                    | 8,450                         | 711                                    | 0.083 | 143.22 | 11.88  | 1.000 | 0.99973 |
| 457               | 3                    | 8.27                        | 180                   | 24,133                        | 180                                    | 1.000 | 134.07 | 134.07 | 1.000 | 0.99694 |
| 4692              | 1                    | 1.40                        | 1                     | 84                            | 488                                    | 0.002 | 84.00  | 0.17   | 1.000 | 0.99999 |
| 4693              | 3                    | 7.77                        | 42                    | 13,251                        | 170                                    | 0.247 | 315.50 | 77.95  | 1.000 | 0.99825 |
| 4712              | 1                    | 1.42                        | 1                     | 85                            | 129                                    | 0.008 | 85.00  | 0.66   | 1.000 | 0.99999 |
| 4714              | 1                    | 1.13                        | 1                     | 68                            | 349                                    | 0.003 | 68.00  | 0.19   | 1.000 | 0.99999 |
| 4791              | 6                    | 5.67                        | 29                    | 1,448                         | 627                                    | 0.046 | 49.93  | 2.31   | 1.036 | 0.99995 |
| 4793              | 1                    | 1.45                        | 1                     | 87                            | 777                                    | 0.001 | 87.00  | 0.11   | 1.000 | 0.99999 |
| 5601              | 1                    | 0.52                        | 1                     | 31                            | 1,297                                  | 0.001 | 31.00  | 0.02   | 1.000 | 0.99999 |
| 5602              | 1                    | 1.15                        | 30                    | 2,095                         | 715                                    | 0.042 | 69.83  | 2.93   | 1.000 | 0.99993 |
| 5603              | 3                    | 2.57                        | 172                   | 8,450                         | 1,484                                  | 0.116 | 49.13  | 5.69   | 1.000 | 0.99987 |
| 5901              | 1                    | 0.57                        | 826                   | 28,634                        | 827                                    | 0.999 | 34.67  | 34.62  | 1.000 | 0.99922 |
| 5904              | 1                    | 1.08                        | 34                    | 2,234                         | 1,287                                  | 0.026 | 65.71  | 1.74   | 1.000 | 0.99996 |
| 5905              | 4                    | 6.76                        | 363                   | 21,130                        | 1,941                                  | 0.187 | 58.21  | 10.89  | 1.025 | 0.99976 |
| 6022              | 2                    | 1.64                        | 7                     | 330                           | 568                                    | 0.012 | 47.14  | 0.58   | 1.167 | 0.99999 |
| 6141              | 2                    | 2.40                        | 12                    | 873                           | 651                                    | 0.018 | 72.75  | 1.34   | 1.000 | 0.99997 |
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
| Total:            | 313                  | 435.74                      | 8,700                 | 665,927                       | 174,258                                | 0.050 | 76.54  | 3.82   | 1.000 | 0.99991 |

**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
8/1/2022 to 8/31/2022  
INCLUDING MAJOR EVENT DAYS

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1050              | 3                    | 2.57                        | 317                   | 9,371                         | 1,768                                  | 0.179 | 29.56  | 5.30   | 1.994 | 0.99988 |
| 1082              | 4                    | 3.58                        | 50                    | 1,880                         | 1,405                                  | 0.036 | 37.60  | 1.34   | 1.000 | 0.99997 |
| 1092              | 4                    | 3.32                        | 4                     | 199                           | 1,024                                  | 0.004 | 49.75  | 0.19   | 1.333 | 0.99999 |
| 1094              | 10                   | 13.98                       | 490                   | 59,487                        | 1,261                                  | 0.389 | 121.40 | 47.17  | 1.109 | 0.99894 |
| 1101              | 2                    | 2.45                        | 15                    | 984                           | 828                                    | 0.018 | 65.60  | 1.19   | 1.000 | 0.99997 |
| 1102              | 2                    | 1.78                        | 256                   | 12,694                        | 1,104                                  | 0.232 | 49.59  | 11.50  | 1.049 | 0.99974 |
| 1103              | 2                    | 1.40                        | 63                    | 2,696                         | 1,012                                  | 0.062 | 42.79  | 2.66   | 1.000 | 0.99994 |
| 1141              | 1                    | 0.85                        | 1                     | 51                            | 914                                    | 0.001 | 51.00  | 0.06   | 1.000 | 0.99999 |
| 1212              | 6                    | 6.17                        | 10                    | 546                           | 344                                    | 0.029 | 54.60  | 1.59   | 1.000 | 0.99996 |
| 1213              | 1                    | 1.73                        | 1                     | 104                           | 578                                    | 0.002 | 104.00 | 0.18   | 1.000 | 0.99999 |
| 1230              | 2                    | 1.62                        | 73                    | 4,911                         | 1,242                                  | 0.059 | 67.27  | 3.95   | 1.014 | 0.99991 |
| 1232              | 3                    | 3.14                        | 3                     | 188                           | 1,218                                  | 0.002 | 62.67  | 0.15   | 1.000 | 0.99999 |
| 1241              | 3                    | 14.11                       | 75                    | 15,021                        | 891                                    | 0.084 | 200.28 | 16.86  | 1.250 | 0.99962 |
| 1242              | 1                    | 3.03                        | 1                     | 182                           | 860                                    | 0.001 | 182.00 | 0.21   | 1.000 | 0.99999 |
| 1243              | 1                    | 0.70                        | 274                   | 11,704                        | 1,250                                  | 0.219 | 42.72  | 9.36   | 1.000 | 0.99979 |
| 1283              | 1                    | 1.97                        | 356                   | 42,328                        | 356                                    | 1.000 | 118.90 | 118.90 | 1.000 | 0.99729 |
| 1284              | 2                    | 1.77                        | 2                     | 106                           | 962                                    | 0.002 | 53.00  | 0.11   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1311              | 2                    | 5.59                        | 12                    | 2,038                         | 285                                    | 0.042 | 169.83 | 7.15   | 1.000 | 0.99984 |
| 1312              | 8                    | 12.14                       | 53                    | 5,610                         | 982                                    | 0.054 | 105.85 | 5.71   | 1.060 | 0.99987 |
| 1451              | 3                    | 2.11                        | 59                    | 3,045                         | 569                                    | 0.104 | 51.61  | 5.35   | 1.035 | 0.99988 |
| 1452              | 1                    | 2.70                        | 1                     | 162                           | 466                                    | 0.002 | 162.00 | 0.35   | 1.000 | 0.99999 |
| 1454              | 2                    | 3.53                        | 167                   | 25,927                        | 956                                    | 0.175 | 155.25 | 27.12  | 1.006 | 0.99939 |
| 1522              | 1                    | 3.02                        | 1                     | 181                           | 107                                    | 0.009 | 181.00 | 1.69   | 1.000 | 0.99996 |
| 1523              | 3                    | 7.14                        | 10                    | 727                           | 764                                    | 0.013 | 72.70  | 0.95   | 1.000 | 0.99998 |
| 1841              | 1                    | 3.95                        | 1                     | 237                           | 602                                    | 0.002 | 237.00 | 0.39   | 1.000 | 0.99999 |
| 1843              | 5                    | 11.02                       | 28                    | 3,391                         | 1,124                                  | 0.025 | 121.11 | 3.02   | 1.000 | 0.99993 |
| 2092              | 3                    | 5.14                        | 459                   | 77,376                        | 957                                    | 0.480 | 168.58 | 80.85  | 1.048 | 0.99819 |
| 2171              | 2                    | 1.76                        | 5                     | 265                           | 594                                    | 0.008 | 53.00  | 0.45   | 1.000 | 0.99999 |
| 2211              | 4                    | 4.28                        | 53                    | 2,688                         | 742                                    | 0.071 | 50.72  | 3.62   | 1.039 | 0.99992 |
| 2212              | 2                    | 9.30                        | 47                    | 17,844                        | 1,388                                  | 0.034 | 379.66 | 12.86  | 1.022 | 0.99971 |
| 2511              | 2                    | 3.64                        | 2                     | 218                           | 627                                    | 0.003 | 109.00 | 0.35   | 1.000 | 0.99999 |
| 2621              | 4                    | 6.04                        | 10                    | 1,028                         | 1,218                                  | 0.008 | 102.80 | 0.84   | 1.000 | 0.99998 |
| 2921              | 1                    | 4.92                        | 1                     | 295                           | 398                                    | 0.003 | 295.00 | 0.74   | 1.000 | 0.99998 |
| 2951              | 5                    | 7.75                        | 1,799                 | 241,239                       | 1,257                                  | 1.431 | 134.10 | 191.92 | 1.440 | 0.99570 |
| 2961              | 4                    | 11.33                       | 80                    | 19,347                        | 658                                    | 0.122 | 241.84 | 29.40  | 1.013 | 0.99934 |
| 3121              | 3                    | 3.74                        | 7                     | 634                           | 1,160                                  | 0.006 | 90.57  | 0.55   | 1.000 | 0.99999 |
| 3122              | 2                    | 0.87                        | 899                   | 25,332                        | 899                                    | 1.000 | 28.18  | 28.18  | 1.001 | 0.99936 |
| 3181              | 5                    | 7.85                        | 42                    | 4,746                         | 768                                    | 0.055 | 113.00 | 6.18   | 1.024 | 0.99986 |
| 3221              | 2                    | 2.65                        | 2                     | 159                           | 1,290                                  | 0.002 | 79.50  | 0.12   | 1.000 | 0.99999 |



| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 3222              | 2                    | 4.07                        | 26                    | 4,106                         | 802                                    | 0.032 | 157.92 | 5.12  | 1.040 | 0.99989 |
| 3301              | 1                    | 1.47                        | 17                    | 1,512                         | 769                                    | 0.022 | 88.94  | 1.97  | 1.000 | 0.99996 |
| 3303              | 2                    | 3.52                        | 7                     | 828                           | 1,632                                  | 0.004 | 118.29 | 0.51  | 1.000 | 0.99999 |
| 3315              | 2                    | 1.79                        | 15                    | 746                           | 1,618                                  | 0.009 | 49.73  | 0.46  | 1.071 | 0.99999 |
| 3422              | 1                    | 0.68                        | 1                     | 41                            | 1,005                                  | 0.001 | 41.00  | 0.04  | 1.000 | 0.99999 |
| 3471              | 2                    | 3.99                        | 19                    | 1,183                         | 498                                    | 0.038 | 62.26  | 2.38  | 1.056 | 0.99995 |
| 3472              | 2                    | 1.32                        | 4                     | 139                           | 1,335                                  | 0.003 | 34.75  | 0.10  | 1.000 | 0.99999 |
| 3551              | 1                    | 0.60                        | 1                     | 36                            | 1,046                                  | 0.001 | 36.00  | 0.03  | 1.000 | 0.99999 |
| 3553              | 2                    | 14.08                       | 7                     | 2,360                         | 881                                    | 0.008 | 337.14 | 2.68  | 1.000 | 0.99994 |
| 3591              | 2                    | 2.15                        | 13                    | 830                           | 1,564                                  | 0.008 | 63.85  | 0.53  | 1.083 | 0.99999 |
| 3592              | 1                    | 2.45                        | 1                     | 147                           | 1,814                                  | 0.001 | 147.00 | 0.08  | 1.000 | 0.99999 |
| 3593              | 3                    | 14.50                       | 25                    | 8,299                         | 950                                    | 0.026 | 331.96 | 8.74  | 1.000 | 0.99980 |
| 3621              | 4                    | 18.68                       | 120                   | 32,312                        | 1,608                                  | 0.075 | 269.27 | 20.09 | 1.034 | 0.99955 |
| 3661              | 5                    | 10.08                       | 283                   | 19,000                        | 1,098                                  | 0.258 | 67.14  | 17.30 | 1.084 | 0.99961 |
| 3662              | 2                    | 4.38                        | 20                    | 2,642                         | 896                                    | 0.022 | 132.10 | 2.95  | 1.111 | 0.99993 |
| 3663              | 2                    | 1.40                        | 2                     | 84                            | 315                                    | 0.006 | 42.00  | 0.27  | 1.000 | 0.99999 |
| 3664              | 2                    | 3.80                        | 32                    | 4,792                         | 583                                    | 0.055 | 149.75 | 8.22  | 1.000 | 0.99982 |
| 3671              | 1                    | 3.43                        | 27                    | 5,563                         | 664                                    | 0.041 | 206.04 | 8.38  | 1.000 | 0.99981 |
| 3673              | 1                    | 1.23                        | 1                     | 74                            | 276                                    | 0.004 | 74.00  | 0.27  | 1.000 | 0.99999 |
| 3692              | 1                    | 1.27                        | 1                     | 76                            | 417                                    | 0.002 | 76.00  | 0.18  | 1.000 | 0.99999 |
| 3693              | 1                    | 2.23                        | 1                     | 134                           | 182                                    | 0.005 | 134.00 | 0.74  | 1.000 | 0.99998 |
| 3701              | 1                    | 0.50                        | 1                     | 30                            | 538                                    | 0.002 | 30.00  | 0.06  | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 3702              | 1                    | 0.97                        | 20                    | 1,167                         | 676                                    | 0.030 | 58.35  | 1.73  | 1.000 | 0.99996 |
| 3751              | 2                    | 3.72                        | 11                    | 1,087                         | 933                                    | 0.012 | 98.82  | 1.17  | 1.000 | 0.99997 |
| 3871              | 1                    | 0.67                        | 1                     | 40                            | 1,094                                  | 0.001 | 40.00  | 0.04  | 1.000 | 0.99999 |
| 3872              | 2                    | 3.29                        | 2                     | 197                           | 1,192                                  | 0.002 | 98.50  | 0.17  | 1.000 | 0.99999 |
| 3873              | 1                    | 0.65                        | 1                     | 39                            | 818                                    | 0.001 | 39.00  | 0.05  | 1.000 | 0.99999 |
| 3874              | 1                    | 0.58                        | 1                     | 35                            | 204                                    | 0.005 | 35.00  | 0.17  | 1.000 | 0.99999 |
| 3878              | 2                    | 5.60                        | 2                     | 336                           | 850                                    | 0.002 | 168.00 | 0.40  | 1.000 | 0.99999 |
| 3891              | 3                    | 2.97                        | 140                   | 9,399                         | 458                                    | 0.306 | 67.14  | 20.52 | 1.037 | 0.99954 |
| 3893              | 6                    | 14.81                       | 38                    | 12,002                        | 1,183                                  | 0.032 | 315.84 | 10.15 | 1.000 | 0.99977 |
| 3894              | 1                    | 2.10                        | 1                     | 126                           | 162                                    | 0.006 | 126.00 | 0.78  | 1.000 | 0.99998 |
| 3901              | 1                    | 4.37                        | 1                     | 262                           | 886                                    | 0.001 | 262.00 | 0.30  | 1.000 | 0.99999 |
| 3903              | 1                    | 1.52                        | 1                     | 91                            | 316                                    | 0.003 | 91.00  | 0.29  | 1.000 | 0.99999 |
| 3951              | 3                    | 2.64                        | 39                    | 1,197                         | 964                                    | 0.040 | 30.69  | 1.24  | 1.054 | 0.99997 |
| 3952              | 3                    | 5.34                        | 431                   | 91,375                        | 1,110                                  | 0.388 | 212.01 | 82.32 | 1.044 | 0.99816 |
| 3981              | 9                    | 15.01                       | 91                    | 8,453                         | 1,574                                  | 0.058 | 92.89  | 5.37  | 1.110 | 0.99988 |
| 3982              | 2                    | 2.32                        | 1,891                 | 184,579                       | 1,891                                  | 1.000 | 97.61  | 97.61 | 1.031 | 0.99777 |
| 3991              | 6                    | 8.52                        | 49                    | 5,171                         | 764                                    | 0.064 | 105.53 | 6.77  | 1.195 | 0.99985 |
| 3992              | 2                    | 3.25                        | 2                     | 195                           | 174                                    | 0.011 | 97.50  | 1.12  | 1.000 | 0.99997 |
| 4031              | 1                    | 1.02                        | 13                    | 793                           | 718                                    | 0.018 | 61.00  | 1.10  | 1.000 | 0.99998 |
| 4091              | 2                    | 3.88                        | 26                    | 4,069                         | 1,209                                  | 0.022 | 156.50 | 3.37  | 1.040 | 0.99992 |
| 4092              | 1                    | 1.85                        | 19                    | 2,122                         | 460                                    | 0.041 | 111.68 | 4.61  | 1.000 | 0.99990 |
| 4102              | 1                    | 1.42                        | 45                    | 3,835                         | 540                                    | 0.083 | 85.22  | 7.10  | 1.000 | 0.99984 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 4134              | 1                    | 3.17                        | 77                    | 14,622                        | 1,283                                  | 0.060 | 189.90 | 11.40  | 1.000 | 0.99974 |
| 4138              | 1                    | 1.08                        | 20                    | 1,313                         | 760                                    | 0.026 | 65.65  | 1.73   | 1.000 | 0.99996 |
| 4141              | 3                    | 4.44                        | 3                     | 267                           | 84                                     | 0.036 | 89.00  | 3.18   | 1.000 | 0.99993 |
| 4142              | 2                    | 4.46                        | 7                     | 1,104                         | 621                                    | 0.011 | 157.71 | 1.78   | 1.167 | 0.99996 |
| 4151              | 1                    | 2.60                        | 65                    | 10,146                        | 174                                    | 0.374 | 156.09 | 58.31  | 1.000 | 0.99869 |
| 4153              | 4                    | 14.00                       | 60                    | 11,823                        | 1,145                                  | 0.052 | 197.05 | 10.33  | 1.017 | 0.99977 |
| 4171              | 1                    | 1.67                        | 1                     | 100                           | 1,198                                  | 0.001 | 100.00 | 0.08   | 1.000 | 0.99999 |
| 4172              | 2                    | 5.99                        | 32                    | 8,425                         | 1,878                                  | 0.017 | 263.28 | 4.49   | 1.000 | 0.99990 |
| 4181              | 2                    | 2.28                        | 2                     | 137                           | 786                                    | 0.003 | 68.50  | 0.17   | 1.000 | 0.99999 |
| 4182              | 2                    | 8.28                        | 4                     | 1,302                         | 780                                    | 0.005 | 325.50 | 1.67   | 1.000 | 0.99996 |
| 4211              | 3                    | 7.19                        | 3                     | 431                           | 756                                    | 0.004 | 143.67 | 0.57   | 1.500 | 0.99999 |
| 4212              | 11                   | 8.40                        | 27                    | 1,460                         | 1,090                                  | 0.025 | 54.07  | 1.34   | 1.125 | 0.99997 |
| 4222              | 2                    | 2.28                        | 1,991                 | 190,819                       | 1,990                                  | 1.001 | 95.84  | 95.89  | 1.001 | 0.99781 |
| 4224              | 5                    | 10.40                       | 146                   | 13,191                        | 778                                    | 0.188 | 90.35  | 16.96  | 1.007 | 0.99962 |
| 4302              | 1                    | 0.82                        | 78                    | 3,840                         | 664                                    | 0.117 | 49.23  | 5.78   | 1.000 | 0.99987 |
| 4303              | 4                    | 12.41                       | 150                   | 23,412                        | 1,346                                  | 0.111 | 156.08 | 17.39  | 1.613 | 0.99961 |
| 4304              | 1                    | 0.83                        | 6                     | 303                           | 246                                    | 0.024 | 50.50  | 1.23   | 1.000 | 0.99997 |
| 4313              | 1                    | 1.35                        | 12                    | 972                           | 558                                    | 0.022 | 81.00  | 1.74   | 1.000 | 0.99996 |
| 4321              | 3                    | 4.21                        | 252                   | 32,487                        | 244                                    | 1.033 | 128.92 | 133.14 | 1.340 | 0.99702 |
| 4342              | 2                    | 1.64                        | 35                    | 1,597                         | 810                                    | 0.043 | 45.63  | 1.97   | 1.296 | 0.99996 |
| 4343              | 1                    | 3.50                        | 4                     | 841                           | 1,686                                  | 0.002 | 210.25 | 0.50   | 1.000 | 0.99999 |
| 4361              | 5                    | 8.16                        | 104                   | 9,613                         | 1,671                                  | 0.062 | 92.43  | 5.75   | 1.030 | 0.99987 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 4362              | 2                    | 2.27                        | 2                     | 136                           | 842                                    | 0.002 | 68.00  | 0.16   | 1.000 | 0.99999 |
| 4363              | 3                    | 3.91                        | 1,436                 | 97,867                        | 1,546                                  | 0.929 | 68.15  | 63.30  | 2.028 | 0.99855 |
| 4364              | 2                    | 1.78                        | 110                   | 4,018                         | 861                                    | 0.128 | 36.53  | 4.67   | 1.009 | 0.99990 |
| 4371              | 4                    | 5.27                        | 1,574                 | 87,968                        | 1,574                                  | 1.000 | 55.89  | 55.89  | 1.005 | 0.99872 |
| 4372              | 3                    | 5.16                        | 869                   | 94,798                        | 432                                    | 2.012 | 109.09 | 219.44 | 2.012 | 0.99508 |
| 4373              | 6                    | 17.21                       | 821                   | 52,993                        | 821                                    | 1.000 | 64.55  | 64.55  | 1.058 | 0.99853 |
| 4385              | 3                    | 2.93                        | 102                   | 6,836                         | 1,157                                  | 0.088 | 67.02  | 5.91   | 1.229 | 0.99987 |
| 4431              | 4                    | 19.63                       | 1,782                 | 639,632                       | 1,782                                  | 1.000 | 358.94 | 358.94 | 1.240 | 0.99181 |
| 4513              | 2                    | 2.11                        | 764                   | 61,868                        | 764                                    | 1.000 | 80.98  | 80.98  | 1.069 | 0.99815 |
| 4601              | 1                    | 1.20                        | 4                     | 289                           | 407                                    | 0.010 | 72.25  | 0.71   | 1.000 | 0.99998 |
| 4602              | 3                    | 6.02                        | 3                     | 361                           | 980                                    | 0.003 | 120.33 | 0.37   | 1.000 | 0.99999 |
| 4692              | 1                    | 1.17                        | 30                    | 2,110                         | 493                                    | 0.061 | 70.33  | 4.28   | 1.000 | 0.99990 |
| 4693              | 1                    | 0.65                        | 40                    | 1,563                         | 172                                    | 0.233 | 39.08  | 9.09   | 1.000 | 0.99980 |
| 4714              | 1                    | 0.58                        | 1                     | 35                            | 352                                    | 0.003 | 35.00  | 0.10   | 1.000 | 0.99999 |
| 4784              | 1                    | 0.40                        | 1                     | 24                            | 402                                    | 0.002 | 24.00  | 0.06   | 1.000 | 0.99999 |
| 4891              | 1                    | 2.15                        | 1                     | 129                           | 596                                    | 0.002 | 129.00 | 0.22   | 1.000 | 0.99999 |
| 5601              | 5                    | 7.43                        | 98                    | 13,815                        | 1,302                                  | 0.075 | 140.97 | 10.61  | 1.010 | 0.99976 |
| 5603              | 11                   | 14.31                       | 41                    | 3,521                         | 1,502                                  | 0.027 | 85.88  | 2.34   | 2.412 | 0.99995 |
| 5902              | 1                    | 0.70                        | 104                   | 4,380                         | 972                                    | 0.107 | 42.12  | 4.51   | 1.000 | 0.99990 |
| 5903              | 1                    | 1.10                        | 9                     | 597                           | 286                                    | 0.031 | 66.33  | 2.09   | 1.000 | 0.99995 |
| 5904              | 2                    | 2.42                        | 35                    | 2,672                         | 1,297                                  | 0.027 | 76.34  | 2.06   | 1.000 | 0.99995 |
| 5905              | 1                    | 1.13                        | 85                    | 5,848                         | 1,946                                  | 0.044 | 68.80  | 3.01   | 1.000 | 0.99993 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 6021              | 3                    | 2.70                        | 61                    | 2,415                         | 1,370                                  | 0.045 | 39.59  | 1.76  | 1.000 | 0.99996 |
| 6024              | 1                    | 1.12                        | 1                     | 67                            | 398                                    | 0.003 | 67.00  | 0.17  | 1.000 | 0.99999 |
| 6143              | 2                    | 2.18                        | 9                     | 789                           | 378                                    | 0.024 | 87.67  | 2.09  | 1.000 | 0.99995 |
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
| Total:            | 329                  | 583.45                      | 20,240                | 2,419,381                     | 170,970                                | 0.118 | 119.53 | 14.15 | 1.157 | 0.99968 |

**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
9/1/2022 to 9/30/2022  
INCLUDING MAJOR EVENT DAYS

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 1050              | 7                    | 4.79                        | 1,972                 | 96,751                        | 1,774                                  | 1.112 | 49.06  | 54.54 | 1.112 | 0.99874 |
| 1051              | 1                    | 1.68                        | 16                    | 1,621                         | 559                                    | 0.029 | 101.31 | 2.90  | 1.000 | 0.99993 |
| 1082              | 4                    | 4.74                        | 47                    | 3,807                         | 1,416                                  | 0.033 | 81.00  | 2.69  | 1.022 | 0.99994 |
| 1091              | 2                    | 1.95                        | 936                   | 56,219                        | 935                                    | 1.001 | 60.06  | 60.13 | 1.001 | 0.99863 |
| 1092              | 2                    | 10.25                       | 2                     | 615                           | 1,090                                  | 0.002 | 307.50 | 0.56  | 1.000 | 0.99999 |
| 1094              | 3                    | 4.70                        | 73                    | 3,905                         | 1,267                                  | 0.058 | 53.49  | 3.08  | 1.000 | 0.99993 |
| 1101              | 2                    | 3.02                        | 65                    | 6,275                         | 808                                    | 0.080 | 96.54  | 7.77  | 1.000 | 0.99982 |
| 1102              | 4                    | 2.30                        | 79                    | 3,334                         | 1,124                                  | 0.070 | 42.20  | 2.97  | 1.013 | 0.99993 |
| 1103              | 2                    | 2.34                        | 51                    | 4,196                         | 1,016                                  | 0.050 | 82.27  | 4.13  | 1.000 | 0.99990 |
| 1211              | 1                    | 1.40                        | 1                     | 84                            | 1,511                                  | 0.001 | 84.00  | 0.06  | 1.000 | 0.99999 |
| 1212              | 1                    | 0.68                        | 1                     | 41                            | 345                                    | 0.003 | 41.00  | 0.12  | 1.000 | 0.99999 |
| 1213              | 1                    | 1.23                        | 1                     | 74                            | 580                                    | 0.002 | 74.00  | 0.13  | 1.000 | 0.99999 |
| 1230              | 1                    | 1.50                        | 1                     | 90                            | 1,252                                  | 0.001 | 90.00  | 0.07  | 1.000 | 0.99999 |
| 1233              | 2                    | 3.31                        | 345                   | 34,823                        | 652                                    | 0.529 | 100.94 | 53.41 | 1.052 | 0.99876 |
| 1241              | 2                    | 8.55                        | 152                   | 34,052                        | 892                                    | 0.170 | 224.03 | 38.17 | 1.256 | 0.99912 |
| 1243              | 2                    | 2.05                        | 43                    | 2,147                         | 1,252                                  | 0.034 | 49.93  | 1.71  | 1.000 | 0.99996 |
| 1271              | 3                    | 2.52                        | 15                    | 957                           | 999                                    | 0.015 | 63.80  | 0.96  | 1.000 | 0.99998 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 1284              | 1                    | 0.50                        | 1                     | 30                            | 970                                    | 0.001 | 30.00  | 0.03  | 1.000 | 0.99999 |
| 1312              | 2                    | 5.10                        | 2                     | 306                           | 988                                    | 0.002 | 153.00 | 0.31  | 1.000 | 0.99999 |
| 1452              | 2                    | 1.37                        | 2                     | 82                            | 471                                    | 0.004 | 41.00  | 0.17  | 1.000 | 0.99999 |
| 1453              | 4                    | 4.69                        | 222                   | 11,358                        | 1,840                                  | 0.121 | 51.16  | 6.17  | 1.037 | 0.99986 |
| 1454              | 1                    | 1.78                        | 1                     | 107                           | 962                                    | 0.001 | 107.00 | 0.11  | 1.000 | 0.99999 |
| 1455              | 2                    | 4.88                        | 2                     | 293                           | 425                                    | 0.005 | 146.50 | 0.69  | 1.000 | 0.99998 |
| 1523              | 2                    | 2.25                        | 36                    | 2,327                         | 766                                    | 0.047 | 64.64  | 3.04  | 1.029 | 0.99993 |
| 1841              | 1                    | 0.87                        | 1                     | 52                            | 643                                    | 0.002 | 52.00  | 0.08  | 1.000 | 0.99999 |
| 1843              | 2                    | 2.75                        | 2                     | 165                           | 1,128                                  | 0.002 | 82.50  | 0.15  | 1.000 | 0.99999 |
| 2051              | 1                    | 0.72                        | 3                     | 129                           | 211                                    | 0.014 | 43.00  | 0.61  | 1.000 | 0.99999 |
| 2172              | 1                    | 0.73                        | 1                     | 44                            | 253                                    | 0.004 | 44.00  | 0.17  | 1.000 | 0.99999 |
| 2211              | 2                    | 4.84                        | 23                    | 2,189                         | 742                                    | 0.031 | 95.17  | 2.95  | 1.000 | 0.99993 |
| 2212              | 3                    | 3.92                        | 35                    | 2,860                         | 1,391                                  | 0.025 | 81.71  | 2.06  | 1.000 | 0.99995 |
| 2621              | 2                    | 3.46                        | 2                     | 208                           | 1,224                                  | 0.002 | 104.00 | 0.17  | 1.000 | 0.99999 |
| 2921              | 1                    | 0.48                        | 1                     | 29                            | 401                                    | 0.002 | 29.00  | 0.07  | 1.000 | 0.99999 |
| 2951              | 2                    | 1.47                        | 15                    | 1,074                         | 1,258                                  | 0.012 | 71.60  | 0.85  | 1.071 | 0.99998 |
| 2952              | 1                    | 1.45                        | 1                     | 87                            | 383                                    | 0.003 | 87.00  | 0.23  | 1.000 | 0.99999 |
| 2961              | 6                    | 10.43                       | 136                   | 18,719                        | 659                                    | 0.206 | 137.64 | 28.41 | 1.679 | 0.99934 |
| 3121              | 1                    | 1.52                        | 38                    | 3,472                         | 1,163                                  | 0.033 | 91.37  | 2.99  | 1.000 | 0.99993 |
| 3122              | 2                    | 0.73                        | 9                     | 124                           | 898                                    | 0.010 | 13.78  | 0.14  | 1.000 | 0.99999 |
| 3123              | 1                    | 1.72                        | 1                     | 103                           | 1,147                                  | 0.001 | 103.00 | 0.09  | 1.000 | 0.99999 |
| 3181              | 1                    | 1.20                        | 57                    | 4,121                         | 769                                    | 0.074 | 72.30  | 5.36  | 1.000 | 0.99988 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 3221              | 2                    | 1.25                        | 6                     | 278                           | 1,291                                  | 0.005 | 46.33  | 0.22  | 1.200 | 0.99999 |
| 3222              | 3                    | 3.27                        | 62                    | 4,164                         | 803                                    | 0.077 | 67.16  | 5.19  | 1.016 | 0.99988 |
| 3231              | 1                    | 1.22                        | 1                     | 73                            | 224                                    | 0.004 | 73.00  | 0.33  | 1.000 | 0.99999 |
| 3232              | 1                    | 1.50                        | 2                     | 180                           | 452                                    | 0.004 | 90.00  | 0.40  | 1.000 | 0.99999 |
| 3301              | 1                    | 0.35                        | 3                     | 63                            | 766                                    | 0.004 | 21.00  | 0.08  | 1.000 | 0.99999 |
| 3303              | 4                    | 4.11                        | 22                    | 1,263                         | 1,471                                  | 0.015 | 57.41  | 0.86  | 1.000 | 0.99998 |
| 3304              | 1                    | 1.12                        | 4                     | 269                           | 1,180                                  | 0.003 | 67.25  | 0.23  | 1.000 | 0.99999 |
| 3311              | 1                    | 1.55                        | 10                    | 937                           | 555                                    | 0.018 | 93.70  | 1.69  | 1.000 | 0.99996 |
| 3314              | 1                    | 0.63                        | 1                     | 38                            | 229                                    | 0.004 | 38.00  | 0.17  | 1.000 | 0.99999 |
| 3315              | 5                    | 8.37                        | 65                    | 9,169                         | 1,616                                  | 0.040 | 141.06 | 5.67  | 1.032 | 0.99987 |
| 3472              | 3                    | 2.89                        | 15                    | 691                           | 1,343                                  | 0.011 | 46.07  | 0.51  | 1.071 | 0.99999 |
| 3551              | 3                    | 3.45                        | 29                    | 1,001                         | 1,046                                  | 0.028 | 34.52  | 0.96  | 1.000 | 0.99998 |
| 3552              | 2                    | 2.32                        | 2                     | 139                           | 588                                    | 0.003 | 69.50  | 0.24  | 1.000 | 0.99999 |
| 3553              | 3                    | 1.90                        | 100                   | 4,964                         | 884                                    | 0.113 | 49.64  | 5.62  | 1.010 | 0.99987 |
| 3592              | 5                    | 3.86                        | 57                    | 2,633                         | 1,819                                  | 0.031 | 46.19  | 1.45  | 1.000 | 0.99997 |
| 3594              | 2                    | 10.19                       | 41                    | 15,022                        | 791                                    | 0.052 | 366.39 | 18.99 | 1.000 | 0.99956 |
| 3621              | 2                    | 2.70                        | 2                     | 162                           | 1,609                                  | 0.001 | 81.00  | 0.10  | 2.000 | 0.99999 |
| 3661              | 1                    | 0.50                        | 17                    | 525                           | 1,114                                  | 0.015 | 30.88  | 0.47  | 1.000 | 0.99999 |
| 3662              | 2                    | 1.10                        | 2                     | 66                            | 900                                    | 0.002 | 33.00  | 0.07  | 1.000 | 0.99999 |
| 3663              | 3                    | 1.70                        | 17                    | 556                           | 318                                    | 0.053 | 32.71  | 1.75  | 1.133 | 0.99996 |
| 3664              | 1                    | 1.40                        | 1                     | 84                            | 584                                    | 0.002 | 84.00  | 0.14  | 1.000 | 0.99999 |
| 3675              | 2                    | 1.48                        | 7                     | 316                           | 553                                    | 0.013 | 45.14  | 0.57  | 1.000 | 0.99999 |



| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 3701              | 1                    | 1.60                        | 18                    | 1,740                         | 542                                    | 0.033 | 96.67  | 3.21   | 1.000 | 0.99993 |
| 3702              | 3                    | 3.61                        | 37                    | 2,090                         | 680                                    | 0.054 | 56.49  | 3.07   | 1.057 | 0.99993 |
| 3871              | 2                    | 2.01                        | 25                    | 1,979                         | 1,096                                  | 0.023 | 79.16  | 1.81   | 1.000 | 0.99996 |
| 3872              | 2                    | 2.57                        | 89                    | 6,470                         | 1,205                                  | 0.074 | 72.70  | 5.37   | 1.171 | 0.99988 |
| 3878              | 1                    | 0.52                        | 25                    | 784                           | 852                                    | 0.029 | 31.36  | 0.92   | 1.000 | 0.99998 |
| 3891              | 3                    | 3.30                        | 7                     | 418                           | 464                                    | 0.015 | 59.71  | 0.90   | 1.400 | 0.99998 |
| 3893              | 5                    | 4.46                        | 58                    | 2,630                         | 1,195                                  | 0.049 | 45.34  | 2.20   | 1.036 | 0.99995 |
| 3902              | 1                    | 1.53                        | 10                    | 920                           | 99                                     | 0.101 | 92.00  | 9.29   | 1.000 | 0.99978 |
| 3951              | 3                    | 7.91                        | 6                     | 778                           | 966                                    | 0.006 | 129.67 | 0.81   | 1.000 | 0.99998 |
| 3952              | 5                    | 5.33                        | 982                   | 42,389                        | 910                                    | 1.079 | 43.17  | 46.58  | 1.079 | 0.99892 |
| 3953              | 2                    | 1.40                        | 12                    | 678                           | 544                                    | 0.022 | 56.50  | 1.25   | 1.000 | 0.99997 |
| 3971              | 1                    | 11.68                       | 2                     | 1,403                         | 699                                    | 0.003 | 701.50 | 2.01   | 1.000 | 0.99995 |
| 3981              | 1                    | 2.58                        | 5                     | 776                           | 1,581                                  | 0.003 | 155.20 | 0.49   | 1.000 | 0.99999 |
| 3982              | 1                    | 0.73                        | 37                    | 1,606                         | 1,834                                  | 0.020 | 43.41  | 0.88   | 1.000 | 0.99998 |
| 4031              | 2                    | 6.97                        | 21                    | 5,800                         | 723                                    | 0.029 | 276.19 | 8.02   | 1.000 | 0.99981 |
| 4091              | 1                    | 1.68                        | 80                    | 8,090                         | 1,212                                  | 0.066 | 101.13 | 6.67   | 1.000 | 0.99985 |
| 4101              | 2                    | 4.84                        | 14                    | 1,860                         | 989                                    | 0.014 | 132.86 | 1.88   | 1.077 | 0.99996 |
| 4132              | 1                    | 3.88                        | 2                     | 466                           | 574                                    | 0.003 | 233.00 | 0.81   | 1.000 | 0.99998 |
| 4137              | 2                    | 3.88                        | 36                    | 5,536                         | 820                                    | 0.044 | 153.78 | 6.75   | 1.029 | 0.99984 |
| 4138              | 4                    | 6.06                        | 38                    | 1,443                         | 760                                    | 0.050 | 37.97  | 1.90   | 1.000 | 0.99996 |
| 4152              | 2                    | 8.69                        | 1,346                 | 233,766                       | 1,298                                  | 1.037 | 173.67 | 180.10 | 1.037 | 0.99583 |
| 4153              | 1                    | 1.13                        | 22                    | 1,504                         | 1,157                                  | 0.019 | 68.36  | 1.30   | 1.000 | 0.99997 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 4155              | 1                    | 1.25                        | 1                     | 75                            | 1,725                                  | 0.001 | 75.00  | 0.04  | 1.000 | 0.99999 |
| 4171              | 1                    | 1.63                        | 1                     | 98                            | 1,210                                  | 0.001 | 98.00  | 0.08  | 1.000 | 0.99999 |
| 4173              | 3                    | 1.45                        | 51                    | 1,926                         | 694                                    | 0.073 | 37.76  | 2.78  | 1.020 | 0.99994 |
| 4182              | 1                    | 5.37                        | 12                    | 3,868                         | 781                                    | 0.015 | 322.33 | 4.95  | 1.000 | 0.99989 |
| 4212              | 3                    | 3.93                        | 9                     | 932                           | 1,096                                  | 0.008 | 103.56 | 0.85  | 1.000 | 0.99998 |
| 4222              | 3                    | 3.56                        | 42                    | 2,525                         | 1,083                                  | 0.039 | 60.12  | 2.33  | 1.000 | 0.99995 |
| 4224              | 2                    | 5.15                        | 19                    | 3,009                         | 785                                    | 0.024 | 158.37 | 3.83  | 1.000 | 0.99991 |
| 4302              | 1                    | 0.62                        | 64                    | 2,371                         | 667                                    | 0.096 | 37.05  | 3.55  | 1.000 | 0.99992 |
| 4342              | 1                    | 1.35                        | 23                    | 1,879                         | 782                                    | 0.029 | 81.70  | 2.40  | 1.000 | 0.99994 |
| 4361              | 4                    | 4.28                        | 35                    | 2,498                         | 1,682                                  | 0.021 | 71.37  | 1.49  | 1.029 | 0.99997 |
| 4362              | 3                    | 2.79                        | 33                    | 3,744                         | 844                                    | 0.039 | 113.45 | 4.44  | 1.031 | 0.99990 |
| 4363              | 3                    | 6.83                        | 22                    | 967                           | 708                                    | 0.031 | 43.95  | 1.37  | 1.100 | 0.99997 |
| 4364              | 5                    | 3.26                        | 12                    | 567                           | 864                                    | 0.014 | 47.25  | 0.66  | 1.000 | 0.99998 |
| 4371              | 1                    | 0.98                        | 17                    | 1,003                         | 1,566                                  | 0.011 | 59.00  | 0.64  | 1.000 | 0.99999 |
| 4372              | 1                    | 1.80                        | 1                     | 108                           | 432                                    | 0.002 | 108.00 | 0.25  | 1.000 | 0.99999 |
| 4373              | 1                    | 1.95                        | 1                     | 117                           | 776                                    | 0.001 | 117.00 | 0.15  | 1.000 | 0.99999 |
| 4385              | 2                    | 1.84                        | 43                    | 2,522                         | 1,158                                  | 0.037 | 58.65  | 2.18  | 1.000 | 0.99995 |
| 4431              | 6                    | 6.50                        | 70                    | 4,312                         | 1,437                                  | 0.049 | 61.60  | 3.00  | 1.061 | 0.99993 |
| 4432              | 2                    | 4.38                        | 8                     | 913                           | 486                                    | 0.016 | 114.13 | 1.88  | 1.143 | 0.99996 |
| 4512              | 2                    | 6.55                        | 30                    | 5,266                         | 1,152                                  | 0.026 | 175.53 | 4.57  | 1.000 | 0.99989 |
| 4602              | 1                    | 1.07                        | 41                    | 2,639                         | 981                                    | 0.042 | 64.37  | 2.69  | 1.000 | 0.99994 |
| 4692              | 1                    | 2.32                        | 2                     | 278                           | 498                                    | 0.004 | 139.00 | 0.56  | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 4693              | 3                    | 2.97                        | 1,009                 | 59,198                        | 1000                                   | 1.009 | 58.67  | 59.198 | 1.009 | 0.99865 |
| 4714              | 1                    | 1.25                        | 356                   | 26,794                        | 356                                    | 1.000 | 75.26  | 75.26  | 1.000 | 0.99826 |
| 4783              | 1                    | 2.23                        | 1                     | 134                           | 257                                    | 0.004 | 134.00 | 0.52   | 1.000 | 0.99999 |
| 4791              | 5                    | 15.37                       | 187                   | 11,982                        | 631                                    | 0.296 | 64.07  | 18.99  | 1.039 | 0.99956 |
| 4793              | 2                    | 1.55                        | 2                     | 93                            | 787                                    | 0.003 | 46.50  | 0.12   | 1.000 | 0.99999 |
| 4901              | 3                    | 2.31                        | 68                    | 2,509                         | 66                                     | 1.030 | 36.90  | 38.02  | 1.030 | 0.99913 |
| 5601              | 2                    | 2.47                        | 6                     | 512                           | 1,307                                  | 0.005 | 85.33  | 0.39   | 1.000 | 0.99999 |
| 5602              | 1                    | 1.50                        | 19                    | 1,712                         | 719                                    | 0.026 | 90.11  | 2.38   | 1.000 | 0.99994 |
| 5603              | 6                    | 3.43                        | 58                    | 3,702                         | 1,519                                  | 0.038 | 63.83  | 2.44   | 1.094 | 0.99994 |
| 5902              | 1                    | 1.25                        | 80                    | 6,001                         | 977                                    | 0.082 | 75.01  | 6.14   | 1.000 | 0.99986 |
| 5905              | 4                    | 3.71                        | 79                    | 4,381                         | 1,950                                  | 0.041 | 55.46  | 2.25   | 1.013 | 0.99995 |
| 6023              | 1                    | 0.55                        | 1                     | 33                            | 131                                    | 0.008 | 33.00  | 0.25   | 1.000 | 0.99999 |
| 6141              | 1                    | 1.57                        | 9                     | 847                           | 653                                    | 0.014 | 94.11  | 1.30   | 1.000 | 0.99997 |
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
| Total:            | 255                  | 366.11                      | 10,141                | 822,104                       | 176,161                                | 0.058 | 81.07  | 4.67   | 1.052 | 0.99989 |

**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
10/1/2022 to 10/31/2022  
INCLUDING MAJOR EVENT DAYS

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 1050              | 2                    | 1.38                        | 74                    | 3,037                         | 1,774                                  | 0.042 | 41.04  | 1.71  | 1.000 | 0.99996 |
| 1051              | 1                    | 1.35                        | 7                     | 568                           | 559                                    | 0.013 | 81.14  | 1.02  | 1.000 | 0.99998 |
| 1052              | 1                    | 0.72                        | 83                    | 3,611                         | 1,208                                  | 0.069 | 43.51  | 2.99  | 1.000 | 0.99993 |
| 1082              | 5                    | 5.00                        | 5                     | 300                           | 1,416                                  | 0.004 | 60.00  | 0.21  | 1.000 | 0.99999 |
| 1091              | 7                    | 6.49                        | 1,087                 | 62,061                        | 935                                    | 1.163 | 57.09  | 66.38 | 1.163 | 0.99848 |
| 1092              | 1                    | 1.68                        | 1                     | 101                           | 1,090                                  | 0.001 | 101.00 | 0.09  | 1.000 | 0.99999 |
| 1094              | 14                   | 8.96                        | 834                   | 33,245                        | 1,267                                  | 0.658 | 39.86  | 26.24 | 1.060 | 0.99941 |
| 1101              | 2                    | 2.02                        | 71                    | 4,161                         | 808                                    | 0.088 | 58.61  | 5.15  | 1.000 | 0.99988 |
| 1102              | 4                    | 6.91                        | 139                   | 6,649                         | 1,124                                  | 0.124 | 47.83  | 5.92  | 1.007 | 0.99987 |
| 1142              | 1                    | 0.55                        | 1                     | 33                            | 158                                    | 0.006 | 33.00  | 0.21  | 1.000 | 0.99999 |
| 1212              | 1                    | 0.53                        | 1                     | 32                            | 345                                    | 0.003 | 32.00  | 0.09  | 1.000 | 0.99999 |
| 1230              | 5                    | 3.23                        | 95                    | 3,377                         | 1,252                                  | 0.076 | 35.55  | 2.70  | 1.011 | 0.99994 |
| 1233              | 3                    | 3.81                        | 61                    | 5,159                         | 652                                    | 0.094 | 84.57  | 7.91  | 1.000 | 0.99982 |
| 1241              | 1                    | 0.98                        | 1                     | 59                            | 892                                    | 0.001 | 59.00  | 0.07  | 1.000 | 0.99999 |
| 1242              | 1                    | 2.92                        | 1                     | 175                           | 861                                    | 0.001 | 175.00 | 0.20  | 1.000 | 0.99999 |
| 1243              | 1                    | 0.60                        | 2                     | 72                            | 1,252                                  | 0.002 | 36.00  | 0.06  | 1.000 | 0.99999 |
| 1282              | 1                    | 1.33                        | 171                   | 13,731                        | 706                                    | 0.242 | 80.30  | 19.45 | 1.000 | 0.99956 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1284              | 1                    | 1.93                        | 820                   | 95,652                        | 970                                    | 0.845 | 116.65 | 98.61  | 1.000 | 0.99779 |
| 1285              | 2                    | 2.68                        | 15                    | 1,024                         | 1,134                                  | 0.013 | 68.27  | 0.90   | 1.000 | 0.99998 |
| 1311              | 1                    | 2.93                        | 286                   | 50,397                        | 286                                    | 1.000 | 176.21 | 176.21 | 1.000 | 0.99605 |
| 1451              | 2                    | 1.75                        | 614                   | 55,061                        | 582                                    | 1.055 | 89.68  | 94.61  | 1.055 | 0.99788 |
| 1452              | 2                    | 1.73                        | 2                     | 104                           | 471                                    | 0.004 | 52.00  | 0.22   | 1.000 | 0.99999 |
| 1453              | 2                    | 1.35                        | 19                    | 835                           | 1,840                                  | 0.010 | 43.95  | 0.45   | 1.056 | 0.99999 |
| 1523              | 2                    | 2.47                        | 76                    | 7,280                         | 766                                    | 0.099 | 95.79  | 9.50   | 1.027 | 0.99979 |
| 1841              | 2                    | 1.80                        | 2                     | 108                           | 643                                    | 0.003 | 54.00  | 0.17   | 1.000 | 0.99999 |
| 1843              | 1                    | 1.17                        | 1                     | 70                            | 1,128                                  | 0.001 | 70.00  | 0.06   | 1.000 | 0.99999 |
| 2051              | 1                    | 0.98                        | 1                     | 59                            | 211                                    | 0.005 | 59.00  | 0.28   | 1.000 | 0.99999 |
| 2052              | 2                    | 2.95                        | 2                     | 177                           | 86                                     | 0.023 | 88.50  | 2.06   | 1.000 | 0.99995 |
| 2091              | 2                    | 1.83                        | 520                   | 20,268                        | 935                                    | 0.556 | 38.98  | 21.68  | 1.040 | 0.99951 |
| 2092              | 2                    | 2.95                        | 60                    | 5,338                         | 961                                    | 0.062 | 88.97  | 5.55   | 1.000 | 0.99988 |
| 2211              | 1                    | 0.58                        | 47                    | 1,682                         | 742                                    | 0.063 | 35.79  | 2.27   | 1.000 | 0.99995 |
| 2212              | 1                    | 0.93                        | 46                    | 2,587                         | 1,391                                  | 0.033 | 56.24  | 1.86   | 1.000 | 0.99996 |
| 2511              | 2                    | 2.85                        | 6                     | 378                           | 628                                    | 0.010 | 63.00  | 0.60   | 1.000 | 0.99999 |
| 2621              | 4                    | 7.64                        | 17                    | 1,238                         | 1,224                                  | 0.014 | 72.82  | 1.01   | 1.063 | 0.99998 |
| 2841              | 1                    | 1.03                        | 1                     | 62                            | 196                                    | 0.005 | 62.00  | 0.32   | 1.000 | 0.99999 |
| 2842              | 1                    | 0.83                        | 1                     | 50                            | 185                                    | 0.005 | 50.00  | 0.27   | 1.000 | 0.99999 |
| 2843              | 1                    | 0.37                        | 1                     | 22                            | 176                                    | 0.006 | 22.00  | 0.13   | 1.000 | 0.99999 |
| 2921              | 3                    | 3.77                        | 3                     | 226                           | 401                                    | 0.007 | 75.33  | 0.56   | 1.000 | 0.99999 |
| 2951              | 7                    | 10.06                       | 71                    | 5,466                         | 1,258                                  | 0.056 | 76.99  | 4.34   | 1.029 | 0.99990 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 3041              | 1                    | 1.70                        | 1                     | 102                           | 87                                     | 0.011 | 102.00 | 1.17   | 1.000 | 0.99997 |
| 3121              | 3                    | 2.95                        | 22                    | 1,472                         | 1,163                                  | 0.019 | 66.91  | 1.27   | 1.048 | 0.99997 |
| 3122              | 3                    | 10.92                       | 899                   | 171,260                       | 505                                    | 1.780 | 190.50 | 339.13 | 1.780 | 0.99226 |
| 3123              | 2                    | 3.02                        | 8                     | 909                           | 1,147                                  | 0.007 | 113.63 | 0.79   | 1.000 | 0.99998 |
| 3181              | 2                    | 2.98                        | 2                     | 179                           | 769                                    | 0.003 | 89.50  | 0.23   | 1.000 | 0.99999 |
| 3221              | 3                    | 2.20                        | 28                    | 1,027                         | 1,291                                  | 0.022 | 36.68  | 0.80   | 1.000 | 0.99998 |
| 3222              | 6                    | 5.56                        | 760                   | 39,641                        | 803                                    | 0.946 | 52.16  | 49.37  | 2.934 | 0.99889 |
| 3303              | 3                    | 3.93                        | 9                     | 523                           | 1,471                                  | 0.006 | 58.11  | 0.36   | 1.000 | 0.99999 |
| 3304              | 2                    | 1.78                        | 99                    | 6,457                         | 1,180                                  | 0.084 | 65.22  | 5.47   | 1.000 | 0.99988 |
| 3311              | 1                    | 0.93                        | 1                     | 56                            | 555                                    | 0.002 | 56.00  | 0.10   | 1.000 | 0.99999 |
| 3314              | 2                    | 5.37                        | 3                     | 492                           | 229                                    | 0.013 | 164.00 | 2.15   | 1.000 | 0.99995 |
| 3315              | 4                    | 7.91                        | 36                    | 7,049                         | 1,616                                  | 0.022 | 195.81 | 4.36   | 1.059 | 0.99990 |
| 3421              | 1                    | 1.05                        | 16                    | 1,008                         | 308                                    | 0.052 | 63.00  | 3.27   | 1.000 | 0.99993 |
| 3422              | 5                    | 9.31                        | 149                   | 13,413                        | 1,008                                  | 0.148 | 90.02  | 13.31  | 1.007 | 0.99970 |
| 3471              | 3                    | 3.20                        | 5                     | 237                           | 501                                    | 0.010 | 47.40  | 0.47   | 1.250 | 0.99999 |
| 3472              | 5                    | 5.43                        | 88                    | 4,574                         | 1,343                                  | 0.066 | 51.98  | 3.41   | 1.011 | 0.99992 |
| 3552              | 1                    | 8.42                        | 10                    | 5,052                         | 588                                    | 0.017 | 505.20 | 8.59   | 1.000 | 0.99981 |
| 3553              | 2                    | 2.08                        | 47                    | 3,113                         | 884                                    | 0.053 | 66.23  | 3.52   | 1.000 | 0.99992 |
| 3591              | 5                    | 6.88                        | 60                    | 5,176                         | 1,569                                  | 0.038 | 86.27  | 3.30   | 1.017 | 0.99993 |
| 3592              | 6                    | 8.11                        | 83                    | 5,373                         | 1,819                                  | 0.046 | 64.73  | 2.95   | 1.000 | 0.99993 |
| 3593              | 3                    | 0.87                        | 19                    | 448                           | 950                                    | 0.020 | 23.58  | 0.47   | 1.118 | 0.99999 |
| 3662              | 3                    | 1.33                        | 35                    | 870                           | 900                                    | 0.039 | 24.86  | 0.97   | 1.000 | 0.99998 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 3663              | 1                    | 1.22                        | 3                     | 221                           | 318                                    | 0.009 | 73.67  | 0.69   | 1.000 | 0.99998 |
| 3671              | 2                    | 0.85                        | 29                    | 713                           | 669                                    | 0.043 | 24.59  | 1.07   | 1.036 | 0.99998 |
| 3691              | 1                    | 0.28                        | 12                    | 215                           | 385                                    | 0.031 | 17.92  | 0.56   | 1.000 | 0.99999 |
| 3692              | 5                    | 12.63                       | 419                   | 74,551                        | 417                                    | 1.005 | 177.93 | 178.78 | 1.005 | 0.99600 |
| 3693              | 1                    | 1.47                        | 2                     | 176                           | 182                                    | 0.011 | 88.00  | 0.97   | 1.000 | 0.99998 |
| 3694              | 1                    | 0.82                        | 54                    | 2,658                         | 529                                    | 0.102 | 49.22  | 5.02   | 1.000 | 0.99989 |
| 3701              | 6                    | 2.00                        | 20                    | 715                           | 542                                    | 0.037 | 35.75  | 1.32   | 1.000 | 0.99997 |
| 3702              | 8                    | 2.44                        | 8                     | 146                           | 680                                    | 0.012 | 18.25  | 0.21   | 1.000 | 0.99999 |
| 3751              | 1                    | 0.80                        | 1                     | 48                            | 937                                    | 0.001 | 48.00  | 0.05   | 1.000 | 0.99999 |
| 3871              | 1                    | 1.15                        | 1                     | 69                            | 1,096                                  | 0.001 | 69.00  | 0.06   | 1.000 | 0.99999 |
| 3872              | 1                    | 0.95                        | 76                    | 4,392                         | 1,205                                  | 0.063 | 57.79  | 3.64   | 1.000 | 0.99992 |
| 3873              | 2                    | 2.21                        | 62                    | 4,157                         | 820                                    | 0.076 | 67.05  | 5.07   | 1.000 | 0.99989 |
| 3878              | 3                    | 3.31                        | 55                    | 3,757                         | 852                                    | 0.065 | 68.31  | 4.41   | 1.019 | 0.99990 |
| 3893              | 7                    | 11.96                       | 31                    | 2,305                         | 1,195                                  | 0.026 | 74.35  | 1.93   | 1.192 | 0.99996 |
| 3901              | 1                    | 1.62                        | 1                     | 97                            | 887                                    | 0.001 | 97.00  | 0.11   | 1.000 | 0.99999 |
| 3903              | 1                    | 1.15                        | 1                     | 69                            | 316                                    | 0.003 | 69.00  | 0.22   | 1.000 | 0.99999 |
| 3951              | 5                    | 11.22                       | 13                    | 1,428                         | 966                                    | 0.013 | 109.85 | 1.48   | 1.000 | 0.99997 |
| 3952              | 9                    | 8.25                        | 1,050                 | 44,808                        | 910                                    | 1.154 | 42.67  | 49.24  | 1.154 | 0.99890 |
| 3953              | 3                    | 2.68                        | 21                    | 1,363                         | 544                                    | 0.039 | 64.90  | 2.51   | 1.000 | 0.99994 |
| 3971              | 2                    | 1.88                        | 82                    | 6,519                         | 699                                    | 0.117 | 79.50  | 9.33   | 1.012 | 0.99979 |
| 3981              | 6                    | 8.43                        | 1,624                 | 71,662                        | 1,581                                  | 1.027 | 44.13  | 45.33  | 1.027 | 0.99898 |
| 3982              | 4                    | 3.54                        | 129                   | 5,418                         | 1,834                                  | 0.070 | 42.00  | 2.95   | 1.000 | 0.99993 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 3991              | 3                    | 3.65                        | 54                    | 2,535                         | 766                                    | 0.070 | 46.94  | 3.31   | 1.000 | 0.99993 |
| 4031              | 2                    | 1.36                        | 18                    | 655                           | 723                                    | 0.025 | 36.39  | 0.91   | 1.000 | 0.99998 |
| 4091              | 1                    | 1.97                        | 80                    | 9,441                         | 1,212                                  | 0.066 | 118.01 | 7.79   | 1.000 | 0.99983 |
| 4101              | 7                    | 5.81                        | 1,007                 | 51,600                        | 989                                    | 1.018 | 51.24  | 52.17  | 1.018 | 0.99883 |
| 4133              | 1                    | 1.13                        | 1                     | 68                            | 284                                    | 0.004 | 68.00  | 0.24   | 1.000 | 0.99999 |
| 4134              | 1                    | 2.25                        | 1                     | 135                           | 1,288                                  | 0.001 | 135.00 | 0.10   | 1.000 | 0.99999 |
| 4137              | 2                    | 6.52                        | 2                     | 391                           | 820                                    | 0.002 | 195.50 | 0.48   | 1.000 | 0.99999 |
| 4138              | 3                    | 9.06                        | 19                    | 4,621                         | 760                                    | 0.025 | 243.21 | 6.08   | 1.000 | 0.99986 |
| 4141              | 1                    | 7.40                        | 38                    | 16,877                        | 84                                     | 0.452 | 444.13 | 200.92 | 1.000 | 0.99550 |
| 4142              | 1                    | 1.93                        | 49                    | 5,695                         | 621                                    | 0.079 | 116.22 | 9.17   | 1.000 | 0.99979 |
| 4151              | 2                    | 3.07                        | 12                    | 1,119                         | 174                                    | 0.069 | 93.25  | 6.43   | 1.091 | 0.99986 |
| 4152              | 2                    | 5.27                        | 5                     | 957                           | 1,298                                  | 0.004 | 191.40 | 0.74   | 1.000 | 0.99998 |
| 4153              | 3                    | 3.68                        | 45                    | 3,710                         | 1,157                                  | 0.039 | 82.44  | 3.21   | 2.045 | 0.99993 |
| 4154              | 2                    | 5.63                        | 11                    | 2,367                         | 1,385                                  | 0.008 | 215.18 | 1.71   | 1.000 | 0.99996 |
| 4171              | 2                    | 1.36                        | 10                    | 412                           | 1,210                                  | 0.008 | 41.20  | 0.34   | 1.000 | 0.99999 |
| 4172              | 1                    | 4.70                        | 1                     | 282                           | 1,901                                  | 0.001 | 282.00 | 0.15   | 1.000 | 0.99999 |
| 4173              | 1                    | 2.75                        | 27                    | 4,479                         | 694                                    | 0.039 | 165.89 | 6.45   | 1.000 | 0.99986 |
| 4181              | 3                    | 4.54                        | 30                    | 3,167                         | 790                                    | 0.038 | 105.57 | 4.01   | 1.000 | 0.99991 |
| 4182              | 2                    | 3.01                        | 29                    | 2,712                         | 781                                    | 0.037 | 93.52  | 3.47   | 1.000 | 0.99992 |
| 4211              | 1                    | 0.53                        | 1                     | 32                            | 794                                    | 0.001 | 32.00  | 0.04   | 1.000 | 0.99999 |
| 4212              | 6                    | 7.81                        | 36                    | 1,750                         | 1,096                                  | 0.033 | 48.61  | 1.60   | 1.059 | 0.99996 |
| 4222              | 4                    | 3.26                        | 217                   | 9,908                         | 1,083                                  | 0.200 | 45.66  | 9.15   | 1.005 | 0.99980 |



| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 4223              | 1                    | 3.50                        | 1                     | 210                           | 1,138                                  | 0.001 | 210.00 | 0.18  | 1.000 | 0.99999 |
| 4302              | 1                    | 0.85                        | 64                    | 3,292                         | 667                                    | 0.096 | 51.44  | 4.94  | 1.000 | 0.99989 |
| 4303              | 3                    | 8.91                        | 122                   | 27,939                        | 1,387                                  | 0.088 | 229.01 | 20.14 | 1.008 | 0.99955 |
| 4313              | 1                    | 1.28                        | 1                     | 77                            | 559                                    | 0.002 | 77.00  | 0.14  | 1.000 | 0.99999 |
| 4332              | 2                    | 4.10                        | 26                    | 4,576                         | 367                                    | 0.071 | 176.00 | 12.47 | 1.040 | 0.99972 |
| 4333              | 1                    | 0.97                        | 1                     | 58                            | 732                                    | 0.001 | 58.00  | 0.08  | 1.000 | 0.99999 |
| 4343              | 1                    | 0.93                        | 3                     | 170                           | 1,692                                  | 0.002 | 56.67  | 0.10  | 1.000 | 0.99999 |
| 4344              | 1                    | 0.88                        | 30                    | 1,588                         | 369                                    | 0.081 | 52.93  | 4.30  | 1.000 | 0.99990 |
| 4361              | 2                    | 1.70                        | 23                    | 1,354                         | 1,682                                  | 0.014 | 58.87  | 0.80  | 1.000 | 0.99998 |
| 4362              | 2                    | 1.68                        | 48                    | 2,450                         | 844                                    | 0.057 | 51.04  | 2.90  | 1.000 | 0.99993 |
| 4363              | 1                    | 1.18                        | 20                    | 1,439                         | 708                                    | 0.028 | 71.95  | 2.03  | 1.000 | 0.99995 |
| 4364              | 4                    | 2.40                        | 41                    | 1,873                         | 864                                    | 0.047 | 45.68  | 2.17  | 1.025 | 0.99995 |
| 4371              | 2                    | 2.98                        | 46                    | 3,812                         | 1,566                                  | 0.029 | 82.87  | 2.43  | 1.000 | 0.99995 |
| 4372              | 3                    | 5.26                        | 9                     | 747                           | 432                                    | 0.021 | 83.00  | 1.73  | 1.125 | 0.99996 |
| 4373              | 2                    | 2.05                        | 55                    | 3,571                         | 776                                    | 0.071 | 64.93  | 4.60  | 1.100 | 0.99990 |
| 4383              | 1                    | 0.15                        | 122                   | 1,147                         | 148                                    | 0.824 | 9.40   | 7.75  | 1.000 | 0.99983 |
| 4385              | 1                    | 1.40                        | 1                     | 84                            | 1,158                                  | 0.001 | 84.00  | 0.07  | 1.000 | 0.99999 |
| 4431              | 4                    | 6.52                        | 55                    | 1,863                         | 1,437                                  | 0.038 | 33.87  | 1.30  | 1.038 | 0.99997 |
| 4432              | 5                    | 4.30                        | 288                   | 35,256                        | 486                                    | 0.593 | 122.42 | 72.54 | 4.881 | 0.99837 |
| 4511              | 2                    | 6.24                        | 74                    | 14,903                        | 1,147                                  | 0.065 | 201.39 | 12.99 | 1.370 | 0.99971 |
| 4601              | 14                   | 6.65                        | 54                    | 1,171                         | 408                                    | 0.132 | 21.69  | 2.87  | 1.038 | 0.99994 |
| 4602              | 3                    | 2.75                        | 8                     | 460                           | 981                                    | 0.008 | 57.50  | 0.47  | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 4692              | 1                    | 1.37                        | 8                     | 662                           | 498                                    | 0.016 | 82.75  | 1.33  | 1.000 | 0.99997 |
| 4693              | 3                    | 7.37                        | 55                    | 9,059                         | 173                                    | 0.318 | 164.71 | 52.36 | 1.000 | 0.99883 |
| 4791              | 3                    | 3.17                        | 17                    | 1,053                         | 631                                    | 0.027 | 61.94  | 1.67  | 1.133 | 0.99996 |
| 4793              | 1                    | 0.90                        | 61                    | 3,298                         | 787                                    | 0.078 | 54.07  | 4.19  | 1.000 | 0.99991 |
| 4794              | 8                    | 3.81                        | 30                    | 790                           | 398                                    | 0.075 | 26.33  | 1.98  | 1.111 | 0.99996 |
| 4891              | 1                    | 1.80                        | 1                     | 108                           | 598                                    | 0.002 | 108.00 | 0.18  | 1.000 | 0.99999 |
| 4903              | 1                    | 0.58                        | 1                     | 35                            | 165                                    | 0.006 | 35.00  | 0.21  | 1.000 | 0.99999 |
| 4905              | 2                    | 1.05                        | 45                    | 1,405                         | 410                                    | 0.110 | 31.22  | 3.43  | 1.000 | 0.99992 |
| 4906              | 2                    | 1.05                        | 124                   | 3,985                         | 1,316                                  | 0.094 | 32.14  | 3.03  | 1.033 | 0.99993 |
| 5601              | 4                    | 5.24                        | 212                   | 16,076                        | 1,307                                  | 0.162 | 75.83  | 12.30 | 1.010 | 0.99972 |
| 5603              | 2                    | 4.48                        | 51                    | 2,082                         | 1,519                                  | 0.034 | 40.82  | 1.37  | 1.000 | 0.99997 |
| 5901              | 2                    | 1.17                        | 56                    | 2,541                         | 895                                    | 0.063 | 45.38  | 2.84  | 1.018 | 0.99994 |
| 5902              | 1                    | 0.52                        | 31                    | 985                           | 977                                    | 0.032 | 31.77  | 1.01  | 1.000 | 0.99998 |
| 5904              | 1                    | 0.75                        | 223                   | 10,161                        | 1,307                                  | 0.171 | 45.57  | 7.77  | 1.000 | 0.99983 |
| 5905              | 1                    | 1.38                        | 1                     | 83                            | 1,950                                  | 0.001 | 83.00  | 0.04  | 1.000 | 0.99999 |
| 6021              | 4                    | 3.52                        | 22                    | 1,100                         | 1,376                                  | 0.016 | 50.00  | 0.80  | 1.100 | 0.99998 |
| 6022              | 2                    | 2.62                        | 25                    | 1,219                         | 572                                    | 0.044 | 48.76  | 2.13  | 1.000 | 0.99995 |
| 6141              | 2                    | 4.17                        | 2                     | 250                           | 653                                    | 0.003 | 125.00 | 0.38  | 1.000 | 0.99999 |
| 8001              | 1                    | 1.03                        | 1                     | 62                            | 5                                      | 0.200 | 62.00  | 12.40 | 1.000 | 0.99972 |
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
| Total:            | 381                  | 479.18                      | 15,070                | 1,164,280                     | 176,161                                | 0.086 | 77.26  | 6.61  | 1.157 | 0.99985 |

**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
11/1/2022 to 11/30/2022  
INCLUDING MAJOR EVENT DAYS

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 1082              | 1                    | 1.25                        | 1                     | 75                            | 1,418                                  | 0.001 | 75.00  | 0.05  | 1.000 | 0.99999 |
| 1091              | 2                    | 4.08                        | 98                    | 12,443                        | 785                                    | 0.125 | 126.97 | 15.85 | 1.000 | 0.99963 |
| 1092              | 3                    | 4.46                        | 38                    | 2,640                         | 1,070                                  | 0.036 | 69.47  | 2.47  | 1.027 | 0.99994 |
| 1101              | 1                    | 2.22                        | 1                     | 133                           | 810                                    | 0.001 | 133.00 | 0.16  | 1.000 | 0.99999 |
| 1102              | 1                    | 1.02                        | 36                    | 2,228                         | 1,126                                  | 0.032 | 61.89  | 1.98  | 1.000 | 0.99995 |
| 1103              | 3                    | 1.83                        | 56                    | 2,171                         | 1,016                                  | 0.055 | 38.77  | 2.14  | 1.018 | 0.99995 |
| 1213              | 3                    | 5.00                        | 13                    | 675                           | 582                                    | 0.022 | 51.92  | 1.16  | 1.083 | 0.99997 |
| 1230              | 1                    | 0.92                        | 1,252                 | 69,652                        | 1,252                                  | 1.000 | 55.63  | 55.63 | 1.000 | 0.99871 |
| 1233              | 2                    | 1.23                        | 2                     | 74                            | 652                                    | 0.003 | 37.00  | 0.11  | 1.000 | 0.99999 |
| 1271              | 4                    | 2.95                        | 53                    | 2,057                         | 1,002                                  | 0.053 | 38.81  | 2.05  | 1.019 | 0.99995 |
| 1285              | 1                    | 2.13                        | 13                    | 1,673                         | 1,134                                  | 0.011 | 128.69 | 1.48  | 1.000 | 0.99997 |
| 1452              | 10                   | 17.09                       | 223                   | 23,104                        | 472                                    | 0.472 | 103.61 | 48.95 | 1.032 | 0.99887 |
| 1453              | 6                    | 8.45                        | 57                    | 5,091                         | 1,842                                  | 0.031 | 89.32  | 2.76  | 1.018 | 0.99994 |
| 1455              | 2                    | 1.03                        | 25                    | 791                           | 425                                    | 0.059 | 31.64  | 1.86  | 1.000 | 0.99996 |
| 1843              | 1                    | 0.62                        | 1                     | 37                            | 1,137                                  | 0.001 | 37.00  | 0.03  | 1.000 | 0.99999 |
| 2051              | 2                    | 3.09                        | 214                   | 15,032                        | 214                                    | 1.000 | 70.24  | 70.24 | 1.005 | 0.99840 |
| 2092              | 4                    | 5.07                        | 91                    | 5,928                         | 962                                    | 0.095 | 65.14  | 6.16  | 1.000 | 0.99986 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 2211              | 1                    | 1.07                        | 31                    | 2,011                         | 742                                    | 0.042 | 64.87  | 2.71   | 1.000 | 0.99994 |
| 2511              | 2                    | 3.65                        | 631                   | 91,815                        | 628                                    | 1.005 | 145.51 | 146.20 | 1.005 | 0.99666 |
| 2621              | 1                    | 0.93                        | 50                    | 2,837                         | 1,229                                  | 0.041 | 56.74  | 2.31   | 1.000 | 0.99995 |
| 2843              | 1                    | 0.83                        | 19                    | 961                           | 176                                    | 0.108 | 50.58  | 5.46   | 1.000 | 0.99987 |
| 2951              | 1                    | 4.00                        | 29                    | 6,966                         | 1,266                                  | 0.023 | 240.21 | 5.50   | 1.000 | 0.99987 |
| 2952              | 2                    | 3.45                        | 43                    | 6,742                         | 385                                    | 0.112 | 156.79 | 17.51  | 1.000 | 0.99959 |
| 2961              | 1                    | 2.23                        | 8                     | 1,076                         | 660                                    | 0.012 | 134.50 | 1.63   | 1.000 | 0.99996 |
| 2962              | 3                    | 9.93                        | 84                    | 17,323                        | 264                                    | 0.318 | 206.23 | 65.62  | 1.063 | 0.99848 |
| 3121              | 1                    | 0.48                        | 1                     | 29                            | 1,164                                  | 0.001 | 29.00  | 0.02   | 1.000 | 0.99999 |
| 3122              | 1                    | 2.08                        | 1                     | 125                           | 898                                    | 0.001 | 125.00 | 0.14   | 1.000 | 0.99999 |
| 3123              | 2                    | 2.38                        | 21                    | 1,743                         | 1,148                                  | 0.018 | 83.00  | 1.52   | 1.050 | 0.99996 |
| 3181              | 2                    | 2.23                        | 2                     | 134                           | 770                                    | 0.003 | 67.00  | 0.17   | 1.000 | 0.99999 |
| 3221              | 1                    | 1.02                        | 18                    | 1,111                         | 1,295                                  | 0.014 | 61.72  | 0.86   | 1.000 | 0.99998 |
| 3222              | 2                    | 5.09                        | 41                    | 9,592                         | 804                                    | 0.051 | 233.95 | 11.93  | 1.000 | 0.99972 |
| 3301              | 1                    | 0.72                        | 13                    | 560                           | 768                                    | 0.017 | 43.08  | 0.73   | 1.000 | 0.99998 |
| 3303              | 4                    | 3.06                        | 13                    | 756                           | 1,473                                  | 0.009 | 58.15  | 0.51   | 1.182 | 0.99999 |
| 3313              | 2                    | 1.64                        | 2                     | 98                            | 1,552                                  | 0.001 | 49.00  | 0.06   | 1.000 | 0.99999 |
| 3315              | 8                    | 10.89                       | 86                    | 7,444                         | 1,618                                  | 0.053 | 86.56  | 4.60   | 1.365 | 0.99989 |
| 3421              | 1                    | 0.93                        | 1                     | 56                            | 308                                    | 0.003 | 56.00  | 0.18   | 1.000 | 0.99999 |
| 3422              | 2                    | 1.57                        | 2                     | 94                            | 1,010                                  | 0.002 | 47.00  | 0.09   | 1.000 | 0.99999 |
| 3423              | 1                    | 1.23                        | 21                    | 1,570                         | 407                                    | 0.052 | 74.76  | 3.86   | 1.000 | 0.99991 |
| 3471              | 1                    | 2.67                        | 5                     | 800                           | 502                                    | 0.010 | 160.00 | 1.59   | 1.000 | 0.99996 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 3472              | 1                    | 2.53                        | 1                     | 152                           | 1,345                                  | 0.001 | 152.00 | 0.11  | 1.000 | 0.99999 |
| 3551              | 1                    | 7.12                        | 13                    | 5,551                         | 1,048                                  | 0.012 | 427.00 | 5.30  | 1.000 | 0.99988 |
| 3552              | 1                    | 1.17                        | 126                   | 8,813                         | 589                                    | 0.214 | 69.94  | 14.96 | 1.000 | 0.99965 |
| 3553              | 1                    | 0.83                        | 1                     | 50                            | 886                                    | 0.001 | 50.00  | 0.06  | 1.000 | 0.99999 |
| 3591              | 3                    | 2.51                        | 48                    | 2,522                         | 1,578                                  | 0.030 | 52.54  | 1.60  | 1.000 | 0.99996 |
| 3592              | 1                    | 3.80                        | 10                    | 2,280                         | 1,822                                  | 0.005 | 228.00 | 1.25  | 1.000 | 0.99997 |
| 3593              | 1                    | 1.57                        | 176                   | 16,552                        | 950                                    | 0.185 | 94.05  | 17.42 | 1.000 | 0.99960 |
| 3621              | 2                    | 0.95                        | 1,627                 | 6,584                         | 1,626                                  | 1.001 | 4.05   | 4.05  | 1.001 | 0.99991 |
| 3661              | 4                    | 3.52                        | 34                    | 1,231                         | 1,117                                  | 0.030 | 36.21  | 1.10  | 1.097 | 0.99997 |
| 3662              | 1                    | 0.13                        | 1                     | 8                             | 901                                    | 0.001 | 8.00   | 0.01  | 1.000 | 0.99999 |
| 3664              | 4                    | 4.63                        | 14                    | 942                           | 586                                    | 0.024 | 67.29  | 1.61  | 1.273 | 0.99996 |
| 3671              | 3                    | 1.95                        | 671                   | 16,450                        | 670                                    | 1.001 | 24.52  | 24.55 | 1.003 | 0.99943 |
| 3673              | 1                    | 1.20                        | 5                     | 364                           | 276                                    | 0.018 | 72.80  | 1.32  | 1.000 | 0.99997 |
| 3675              | 1                    | 0.53                        | 7                     | 226                           | 551                                    | 0.013 | 32.29  | 0.41  | 1.000 | 0.99999 |
| 3692              | 1                    | 0.70                        | 1                     | 42                            | 418                                    | 0.002 | 42.00  | 0.10  | 1.000 | 0.99999 |
| 3701              | 3                    | 3.57                        | 4                     | 248                           | 546                                    | 0.007 | 62.00  | 0.45  | 1.000 | 0.99999 |
| 3751              | 3                    | 4.77                        | 35                    | 3,187                         | 938                                    | 0.037 | 91.06  | 3.40  | 1.029 | 0.99992 |
| 3871              | 4                    | 9.67                        | 77                    | 14,844                        | 1,098                                  | 0.070 | 192.78 | 13.52 | 1.791 | 0.99969 |
| 3872              | 3                    | 5.32                        | 21                    | 2,931                         | 1,210                                  | 0.017 | 139.57 | 2.42  | 1.000 | 0.99994 |
| 3874              | 1                    | 3.67                        | 1                     | 220                           | 205                                    | 0.005 | 220.00 | 1.07  | 1.000 | 0.99998 |
| 3878              | 3                    | 3.02                        | 55                    | 3,773                         | 854                                    | 0.064 | 68.60  | 4.42  | 1.019 | 0.99990 |
| 3891              | 1                    | 1.08                        | 1                     | 65                            | 465                                    | 0.002 | 65.00  | 0.14  | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 3892              | 1                    | 2.17                        | 1                     | 130                           | 553                                    | 0.002 | 130.00 | 0.24   | 1.000 | 0.99999 |
| 3893              | 7                    | 10.83                       | 26                    | 2,620                         | 1,200                                  | 0.022 | 100.77 | 2.18   | 1.238 | 0.99995 |
| 3901              | 1                    | 0.93                        | 1                     | 56                            | 887                                    | 0.001 | 56.00  | 0.06   | 1.000 | 0.99999 |
| 3952              | 6                    | 26.62                       | 104                   | 35,463                        | 914                                    | 0.114 | 340.99 | 38.80  | 1.030 | 0.99910 |
| 3981              | 2                    | 3.10                        | 5                     | 423                           | 1,584                                  | 0.003 | 84.60  | 0.27   | 1.000 | 0.99999 |
| 3982              | 6                    | 5.18                        | 52                    | 4,230                         | 1,835                                  | 0.028 | 81.35  | 2.31   | 1.040 | 0.99995 |
| 3991              | 4                    | 7.50                        | 31                    | 1,976                         | 768                                    | 0.040 | 63.74  | 2.57   | 1.107 | 0.99994 |
| 4031              | 2                    | 2.53                        | 20                    | 1,182                         | 724                                    | 0.028 | 59.10  | 1.63   | 1.053 | 0.99996 |
| 4091              | 3                    | 4.00                        | 150                   | 13,094                        | 1,214                                  | 0.124 | 87.29  | 10.79  | 1.007 | 0.99975 |
| 4092              | 4                    | 12.57                       | 465                   | 79,742                        | 462                                    | 1.006 | 171.49 | 172.60 | 1.890 | 0.99600 |
| 4101              | 3                    | 3.54                        | 98                    | 5,335                         | 990                                    | 0.099 | 54.44  | 5.39   | 1.167 | 0.99988 |
| 4131              | 1                    | 1.15                        | 1                     | 69                            | 206                                    | 0.005 | 69.00  | 0.33   | 1.000 | 0.99999 |
| 4134              | 4                    | 8.33                        | 11                    | 1,619                         | 1,288                                  | 0.009 | 147.18 | 1.26   | 1.000 | 0.99997 |
| 4137              | 9                    | 15.52                       | 52                    | 5,818                         | 821                                    | 0.063 | 111.88 | 7.09   | 1.040 | 0.99984 |
| 4138              | 1                    | 0.27                        | 1                     | 16                            | 758                                    | 0.001 | 16.00  | 0.02   | 1.000 | 0.99999 |
| 4151              | 1                    | 0.62                        | 11                    | 415                           | 174                                    | 0.063 | 37.73  | 2.39   | 1.000 | 0.99994 |
| 4152              | 3                    | 9.43                        | 310                   | 6,445                         | 1,298                                  | 0.239 | 20.79  | 4.97   | 1.003 | 0.99989 |
| 4153              | 1                    | 0.30                        | 1                     | 18                            | 1,183                                  | 0.001 | 18.00  | 0.02   | 1.000 | 0.99999 |
| 4171              | 2                    | 2.35                        | 1,242                 | 105,994                       | 1,210                                  | 1.026 | 85.34  | 87.60  | 1.026 | 0.99797 |
| 4212              | 4                    | 2.60                        | 63                    | 2,969                         | 1,098                                  | 0.057 | 47.13  | 2.70   | 1.016 | 0.99994 |
| 4223              | 1                    | 0.38                        | 1                     | 23                            | 1,140                                  | 0.001 | 23.00  | 0.02   | 1.000 | 0.99999 |
| 4224              | 2                    | 2.15                        | 10                    | 432                           | 786                                    | 0.013 | 43.20  | 0.55   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 4302              | 1                    | 0.58                        | 64                    | 2,279                         | 670                                    | 0.096 | 35.61  | 3.40  | 1.000 | 0.99992 |
| 4303              | 1                    | 3.48                        | 11                    | 2,303                         | 1,391                                  | 0.008 | 209.36 | 1.66  | 1.000 | 0.99996 |
| 4342              | 1                    | 1.15                        | 84                    | 5,773                         | 791                                    | 0.106 | 68.73  | 7.30  | 1.000 | 0.99983 |
| 4344              | 1                    | 0.72                        | 30                    | 1,292                         | 370                                    | 0.081 | 43.07  | 3.49  | 1.000 | 0.99992 |
| 4361              | 2                    | 4.38                        | 16                    | 734                           | 1,692                                  | 0.009 | 45.88  | 0.43  | 1.000 | 0.99999 |
| 4362              | 1                    | 1.15                        | 1                     | 69                            | 844                                    | 0.001 | 69.00  | 0.08  | 1.000 | 0.99999 |
| 4363              | 1                    | 0.80                        | 41                    | 2,006                         | 709                                    | 0.058 | 48.93  | 2.83  | 1.000 | 0.99993 |
| 4364              | 1                    | 1.25                        | 21                    | 1,582                         | 866                                    | 0.024 | 75.33  | 1.83  | 1.000 | 0.99996 |
| 4371              | 4                    | 3.54                        | 16                    | 878                           | 1,570                                  | 0.010 | 54.88  | 0.56  | 2.000 | 0.99999 |
| 4386              | 1                    | 2.28                        | 295                   | 40,641                        | 1,659                                  | 0.178 | 137.77 | 24.50 | 1.000 | 0.99943 |
| 4431              | 7                    | 9.76                        | 34                    | 2,873                         | 1,443                                  | 0.024 | 84.50  | 1.99  | 1.097 | 0.99995 |
| 4432              | 1                    | 1.12                        | 2                     | 135                           | 487                                    | 0.004 | 67.50  | 0.28  | 1.000 | 0.99999 |
| 4511              | 1                    | 1.03                        | 16                    | 1,003                         | 1,148                                  | 0.014 | 62.69  | 0.87  | 1.000 | 0.99998 |
| 4602              | 1                    | 1.87                        | 1                     | 112                           | 984                                    | 0.001 | 112.00 | 0.11  | 1.000 | 0.99999 |
| 4693              | 1                    | 1.18                        | 1                     | 71                            | 174                                    | 0.006 | 71.00  | 0.41  | 1.000 | 0.99999 |
| 4791              | 1                    | 0.92                        | 1                     | 55                            | 632                                    | 0.002 | 55.00  | 0.09  | 1.000 | 0.99999 |
| 4794              | 7                    | 5.82                        | 77                    | 3,981                         | 398                                    | 0.193 | 51.70  | 10.00 | 1.069 | 0.99977 |
| 4892              | 4                    | 3.71                        | 56                    | 3,107                         | 332                                    | 0.169 | 55.48  | 9.36  | 2.000 | 0.99978 |
| 4901              | 1                    | 0.90                        | 16                    | 867                           | 20                                     | 0.800 | 54.19  | 43.35 | 1.000 | 0.99900 |
| 4903              | 1                    | 0.75                        | 1                     | 45                            | 166                                    | 0.006 | 45.00  | 0.27  | 1.000 | 0.99999 |
| 4906              | 1                    | 4.98                        | 23                    | 6,899                         | 1,317                                  | 0.017 | 299.96 | 5.24  | 1.000 | 0.99988 |
| 5601              | 4                    | 4.78                        | 34                    | 2,371                         | 1,309                                  | 0.026 | 69.74  | 1.81  | 1.000 | 0.99996 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 5602              | 1                    | 1.32                        | 1                     | 79                            | 720                                    | 0.001 | 79.00  | 0.11  | 1.000 | 0.99999 |
| 5901              | 1                    | 1.00                        | 894                   | 53,833                        | 898                                    | 0.996 | 60.22  | 59.95 | 1.000 | 0.99861 |
| 5902              | 1                    | 0.60                        | 11                    | 403                           | 978                                    | 0.011 | 36.64  | 0.41  | 1.000 | 0.99999 |
| 6021              | 3                    | 2.99                        | 28                    | 1,161                         | 1,378                                  | 0.020 | 41.46  | 0.84  | 1.037 | 0.99998 |
| 6022              | 1                    | 2.13                        | 1                     | 128                           | 574                                    | 0.002 | 128.00 | 0.22  | 1.000 | 0.99999 |
| 6141              | 1                    | 2.42                        | 1                     | 145                           | 656                                    | 0.002 | 145.00 | 0.22  | 1.000 | 0.99999 |
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
| Total:            | 252                  | 377.44                      | 10,658                | 787,576                       | 175,880                                | 0.061 | 73.90  | 4.48  | 1.041 | 0.99990 |



**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
12/1/2022 to 12/31/2022  
INCLUDING MAJOR EVENT DAYS

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 1050              | 1                    | 2.57                        | 1                     | 154                           | 1,777                                  | 0.001 | 154.00 | 0.09  | 1.000 | 0.99999 |
| 1051              | 2                    | 2.81                        | 1,611                 | 91,479                        | 1,603                                  | 1.005 | 56.78  | 57.07 | 1.005 | 0.99870 |
| 1082              | 7                    | 18.54                       | 14                    | 2,617                         | 1,419                                  | 0.010 | 186.93 | 1.84  | 1.000 | 0.99996 |
| 1092              | 6                    | 8.09                        | 19                    | 1,402                         | 1,050                                  | 0.018 | 73.79  | 1.34  | 1.188 | 0.99997 |
| 1093              | 1                    | 5.05                        | 4                     | 1,213                         | 236                                    | 0.017 | 303.25 | 5.14  | 1.000 | 0.99988 |
| 1101              | 1                    | 0.77                        | 1                     | 46                            | 812                                    | 0.001 | 46.00  | 0.06  | 1.000 | 0.99999 |
| 1102              | 5                    | 3.50                        | 104                   | 3,728                         | 1,127                                  | 0.092 | 35.85  | 3.31  | 1.020 | 0.99993 |
| 1103              | 2                    | 1.90                        | 47                    | 2,523                         | 1,017                                  | 0.046 | 53.68  | 2.48  | 1.000 | 0.99994 |
| 1141              | 2                    | 4.05                        | 916                   | 85,443                        | 915                                    | 1.001 | 93.28  | 93.38 | 1.001 | 0.99791 |
| 1211              | 2                    | 1.84                        | 929                   | 26,876                        | 1,517                                  | 0.612 | 28.93  | 17.72 | 1.009 | 0.99960 |
| 1212              | 3                    | 3.97                        | 3                     | 238                           | 350                                    | 0.009 | 79.33  | 0.68  | 1.000 | 0.99998 |
| 1213              | 2                    | 1.37                        | 4                     | 170                           | 583                                    | 0.007 | 42.50  | 0.29  | 1.000 | 0.99999 |
| 1230              | 4                    | 7.36                        | 25                    | 2,254                         | 1,253                                  | 0.020 | 90.16  | 1.80  | 1.000 | 0.99996 |
| 1233              | 1                    | 0.70                        | 1                     | 42                            | 652                                    | 0.002 | 42.00  | 0.06  | 1.000 | 0.99999 |
| 1241              | 3                    | 3.78                        | 897                   | 46,530                        | 896                                    | 1.001 | 51.87  | 51.93 | 1.019 | 0.99884 |
| 1242              | 2                    | 9.43                        | 2                     | 566                           | 862                                    | 0.002 | 283.00 | 0.66  | 1.000 | 0.99999 |
| 1243              | 4                    | 5.86                        | 116                   | 7,943                         | 1,259                                  | 0.092 | 68.47  | 6.31  | 1.009 | 0.99986 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 1271              | 1                    | 0.40                        | 1                     | 24                            | 1,006                                  | 0.001 | 24.00  | 0.02  | 1.000 | 0.99999 |
| 1312              | 1                    | 1.87                        | 2                     | 225                           | 994                                    | 0.002 | 112.50 | 0.23  | 1.000 | 0.99999 |
| 1451              | 1                    | 0.98                        | 3                     | 177                           | 586                                    | 0.005 | 59.00  | 0.30  | 1.000 | 0.99999 |
| 1452              | 2                    | 2.75                        | 2                     | 165                           | 472                                    | 0.004 | 82.50  | 0.35  | 1.000 | 0.99999 |
| 1522              | 1                    | 10.17                       | 1                     | 610                           | 107                                    | 0.009 | 610.00 | 5.70  | 1.000 | 0.99987 |
| 1523              | 1                    | 0.65                        | 1                     | 39                            | 773                                    | 0.001 | 39.00  | 0.05  | 1.000 | 0.99999 |
| 1841              | 1                    | 1.23                        | 8                     | 596                           | 653                                    | 0.012 | 74.50  | 0.91  | 1.000 | 0.99998 |
| 2091              | 1                    | 1.40                        | 7                     | 590                           | 950                                    | 0.007 | 84.29  | 0.62  | 1.000 | 0.99999 |
| 2092              | 1                    | 1.25                        | 75                    | 5,655                         | 962                                    | 0.078 | 75.40  | 5.88  | 1.000 | 0.99987 |
| 2171              | 1                    | 0.70                        | 5                     | 212                           | 597                                    | 0.008 | 42.40  | 0.36  | 1.000 | 0.99999 |
| 2172              | 2                    | 3.02                        | 31                    | 2,894                         | 253                                    | 0.123 | 93.35  | 11.44 | 1.000 | 0.99974 |
| 2211              | 1                    | 1.55                        | 34                    | 3,186                         | 743                                    | 0.046 | 93.71  | 4.29  | 1.000 | 0.99990 |
| 2212              | 5                    | 10.41                       | 5                     | 625                           | 1,394                                  | 0.004 | 125.00 | 0.45  | 1.250 | 0.99999 |
| 2491              | 1                    | 1.90                        | 1                     | 114                           | 66                                     | 0.015 | 114.00 | 1.73  | 1.000 | 0.99996 |
| 2492              | 1                    | 0.87                        | 3                     | 157                           | 30                                     | 0.100 | 52.33  | 5.23  | 1.000 | 0.99988 |
| 2511              | 1                    | 0.53                        | 1                     | 32                            | 631                                    | 0.002 | 32.00  | 0.05  | 1.000 | 0.99999 |
| 2621              | 2                    | 2.52                        | 11                    | 914                           | 1,234                                  | 0.009 | 83.09  | 0.74  | 1.000 | 0.99998 |
| 2951              | 5                    | 8.50                        | 47                    | 5,766                         | 1,275                                  | 0.037 | 122.68 | 4.52  | 1.000 | 0.99990 |
| 2961              | 4                    | 2.43                        | 114                   | 4,095                         | 660                                    | 0.173 | 35.92  | 6.20  | 1.009 | 0.99986 |
| 3121              | 2                    | 2.21                        | 33                    | 2,455                         | 1,164                                  | 0.028 | 74.39  | 2.11  | 1.000 | 0.99995 |
| 3123              | 1                    | 0.98                        | 5                     | 297                           | 1,149                                  | 0.004 | 59.40  | 0.26  | 1.000 | 0.99999 |
| 3181              | 1                    | 1.58                        | 6                     | 570                           | 771                                    | 0.008 | 95.00  | 0.74  | 1.000 | 0.99998 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 3221              | 3                    | 2.70                        | 5                     | 324                           | 1,299                                  | 0.004 | 64.80  | 0.25  | 1.000 | 0.99999 |
| 3231              | 1                    | 1.78                        | 1                     | 107                           | 229                                    | 0.004 | 107.00 | 0.47  | 1.000 | 0.99999 |
| 3303              | 1                    | 0.43                        | 1                     | 26                            | 1,475                                  | 0.001 | 26.00  | 0.02  | 1.000 | 0.99999 |
| 3304              | 1                    | 0.78                        | 13                    | 619                           | 1,186                                  | 0.011 | 47.62  | 0.52  | 1.000 | 0.99999 |
| 3313              | 1                    | 1.17                        | 38                    | 2,663                         | 1,554                                  | 0.024 | 70.08  | 1.71  | 1.000 | 0.99996 |
| 3315              | 3                    | 3.20                        | 18                    | 1,065                         | 1,620                                  | 0.011 | 59.17  | 0.66  | 1.059 | 0.99999 |
| 3471              | 3                    | 3.72                        | 21                    | 2,173                         | 502                                    | 0.042 | 103.48 | 4.33  | 1.105 | 0.99990 |
| 3472              | 2                    | 3.96                        | 119                   | 16,673                        | 1,347                                  | 0.088 | 140.11 | 12.38 | 1.008 | 0.99972 |
| 3551              | 1                    | 1.20                        | 1                     | 72                            | 1,049                                  | 0.001 | 72.00  | 0.07  | 1.000 | 0.99999 |
| 3553              | 2                    | 3.12                        | 13                    | 1,084                         | 887                                    | 0.015 | 83.38  | 1.22  | 1.000 | 0.99997 |
| 3592              | 2                    | 3.33                        | 83                    | 6,037                         | 1,824                                  | 0.046 | 72.73  | 3.31  | 1.000 | 0.99993 |
| 3621              | 1                    | 0.62                        | 19                    | 709                           | 1,626                                  | 0.012 | 37.32  | 0.44  | 1.000 | 0.99999 |
| 3661              | 4                    | 7.28                        | 216                   | 35,368                        | 1,120                                  | 0.193 | 163.74 | 31.58 | 1.009 | 0.99929 |
| 3662              | 1                    | 0.48                        | 1                     | 29                            | 902                                    | 0.001 | 29.00  | 0.03  | 1.000 | 0.99999 |
| 3663              | 1                    | 1.33                        | 6                     | 481                           | 321                                    | 0.019 | 80.17  | 1.50  | 1.000 | 0.99997 |
| 3664              | 1                    | 1.53                        | 1                     | 92                            | 588                                    | 0.002 | 92.00  | 0.16  | 1.000 | 0.99999 |
| 3671              | 4                    | 5.16                        | 132                   | 11,074                        | 670                                    | 0.197 | 83.89  | 16.53 | 1.031 | 0.99963 |
| 3701              | 5                    | 3.32                        | 5                     | 199                           | 549                                    | 0.009 | 39.80  | 0.36  | 1.000 | 0.99999 |
| 3702              | 2                    | 1.57                        | 24                    | 1,307                         | 689                                    | 0.035 | 54.46  | 1.90  | 1.000 | 0.99996 |
| 3751              | 1                    | 0.95                        | 35                    | 2,028                         | 940                                    | 0.037 | 57.94  | 2.16  | 1.000 | 0.99995 |
| 3871              | 1                    | 1.20                        | 39                    | 2,843                         | 1,100                                  | 0.035 | 72.90  | 2.58  | 1.000 | 0.99994 |
| 3872              | 1                    | 1.12                        | 76                    | 5,127                         | 1,214                                  | 0.063 | 67.46  | 4.22  | 1.000 | 0.99991 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 3878              | 1                    | 0.67                        | 12                    | 481                           | 856                                    | 0.014 | 40.08  | 0.56   | 1.000 | 0.99999 |
| 3891              | 4                    | 6.44                        | 219                   | 17,764                        | 466                                    | 0.470 | 81.11  | 38.12  | 1.564 | 0.99915 |
| 3892              | 1                    | 2.20                        | 4                     | 528                           | 554                                    | 0.007 | 132.00 | 0.95   | 1.000 | 0.99998 |
| 3893              | 2                    | 1.76                        | 20                    | 1,127                         | 1,205                                  | 0.017 | 56.35  | 0.94   | 1.053 | 0.99998 |
| 3913              | 1                    | 4.30                        | 47                    | 12,141                        | 831                                    | 0.057 | 258.32 | 14.61  | 1.000 | 0.99967 |
| 3951              | 1                    | 1.87                        | 1                     | 112                           | 967                                    | 0.001 | 112.00 | 0.12   | 1.000 | 0.99999 |
| 3953              | 2                    | 2.50                        | 13                    | 952                           | 545                                    | 0.024 | 73.23  | 1.75   | 1.000 | 0.99996 |
| 3971              | 3                    | 3.95                        | 5                     | 314                           | 703                                    | 0.007 | 62.80  | 0.45   | 1.250 | 0.99999 |
| 3981              | 2                    | 2.05                        | 102                   | 8,313                         | 1,587                                  | 0.064 | 81.50  | 5.24   | 1.010 | 0.99988 |
| 3982              | 5                    | 5.14                        | 56                    | 3,230                         | 1,836                                  | 0.031 | 57.68  | 1.76   | 1.000 | 0.99996 |
| 3991              | 4                    | 8.43                        | 9                     | 1,946                         | 769                                    | 0.012 | 216.22 | 2.53   | 1.125 | 0.99994 |
| 401               | 1                    | 0.72                        | 24                    | 1,052                         | 128                                    | 0.188 | 43.83  | 8.22   | 1.000 | 0.99982 |
| 403               | 1                    | 2.47                        | 268                   | 39,771                        | 275                                    | 0.975 | 148.40 | 144.62 | 1.000 | 0.99676 |
| 404               | 1                    | 0.80                        | 66                    | 3,203                         | 188                                    | 0.351 | 48.53  | 17.04  | 1.000 | 0.99962 |
| 4091              | 2                    | 3.71                        | 65                    | 9,259                         | 1,216                                  | 0.053 | 142.45 | 7.61   | 1.000 | 0.99983 |
| 4101              | 3                    | 4.26                        | 14                    | 1,072                         | 991                                    | 0.014 | 76.57  | 1.08   | 1.000 | 0.99998 |
| 4132              | 1                    | 1.65                        | 1                     | 99                            | 575                                    | 0.002 | 99.00  | 0.17   | 1.000 | 0.99999 |
| 4133              | 1                    | 0.48                        | 195                   | 5,811                         | 285                                    | 0.684 | 29.80  | 20.39  | 1.000 | 0.99954 |
| 4134              | 5                    | 8.91                        | 2,628                 | 262,402                       | 1,288                                  | 2.040 | 99.85  | 203.73 | 2.040 | 0.99544 |
| 4135              | 1                    | 1.32                        | 66                    | 5,258                         | 66                                     | 1.000 | 79.67  | 79.67  | 1.000 | 0.99822 |
| 4136              | 1                    | 0.95                        | 686                   | 39,719                        | 686                                    | 1.000 | 57.90  | 57.90  | 1.000 | 0.99870 |
| 4138              | 3                    | 2.58                        | 27                    | 1,305                         | 756                                    | 0.036 | 48.33  | 1.73   | 1.000 | 0.99996 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 4151              | 1                    | 0.72                        | 11                    | 481                           | 175                                    | 0.063 | 43.73  | 2.75  | 1.000 | 0.99994 |
| 4171              | 2                    | 2.02                        | 32                    | 1,653                         | 1,211                                  | 0.026 | 51.66  | 1.36  | 1.032 | 0.99997 |
| 4172              | 1                    | 0.83                        | 1                     | 50                            | 1,908                                  | 0.001 | 50.00  | 0.03  | 1.000 | 0.99999 |
| 4211              | 1                    | 3.68                        | 3                     | 664                           | 806                                    | 0.004 | 221.33 | 0.82  | 1.000 | 0.99998 |
| 4212              | 1                    | 0.95                        | 14                    | 805                           | 1,101                                  | 0.013 | 57.50  | 0.73  | 1.000 | 0.99998 |
| 4222              | 1                    | 0.85                        | 155                   | 7,928                         | 1,087                                  | 0.143 | 51.15  | 7.29  | 1.000 | 0.99984 |
| 4223              | 1                    | 1.22                        | 1                     | 73                            | 1,143                                  | 0.001 | 73.00  | 0.06  | 1.000 | 0.99999 |
| 4303              | 1                    | 1.25                        | 32                    | 2,400                         | 1,395                                  | 0.023 | 75.00  | 1.72  | 1.000 | 0.99996 |
| 4332              | 1                    | 0.88                        | 375                   | 20,193                        | 375                                    | 1.000 | 53.85  | 53.85 | 1.000 | 0.99879 |
| 4333              | 1                    | 1.80                        | 1                     | 108                           | 751                                    | 0.001 | 108.00 | 0.14  | 1.000 | 0.99999 |
| 4334              | 2                    | 1.55                        | 110                   | 5,333                         | 305                                    | 0.361 | 48.48  | 17.49 | 1.009 | 0.99961 |
| 4344              | 1                    | 0.37                        | 38                    | 861                           | 370                                    | 0.103 | 22.66  | 2.33  | 1.000 | 0.99995 |
| 4362              | 2                    | 2.10                        | 11                    | 916                           | 844                                    | 0.013 | 83.27  | 1.09  | 1.000 | 0.99998 |
| 4371              | 3                    | 4.89                        | 1,578                 | 148,438                       | 1,575                                  | 1.002 | 94.07  | 94.25 | 1.003 | 0.99789 |
| 4386              | 5                    | 10.18                       | 450                   | 142,556                       | 1,659                                  | 0.271 | 316.79 | 85.93 | 1.166 | 0.99808 |
| 4431              | 7                    | 13.45                       | 77                    | 15,317                        | 1,449                                  | 0.053 | 198.92 | 10.57 | 1.750 | 0.99976 |
| 4432              | 3                    | 7.20                        | 9                     | 1,874                         | 488                                    | 0.018 | 208.22 | 3.84  | 1.125 | 0.99991 |
| 4601              | 4                    | 4.82                        | 9                     | 548                           | 408                                    | 0.022 | 60.89  | 1.34  | 1.000 | 0.99997 |
| 4692              | 1                    | 3.47                        | 30                    | 6,255                         | 506                                    | 0.059 | 208.50 | 12.36 | 1.000 | 0.99972 |
| 4714              | 1                    | 0.82                        | 97                    | 4,838                         | 360                                    | 0.269 | 49.88  | 13.44 | 1.000 | 0.99970 |
| 4903              | 1                    | 0.62                        | 1                     | 37                            | 168                                    | 0.006 | 37.00  | 0.22  | 1.000 | 0.99999 |
| 5601              | 2                    | 3.00                        | 5                     | 391                           | 1,311                                  | 0.004 | 78.20  | 0.30  | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|-------|-------|-------|---------|
| 5602              | 1                    | 0.88                        | 1                     | 53                            | 720                                    | 0.001 | 53.00 | 0.07  | 1.000 | 0.99999 |
| 5603              | 2                    | 2.44                        | 49                    | 4,323                         | 1,527                                  | 0.032 | 88.22 | 2.83  | 1.000 | 0.99994 |
| 5903              | 1                    | 0.63                        | 1                     | 38                            | 291                                    | 0.003 | 38.00 | 0.13  | 1.000 | 0.99999 |
| 5905              | 1                    | 0.83                        | 1                     | 50                            | 1,953                                  | 0.001 | 50.00 | 0.03  | 1.000 | 0.99999 |
| 6023              | 2                    | 2.28                        | 2                     | 137                           | 131                                    | 0.015 | 68.50 | 1.05  | 1.000 | 0.99998 |
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI | SAIDI | CAIFI | ASAI    |
| Total:            | 223                  | 330.33                      | 13,579                | 1,174,901                     | 177,119                                | 0.077 | 86.52 | 6.63  | 1.132 | 0.99985 |

**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
1/1/2022 to 1/31/2022  
EXCLUDING MAJOR EVENT DAYS

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1082              | 1                    | 2.33                        | 1                     | 140                           | 1,394                                  | 0.001 | 140.00 | 0.10   | 1.000 | 0.99999 |
| 1091              | 1                    | 0.58                        | 1                     | 35                            | 721                                    | 0.001 | 35.00  | 0.05   | 1.000 | 0.99999 |
| 1094              | 1                    | 0.37                        | 1                     | 22                            | 1,255                                  | 0.001 | 22.00  | 0.02   | 1.000 | 0.99999 |
| 1102              | 2                    | 0.42                        | 37                    | 560                           | 1,084                                  | 0.034 | 15.14  | 0.52   | 1.000 | 0.99999 |
| 1103              | 1                    | 0.52                        | 17                    | 534                           | 1,008                                  | 0.017 | 31.41  | 0.53   | 1.000 | 0.99999 |
| 1232              | 1                    | 1.08                        | 1                     | 65                            | 1,209                                  | 0.001 | 65.00  | 0.05   | 1.000 | 0.99999 |
| 1233              | 2                    | 1.23                        | 73                    | 1,548                         | 649                                    | 0.112 | 21.21  | 2.39   | 1.014 | 0.99995 |
| 1241              | 1                    | 2.60                        | 1                     | 156                           | 890                                    | 0.001 | 156.00 | 0.18   | 1.000 | 0.99999 |
| 1242              | 1                    | 1.88                        | 1                     | 113                           | 858                                    | 0.001 | 113.00 | 0.13   | 1.000 | 0.99999 |
| 1265              | 1                    | 1.58                        | 1                     | 95                            | 1,306                                  | 0.001 | 95.00  | 0.07   | 1.000 | 0.99999 |
| 1273              | 1                    | 1.60                        | 9                     | 868                           | 871                                    | 0.010 | 96.44  | 1.00   | 1.000 | 0.99998 |
| 1311              | 1                    | 3.30                        | 284                   | 56,250                        | 284                                    | 1.000 | 198.06 | 198.06 | 1.000 | 0.99556 |
| 1312              | 1                    | 2.55                        | 9                     | 1,377                         | 977                                    | 0.009 | 153.00 | 1.41   | 1.000 | 0.99997 |
| 1452              | 1                    | 0.98                        | 3                     | 177                           | 462                                    | 0.006 | 59.00  | 0.38   | 1.000 | 0.99999 |
| 1453              | 3                    | 4.73                        | 3                     | 284                           | 1,826                                  | 0.002 | 94.67  | 0.16   | 1.500 | 0.99999 |
| 1842              | 1                    | 2.70                        | 1,417                 | 230,286                       | 1,417                                  | 1.000 | 162.52 | 162.52 | 1.000 | 0.99629 |
| 2091              | 1                    | 0.97                        | 1                     | 58                            | 923                                    | 0.001 | 58.00  | 0.06   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 2211              | 1                    | 2.05                        | 1                     | 123                           | 742                                    | 0.001 | 123.00 | 0.17  | 1.000 | 0.99999 |
| 2212              | 1                    | 0.85                        | 1                     | 51                            | 1,384                                  | 0.001 | 51.00  | 0.04  | 1.000 | 0.99999 |
| 2511              | 1                    | 1.97                        | 17                    | 2,007                         | 626                                    | 0.027 | 118.06 | 3.21  | 1.000 | 0.99993 |
| 2951              | 3                    | 3.92                        | 1,275                 | 60,538                        | 1,256                                  | 1.015 | 47.48  | 48.20 | 1.015 | 0.99892 |
| 2961              | 1                    | 2.67                        | 40                    | 6,411                         | 656                                    | 0.061 | 160.28 | 9.77  | 1.000 | 0.99978 |
| 2962              | 1                    | 0.55                        | 6                     | 203                           | 263                                    | 0.023 | 33.83  | 0.77  | 1.000 | 0.99998 |
| 3121              | 1                    | 0.60                        | 1                     | 36                            | 1,156                                  | 0.001 | 36.00  | 0.03  | 1.000 | 0.99999 |
| 3122              | 2                    | 2.46                        | 16                    | 1,492                         | 891                                    | 0.018 | 93.25  | 1.67  | 1.067 | 0.99996 |
| 3181              | 1                    | 1.05                        | 35                    | 2,212                         | 767                                    | 0.046 | 63.20  | 2.88  | 1.000 | 0.99994 |
| 3221              | 2                    | 3.12                        | 4                     | 422                           | 1,289                                  | 0.003 | 105.50 | 0.33  | 1.000 | 0.99999 |
| 3231              | 1                    | 2.95                        | 1                     | 177                           | 216                                    | 0.005 | 177.00 | 0.82  | 1.000 | 0.99998 |
| 3303              | 1                    | 1.30                        | 10                    | 780                           | 1,792                                  | 0.006 | 78.00  | 0.44  | 1.000 | 0.99999 |
| 3304              | 2                    | 2.43                        | 2                     | 146                           | 1,178                                  | 0.002 | 73.00  | 0.12  | 1.000 | 0.99999 |
| 3313              | 2                    | 1.85                        | 17                    | 1,200                         | 1,525                                  | 0.011 | 70.59  | 0.79  | 1.000 | 0.99998 |
| 3471              | 2                    | 5.43                        | 2                     | 326                           | 496                                    | 0.004 | 163.00 | 0.66  | 1.000 | 0.99999 |
| 3472              | 3                    | 3.77                        | 3                     | 226                           | 1,327                                  | 0.002 | 75.33  | 0.17  | 1.000 | 0.99999 |
| 3551              | 1                    | 0.50                        | 8                     | 241                           | 1,045                                  | 0.008 | 30.13  | 0.23  | 1.000 | 0.99999 |
| 3553              | 1                    | 0.88                        | 1                     | 53                            | 878                                    | 0.001 | 53.00  | 0.06  | 1.000 | 0.99999 |
| 3621              | 2                    | 1.86                        | 1,609                 | 100,523                       | 1,608                                  | 1.001 | 62.48  | 62.51 | 1.001 | 0.99860 |
| 3661              | 2                    | 1.99                        | 47                    | 3,288                         | 1,082                                  | 0.043 | 69.96  | 3.04  | 1.000 | 0.99993 |
| 3662              | 1                    | 0.63                        | 1                     | 38                            | 892                                    | 0.001 | 38.00  | 0.04  | 1.000 | 0.99999 |
| 3663              | 2                    | 2.71                        | 2                     | 163                           | 312                                    | 0.006 | 81.50  | 0.52  | 1.000 | 0.99999 |



| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 3701              | 2                    | 1.53                        | 2                     | 92                            | 535                                    | 0.004 | 46.00  | 0.17  | 1.000 | 0.99999 |
| 3751              | 2                    | 1.27                        | 948                   | 35,231                        | 929                                    | 1.020 | 37.16  | 37.92 | 1.020 | 0.99915 |
| 3872              | 1                    | 1.25                        | 23                    | 1,736                         | 1,180                                  | 0.019 | 75.48  | 1.47  | 1.000 | 0.99997 |
| 3878              | 1                    | 2.80                        | 1                     | 168                           | 847                                    | 0.001 | 168.00 | 0.20  | 1.000 | 0.99999 |
| 3892              | 1                    | 1.87                        | 87                    | 9,780                         | 541                                    | 0.161 | 112.41 | 18.08 | 1.000 | 0.99960 |
| 3893              | 3                    | 3.12                        | 3                     | 187                           | 1,171                                  | 0.003 | 62.33  | 0.16  | 1.000 | 0.99999 |
| 3912              | 1                    | 1.42                        | 1                     | 85                            | 1,366                                  | 0.001 | 85.00  | 0.06  | 1.000 | 0.99999 |
| 3913              | 1                    | 0.60                        | 12                    | 439                           | 825                                    | 0.015 | 36.58  | 0.53  | 1.000 | 0.99999 |
| 3914              | 1                    | 1.08                        | 1                     | 65                            | 396                                    | 0.003 | 65.00  | 0.16  | 1.000 | 0.99999 |
| 3951              | 2                    | 7.80                        | 2                     | 468                           | 961                                    | 0.002 | 234.00 | 0.49  | 1.000 | 0.99999 |
| 3952              | 14                   | 27.01                       | 320                   | 55,075                        | 1,309                                  | 0.244 | 172.11 | 42.07 | 1.077 | 0.99906 |
| 3981              | 2                    | 1.92                        | 9                     | 675                           | 1,568                                  | 0.006 | 75.00  | 0.43  | 1.000 | 0.99999 |
| 3991              | 1                    | 0.87                        | 1                     | 52                            | 761                                    | 0.001 | 52.00  | 0.07  | 1.000 | 0.99999 |
| 403               | 1                    | 0.35                        | 1                     | 21                            | 270                                    | 0.004 | 21.00  | 0.08  | 1.000 | 0.99999 |
| 4101              | 2                    | 1.02                        | 2                     | 61                            | 981                                    | 0.002 | 30.50  | 0.06  | 1.000 | 0.99999 |
| 4138              | 1                    | 1.53                        | 1                     | 92                            | 760                                    | 0.001 | 92.00  | 0.12  | 1.000 | 0.99999 |
| 4141              | 2                    | 3.58                        | 2                     | 215                           | 84                                     | 0.024 | 107.50 | 2.56  | 1.000 | 0.99994 |
| 4171              | 1                    | 3.52                        | 1                     | 211                           | 1,186                                  | 0.001 | 211.00 | 0.18  | 1.000 | 0.99999 |
| 4181              | 2                    | 4.07                        | 85                    | 10,001                        | 783                                    | 0.109 | 117.66 | 12.77 | 1.012 | 0.99971 |
| 4211              | 1                    | 3.35                        | 161                   | 32,428                        | 719                                    | 0.224 | 201.42 | 45.10 | 1.000 | 0.99899 |
| 4212              | 1                    | 0.58                        | 33                    | 1,170                         | 1,084                                  | 0.030 | 35.45  | 1.08  | 1.000 | 0.99998 |
| 4222              | 3                    | 1.53                        | 4                     | 129                           | 1,073                                  | 0.004 | 32.25  | 0.12  | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 4311              | 1                    | 1.57                        | 1                     | 94                            | 748                                    | 0.001 | 94.00  | 0.13   | 1.000 | 0.99999 |
| 4312              | 3                    | 27.00                       | 3                     | 1,620                         | 900                                    | 0.003 | 540.00 | 1.80   | 3.000 | 0.99996 |
| 4331              | 2                    | 5.54                        | 62                    | 12,123                        | 332                                    | 0.187 | 195.53 | 36.52  | 1.000 | 0.99918 |
| 4341              | 1                    | 1.02                        | 1                     | 61                            | 1,825                                  | 0.001 | 61.00  | 0.03   | 1.000 | 0.99999 |
| 4343              | 1                    | 1.17                        | 1                     | 70                            | 1,680                                  | 0.001 | 70.00  | 0.04   | 1.000 | 0.99999 |
| 4361              | 12                   | 14.91                       | 259                   | 20,932                        | 1,660                                  | 0.156 | 80.82  | 12.61  | 1.016 | 0.99972 |
| 4362              | 1                    | 0.85                        | 24                    | 1,246                         | 840                                    | 0.029 | 51.92  | 1.48   | 1.000 | 0.99997 |
| 4371              | 5                    | 7.96                        | 16                    | 1,420                         | 1,556                                  | 0.010 | 88.75  | 0.91   | 1.000 | 0.99998 |
| 4373              | 2                    | 5.53                        | 166                   | 22,876                        | 769                                    | 0.216 | 137.81 | 29.75  | 1.085 | 0.99933 |
| 4381              | 1                    | 2.83                        | 5                     | 851                           | 8                                      | 0.625 | 170.20 | 106.38 | 1.000 | 0.99762 |
| 4431              | 2                    | 1.08                        | 2                     | 65                            | 1,428                                  | 0.001 | 32.50  | 0.05   | 1.000 | 0.99999 |
| 4692              | 1                    | 3.97                        | 6                     | 1,433                         | 488                                    | 0.012 | 238.83 | 2.94   | 1.000 | 0.99993 |
| 4714              | 1                    | 1.48                        | 10                    | 892                           | 349                                    | 0.029 | 89.20  | 2.56   | 1.000 | 0.99994 |
| 5601              | 4                    | 3.43                        | 118                   | 6,378                         | 1,297                                  | 0.091 | 54.05  | 4.92   | 1.000 | 0.99989 |
| 5602              | 1                    | 0.90                        | 1                     | 54                            | 715                                    | 0.001 | 54.00  | 0.08   | 1.000 | 0.99999 |
| 5603              | 2                    | 3.72                        | 176                   | 18,786                        | 1,484                                  | 0.119 | 106.74 | 12.66  | 1.006 | 0.99972 |
| 5905              | 1                    | 3.75                        | 5                     | 1,125                         | 1,941                                  | 0.003 | 225.00 | 0.58   | 1.000 | 0.99999 |
| 6141              | 1                    | 1.68                        | 6                     | 610                           | 651                                    | 0.009 | 101.67 | 0.94   | 1.000 | 0.99998 |
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
| Total:            | 143                  | 235.42                      | 7,521                 | 712,241                       | 174,258                                | 0.043 | 94.70  | 4.09   | 1.012 | 0.99991 |

**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
*2/1/2022 to 2/28/2022*  
**EXCLUDING MAJOR EVENT DAYS**

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1051              | 1                    | 0.98                        | 35                    | 2,070                         | 785                                    | 0.045 | 59.14  | 2.64   | 1.000 | 0.99993 |
| 1082              | 4                    | 5.45                        | 1,550                 | 101,083                       | 1,394                                  | 1.112 | 65.21  | 72.51  | 1.180 | 0.99820 |
| 1092              | 2                    | 3.91                        | 249                   | 33,395                        | 959                                    | 0.260 | 134.12 | 34.82  | 1.004 | 0.99914 |
| 1094              | 1                    | 0.72                        | 1                     | 43                            | 1,255                                  | 0.001 | 43.00  | 0.03   | 1.000 | 0.99999 |
| 1102              | 3                    | 3.43                        | 95                    | 6,811                         | 1,084                                  | 0.088 | 71.69  | 6.28   | 1.011 | 0.99984 |
| 1103              | 3                    | 4.58                        | 66                    | 6,876                         | 1,008                                  | 0.065 | 104.18 | 6.82   | 1.000 | 0.99983 |
| 1211              | 1                    | 3.77                        | 1                     | 226                           | 1,506                                  | 0.001 | 226.00 | 0.15   | 1.000 | 0.99999 |
| 1212              | 1                    | 3.80                        | 1                     | 228                           | 343                                    | 0.003 | 228.00 | 0.66   | 1.000 | 0.99998 |
| 1230              | 2                    | 1.28                        | 2                     | 77                            | 1,232                                  | 0.002 | 38.50  | 0.06   | 2.000 | 0.99999 |
| 1263              | 1                    | 0.98                        | 65                    | 3,863                         | 1,217                                  | 0.053 | 59.43  | 3.17   | 1.000 | 0.99992 |
| 1265              | 2                    | 4.73                        | 46                    | 8,629                         | 1,306                                  | 0.035 | 187.59 | 6.61   | 1.000 | 0.99984 |
| 1271              | 3                    | 5.80                        | 3                     | 348                           | 988                                    | 0.003 | 116.00 | 0.35   | 1.000 | 0.99999 |
| 1273              | 1                    | 1.52                        | 6                     | 550                           | 871                                    | 0.007 | 91.67  | 0.63   | 1.000 | 0.99998 |
| 1281              | 1                    | 0.32                        | 1                     | 19                            | 170                                    | 0.006 | 19.00  | 0.11   | 1.000 | 0.99999 |
| 1284              | 1                    | 0.75                        | 1                     | 45                            | 955                                    | 0.001 | 45.00  | 0.05   | 1.000 | 0.99999 |
| 1311              | 1                    | 1.92                        | 284                   | 32,820                        | 284                                    | 1.000 | 115.56 | 115.56 | 1.000 | 0.99713 |
| 1312              | 1                    | 2.10                        | 1                     | 126                           | 977                                    | 0.001 | 126.00 | 0.13   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1452              | 1                    | 0.52                        | 1                     | 31                            | 462                                    | 0.002 | 31.00  | 0.07   | 1.000 | 0.99999 |
| 1453              | 3                    | 6.33                        | 28                    | 5,417                         | 1,826                                  | 0.015 | 193.46 | 2.97   | 1.000 | 0.99993 |
| 1523              | 1                    | 0.90                        | 1                     | 54                            | 763                                    | 0.001 | 54.00  | 0.07   | 1.000 | 0.99999 |
| 1842              | 1                    | 3.03                        | 6                     | 1,096                         | 298                                    | 0.020 | 182.67 | 3.68   | 1.000 | 0.99991 |
| 2092              | 1                    | 1.92                        | 28                    | 3,234                         | 953                                    | 0.029 | 115.50 | 3.39   | 1.000 | 0.99992 |
| 2171              | 1                    | 1.07                        | 7                     | 450                           | 593                                    | 0.012 | 64.29  | 0.76   | 1.000 | 0.99998 |
| 2211              | 1                    | 1.18                        | 47                    | 3,359                         | 742                                    | 0.063 | 71.47  | 4.53   | 1.000 | 0.99989 |
| 2501              | 1                    | 4.50                        | 84                    | 22,686                        | 84                                     | 1.000 | 270.07 | 270.07 | 1.000 | 0.99330 |
| 2621              | 1                    | 1.92                        | 25                    | 2,787                         | 1,212                                  | 0.021 | 111.48 | 2.30   | 1.000 | 0.99994 |
| 2951              | 2                    | 2.22                        | 45                    | 2,816                         | 1,256                                  | 0.036 | 62.58  | 2.24   | 1.125 | 0.99994 |
| 3041              | 1                    | 4.43                        | 83                    | 22,155                        | 87                                     | 0.954 | 266.93 | 254.66 | 1.000 | 0.99368 |
| 3121              | 2                    | 0.65                        | 2                     | 39                            | 1,156                                  | 0.002 | 19.50  | 0.03   | 1.000 | 0.99999 |
| 3122              | 1                    | 1.58                        | 1                     | 95                            | 891                                    | 0.001 | 95.00  | 0.11   | 1.000 | 0.99999 |
| 3221              | 3                    | 12.43                       | 22                    | 6,815                         | 1,289                                  | 0.017 | 309.77 | 5.29   | 1.048 | 0.99987 |
| 3222              | 3                    | 8.88                        | 3                     | 533                           | 801                                    | 0.004 | 177.67 | 0.67   | 1.000 | 0.99998 |
| 3302              | 1                    | 0.58                        | 1                     | 35                            | 652                                    | 0.002 | 35.00  | 0.05   | 1.000 | 0.99999 |
| 3303              | 1                    | 0.10                        | 1                     | 6                             | 1,792                                  | 0.001 | 6.00   | 0.00   | 1.000 | 0.99999 |
| 3304              | 1                    | 0.95                        | 469                   | 26,983                        | 1,178                                  | 0.398 | 57.53  | 22.91  | 1.000 | 0.99943 |
| 3313              | 1                    | 0.92                        | 17                    | 940                           | 1,525                                  | 0.011 | 55.29  | 0.62   | 1.000 | 0.99998 |
| 3315              | 1                    | 0.68                        | 1                     | 41                            | 1,620                                  | 0.001 | 41.00  | 0.03   | 1.000 | 0.99999 |
| 3472              | 2                    | 1.18                        | 26                    | 990                           | 1,327                                  | 0.020 | 38.08  | 0.75   | 1.040 | 0.99998 |
| 3592              | 3                    | 4.47                        | 30                    | 2,567                         | 1,808                                  | 0.017 | 85.57  | 1.42   | 1.000 | 0.99996 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 3621              | 1                    | 2.77                        | 1                     | 166                           | 1,608                                  | 0.001 | 166.00 | 0.10   | 1.000 | 0.99999 |
| 3664              | 1                    | 0.65                        | 1                     | 39                            | 582                                    | 0.002 | 39.00  | 0.07   | 1.000 | 0.99999 |
| 3692              | 1                    | 2.67                        | 1                     | 160                           | 417                                    | 0.002 | 160.00 | 0.38   | 1.000 | 0.99999 |
| 3701              | 1                    | 1.07                        | 1                     | 64                            | 535                                    | 0.002 | 64.00  | 0.12   | 1.000 | 0.99999 |
| 3751              | 1                    | 1.90                        | 1                     | 114                           | 929                                    | 0.001 | 114.00 | 0.12   | 1.000 | 0.99999 |
| 3891              | 1                    | 1.40                        | 1                     | 84                            | 451                                    | 0.002 | 84.00  | 0.19   | 1.000 | 0.99999 |
| 3893              | 1                    | 0.50                        | 26                    | 785                           | 1,171                                  | 0.022 | 30.19  | 0.67   | 1.000 | 0.99998 |
| 3903              | 2                    | 1.72                        | 12                    | 943                           | 315                                    | 0.038 | 78.58  | 2.99   | 1.000 | 0.99993 |
| 3912              | 2                    | 2.40                        | 2                     | 144                           | 1,366                                  | 0.001 | 72.00  | 0.11   | 1.000 | 0.99999 |
| 3913              | 1                    | 1.37                        | 12                    | 990                           | 825                                    | 0.015 | 82.50  | 1.20   | 1.000 | 0.99997 |
| 3953              | 3                    | 3.08                        | 3                     | 185                           | 543                                    | 0.006 | 61.67  | 0.34   | 1.000 | 0.99999 |
| 3971              | 1                    | 0.80                        | 2                     | 96                            | 693                                    | 0.003 | 48.00  | 0.14   | 1.000 | 0.99999 |
| 3982              | 1                    | 1.08                        | 34                    | 2,224                         | 1,827                                  | 0.019 | 65.41  | 1.22   | 1.000 | 0.99997 |
| 3991              | 1                    | 1.13                        | 5                     | 343                           | 761                                    | 0.007 | 68.60  | 0.45   | 1.000 | 0.99999 |
| 402               | 2                    | 1.84                        | 2                     | 110                           | 108                                    | 0.019 | 55.00  | 1.02   | 1.000 | 0.99997 |
| 403               | 1                    | 0.72                        | 1                     | 43                            | 270                                    | 0.004 | 43.00  | 0.16   | 1.000 | 0.99999 |
| 4031              | 1                    | 2.02                        | 714                   | 86,405                        | 714                                    | 1.000 | 121.02 | 121.02 | 1.000 | 0.99700 |
| 4092              | 1                    | 1.52                        | 1                     | 91                            | 458                                    | 0.002 | 91.00  | 0.20   | 1.000 | 0.99999 |
| 4101              | 2                    | 3.62                        | 21                    | 1,612                         | 981                                    | 0.021 | 76.76  | 1.64   | 1.050 | 0.99996 |
| 4131              | 1                    | 1.35                        | 1                     | 81                            | 205                                    | 0.005 | 81.00  | 0.40   | 1.000 | 0.99999 |
| 4133              | 5                    | 5.31                        | 66                    | 5,859                         | 284                                    | 0.232 | 88.77  | 20.63  | 1.650 | 0.99949 |
| 4142              | 1                    | 4.18                        | 1                     | 251                           | 621                                    | 0.002 | 251.00 | 0.40   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 4152              | 2                    | 3.95                        | 29                    | 2,420                         | 1,297                                  | 0.022 | 83.45  | 1.87   | 1.036 | 0.99995 |
| 4153              | 2                    | 7.58                        | 108                   | 24,615                        | 1,133                                  | 0.095 | 227.92 | 21.73  | 1.059 | 0.99946 |
| 4171              | 1                    | 1.50                        | 1                     | 90                            | 1,186                                  | 0.001 | 90.00  | 0.08   | 1.000 | 0.99999 |
| 4172              | 2                    | 1.23                        | 5                     | 206                           | 1,855                                  | 0.003 | 41.20  | 0.11   | 1.250 | 0.99999 |
| 4173              | 2                    | 1.37                        | 9                     | 366                           | 691                                    | 0.013 | 40.67  | 0.53   | 1.000 | 0.99999 |
| 4182              | 1                    | 1.42                        | 9                     | 773                           | 779                                    | 0.012 | 85.89  | 0.99   | 1.000 | 0.99998 |
| 4211              | 1                    | 1.35                        | 1                     | 81                            | 719                                    | 0.001 | 81.00  | 0.11   | 1.000 | 0.99999 |
| 4222              | 5                    | 6.35                        | 50                    | 3,833                         | 1,073                                  | 0.047 | 76.66  | 3.57   | 1.064 | 0.99991 |
| 4224              | 1                    | 1.97                        | 1                     | 118                           | 772                                    | 0.001 | 118.00 | 0.15   | 1.000 | 0.99999 |
| 4303              | 2                    | 10.62                       | 85                    | 25,468                        | 1,304                                  | 0.065 | 299.62 | 19.53  | 1.000 | 0.99952 |
| 4341              | 1                    | 5.20                        | 1                     | 312                           | 1,825                                  | 0.001 | 312.00 | 0.17   | 1.000 | 0.99999 |
| 4361              | 1                    | 0.45                        | 1                     | 27                            | 1,660                                  | 0.001 | 27.00  | 0.02   | 1.000 | 0.99999 |
| 4362              | 1                    | 1.70                        | 1                     | 102                           | 840                                    | 0.001 | 102.00 | 0.12   | 1.000 | 0.99999 |
| 4383              | 1                    | 2.07                        | 147                   | 18,355                        | 147                                    | 1.000 | 124.86 | 124.86 | 1.000 | 0.99690 |
| 4385              | 1                    | 2.13                        | 1,156                 | 148,372                       | 1,156                                  | 1.000 | 128.35 | 128.35 | 1.000 | 0.99682 |
| 4386              | 1                    | 2.12                        | 1,656                 | 211,360                       | 1,656                                  | 1.000 | 127.63 | 127.63 | 1.000 | 0.99683 |
| 4431              | 2                    | 1.90                        | 17                    | 1,150                         | 1,428                                  | 0.012 | 67.65  | 0.81   | 1.063 | 0.99998 |
| 4602              | 1                    | 1.28                        | 1                     | 77                            | 978                                    | 0.001 | 77.00  | 0.08   | 1.000 | 0.99999 |
| 4692              | 1                    | 0.93                        | 5                     | 284                           | 488                                    | 0.010 | 56.80  | 0.58   | 1.000 | 0.99999 |
| 4791              | 1                    | 1.83                        | 607                   | 67,326                        | 627                                    | 0.968 | 110.92 | 107.38 | 1.000 | 0.99734 |
| 4891              | 1                    | 3.42                        | 1                     | 205                           | 593                                    | 0.002 | 205.00 | 0.35   | 1.000 | 0.99999 |
| 5601              | 3                    | 4.05                        | 95                    | 5,401                         | 1,297                                  | 0.073 | 56.85  | 4.16   | 1.000 | 0.99990 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 5602              | 1                    | 1.05                        | 1                     | 63                            | 715                                    | 0.001 | 63.00  | 0.09  | 1.000 | 0.99999 |
| 5603              | 3                    | 5.99                        | 18                    | 2,455                         | 1,484                                  | 0.012 | 136.39 | 1.65  | 1.125 | 0.99996 |
| 6141              | 1                    | 1.37                        | 5                     | 411                           | 651                                    | 0.008 | 82.20  | 0.63  | 1.000 | 0.99998 |
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
| Total:            | 133                  | 222.41                      | 8,254                 | 914,997                       | 174,258                                | 0.047 | 110.85 | 5.25  | 1.036 | 0.99987 |

**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
3/1/2022 to 3/31/2022  
EXCLUDING MAJOR EVENT DAYS

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1050              | 2                    | 1.70                        | 39                    | 2,669                         | 1,762                                  | 0.022 | 68.44  | 1.51   | 1.026 | 0.99997 |
| 1051              | 1                    | 0.80                        | 19                    | 925                           | 785                                    | 0.024 | 48.68  | 1.18   | 1.000 | 0.99997 |
| 1052              | 2                    | 3.45                        | 177                   | 11,669                        | 1,195                                  | 0.148 | 65.93  | 9.76   | 1.006 | 0.99978 |
| 1082              | 2                    | 2.40                        | 2                     | 144                           | 1,394                                  | 0.001 | 72.00  | 0.10   | 1.000 | 0.99999 |
| 1091              | 1                    | 0.77                        | 34                    | 1,567                         | 721                                    | 0.047 | 46.09  | 2.17   | 1.000 | 0.99995 |
| 1092              | 2                    | 5.35                        | 261                   | 70,290                        | 959                                    | 0.272 | 269.31 | 73.30  | 1.052 | 0.99836 |
| 1102              | 2                    | 5.87                        | 63                    | 9,190                         | 1,084                                  | 0.058 | 145.87 | 8.48   | 1.370 | 0.99981 |
| 1103              | 1                    | 0.68                        | 38                    | 1,562                         | 1,008                                  | 0.038 | 41.11  | 1.55   | 1.000 | 0.99997 |
| 1211              | 3                    | 11.17                       | 3,013                 | 805,469                       | 1,506                                  | 2.001 | 267.33 | 534.84 | 2.001 | 0.98802 |
| 1212              | 2                    | 8.83                        | 686                   | 182,235                       | 343                                    | 2.000 | 265.65 | 531.30 | 2.000 | 0.98810 |
| 1213              | 2                    | 8.86                        | 1,152                 | 306,643                       | 576                                    | 2.000 | 266.18 | 532.37 | 2.000 | 0.98807 |
| 1230              | 2                    | 1.62                        | 2                     | 97                            | 1,232                                  | 0.002 | 48.50  | 0.08   | 1.000 | 0.99999 |
| 1232              | 2                    | 2.07                        | 22                    | 1,962                         | 1,209                                  | 0.018 | 89.18  | 1.62   | 1.048 | 0.99996 |
| 1241              | 3                    | 3.22                        | 892                   | 58,556                        | 890                                    | 1.002 | 65.65  | 65.79  | 1.002 | 0.99853 |
| 1242              | 1                    | 2.62                        | 11                    | 1,732                         | 858                                    | 0.013 | 157.45 | 2.02   | 1.000 | 0.99995 |
| 1243              | 1                    | 0.95                        | 1                     | 57                            | 1,247                                  | 0.001 | 57.00  | 0.05   | 1.000 | 0.99999 |
| 1263              | 1                    | 0.70                        | 43                    | 1,829                         | 1,217                                  | 0.035 | 42.53  | 1.50   | 1.000 | 0.99997 |



| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1271              | 3                    | 7.05                        | 106                   | 25,313                        | 988                                    | 0.107 | 238.80 | 25.62  | 1.060 | 0.99943 |
| 1311              | 2                    | 1.10                        | 2                     | 66                            | 284                                    | 0.007 | 33.00  | 0.23   | 1.000 | 0.99999 |
| 1453              | 1                    | 1.37                        | 1                     | 82                            | 1,826                                  | 0.001 | 82.00  | 0.04   | 1.000 | 0.99999 |
| 1523              | 1                    | 3.20                        | 55                    | 10,575                        | 763                                    | 0.072 | 192.27 | 13.86  | 1.000 | 0.99969 |
| 1842              | 2                    | 1.50                        | 11                    | 389                           | 298                                    | 0.037 | 35.36  | 1.31   | 1.100 | 0.99997 |
| 2051              | 3                    | 4.07                        | 225                   | 15,447                        | 210                                    | 1.071 | 68.65  | 73.56  | 1.071 | 0.99835 |
| 2092              | 2                    | 4.22                        | 2                     | 253                           | 953                                    | 0.002 | 126.50 | 0.27   | 1.000 | 0.99999 |
| 2172              | 1                    | 5.45                        | 1                     | 327                           | 247                                    | 0.004 | 327.00 | 1.32   | 1.000 | 0.99997 |
| 2211              | 2                    | 5.77                        | 39                    | 6,348                         | 742                                    | 0.053 | 162.77 | 8.56   | 1.000 | 0.99981 |
| 2212              | 1                    | 0.92                        | 34                    | 1,872                         | 1,384                                  | 0.025 | 55.06  | 1.35   | 1.000 | 0.99997 |
| 2511              | 1                    | 0.48                        | 9                     | 262                           | 626                                    | 0.014 | 29.11  | 0.42   | 1.000 | 0.99999 |
| 2621              | 1                    | 3.10                        | 1                     | 186                           | 1,212                                  | 0.001 | 186.00 | 0.15   | 1.000 | 0.99999 |
| 2951              | 2                    | 7.60                        | 1,018                 | 232,825                       | 1,256                                  | 0.811 | 228.71 | 185.37 | 2.000 | 0.99585 |
| 2961              | 1                    | 1.35                        | 1,218                 | 98,881                        | 1,218                                  | 1.000 | 81.18  | 81.18  | 1.000 | 0.99815 |
| 3121              | 3                    | 2.80                        | 31                    | 1,782                         | 1,156                                  | 0.027 | 57.48  | 1.54   | 1.033 | 0.99997 |
| 3221              | 1                    | 1.97                        | 9                     | 1,065                         | 1,289                                  | 0.007 | 118.33 | 0.83   | 1.000 | 0.99998 |
| 3301              | 2                    | 1.82                        | 11                    | 690                           | 772                                    | 0.014 | 62.73  | 0.89   | 1.100 | 0.99998 |
| 3303              | 2                    | 2.15                        | 45                    | 3,857                         | 1,792                                  | 0.025 | 85.71  | 2.15   | 1.023 | 0.99995 |
| 3304              | 1                    | 0.78                        | 1                     | 47                            | 1,178                                  | 0.001 | 47.00  | 0.04   | 1.000 | 0.99999 |
| 3313              | 1                    | 0.70                        | 1                     | 42                            | 1,525                                  | 0.001 | 42.00  | 0.03   | 1.000 | 0.99999 |
| 3421              | 1                    | 2.02                        | 307                   | 37,162                        | 307                                    | 1.000 | 121.05 | 121.05 | 1.000 | 0.99729 |
| 3422              | 1                    | 2.05                        | 1,018                 | 125,841                       | 1,018                                  | 1.000 | 123.62 | 123.62 | 1.000 | 0.99718 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 3423              | 1                    | 2.05                        | 404                   | 49,860                        | 404                                    | 1.000 | 123.42 | 123.42 | 1.000 | 0.99724 |
| 3472              | 3                    | 4.64                        | 14                    | 1,094                         | 1,327                                  | 0.011 | 78.14  | 0.82   | 1.167 | 0.99998 |
| 3551              | 1                    | 0.58                        | 8                     | 282                           | 1,045                                  | 0.008 | 35.25  | 0.27   | 1.000 | 0.99999 |
| 3552              | 3                    | 2.00                        | 9                     | 390                           | 585                                    | 0.015 | 43.33  | 0.67   | 1.000 | 0.99999 |
| 3591              | 1                    | 2.78                        | 1                     | 167                           | 1,560                                  | 0.001 | 167.00 | 0.11   | 1.000 | 0.99999 |
| 3621              | 2                    | 3.45                        | 129                   | 14,174                        | 1,608                                  | 0.080 | 109.88 | 8.81   | 1.024 | 0.99980 |
| 3691              | 1                    | 1.88                        | 375                   | 42,412                        | 377                                    | 0.995 | 113.10 | 112.50 | 1.000 | 0.99748 |
| 3692              | 1                    | 1.87                        | 417                   | 46,808                        | 417                                    | 1.000 | 112.25 | 112.25 | 1.000 | 0.99749 |
| 3693              | 1                    | 1.87                        | 181                   | 20,428                        | 181                                    | 1.000 | 112.86 | 112.86 | 1.000 | 0.99747 |
| 3694              | 2                    | 3.70                        | 527                   | 59,479                        | 528                                    | 0.998 | 112.86 | 112.65 | 1.008 | 0.99748 |
| 3751              | 3                    | 3.25                        | 47                    | 3,562                         | 929                                    | 0.051 | 75.79  | 3.83   | 1.000 | 0.99991 |
| 3872              | 2                    | 1.67                        | 77                    | 2,457                         | 1,180                                  | 0.065 | 31.91  | 2.08   | 1.013 | 0.99995 |
| 3873              | 1                    | 0.73                        | 1                     | 44                            | 815                                    | 0.001 | 44.00  | 0.05   | 1.000 | 0.99999 |
| 3878              | 1                    | 2.83                        | 17                    | 2,906                         | 847                                    | 0.020 | 170.94 | 3.43   | 1.000 | 0.99992 |
| 3891              | 1                    | 0.60                        | 1                     | 36                            | 451                                    | 0.002 | 36.00  | 0.08   | 1.000 | 0.99999 |
| 3893              | 7                    | 7.45                        | 702                   | 40,013                        | 1,171                                  | 0.599 | 57.00  | 34.17  | 1.085 | 0.99923 |
| 3894              | 1                    | 0.27                        | 1                     | 16                            | 160                                    | 0.006 | 16.00  | 0.10   | 1.000 | 0.99999 |
| 3901              | 2                    | 2.25                        | 18                    | 1,042                         | 884                                    | 0.020 | 57.89  | 1.18   | 1.000 | 0.99997 |
| 3903              | 1                    | 0.87                        | 264                   | 13,877                        | 315                                    | 0.838 | 52.56  | 44.05  | 1.000 | 0.99901 |
| 3912              | 2                    | 1.45                        | 17                    | 906                           | 1,366                                  | 0.012 | 53.29  | 0.66   | 1.063 | 0.99999 |
| 3913              | 2                    | 3.00                        | 16                    | 1,146                         | 825                                    | 0.019 | 71.63  | 1.39   | 1.067 | 0.99997 |
| 3914              | 1                    | 6.08                        | 18                    | 6,571                         | 396                                    | 0.045 | 365.06 | 16.59  | 1.000 | 0.99963 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 3951              | 4                    | 3.70                        | 34                    | 1,828                         | 961                                    | 0.035 | 53.76  | 1.90   | 1.063 | 0.99996 |
| 3981              | 3                    | 2.25                        | 8                     | 246                           | 1,568                                  | 0.005 | 30.75  | 0.16   | 1.143 | 0.99999 |
| 3982              | 4                    | 3.20                        | 69                    | 3,556                         | 1,827                                  | 0.038 | 51.54  | 1.95   | 1.030 | 0.99996 |
| 4091              | 1                    | 2.07                        | 1,190                 | 147,936                       | 1,206                                  | 0.987 | 124.32 | 122.67 | 1.000 | 0.99725 |
| 4092              | 2                    | 4.20                        | 459                   | 57,118                        | 458                                    | 1.002 | 124.44 | 124.71 | 1.002 | 0.99721 |
| 4101              | 1                    | 1.03                        | 68                    | 4,221                         | 981                                    | 0.069 | 62.07  | 4.30   | 1.000 | 0.99990 |
| 4131              | 1                    | 2.27                        | 205                   | 27,917                        | 205                                    | 1.000 | 136.18 | 136.18 | 1.000 | 0.99695 |
| 4142              | 1                    | 1.15                        | 14                    | 970                           | 621                                    | 0.023 | 69.29  | 1.56   | 1.000 | 0.99997 |
| 4152              | 1                    | 1.68                        | 1                     | 101                           | 1,297                                  | 0.001 | 101.00 | 0.08   | 1.000 | 0.99999 |
| 4171              | 1                    | 0.45                        | 1                     | 27                            | 1,186                                  | 0.001 | 27.00  | 0.02   | 1.000 | 0.99999 |
| 4172              | 4                    | 4.17                        | 58                    | 5,267                         | 1,855                                  | 0.031 | 90.81  | 2.84   | 1.036 | 0.99994 |
| 4173              | 1                    | 0.95                        | 1                     | 57                            | 691                                    | 0.001 | 57.00  | 0.08   | 1.000 | 0.99999 |
| 4181              | 5                    | 9.04                        | 7                     | 731                           | 783                                    | 0.009 | 104.43 | 0.93   | 1.000 | 0.99998 |
| 4182              | 1                    | 0.38                        | 1                     | 23                            | 779                                    | 0.001 | 23.00  | 0.03   | 1.000 | 0.99999 |
| 4211              | 1                    | 1.08                        | 1                     | 65                            | 719                                    | 0.001 | 65.00  | 0.09   | 1.000 | 0.99999 |
| 4212              | 5                    | 3.37                        | 18                    | 776                           | 1,084                                  | 0.017 | 43.11  | 0.72   | 1.125 | 0.99998 |
| 4222              | 1                    | 1.75                        | 1                     | 105                           | 1,073                                  | 0.001 | 105.00 | 0.10   | 1.000 | 0.99999 |
| 4224              | 1                    | 0.62                        | 11                    | 412                           | 772                                    | 0.014 | 37.45  | 0.53   | 1.000 | 0.99999 |
| 4302              | 1                    | 8.48                        | 1                     | 509                           | 662                                    | 0.002 | 509.00 | 0.77   | 1.000 | 0.99998 |
| 4303              | 2                    | 0.84                        | 26                    | 940                           | 1,304                                  | 0.020 | 36.15  | 0.72   | 1.040 | 0.99998 |
| 4313              | 1                    | 0.70                        | 4                     | 169                           | 558                                    | 0.007 | 42.25  | 0.30   | 1.000 | 0.99999 |
| 4341              | 1                    | 2.35                        | 1                     | 141                           | 1,825                                  | 0.001 | 141.00 | 0.08   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 4343              | 1                    | 3.97                        | 1                     | 238                           | 1,680                                  | 0.001 | 238.00 | 0.14  | 1.000 | 0.99999 |
| 4361              | 2                    | 1.56                        | 2                     | 94                            | 1,660                                  | 0.001 | 47.00  | 0.06  | 1.000 | 0.99999 |
| 4363              | 4                    | 3.65                        | 78                    | 5,168                         | 703                                    | 0.111 | 66.26  | 7.35  | 1.950 | 0.99984 |
| 4364              | 3                    | 2.77                        | 49                    | 2,773                         | 858                                    | 0.057 | 56.59  | 3.23  | 1.089 | 0.99993 |
| 4386              | 1                    | 1.00                        | 1                     | 60                            | 1,656                                  | 0.001 | 60.00  | 0.04  | 1.000 | 0.99999 |
| 4431              | 1                    | 1.58                        | 48                    | 4,569                         | 1,428                                  | 0.034 | 95.19  | 3.20  | 1.000 | 0.99993 |
| 4432              | 1                    | 1.40                        | 7                     | 593                           | 482                                    | 0.015 | 84.71  | 1.23  | 1.000 | 0.99997 |
| 4692              | 6                    | 5.85                        | 13                    | 1,092                         | 488                                    | 0.027 | 84.00  | 2.24  | 1.000 | 0.99995 |
| 4714              | 2                    | 2.89                        | 5                     | 338                           | 349                                    | 0.014 | 67.60  | 0.97  | 1.250 | 0.99998 |
| 4791              | 1                    | 0.28                        | 628                   | 11,094                        | 628                                    | 1.000 | 17.67  | 17.67 | 1.000 | 0.99960 |
| 4793              | 1                    | 0.25                        | 776                   | 12,131                        | 777                                    | 0.999 | 15.63  | 15.61 | 1.000 | 0.99965 |
| 4794              | 1                    | 0.30                        | 398                   | 7,422                         | 398                                    | 1.000 | 18.65  | 18.65 | 1.000 | 0.99958 |
| 5601              | 7                    | 8.11                        | 126                   | 8,826                         | 1,297                                  | 0.097 | 70.05  | 6.80  | 1.016 | 0.99985 |
| 5602              | 2                    | 3.20                        | 28                    | 1,356                         | 715                                    | 0.039 | 48.43  | 1.90  | 1.000 | 0.99996 |
| 5603              | 1                    | 5.25                        | 5                     | 1,576                         | 1,484                                  | 0.003 | 315.20 | 1.06  | 1.000 | 0.99998 |
| 5902              | 1                    | 0.50                        | 1                     | 30                            | 967                                    | 0.001 | 30.00  | 0.03  | 1.000 | 0.99999 |
| 5904              | 3                    | 1.97                        | 100                   | 3,918                         | 1,287                                  | 0.078 | 39.18  | 3.04  | 1.000 | 0.99993 |
| 5905              | 2                    | 1.40                        | 90                    | 3,826                         | 1,941                                  | 0.046 | 42.51  | 1.97  | 1.000 | 0.99996 |
| 6021              | 2                    | 4.25                        | 2                     | 255                           | 1,364                                  | 0.001 | 127.50 | 0.19  | 1.000 | 0.99999 |
| 6141              | 2                    | 3.20                        | 16                    | 1,424                         | 651                                    | 0.025 | 89.00  | 2.19  | 1.000 | 0.99995 |
| 6143              | 1                    | 1.52                        | 41                    | 3,763                         | 376                                    | 0.109 | 91.78  | 10.01 | 1.000 | 0.99978 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
| Total:            | 193                  | 288.43                      | 18,438                | 2,651,239                     | 174,258                                | 0.106 | 143.79 | 15.21 | 1.204 | 0.99966 |

**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
4/1/2022 to 4/30/2022  
EXCLUDING MAJOR EVENT DAYS

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1050              | 1                    | 1.07                        | 20                    | 1,296                         | 1,762                                  | 0.011 | 64.80  | 0.74   | 1.000 | 0.99998 |
| 1051              | 2                    | 3.00                        | 2                     | 180                           | 785                                    | 0.003 | 90.00  | 0.23   | 1.000 | 0.99999 |
| 1081              | 1                    | 1.08                        | 17                    | 1,069                         | 20                                     | 0.850 | 62.88  | 53.45  | 1.000 | 0.99876 |
| 1082              | 1                    | 1.20                        | 1,394                 | 101,622                       | 1,394                                  | 1.000 | 72.90  | 72.90  | 1.000 | 0.99831 |
| 1084              | 1                    | 0.67                        | 1                     | 40                            | 5                                      | 0.200 | 40.00  | 8.00   | 1.000 | 0.99981 |
| 1094              | 2                    | 2.55                        | 72                    | 7,934                         | 1,255                                  | 0.057 | 110.19 | 6.32   | 1.000 | 0.99985 |
| 1102              | 3                    | 3.96                        | 77                    | 3,624                         | 1,084                                  | 0.071 | 47.06  | 3.34   | 1.013 | 0.99992 |
| 1103              | 2                    | 2.51                        | 9                     | 507                           | 1,008                                  | 0.009 | 56.33  | 0.50   | 1.000 | 0.99999 |
| 1142              | 2                    | 3.87                        | 158                   | 25,675                        | 157                                    | 1.006 | 162.50 | 163.54 | 1.006 | 0.99621 |
| 1211              | 4                    | 3.08                        | 86                    | 4,334                         | 1,506                                  | 0.057 | 50.40  | 2.88   | 1.162 | 0.99993 |
| 1212              | 1                    | 0.70                        | 1                     | 42                            | 343                                    | 0.003 | 42.00  | 0.12   | 1.000 | 0.99999 |
| 1230              | 2                    | 2.87                        | 2                     | 172                           | 1,232                                  | 0.002 | 86.00  | 0.14   | 1.000 | 0.99999 |
| 1232              | 1                    | 2.38                        | 617                   | 88,683                        | 1,209                                  | 0.510 | 143.73 | 73.35  | 1.000 | 0.99830 |
| 1242              | 2                    | 2.42                        | 860                   | 52,211                        | 859                                    | 1.001 | 60.71  | 60.78  | 1.001 | 0.99861 |
| 1243              | 1                    | 1.20                        | 1                     | 72                            | 1,247                                  | 0.001 | 72.00  | 0.06   | 1.000 | 0.99999 |
| 1262              | 2                    | 1.27                        | 2                     | 76                            | 160                                    | 0.013 | 38.00  | 0.48   | 1.000 | 0.99999 |
| 1263              | 2                    | 3.07                        | 2                     | 184                           | 1,217                                  | 0.002 | 92.00  | 0.15   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI   | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|---------|-------|-------|---------|
| 1271              | 1                    | 2.42                        | 1                     | 145                           | 988                                    | 0.001 | 145.00  | 0.15  | 1.000 | 0.99999 |
| 1273              | 4                    | 4.11                        | 52                    | 3,305                         | 871                                    | 0.060 | 63.56   | 3.79  | 1.020 | 0.99991 |
| 1284              | 1                    | 0.85                        | 84                    | 4,288                         | 955                                    | 0.088 | 51.05   | 4.49  | 1.000 | 0.99990 |
| 1312              | 2                    | 1.78                        | 21                    | 901                           | 977                                    | 0.021 | 42.90   | 0.92  | 1.050 | 0.99998 |
| 1451              | 3                    | 2.38                        | 6                     | 309                           | 556                                    | 0.011 | 51.50   | 0.56  | 1.000 | 0.99999 |
| 1452              | 4                    | 4.35                        | 4                     | 261                           | 462                                    | 0.009 | 65.25   | 0.56  | 1.333 | 0.99999 |
| 1454              | 2                    | 1.90                        | 2                     | 114                           | 950                                    | 0.002 | 57.00   | 0.12  | 1.000 | 0.99999 |
| 1455              | 2                    | 1.62                        | 11                    | 563                           | 416                                    | 0.026 | 51.18   | 1.35  | 1.000 | 0.99997 |
| 1521              | 1                    | 2.53                        | 1                     | 152                           | 388                                    | 0.003 | 152.00  | 0.39  | 1.000 | 0.99999 |
| 1522              | 1                    | 1.17                        | 29                    | 2,040                         | 107                                    | 0.271 | 70.34   | 19.07 | 1.000 | 0.99956 |
| 1523              | 2                    | 2.66                        | 37                    | 3,164                         | 763                                    | 0.048 | 85.51   | 4.15  | 1.000 | 0.99990 |
| 1842              | 2                    | 5.98                        | 9                     | 2,498                         | 298                                    | 0.030 | 277.56  | 8.38  | 1.125 | 0.99981 |
| 2091              | 2                    | 4.08                        | 20                    | 1,072                         | 923                                    | 0.022 | 53.60   | 1.16  | 1.053 | 0.99997 |
| 2092              | 1                    | 1.68                        | 1                     | 101                           | 953                                    | 0.001 | 101.00  | 0.11  | 1.000 | 0.99999 |
| 2171              | 2                    | 1.44                        | 8                     | 434                           | 593                                    | 0.013 | 54.25   | 0.73  | 1.143 | 0.99998 |
| 2172              | 1                    | 0.67                        | 1                     | 40                            | 247                                    | 0.004 | 40.00   | 0.16  | 1.000 | 0.99999 |
| 2211              | 2                    | 2.14                        | 83                    | 5,571                         | 742                                    | 0.112 | 67.12   | 7.51  | 1.000 | 0.99983 |
| 2212              | 2                    | 2.37                        | 10                    | 683                           | 1,384                                  | 0.007 | 68.30   | 0.49  | 1.000 | 0.99999 |
| 2501              | 1                    | 1.15                        | 84                    | 5,810                         | 84                                     | 1.000 | 69.17   | 69.17 | 1.000 | 0.99840 |
| 2511              | 3                    | 3.60                        | 8                     | 578                           | 626                                    | 0.013 | 72.25   | 0.92  | 1.000 | 0.99998 |
| 2621              | 5                    | 4.96                        | 16                    | 970                           | 1,212                                  | 0.013 | 60.63   | 0.80  | 1.067 | 0.99998 |
| 2921              | 2                    | 36.38                       | 2                     | 2,183                         | 396                                    | 0.005 | 1091.50 | 5.51  | 1.000 | 0.99987 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI   | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|---------|--------|-------|---------|
| 2951              | 2                    | 1.38                        | 86                    | 5,203                         | 1,256                                  | 0.068 | 60.50   | 4.14   | 1.012 | 0.99990 |
| 2961              | 2                    | 10.45                       | 25                    | 8,325                         | 656                                    | 0.038 | 333.00  | 12.69  | 1.000 | 0.99971 |
| 2962              | 6                    | 7.44                        | 38                    | 1,631                         | 263                                    | 0.144 | 42.92   | 6.20   | 1.000 | 0.99986 |
| 3041              | 1                    | 1.15                        | 87                    | 6,055                         | 87                                     | 1.000 | 69.60   | 69.60  | 1.000 | 0.99839 |
| 3122              | 3                    | 4.23                        | 8                     | 679                           | 891                                    | 0.009 | 84.88   | 0.76   | 1.000 | 0.99998 |
| 3181              | 2                    | 3.20                        | 30                    | 3,042                         | 767                                    | 0.039 | 101.40  | 3.97   | 1.034 | 0.99991 |
| 3221              | 1                    | 0.27                        | 1                     | 16                            | 1,289                                  | 0.001 | 16.00   | 0.01   | 1.000 | 0.99999 |
| 3222              | 2                    | 4.20                        | 2                     | 252                           | 801                                    | 0.002 | 126.00  | 0.31   | 1.000 | 0.99999 |
| 3232              | 1                    | 1.08                        | 2                     | 131                           | 450                                    | 0.004 | 65.50   | 0.29   | 1.000 | 0.99999 |
| 3313              | 1                    | 0.43                        | 1                     | 26                            | 1,525                                  | 0.001 | 26.00   | 0.02   | 1.000 | 0.99999 |
| 3421              | 2                    | 1.47                        | 308                   | 9,268                         | 307                                    | 1.003 | 30.09   | 30.19  | 1.003 | 0.99930 |
| 3422              | 2                    | 2.23                        | 1,019                 | 33,271                        | 1,018                                  | 1.001 | 32.65   | 32.68  | 1.001 | 0.99925 |
| 3423              | 1                    | 0.50                        | 404                   | 12,362                        | 404                                    | 1.000 | 30.60   | 30.60  | 1.000 | 0.99929 |
| 3472              | 2                    | 45.90                       | 2                     | 2,754                         | 1,327                                  | 0.002 | 1377.00 | 2.08   | 1.000 | 0.99995 |
| 3551              | 1                    | 1.38                        | 1                     | 83                            | 1,045                                  | 0.001 | 83.00   | 0.08   | 1.000 | 0.99999 |
| 3552              | 1                    | 0.92                        | 1                     | 55                            | 585                                    | 0.002 | 55.00   | 0.09   | 1.000 | 0.99999 |
| 3553              | 1                    | 0.67                        | 1                     | 40                            | 878                                    | 0.001 | 40.00   | 0.05   | 1.000 | 0.99999 |
| 3593              | 2                    | 8.73                        | 24                    | 6,292                         | 950                                    | 0.025 | 262.17  | 6.62   | 1.000 | 0.99985 |
| 3621              | 1                    | 2.20                        | 1                     | 132                           | 1,608                                  | 0.001 | 132.00  | 0.08   | 1.000 | 0.99999 |
| 3661              | 3                    | 3.68                        | 1,112                 | 114,344                       | 1,082                                  | 1.028 | 102.83  | 105.68 | 1.028 | 0.99755 |
| 3664              | 3                    | 4.57                        | 47                    | 5,471                         | 582                                    | 0.081 | 116.40  | 9.40   | 1.022 | 0.99978 |
| 3671              | 1                    | 0.82                        | 14                    | 689                           | 660                                    | 0.021 | 49.21   | 1.04   | 1.000 | 0.99998 |



| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 3701              | 1                    | 1.47                        | 17                    | 1,496                         | 535                                    | 0.032 | 88.00  | 2.80  | 1.000 | 0.99994 |
| 3702              | 1                    | 1.53                        | 1                     | 92                            | 673                                    | 0.001 | 92.00  | 0.14  | 1.000 | 0.99999 |
| 3751              | 3                    | 8.12                        | 32                    | 6,887                         | 929                                    | 0.034 | 215.22 | 7.41  | 1.000 | 0.99983 |
| 3871              | 1                    | 0.47                        | 26                    | 728                           | 1,092                                  | 0.024 | 28.00  | 0.67  | 1.000 | 0.99998 |
| 3878              | 1                    | 1.03                        | 1                     | 62                            | 847                                    | 0.001 | 62.00  | 0.07  | 1.000 | 0.99999 |
| 3891              | 7                    | 7.32                        | 674                   | 45,018                        | 451                                    | 1.494 | 66.79  | 99.82 | 1.494 | 0.99769 |
| 3903              | 1                    | 0.93                        | 1                     | 56                            | 315                                    | 0.003 | 56.00  | 0.18  | 1.000 | 0.99999 |
| 3913              | 3                    | 3.01                        | 163                   | 13,149                        | 825                                    | 0.198 | 80.67  | 15.94 | 1.006 | 0.99963 |
| 3951              | 3                    | 2.98                        | 35                    | 1,904                         | 961                                    | 0.036 | 54.40  | 1.98  | 1.061 | 0.99995 |
| 3952              | 1                    | 0.63                        | 10                    | 385                           | 1,309                                  | 0.008 | 38.50  | 0.29  | 1.000 | 0.99999 |
| 3953              | 1                    | 2.42                        | 1                     | 145                           | 543                                    | 0.002 | 145.00 | 0.27  | 1.000 | 0.99999 |
| 3971              | 3                    | 3.28                        | 10                    | 561                           | 693                                    | 0.014 | 56.10  | 0.81  | 1.000 | 0.99998 |
| 3981              | 3                    | 3.10                        | 3                     | 186                           | 1,568                                  | 0.002 | 62.00  | 0.12  | 1.000 | 0.99999 |
| 3982              | 1                    | 0.63                        | 36                    | 1,354                         | 1,827                                  | 0.020 | 37.61  | 0.74  | 1.000 | 0.99998 |
| 3991              | 2                    | 3.60                        | 2                     | 216                           | 761                                    | 0.003 | 108.00 | 0.28  | 1.000 | 0.99999 |
| 3992              | 1                    | 1.05                        | 1                     | 63                            | 173                                    | 0.006 | 63.00  | 0.36  | 1.000 | 0.99999 |
| 403               | 1                    | 1.30                        | 11                    | 859                           | 270                                    | 0.041 | 78.09  | 3.18  | 1.000 | 0.99993 |
| 4091              | 4                    | 6.65                        | 1,236                 | 45,479                        | 1,206                                  | 1.025 | 36.80  | 37.71 | 1.039 | 0.99913 |
| 4092              | 2                    | 1.91                        | 469                   | 15,932                        | 458                                    | 1.024 | 33.97  | 34.79 | 1.024 | 0.99919 |
| 4131              | 1                    | 2.37                        | 19                    | 2,700                         | 205                                    | 0.093 | 142.11 | 13.17 | 1.000 | 0.99970 |
| 4134              | 1                    | 1.38                        | 1                     | 83                            | 1,278                                  | 0.001 | 83.00  | 0.06  | 1.000 | 0.99999 |
| 4137              | 1                    | 0.63                        | 8                     | 309                           | 817                                    | 0.010 | 38.63  | 0.38  | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 4138              | 3                    | 2.60                        | 23                    | 947                           | 760                                    | 0.030 | 41.17  | 1.25  | 1.000 | 0.99997 |
| 4152              | 2                    | 3.05                        | 27                    | 2,516                         | 1,297                                  | 0.021 | 93.19  | 1.94  | 1.000 | 0.99996 |
| 4172              | 1                    | 0.52                        | 1                     | 31                            | 1,855                                  | 0.001 | 31.00  | 0.02  | 1.000 | 0.99999 |
| 4181              | 1                    | 1.40                        | 19                    | 1,610                         | 783                                    | 0.024 | 84.74  | 2.06  | 1.000 | 0.99995 |
| 4182              | 1                    | 2.00                        | 1                     | 120                           | 779                                    | 0.001 | 120.00 | 0.15  | 1.000 | 0.99999 |
| 4211              | 1                    | 3.07                        | 27                    | 4,990                         | 719                                    | 0.038 | 184.81 | 6.94  | 1.000 | 0.99984 |
| 4212              | 5                    | 3.33                        | 43                    | 1,735                         | 1,084                                  | 0.040 | 40.35  | 1.60  | 1.000 | 0.99996 |
| 4222              | 5                    | 2.99                        | 54                    | 1,713                         | 1,073                                  | 0.050 | 31.72  | 1.60  | 1.000 | 0.99996 |
| 4223              | 5                    | 3.35                        | 1,253                 | 51,856                        | 1,123                                  | 1.116 | 41.39  | 46.18 | 1.116 | 0.99893 |
| 4224              | 1                    | 9.42                        | 1                     | 565                           | 772                                    | 0.001 | 565.00 | 0.73  | 1.000 | 0.99998 |
| 4301              | 2                    | 2.13                        | 48                    | 3,103                         | 111                                    | 0.432 | 64.65  | 27.95 | 1.000 | 0.99935 |
| 4303              | 2                    | 1.98                        | 2                     | 119                           | 1,304                                  | 0.002 | 59.50  | 0.09  | 1.000 | 0.99999 |
| 4334              | 1                    | 0.83                        | 1                     | 50                            | 302                                    | 0.003 | 50.00  | 0.17  | 1.000 | 0.99999 |
| 4343              | 3                    | 3.58                        | 1,682                 | 135,206                       | 1,680                                  | 1.001 | 80.38  | 80.48 | 1.001 | 0.99814 |
| 4361              | 2                    | 1.35                        | 2                     | 81                            | 1,660                                  | 0.001 | 40.50  | 0.05  | 1.000 | 0.99999 |
| 4362              | 1                    | 0.95                        | 1                     | 57                            | 840                                    | 0.001 | 57.00  | 0.07  | 1.000 | 0.99999 |
| 4364              | 3                    | 12.61                       | 34                    | 1,870                         | 858                                    | 0.040 | 55.00  | 2.18  | 1.063 | 0.99995 |
| 4371              | 2                    | 3.70                        | 2                     | 222                           | 1,556                                  | 0.001 | 111.00 | 0.14  | 1.000 | 0.99999 |
| 4381              | 1                    | 2.10                        | 1                     | 126                           | 8                                      | 0.125 | 126.00 | 15.75 | 1.000 | 0.99964 |
| 4385              | 1                    | 2.85                        | 50                    | 8,561                         | 1,156                                  | 0.043 | 171.22 | 7.41  | 1.000 | 0.99983 |
| 4386              | 1                    | 0.65                        | 1                     | 39                            | 1,656                                  | 0.001 | 39.00  | 0.02  | 1.000 | 0.99999 |
| 4431              | 6                    | 8.68                        | 58                    | 5,874                         | 1,428                                  | 0.041 | 101.28 | 4.11  | 1.055 | 0.99990 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|-------|-------|-------|---------|
| 4476              | 2                    | 1.25                        | 914                   | 34,480                        | 457                                    | 2.000 | 37.72 | 75.45 | 2.000 | 0.99828 |
| 4511              | 4                    | 4.14                        | 129                   | 8,597                         | 1,146                                  | 0.113 | 66.64 | 7.50  | 1.049 | 0.99983 |
| 4602              | 2                    | 1.31                        | 68                    | 1,707                         | 978                                    | 0.070 | 25.10 | 1.75  | 1.000 | 0.99996 |
| 4712              | 1                    | 0.88                        | 1                     | 53                            | 129                                    | 0.008 | 53.00 | 0.41  | 1.000 | 0.99999 |
| 5601              | 4                    | 4.33                        | 11                    | 627                           | 1,297                                  | 0.008 | 57.00 | 0.48  | 1.000 | 0.99999 |
| 5603              | 9                    | 20.00                       | 192                   | 17,695                        | 1,484                                  | 0.129 | 92.16 | 11.92 | 1.027 | 0.99972 |
| 5901              | 1                    | 0.53                        | 1                     | 32                            | 827                                    | 0.001 | 32.00 | 0.04  | 1.000 | 0.99999 |
| 5902              | 2                    | 2.23                        | 108                   | 7,265                         | 967                                    | 0.112 | 67.27 | 7.51  | 2.000 | 0.99983 |
| 5903              | 1                    | 0.83                        | 1                     | 50                            | 281                                    | 0.004 | 50.00 | 0.18  | 1.000 | 0.99999 |
| 5905              | 4                    | 3.18                        | 102                   | 4,976                         | 1,941                                  | 0.053 | 48.78 | 2.56  | 1.378 | 0.99994 |
| 6021              | 2                    | 2.63                        | 72                    | 3,632                         | 1,364                                  | 0.053 | 50.44 | 2.66  | 1.000 | 0.99994 |
| 6023              | 1                    | 0.83                        | 1                     | 50                            | 130                                    | 0.008 | 50.00 | 0.38  | 1.000 | 0.99999 |
| 6141              | 1                    | 1.37                        | 1                     | 82                            | 651                                    | 0.002 | 82.00 | 0.13  | 1.000 | 0.99999 |
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI | SAIDI | CAIFI | ASAI    |
| Total:            | 244                  | 406.48                      | 14,714                | 971,325                       | 174,258                                | 0.084 | 66.01 | 5.57  | 1.075 | 0.99987 |

**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
5/1/2022 to 5/31/2022  
EXCLUDING MAJOR EVENT DAYS

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1050              | 9                    | 18.89                       | 333                   | 21,342                        | 1,762                                  | 0.189 | 64.09  | 12.11  | 1.057 | 0.99973 |
| 1051              | 3                    | 3.74                        | 39                    | 2,375                         | 785                                    | 0.050 | 60.90  | 3.03   | 1.054 | 0.99993 |
| 1052              | 1                    | 1.35                        | 49                    | 3,943                         | 1,195                                  | 0.041 | 80.47  | 3.30   | 1.000 | 0.99993 |
| 1082              | 16                   | 51.80                       | 90                    | 23,713                        | 1,394                                  | 0.065 | 263.48 | 17.01  | 1.023 | 0.99962 |
| 1091              | 4                    | 8.03                        | 50                    | 10,520                        | 721                                    | 0.069 | 210.40 | 14.59  | 1.064 | 0.99967 |
| 1092              | 30                   | 21.47                       | 1,199                 | 137,738                       | 1090                                   | 1.100 | 114.88 | 126.37 | 1.100 | 0.99712 |
| 1093              | 2                    | 11.25                       | 3                     | 1,318                         | 232                                    | 0.013 | 439.33 | 5.68   | 1.500 | 0.99987 |
| 1094              | 4                    | 3.16                        | 11                    | 499                           | 1,255                                  | 0.009 | 45.36  | 0.40   | 1.000 | 0.99999 |
| 1101              | 1                    | 0.78                        | 14                    | 666                           | 847                                    | 0.017 | 47.57  | 0.79   | 1.000 | 0.99998 |
| 1102              | 2                    | 1.49                        | 38                    | 1,732                         | 1,084                                  | 0.035 | 45.58  | 1.60   | 1.000 | 0.99996 |
| 1103              | 7                    | 10.35                       | 129                   | 10,131                        | 1,008                                  | 0.128 | 78.53  | 10.05  | 1.358 | 0.99977 |
| 1211              | 4                    | 7.86                        | 4                     | 471                           | 1,506                                  | 0.003 | 117.75 | 0.31   | 1.000 | 0.99999 |
| 1230              | 5                    | 4.22                        | 182                   | 8,389                         | 1,232                                  | 0.148 | 46.09  | 6.81   | 1.017 | 0.99985 |
| 1233              | 3                    | 9.33                        | 721                   | 217,719                       | 719                                    | 1.003 | 301.97 | 302.81 | 1.003 | 0.99309 |
| 1241              | 4                    | 12.69                       | 108                   | 9,724                         | 890                                    | 0.121 | 90.04  | 10.93  | 2.204 | 0.99976 |
| 1243              | 3                    | 15.10                       | 13                    | 6,032                         | 1,247                                  | 0.010 | 464.00 | 4.84   | 1.000 | 0.99989 |
| 1263              | 2                    | 2.46                        | 2                     | 148                           | 1,217                                  | 0.002 | 74.00  | 0.12   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1271              | 2                    | 5.46                        | 267                   | 72,416                        | 988                                    | 0.270 | 271.22 | 73.30  | 1.004 | 0.99836 |
| 1273              | 6                    | 12.99                       | 52                    | 4,141                         | 871                                    | 0.060 | 79.63  | 4.75   | 1.000 | 0.99989 |
| 1284              | 3                    | 5.80                        | 31                    | 1,067                         | 955                                    | 0.032 | 34.42  | 1.12   | 1.033 | 0.99997 |
| 1311              | 1                    | 1.82                        | 1                     | 109                           | 284                                    | 0.004 | 109.00 | 0.38   | 1.000 | 0.99999 |
| 1312              | 1                    | 5.45                        | 9                     | 2,944                         | 977                                    | 0.009 | 327.11 | 3.01   | 1.000 | 0.99993 |
| 1451              | 2                    | 1.88                        | 36                    | 2,452                         | 556                                    | 0.065 | 68.11  | 4.41   | 1.000 | 0.99990 |
| 1452              | 1                    | 1.30                        | 1                     | 78                            | 462                                    | 0.002 | 78.00  | 0.17   | 1.000 | 0.99999 |
| 1453              | 7                    | 14.37                       | 63                    | 2,646                         | 1,826                                  | 0.035 | 42.00  | 1.45   | 1.000 | 0.99997 |
| 1454              | 1                    | 2.45                        | 1                     | 147                           | 950                                    | 0.001 | 147.00 | 0.15   | 1.000 | 0.99999 |
| 1521              | 1                    | 1.22                        | 1                     | 73                            | 388                                    | 0.003 | 73.00  | 0.19   | 1.000 | 0.99999 |
| 1522              | 5                    | 11.16                       | 36                    | 4,976                         | 107                                    | 0.336 | 138.22 | 46.50  | 1.059 | 0.99896 |
| 1523              | 3                    | 5.08                        | 14                    | 833                           | 763                                    | 0.018 | 59.50  | 1.09   | 1.167 | 0.99998 |
| 1842              | 11                   | 18.19                       | 58                    | 4,343                         | 298                                    | 0.195 | 74.88  | 14.57  | 1.018 | 0.99967 |
| 2051              | 4                    | 4.34                        | 431                   | 33,645                        | 210                                    | 2.052 | 78.06  | 160.21 | 2.052 | 0.99641 |
| 2091              | 3                    | 5.11                        | 7                     | 628                           | 923                                    | 0.008 | 89.71  | 0.68   | 1.000 | 0.99998 |
| 2092              | 1                    | 1.28                        | 1                     | 77                            | 953                                    | 0.001 | 77.00  | 0.08   | 1.000 | 0.99999 |
| 2211              | 4                    | 6.51                        | 41                    | 1,733                         | 742                                    | 0.055 | 42.27  | 2.34   | 1.139 | 0.99995 |
| 2212              | 3                    | 9.32                        | 58                    | 9,570                         | 1,384                                  | 0.042 | 165.00 | 6.91   | 1.036 | 0.99985 |
| 2491              | 1                    | 6.03                        | 1                     | 362                           | 63                                     | 0.016 | 362.00 | 5.75   | 1.000 | 0.99987 |
| 2511              | 4                    | 5.19                        | 32                    | 3,122                         | 626                                    | 0.051 | 97.56  | 4.99   | 1.000 | 0.99989 |
| 2621              | 10                   | 16.75                       | 21                    | 1,884                         | 1,212                                  | 0.017 | 89.71  | 1.55   | 1.050 | 0.99997 |
| 2921              | 1                    | 0.70                        | 1                     | 42                            | 396                                    | 0.003 | 42.00  | 0.11   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 2951              | 3                    | 4.80                        | 31                    | 3,813                         | 1,256                                  | 0.025 | 123.00 | 3.04   | 1.033 | 0.99993 |
| 2952              | 2                    | 4.53                        | 17                    | 2,325                         | 379                                    | 0.045 | 136.76 | 6.13   | 1.063 | 0.99986 |
| 2961              | 6                    | 15.57                       | 69                    | 17,231                        | 656                                    | 0.105 | 249.72 | 26.27  | 1.000 | 0.99941 |
| 3121              | 5                    | 15.39                       | 58                    | 14,800                        | 1,156                                  | 0.050 | 255.17 | 12.80  | 1.018 | 0.99971 |
| 3122              | 17                   | 21.66                       | 993                   | 194,429                       | 891                                    | 1.114 | 195.80 | 218.21 | 1.599 | 0.99511 |
| 3123              | 6                    | 26.66                       | 65                    | 19,336                        | 1,132                                  | 0.057 | 297.48 | 17.08  | 1.161 | 0.99962 |
| 3181              | 1                    | 0.50                        | 1                     | 30                            | 767                                    | 0.001 | 30.00  | 0.04   | 1.000 | 0.99999 |
| 3221              | 3                    | 2.53                        | 38                    | 1,863                         | 1,289                                  | 0.029 | 49.03  | 1.45   | 1.000 | 0.99997 |
| 3222              | 2                    | 2.87                        | 24                    | 2,445                         | 801                                    | 0.030 | 101.88 | 3.05   | 1.043 | 0.99993 |
| 3231              | 1                    | 1.38                        | 20                    | 1,660                         | 216                                    | 0.093 | 83.00  | 7.69   | 1.000 | 0.99983 |
| 3301              | 2                    | 3.96                        | 772                   | 30,063                        | 772                                    | 1.000 | 38.94  | 38.94  | 1.001 | 0.99913 |
| 3303              | 3                    | 3.48                        | 126                   | 7,979                         | 1,792                                  | 0.070 | 63.33  | 4.45   | 1.008 | 0.99990 |
| 3304              | 3                    | 3.67                        | 20                    | 1,758                         | 1,178                                  | 0.017 | 87.90  | 1.49   | 1.111 | 0.99997 |
| 3314              | 1                    | 1.63                        | 7                     | 691                           | 227                                    | 0.031 | 98.71  | 3.04   | 1.000 | 0.99993 |
| 3315              | 6                    | 14.74                       | 86                    | 17,235                        | 1,620                                  | 0.053 | 200.41 | 10.64  | 1.000 | 0.99976 |
| 3422              | 1                    | 0.83                        | 1                     | 50                            | 1,002                                  | 0.001 | 50.00  | 0.05   | 1.000 | 0.99999 |
| 3423              | 1                    | 0.58                        | 1                     | 35                            | 404                                    | 0.002 | 35.00  | 0.09   | 1.000 | 0.99999 |
| 3471              | 1                    | 0.57                        | 1                     | 34                            | 496                                    | 0.002 | 34.00  | 0.07   | 1.000 | 0.99999 |
| 3472              | 12                   | 17.07                       | 1,441                 | 336,151                       | 1,327                                  | 1.086 | 233.28 | 253.32 | 1.086 | 0.99433 |
| 3551              | 1                    | 1.12                        | 8                     | 541                           | 1,045                                  | 0.008 | 67.63  | 0.52   | 1.000 | 0.99999 |
| 3552              | 1                    | 1.40                        | 1                     | 84                            | 585                                    | 0.002 | 84.00  | 0.14   | 1.000 | 0.99999 |
| 3553              | 1                    | 1.65                        | 1                     | 99                            | 878                                    | 0.001 | 99.00  | 0.11   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 3592              | 5                    | 9.27                        | 35                    | 3,903                         | 1,808                                  | 0.019 | 111.51 | 2.16  | 1.029 | 0.99995 |
| 3621              | 6                    | 9.74                        | 1,857                 | 67,856                        | 1,608                                  | 1.155 | 36.54  | 42.20 | 1.155 | 0.99905 |
| 3662              | 3                    | 3.12                        | 27                    | 1,160                         | 892                                    | 0.030 | 42.96  | 1.30  | 1.080 | 0.99997 |
| 3663              | 2                    | 3.93                        | 2                     | 236                           | 312                                    | 0.006 | 118.00 | 0.76  | 1.000 | 0.99998 |
| 3664              | 3                    | 7.91                        | 3                     | 475                           | 582                                    | 0.005 | 158.33 | 0.82  | 1.000 | 0.99998 |
| 3671              | 1                    | 2.52                        | 1                     | 151                           | 660                                    | 0.002 | 151.00 | 0.23  | 1.000 | 0.99999 |
| 3701              | 10                   | 11.09                       | 10                    | 665                           | 535                                    | 0.019 | 66.50  | 1.24  | 1.111 | 0.99997 |
| 3751              | 1                    | 2.63                        | 1                     | 158                           | 929                                    | 0.001 | 158.00 | 0.17  | 1.000 | 0.99999 |
| 3871              | 1                    | 0.30                        | 1                     | 18                            | 1,092                                  | 0.001 | 18.00  | 0.02  | 1.000 | 0.99999 |
| 3872              | 3                    | 12.85                       | 27                    | 3,696                         | 1,180                                  | 0.023 | 136.89 | 3.13  | 1.000 | 0.99993 |
| 3873              | 1                    | 1.58                        | 1                     | 95                            | 815                                    | 0.001 | 95.00  | 0.12  | 1.000 | 0.99999 |
| 3878              | 3                    | 1.93                        | 48                    | 1,528                         | 847                                    | 0.057 | 31.83  | 1.80  | 1.000 | 0.99996 |
| 3891              | 1                    | 0.77                        | 1                     | 46                            | 451                                    | 0.002 | 46.00  | 0.10  | 1.000 | 0.99999 |
| 3892              | 1                    | 1.73                        | 1                     | 104                           | 541                                    | 0.002 | 104.00 | 0.19  | 1.000 | 0.99999 |
| 3893              | 6                    | 9.48                        | 8                     | 897                           | 1,171                                  | 0.007 | 112.13 | 0.77  | 1.000 | 0.99998 |
| 3894              | 1                    | 7.85                        | 3                     | 1,415                         | 160                                    | 0.019 | 471.67 | 8.84  | 1.000 | 0.99980 |
| 3901              | 3                    | 5.20                        | 44                    | 7,088                         | 884                                    | 0.050 | 161.09 | 8.02  | 1.000 | 0.99982 |
| 3903              | 2                    | 2.53                        | 2                     | 152                           | 315                                    | 0.006 | 76.00  | 0.48  | 1.000 | 0.99999 |
| 3913              | 2                    | 1.15                        | 2                     | 69                            | 825                                    | 0.002 | 34.50  | 0.08  | 1.000 | 0.99999 |
| 3951              | 4                    | 4.14                        | 10                    | 532                           | 961                                    | 0.010 | 53.20  | 0.55  | 1.000 | 0.99999 |
| 3952              | 5                    | 7.25                        | 88                    | 4,602                         | 1,309                                  | 0.067 | 52.30  | 3.52  | 1.000 | 0.99992 |
| 3953              | 2                    | 6.08                        | 2                     | 365                           | 543                                    | 0.004 | 182.50 | 0.67  | 1.000 | 0.99998 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 3971              | 8                    | 21.73                       | 13                    | 2,996                         | 693                                    | 0.019 | 230.46 | 4.32  | 1.000 | 0.99990 |
| 3981              | 6                    | 7.90                        | 735                   | 32,313                        | 1,568                                  | 0.469 | 43.96  | 20.61 | 1.005 | 0.99954 |
| 3982              | 4                    | 4.69                        | 119                   | 12,637                        | 1,827                                  | 0.065 | 106.19 | 6.92  | 1.017 | 0.99985 |
| 3991              | 5                    | 13.31                       | 67                    | 20,788                        | 761                                    | 0.088 | 310.27 | 27.32 | 1.031 | 0.99939 |
| 4031              | 2                    | 12.33                       | 2                     | 740                           | 714                                    | 0.003 | 370.00 | 1.04  | 1.000 | 0.99998 |
| 4091              | 2                    | 6.14                        | 78                    | 13,794                        | 1,206                                  | 0.065 | 176.85 | 11.44 | 1.026 | 0.99974 |
| 4092              | 1                    | 2.98                        | 1                     | 179                           | 458                                    | 0.002 | 179.00 | 0.39  | 1.000 | 0.99999 |
| 4101              | 3                    | 12.00                       | 167                   | 57,096                        | 981                                    | 0.170 | 341.89 | 58.20 | 1.025 | 0.99870 |
| 4134              | 2                    | 2.58                        | 1,280                 | 73,851                        | 1,278                                  | 1.002 | 57.70  | 57.79 | 1.002 | 0.99871 |
| 4138              | 3                    | 2.75                        | 24                    | 1,225                         | 760                                    | 0.032 | 51.04  | 1.61  | 1.000 | 0.99996 |
| 4142              | 1                    | 3.75                        | 10                    | 2,253                         | 621                                    | 0.016 | 225.30 | 3.63  | 1.000 | 0.99992 |
| 4152              | 3                    | 7.12                        | 37                    | 4,198                         | 1,297                                  | 0.029 | 113.46 | 3.24  | 1.057 | 0.99993 |
| 4153              | 4                    | 8.18                        | 5                     | 698                           | 1,133                                  | 0.004 | 139.60 | 0.62  | 1.000 | 0.99999 |
| 4154              | 2                    | 1.55                        | 21                    | 911                           | 1,366                                  | 0.015 | 43.38  | 0.67  | 1.235 | 0.99999 |
| 4155              | 2                    | 2.08                        | 2                     | 125                           | 1,683                                  | 0.001 | 62.50  | 0.07  | 1.000 | 0.99999 |
| 4171              | 5                    | 7.93                        | 46                    | 8,424                         | 1,186                                  | 0.039 | 183.13 | 7.10  | 1.000 | 0.99984 |
| 4172              | 19                   | 24.09                       | 30                    | 2,532                         | 1,855                                  | 0.016 | 84.40  | 1.36  | 1.034 | 0.99997 |
| 4173              | 2                    | 1.38                        | 41                    | 1,632                         | 691                                    | 0.059 | 39.80  | 2.36  | 1.025 | 0.99995 |
| 4181              | 2                    | 2.91                        | 20                    | 1,453                         | 783                                    | 0.026 | 72.65  | 1.86  | 1.000 | 0.99996 |
| 4182              | 4                    | 6.05                        | 12                    | 1,048                         | 779                                    | 0.015 | 87.33  | 1.35  | 1.000 | 0.99997 |
| 4212              | 2                    | 1.89                        | 47                    | 2,948                         | 1,084                                  | 0.043 | 62.72  | 2.72  | 1.000 | 0.99994 |
| 4222              | 7                    | 14.48                       | 35                    | 3,088                         | 1,073                                  | 0.033 | 88.23  | 2.88  | 1.029 | 0.99994 |



| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI   | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|---------|-------|---------|
| 4223              | 3                    | 3.82                        | 1,145                 | 184,379                       | 1,123                                  | 1.020 | 161.03 | 164.18  | 1.020 | 0.99632 |
| 4224              | 4                    | 4.17                        | 38                    | 3,045                         | 772                                    | 0.049 | 80.13  | 3.94    | 1.000 | 0.99991 |
| 4302              | 2                    | 6.06                        | 79                    | 12,322                        | 662                                    | 0.119 | 155.97 | 18.61   | 1.013 | 0.99958 |
| 4303              | 2                    | 8.32                        | 8                     | 3,397                         | 1,304                                  | 0.006 | 424.63 | 2.61    | 1.000 | 0.99994 |
| 4311              | 1                    | 1.58                        | 3                     | 286                           | 748                                    | 0.004 | 95.33  | 0.38    | 1.000 | 0.99999 |
| 4313              | 2                    | 3.90                        | 321                   | 39,759                        | 558                                    | 0.575 | 123.86 | 71.25   | 1.003 | 0.99840 |
| 4321              | 1                    | 0.72                        | 1                     | 43                            | 182                                    | 0.005 | 43.00  | 0.24    | 1.000 | 0.99999 |
| 4331              | 1                    | 1.73                        | 2                     | 209                           | 332                                    | 0.006 | 104.50 | 0.63    | 1.000 | 0.99999 |
| 4334              | 1                    | 1.10                        | 1                     | 66                            | 302                                    | 0.003 | 66.00  | 0.22    | 1.000 | 0.99999 |
| 4341              | 4                    | 5.14                        | 146                   | 7,848                         | 1,825                                  | 0.080 | 53.75  | 4.30    | 1.090 | 0.99990 |
| 4342              | 2                    | 5.33                        | 48                    | 6,204                         | 837                                    | 0.057 | 129.25 | 7.41    | 1.000 | 0.99983 |
| 4343              | 5                    | 7.32                        | 28                    | 1,622                         | 1,680                                  | 0.017 | 57.93  | 0.97    | 1.077 | 0.99998 |
| 4361              | 2                    | 9.88                        | 29                    | 11,262                        | 1,660                                  | 0.017 | 388.34 | 6.78    | 1.318 | 0.99985 |
| 4362              | 1                    | 0.82                        | 69                    | 3,413                         | 840                                    | 0.082 | 49.46  | 4.06    | 1.000 | 0.99991 |
| 4363              | 1                    | 0.85                        | 48                    | 2,451                         | 703                                    | 0.068 | 51.06  | 3.49    | 1.000 | 0.99992 |
| 4364              | 22                   | 77.48                       | 249                   | 48,922                        | 858                                    | 0.290 | 196.47 | 57.02   | 1.000 | 0.99872 |
| 4371              | 3                    | 3.46                        | 19                    | 2,224                         | 1,556                                  | 0.012 | 117.05 | 1.43    | 1.056 | 0.99997 |
| 4372              | 4                    | 5.95                        | 33                    | 1,477                         | 431                                    | 0.077 | 44.76  | 3.43    | 1.065 | 0.99992 |
| 4373              | 2                    | 2.23                        | 2                     | 134                           | 769                                    | 0.003 | 67.00  | 0.17    | 1.000 | 0.99999 |
| 4431              | 4                    | 14.28                       | 88                    | 16,183                        | 1,428                                  | 0.062 | 183.90 | 11.33   | 1.000 | 0.99975 |
| 4432              | 5                    | 7.21                        | 68                    | 6,063                         | 482                                    | 0.141 | 89.16  | 12.58   | 1.063 | 0.99972 |
| 4476              | 1                    | 2.15                        | 457                   | 59,288                        | 457                                    | 1.000 | 129.73 | 129.733 | 1.000 | 0.99998 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 4511              | 2                    | 2.77                        | 1,147                 | 127,604                       | 1,146                                  | 1.001 | 111.25 | 111.35 | 1.001 | 0.99751 |
| 455               | 1                    | 0.48                        | 1                     | 29                            | 170                                    | 0.006 | 29.00  | 0.17   | 1.000 | 0.99999 |
| 457               | 2                    | 9.41                        | 25                    | 10,483                        | 179                                    | 0.140 | 419.32 | 58.56  | 1.000 | 0.99869 |
| 4602              | 4                    | 4.45                        | 24                    | 1,950                         | 978                                    | 0.025 | 81.25  | 1.99   | 1.000 | 0.99996 |
| 4692              | 2                    | 4.12                        | 12                    | 1,185                         | 488                                    | 0.025 | 98.75  | 2.43   | 1.091 | 0.99995 |
| 4712              | 2                    | 7.12                        | 2                     | 427                           | 129                                    | 0.016 | 213.50 | 3.31   | 1.000 | 0.99993 |
| 4714              | 3                    | 5.60                        | 38                    | 4,969                         | 349                                    | 0.109 | 130.76 | 14.24  | 1.027 | 0.99968 |
| 4791              | 3                    | 3.25                        | 3                     | 195                           | 627                                    | 0.005 | 65.00  | 0.31   | 1.000 | 0.99999 |
| 4891              | 1                    | 1.57                        | 1                     | 94                            | 593                                    | 0.002 | 94.00  | 0.16   | 1.000 | 0.99999 |
| 5601              | 5                    | 9.63                        | 15                    | 1,374                         | 1,297                                  | 0.012 | 91.60  | 1.06   | 1.000 | 0.99998 |
| 5602              | 2                    | 3.84                        | 2                     | 230                           | 715                                    | 0.003 | 115.00 | 0.32   | 1.000 | 0.99999 |
| 5603              | 3                    | 4.42                        | 52                    | 4,444                         | 1,484                                  | 0.035 | 85.46  | 2.99   | 1.000 | 0.99993 |
| 5901              | 1                    | 1.52                        | 53                    | 4,823                         | 827                                    | 0.064 | 91.00  | 5.83   | 1.000 | 0.99987 |
| 5902              | 2                    | 1.37                        | 55                    | 3,748                         | 967                                    | 0.057 | 68.15  | 3.88   | 1.019 | 0.99991 |
| 5905              | 8                    | 16.39                       | 96                    | 14,291                        | 1,941                                  | 0.049 | 148.86 | 7.36   | 1.000 | 0.99984 |
| 6021              | 3                    | 4.31                        | 7                     | 939                           | 1,364                                  | 0.005 | 134.14 | 0.69   | 1.000 | 0.99998 |
| 6141              | 1                    | 0.73                        | 1                     | 44                            | 651                                    | 0.002 | 44.00  | 0.07   | 1.000 | 0.99999 |
| 6143              | 1                    | 1.05                        | 1                     | 63                            | 376                                    | 0.003 | 63.00  | 0.17   | 1.000 | 0.99999 |
| 6393              | 1                    | 1.85                        | 1                     | 111                           | 2                                      | 0.500 | 111.00 | 55.50  | 1.000 | 0.99876 |
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
| Total:            | 529                  | 1,011.21                    | 17,313                | 2,184,140                     | 174,258                                | 0.099 | 126.16 | 12.53  | 1.080 | 0.99972 |

**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**

6/1/2022 to 6/30/2022

EXCLUDING MAJOR EVENT DAYS

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 1050              | 4                    | 3.75                        | 66                    | 3,349                         | 1,762                                  | 0.037 | 50.74  | 1.90  | 1.015 | 0.99996 |
| 1051              | 2                    | 1.70                        | 20                    | 1,262                         | 785                                    | 0.025 | 63.10  | 1.61  | 1.053 | 0.99996 |
| 1082              | 7                    | 9.53                        | 284                   | 26,773                        | 1,394                                  | 0.204 | 94.27  | 19.21 | 1.060 | 0.99956 |
| 1091              | 13                   | 12.06                       | 38                    | 1,517                         | 721                                    | 0.053 | 39.92  | 2.10  | 1.056 | 0.99995 |
| 1093              | 3                    | 3.12                        | 6                     | 387                           | 232                                    | 0.026 | 64.50  | 1.67  | 1.000 | 0.99996 |
| 1094              | 9                    | 6.86                        | 61                    | 2,257                         | 1,255                                  | 0.049 | 37.00  | 1.80  | 1.017 | 0.99996 |
| 1102              | 4                    | 3.94                        | 140                   | 10,289                        | 1,084                                  | 0.129 | 73.49  | 9.49  | 1.000 | 0.99978 |
| 1103              | 4                    | 1.12                        | 24                    | 269                           | 1,008                                  | 0.024 | 11.21  | 0.27  | 1.043 | 0.99999 |
| 1104              | 1                    | 4.37                        | 3                     | 787                           | 191                                    | 0.016 | 262.33 | 4.12  | 1.000 | 0.99990 |
| 1142              | 1                    | 1.22                        | 19                    | 1,387                         | 157                                    | 0.121 | 73.00  | 8.83  | 1.000 | 0.99980 |
| 1211              | 3                    | 1.69                        | 20                    | 810                           | 1,506                                  | 0.013 | 40.50  | 0.54  | 1.000 | 0.99999 |
| 1212              | 1                    | 1.55                        | 1                     | 93                            | 343                                    | 0.003 | 93.00  | 0.27  | 1.000 | 0.99999 |
| 1213              | 5                    | 4.80                        | 130                   | 5,314                         | 576                                    | 0.226 | 40.88  | 9.23  | 1.066 | 0.99979 |
| 1230              | 2                    | 0.97                        | 42                    | 1,155                         | 1,232                                  | 0.034 | 27.50  | 0.94  | 1.000 | 0.99998 |
| 1232              | 2                    | 1.65                        | 3                     | 153                           | 1,209                                  | 0.002 | 51.00  | 0.13  | 1.000 | 0.99999 |
| 1233              | 2                    | 2.30                        | 8                     | 677                           | 649                                    | 0.012 | 84.63  | 1.04  | 1.000 | 0.99998 |
| 1241              | 1                    | 1.63                        | 1                     | 98                            | 890                                    | 0.001 | 98.00  | 0.11  | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1242              | 1                    | 0.92                        | 22                    | 1,216                         | 858                                    | 0.026 | 55.27  | 1.42   | 1.000 | 0.99997 |
| 1243              | 4                    | 11.35                       | 85                    | 12,731                        | 1,247                                  | 0.068 | 149.78 | 10.21  | 1.037 | 0.99976 |
| 1264              | 1                    | 1.70                        | 425                   | 43,682                        | 425                                    | 1.000 | 102.78 | 102.78 | 1.000 | 0.99765 |
| 1265              | 1                    | 1.75                        | 1                     | 105                           | 1,306                                  | 0.001 | 105.00 | 0.08   | 1.000 | 0.99999 |
| 1271              | 1                    | 1.18                        | 1                     | 71                            | 988                                    | 0.001 | 71.00  | 0.07   | 1.000 | 0.99999 |
| 1273              | 5                    | 3.13                        | 21                    | 1,261                         | 871                                    | 0.024 | 60.05  | 1.45   | 1.050 | 0.99997 |
| 1284              | 5                    | 19.17                       | 22                    | 2,306                         | 955                                    | 0.023 | 104.82 | 2.41   | 1.000 | 0.99994 |
| 1312              | 8                    | 13.80                       | 1,050                 | 116,455                       | 977                                    | 1.075 | 110.91 | 119.20 | 1.167 | 0.99724 |
| 1451              | 1                    | 1.30                        | 4                     | 314                           | 556                                    | 0.007 | 78.50  | 0.56   | 1.000 | 0.99999 |
| 1452              | 2                    | 1.30                        | 21                    | 762                           | 462                                    | 0.045 | 36.29  | 1.65   | 1.050 | 0.99996 |
| 1453              | 5                    | 4.45                        | 256                   | 18,708                        | 1,826                                  | 0.140 | 73.08  | 10.25  | 1.016 | 0.99976 |
| 1454              | 1                    | 1.82                        | 1                     | 109                           | 950                                    | 0.001 | 109.00 | 0.11   | 1.000 | 0.99999 |
| 1455              | 1                    | 1.02                        | 1                     | 61                            | 416                                    | 0.002 | 61.00  | 0.15   | 1.000 | 0.99999 |
| 1523              | 5                    | 4.64                        | 147                   | 10,860                        | 763                                    | 0.193 | 73.88  | 14.23  | 1.089 | 0.99967 |
| 1842              | 1                    | 1.07                        | 11                    | 706                           | 298                                    | 0.037 | 64.18  | 2.37   | 1.000 | 0.99995 |
| 2091              | 9                    | 30.16                       | 95                    | 22,061                        | 923                                    | 0.103 | 232.22 | 23.90  | 1.056 | 0.99945 |
| 2092              | 3                    | 7.93                        | 3                     | 476                           | 953                                    | 0.003 | 158.67 | 0.50   | 1.000 | 0.99999 |
| 2171              | 2                    | 1.60                        | 2                     | 96                            | 593                                    | 0.003 | 48.00  | 0.16   | 1.000 | 0.99999 |
| 2211              | 5                    | 6.05                        | 120                   | 7,833                         | 742                                    | 0.162 | 65.28  | 10.56  | 1.034 | 0.99976 |
| 2212              | 8                    | 9.18                        | 203                   | 12,720                        | 1,384                                  | 0.147 | 62.66  | 9.19   | 1.015 | 0.99979 |
| 2621              | 4                    | 8.15                        | 65                    | 4,006                         | 1,212                                  | 0.054 | 61.63  | 3.31   | 1.016 | 0.99992 |
| 2921              | 2                    | 2.10                        | 11                    | 951                           | 396                                    | 0.028 | 86.45  | 2.40   | 1.100 | 0.99994 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 2951              | 2                    | 5.01                        | 48                    | 4,570                         | 1,256                                  | 0.038 | 95.21  | 3.64   | 1.021 | 0.99992 |
| 2952              | 1                    | 1.27                        | 1                     | 76                            | 379                                    | 0.003 | 76.00  | 0.20   | 1.000 | 0.99999 |
| 2961              | 11                   | 15.34                       | 1,347                 | 123,700                       | 1,218                                  | 1.106 | 91.83  | 101.56 | 1.106 | 0.99768 |
| 3122              | 3                    | 2.54                        | 98                    | 5,991                         | 891                                    | 0.110 | 61.13  | 6.72   | 1.000 | 0.99984 |
| 3123              | 3                    | 3.55                        | 9                     | 448                           | 1,132                                  | 0.008 | 49.78  | 0.40   | 1.000 | 0.99999 |
| 3181              | 5                    | 24.74                       | 100                   | 23,221                        | 767                                    | 0.130 | 232.21 | 30.28  | 1.538 | 0.99930 |
| 3221              | 2                    | 2.27                        | 15                    | 1,172                         | 1,289                                  | 0.012 | 78.13  | 0.91   | 1.071 | 0.99998 |
| 3222              | 1                    | 1.55                        | 6                     | 558                           | 801                                    | 0.007 | 93.00  | 0.70   | 1.000 | 0.99998 |
| 3231              | 6                    | 14.57                       | 97                    | 10,375                        | 216                                    | 0.449 | 106.96 | 48.03  | 1.102 | 0.99889 |
| 3232              | 1                    | 2.75                        | 19                    | 3,145                         | 450                                    | 0.042 | 165.53 | 6.99   | 1.000 | 0.99984 |
| 3301              | 3                    | 3.44                        | 5                     | 350                           | 772                                    | 0.006 | 70.00  | 0.45   | 1.000 | 0.99999 |
| 3303              | 3                    | 2.93                        | 143                   | 7,256                         | 1,792                                  | 0.080 | 50.74  | 4.05   | 1.000 | 0.99991 |
| 3304              | 7                    | 8.30                        | 137                   | 10,985                        | 1,178                                  | 0.116 | 80.18  | 9.33   | 1.007 | 0.99978 |
| 3305              | 1                    | 1.30                        | 1                     | 78                            | 18                                     | 0.056 | 78.00  | 4.33   | 1.000 | 0.99990 |
| 3313              | 1                    | 3.33                        | 1                     | 200                           | 1,525                                  | 0.001 | 200.00 | 0.13   | 1.000 | 0.99999 |
| 3315              | 2                    | 2.19                        | 35                    | 2,274                         | 1,620                                  | 0.022 | 64.97  | 1.40   | 1.000 | 0.99997 |
| 3471              | 2                    | 1.27                        | 19                    | 748                           | 496                                    | 0.038 | 39.37  | 1.51   | 1.056 | 0.99997 |
| 3472              | 4                    | 3.00                        | 35                    | 1,285                         | 1,327                                  | 0.026 | 36.71  | 0.97   | 1.061 | 0.99998 |
| 3551              | 1                    | 4.02                        | 27                    | 6,511                         | 1,045                                  | 0.026 | 241.15 | 6.23   | 1.000 | 0.99986 |
| 3552              | 1                    | 7.83                        | 11                    | 5,171                         | 585                                    | 0.019 | 470.09 | 8.84   | 1.000 | 0.99980 |
| 3553              | 3                    | 9.02                        | 19                    | 1,925                         | 878                                    | 0.022 | 101.32 | 2.19   | 1.118 | 0.99995 |
| 3591              | 4                    | 13.12                       | 55                    | 15,873                        | 1,560                                  | 0.035 | 288.60 | 10.18  | 1.000 | 0.99976 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 3592              | 3                    | 3.60                        | 20                    | 1,556                         | 1,808                                  | 0.011 | 77.80  | 0.86   | 1.053 | 0.99998 |
| 3593              | 1                    | 1.23                        | 45                    | 3,336                         | 950                                    | 0.047 | 74.13  | 3.51   | 1.000 | 0.99992 |
| 3594              | 1                    | 1.13                        | 189                   | 13,031                        | 789                                    | 0.240 | 68.95  | 16.52  | 1.000 | 0.99962 |
| 3621              | 5                    | 6.01                        | 29                    | 2,060                         | 1,608                                  | 0.018 | 71.03  | 1.28   | 1.074 | 0.99997 |
| 3661              | 6                    | 4.56                        | 1,301                 | 103,596                       | 1,082                                  | 1.202 | 79.63  | 95.74  | 1.202 | 0.99778 |
| 3662              | 4                    | 5.17                        | 900                   | 78,927                        | 892                                    | 1.009 | 87.70  | 88.48  | 1.009 | 0.99795 |
| 3663              | 7                    | 7.18                        | 322                   | 27,654                        | 312                                    | 1.032 | 85.88  | 88.63  | 1.032 | 0.99795 |
| 3664              | 4                    | 3.82                        | 599                   | 52,176                        | 582                                    | 1.029 | 87.11  | 89.65  | 1.029 | 0.99792 |
| 3692              | 2                    | 1.27                        | 2                     | 76                            | 417                                    | 0.005 | 38.00  | 0.18   | 1.000 | 0.99999 |
| 3701              | 7                    | 4.58                        | 15                    | 660                           | 535                                    | 0.028 | 44.00  | 1.23   | 1.250 | 0.99997 |
| 3702              | 1                    | 0.60                        | 15                    | 545                           | 673                                    | 0.022 | 36.33  | 0.81   | 1.000 | 0.99998 |
| 3751              | 5                    | 4.89                        | 982                   | 32,496                        | 929                                    | 1.057 | 33.09  | 34.98  | 1.057 | 0.99919 |
| 3872              | 2                    | 1.75                        | 12                    | 366                           | 1,180                                  | 0.010 | 30.50  | 0.31   | 1.000 | 0.99999 |
| 3878              | 2                    | 2.49                        | 45                    | 2,477                         | 847                                    | 0.053 | 55.04  | 2.92   | 1.071 | 0.99993 |
| 3891              | 6                    | 5.07                        | 6                     | 305                           | 451                                    | 0.013 | 50.83  | 0.68   | 1.000 | 0.99998 |
| 3892              | 2                    | 2.61                        | 536                   | 60,570                        | 541                                    | 0.991 | 113.00 | 111.96 | 1.002 | 0.99741 |
| 3893              | 3                    | 4.62                        | 3                     | 277                           | 1,171                                  | 0.003 | 92.33  | 0.24   | 1.000 | 0.99999 |
| 3901              | 4                    | 3.83                        | 57                    | 3,466                         | 884                                    | 0.064 | 60.81  | 3.92   | 1.000 | 0.99991 |
| 3903              | 3                    | 4.14                        | 125                   | 10,402                        | 315                                    | 0.397 | 83.22  | 33.02  | 1.106 | 0.99924 |
| 3912              | 10                   | 26.76                       | 183                   | 15,795                        | 1,366                                  | 0.134 | 86.31  | 11.56  | 1.046 | 0.99973 |
| 3913              | 1                    | 0.52                        | 12                    | 375                           | 825                                    | 0.015 | 31.25  | 0.45   | 1.000 | 0.99999 |
| 3914              | 1                    | 0.82                        | 1                     | 49                            | 396                                    | 0.003 | 49.00  | 0.12   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 3951              | 1                    | 0.77                        | 26                    | 1,204                         | 961                                    | 0.027 | 46.31  | 1.25   | 1.000 | 0.99997 |
| 3952              | 3                    | 2.77                        | 311                   | 22,684                        | 1,309                                  | 0.238 | 72.94  | 17.33  | 1.020 | 0.99960 |
| 3953              | 8                    | 7.51                        | 608                   | 60,511                        | 543                                    | 1.120 | 99.52  | 111.44 | 1.120 | 0.99742 |
| 3971              | 2                    | 2.49                        | 25                    | 1,484                         | 693                                    | 0.036 | 59.36  | 2.14   | 1.000 | 0.99995 |
| 3981              | 4                    | 4.07                        | 14                    | 932                           | 1,568                                  | 0.009 | 66.57  | 0.59   | 1.167 | 0.99999 |
| 3982              | 3                    | 2.30                        | 73                    | 4,187                         | 1,827                                  | 0.040 | 57.36  | 2.29   | 1.000 | 0.99995 |
| 3991              | 4                    | 4.05                        | 7                     | 445                           | 761                                    | 0.009 | 63.57  | 0.58   | 1.000 | 0.99999 |
| 4031              | 3                    | 8.71                        | 23                    | 4,848                         | 714                                    | 0.032 | 210.78 | 6.79   | 1.000 | 0.99984 |
| 4091              | 2                    | 6.17                        | 20                    | 3,401                         | 1,206                                  | 0.017 | 170.05 | 2.82   | 1.000 | 0.99993 |
| 4092              | 2                    | 2.08                        | 20                    | 1,277                         | 458                                    | 0.044 | 63.85  | 2.79   | 1.053 | 0.99994 |
| 4101              | 4                    | 3.45                        | 1,066                 | 122,760                       | 981                                    | 1.087 | 115.16 | 125.14 | 1.087 | 0.99710 |
| 4102              | 1                    | 2.00                        | 4                     | 480                           | 539                                    | 0.007 | 120.00 | 0.89   | 1.000 | 0.99998 |
| 4131              | 2                    | 2.80                        | 5                     | 417                           | 205                                    | 0.024 | 83.40  | 2.03   | 1.000 | 0.99995 |
| 4132              | 1                    | 0.93                        | 1                     | 56                            | 568                                    | 0.002 | 56.00  | 0.10   | 1.000 | 0.99999 |
| 4134              | 1                    | 1.52                        | 1                     | 91                            | 1,278                                  | 0.001 | 91.00  | 0.07   | 1.000 | 0.99999 |
| 4137              | 3                    | 3.21                        | 52                    | 3,893                         | 817                                    | 0.064 | 74.87  | 4.76   | 1.040 | 0.99989 |
| 4138              | 3                    | 3.65                        | 59                    | 3,811                         | 760                                    | 0.078 | 64.59  | 5.01   | 1.000 | 0.99988 |
| 4141              | 2                    | 5.75                        | 2                     | 345                           | 84                                     | 0.024 | 172.50 | 4.11   | 1.000 | 0.99990 |
| 4142              | 2                    | 1.99                        | 63                    | 3,210                         | 621                                    | 0.101 | 50.95  | 5.17   | 1.000 | 0.99988 |
| 4152              | 5                    | 6.75                        | 33                    | 2,306                         | 1,297                                  | 0.025 | 69.88  | 1.78   | 1.375 | 0.99996 |
| 4154              | 1                    | 1.32                        | 1                     | 79                            | 1,366                                  | 0.001 | 79.00  | 0.06   | 1.000 | 0.99999 |
| 4171              | 1                    | 0.85                        | 12                    | 619                           | 1,186                                  | 0.010 | 51.58  | 0.52   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 4172              | 2                    | 3.35                        | 7                     | 511                           | 1,855                                  | 0.004 | 73.00  | 0.28  | 1.167 | 0.99999 |
| 4181              | 2                    | 2.25                        | 20                    | 1,359                         | 783                                    | 0.026 | 67.95  | 1.74  | 2.000 | 0.99996 |
| 4211              | 1                    | 0.82                        | 16                    | 787                           | 719                                    | 0.022 | 49.19  | 1.09  | 1.000 | 0.99997 |
| 4212              | 6                    | 14.85                       | 99                    | 18,315                        | 1,084                                  | 0.091 | 185.00 | 16.90 | 1.031 | 0.99961 |
| 4222              | 2                    | 1.77                        | 8                     | 473                           | 1,073                                  | 0.007 | 59.13  | 0.44  | 1.143 | 0.99999 |
| 4223              | 11                   | 10.15                       | 476                   | 29,485                        | 1,123                                  | 0.424 | 61.94  | 26.26 | 1.273 | 0.99939 |
| 4224              | 4                    | 10.90                       | 138                   | 17,747                        | 772                                    | 0.179 | 128.60 | 22.99 | 1.000 | 0.99947 |
| 4301              | 1                    | 0.28                        | 3                     | 51                            | 111                                    | 0.027 | 17.00  | 0.46  | 1.000 | 0.99999 |
| 4303              | 3                    | 4.63                        | 95                    | 8,236                         | 1,304                                  | 0.073 | 86.69  | 6.32  | 1.000 | 0.99985 |
| 4312              | 2                    | 3.76                        | 2                     | 226                           | 900                                    | 0.002 | 113.00 | 0.25  | 1.000 | 0.99999 |
| 4313              | 4                    | 6.27                        | 38                    | 3,431                         | 558                                    | 0.068 | 90.29  | 6.15  | 1.000 | 0.99986 |
| 4321              | 2                    | 1.96                        | 170                   | 10,079                        | 182                                    | 0.934 | 59.29  | 55.38 | 1.574 | 0.99872 |
| 4331              | 2                    | 1.68                        | 6                     | 316                           | 332                                    | 0.018 | 52.67  | 0.95  | 1.200 | 0.99998 |
| 4334              | 1                    | 1.20                        | 1                     | 72                            | 302                                    | 0.003 | 72.00  | 0.24  | 1.000 | 0.99999 |
| 4341              | 2                    | 1.50                        | 38                    | 1,726                         | 1,825                                  | 0.021 | 45.42  | 0.95  | 1.357 | 0.99998 |
| 4342              | 1                    | 0.45                        | 41                    | 1,139                         | 837                                    | 0.049 | 27.78  | 1.36  | 1.000 | 0.99997 |
| 4343              | 4                    | 9.69                        | 85                    | 13,418                        | 1,680                                  | 0.051 | 157.86 | 7.99  | 1.250 | 0.99982 |
| 4361              | 4                    | 7.73                        | 147                   | 14,229                        | 1,660                                  | 0.089 | 96.80  | 8.57  | 1.028 | 0.99980 |
| 4362              | 6                    | 17.59                       | 214                   | 31,381                        | 840                                    | 0.255 | 146.64 | 37.36 | 1.597 | 0.99914 |
| 4363              | 1                    | 0.90                        | 1                     | 54                            | 703                                    | 0.001 | 54.00  | 0.08  | 1.000 | 0.99999 |
| 4364              | 4                    | 2.60                        | 991                   | 15,308                        | 858                                    | 1.155 | 15.45  | 17.84 | 1.155 | 0.99959 |
| 4371              | 5                    | 5.72                        | 27                    | 2,039                         | 1,556                                  | 0.017 | 75.52  | 1.31  | 1.038 | 0.99997 |



| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 4372              | 2                    | 2.97                        | 432                   | 40,555                        | 431                                    | 1.002 | 93.88  | 94.10  | 1.002 | 0.99782 |
| 4373              | 8                    | 12.30                       | 802                   | 84,007                        | 769                                    | 1.043 | 104.75 | 109.24 | 1.043 | 0.99747 |
| 4431              | 6                    | 6.06                        | 6                     | 364                           | 1,428                                  | 0.004 | 60.67  | 0.25   | 1.200 | 0.99999 |
| 4432              | 1                    | 0.73                        | 11                    | 490                           | 482                                    | 0.023 | 44.55  | 1.02   | 1.000 | 0.99998 |
| 4511              | 1                    | 1.97                        | 1                     | 118                           | 1,146                                  | 0.001 | 118.00 | 0.10   | 1.000 | 0.99999 |
| 4602              | 1                    | 1.33                        | 13                    | 1,046                         | 978                                    | 0.013 | 80.46  | 1.07   | 1.000 | 0.99998 |
| 4692              | 1                    | 1.72                        | 17                    | 1,762                         | 488                                    | 0.035 | 103.65 | 3.61   | 1.000 | 0.99992 |
| 4714              | 1                    | 1.12                        | 10                    | 673                           | 349                                    | 0.029 | 67.30  | 1.93   | 1.000 | 0.99996 |
| 4791              | 2                    | 3.90                        | 2                     | 234                           | 627                                    | 0.003 | 117.00 | 0.37   | 1.000 | 0.99999 |
| 4794              | 1                    | 1.53                        | 1                     | 92                            | 398                                    | 0.003 | 92.00  | 0.23   | 1.000 | 0.99999 |
| 4891              | 2                    | 5.80                        | 593                   | 83,226                        | 593                                    | 1.000 | 140.35 | 140.35 | 1.002 | 0.99675 |
| 5601              | 3                    | 3.42                        | 523                   | 44,261                        | 1,297                                  | 0.403 | 84.63  | 34.13  | 1.165 | 0.99921 |
| 5603              | 1                    | 1.20                        | 10                    | 726                           | 1,484                                  | 0.007 | 72.60  | 0.49   | 1.000 | 0.99999 |
| 5902              | 1                    | 2.02                        | 1                     | 121                           | 967                                    | 0.001 | 121.00 | 0.13   | 1.000 | 0.99999 |
| 5904              | 1                    | 0.60                        | 25                    | 912                           | 1,287                                  | 0.019 | 36.48  | 0.71   | 1.000 | 0.99998 |
| 5905              | 4                    | 2.83                        | 29                    | 1,028                         | 1,941                                  | 0.015 | 35.45  | 0.53   | 1.036 | 0.99999 |
| 6021              | 4                    | 4.15                        | 39                    | 2,252                         | 1,364                                  | 0.029 | 57.74  | 1.65   | 1.083 | 0.99996 |
| 6022              | 3                    | 3.47                        | 3                     | 208                           | 568                                    | 0.005 | 69.33  | 0.37   | 1.500 | 0.99999 |
| 6141              | 1                    | 0.98                        | 9                     | 535                           | 651                                    | 0.014 | 59.44  | 0.82   | 1.000 | 0.99998 |
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
| Total:            | 458                  | 669.31                      | 18,636                | 1,622,206                     | 174,258                                | 0.107 | 87.05  | 9.31   | 1.084 | 0.99978 |

**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
7/1/2022 to 7/31/2022  
EXCLUDING MAJOR EVENT DAYS

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 1050              | 1                    | 1.85                        | 24                    | 2,686                         | 1,762                                  | 0.014 | 111.92 | 1.52  | 1.000 | 0.99997 |
| 1082              | 3                    | 1.85                        | 12                    | 513                           | 1,394                                  | 0.009 | 42.75  | 0.37  | 1.000 | 0.99999 |
| 1092              | 5                    | 3.83                        | 28                    | 1,510                         | 959                                    | 0.029 | 53.93  | 1.57  | 1.077 | 0.99996 |
| 1093              | 1                    | 0.80                        | 1                     | 48                            | 232                                    | 0.004 | 48.00  | 0.21  | 1.000 | 0.99999 |
| 1094              | 2                    | 1.84                        | 22                    | 1,342                         | 1,255                                  | 0.018 | 61.00  | 1.07  | 1.000 | 0.99998 |
| 1101              | 1                    | 0.83                        | 14                    | 706                           | 847                                    | 0.017 | 50.43  | 0.83  | 1.000 | 0.99998 |
| 1102              | 4                    | 2.53                        | 121                   | 4,533                         | 1,084                                  | 0.112 | 37.46  | 4.18  | 1.000 | 0.99991 |
| 1103              | 3                    | 3.52                        | 74                    | 4,980                         | 1,008                                  | 0.073 | 67.30  | 4.94  | 1.000 | 0.99989 |
| 1104              | 2                    | 6.93                        | 64                    | 13,334                        | 191                                    | 0.335 | 208.34 | 69.81 | 2.000 | 0.99844 |
| 1141              | 3                    | 7.04                        | 22                    | 5,789                         | 914                                    | 0.024 | 263.14 | 6.33  | 1.000 | 0.99986 |
| 1211              | 1                    | 1.55                        | 8                     | 746                           | 1,506                                  | 0.005 | 93.25  | 0.50  | 1.000 | 0.99999 |
| 1213              | 13                   | 12.42                       | 15                    | 869                           | 576                                    | 0.026 | 57.93  | 1.51  | 1.500 | 0.99997 |
| 1233              | 2                    | 1.40                        | 2                     | 84                            | 649                                    | 0.003 | 42.00  | 0.13  | 1.000 | 0.99999 |
| 1241              | 1                    | 1.52                        | 56                    | 5,114                         | 890                                    | 0.063 | 91.32  | 5.75  | 1.000 | 0.99987 |
| 1242              | 2                    | 3.17                        | 6                     | 618                           | 858                                    | 0.007 | 103.00 | 0.72  | 1.000 | 0.99998 |
| 1263              | 3                    | 1.77                        | 86                    | 5,526                         | 1,217                                  | 0.071 | 64.26  | 4.54  | 1.012 | 0.99990 |
| 1264              | 1                    | 0.47                        | 11                    | 316                           | 20                                     | 0.550 | 28.73  | 15.80 | 1.000 | 0.99965 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 1265              | 2                    | 1.40                        | 226                   | 9,668                         | 1,306                                  | 0.173 | 42.78  | 7.40  | 1.000 | 0.99983 |
| 1271              | 1                    | 0.73                        | 48                    | 2,136                         | 988                                    | 0.049 | 44.50  | 2.16  | 1.000 | 0.99995 |
| 1273              | 1                    | 1.07                        | 28                    | 1,794                         | 871                                    | 0.032 | 64.07  | 2.06  | 1.000 | 0.99995 |
| 1281              | 2                    | 1.33                        | 170                   | 1,250                         | 170                                    | 1.000 | 7.35   | 7.35  | 1.030 | 0.99984 |
| 1282              | 2                    | 3.24                        | 27                    | 2,024                         | 702                                    | 0.038 | 74.96  | 2.88  | 1.038 | 0.99994 |
| 1284              | 4                    | 2.47                        | 347                   | 32,605                        | 955                                    | 0.363 | 93.96  | 34.14 | 1.045 | 0.99924 |
| 1312              | 6                    | 6.47                        | 29                    | 1,541                         | 977                                    | 0.030 | 53.14  | 1.58  | 1.000 | 0.99996 |
| 1453              | 1                    | 0.37                        | 1                     | 22                            | 1,826                                  | 0.001 | 22.00  | 0.01  | 1.000 | 0.99999 |
| 1454              | 1                    | 0.77                        | 13                    | 609                           | 950                                    | 0.014 | 46.85  | 0.64  | 1.000 | 0.99999 |
| 1455              | 1                    | 0.85                        | 26                    | 1,345                         | 416                                    | 0.063 | 51.73  | 3.23  | 1.000 | 0.99993 |
| 1523              | 6                    | 13.37                       | 222                   | 18,619                        | 763                                    | 0.291 | 83.87  | 24.40 | 1.037 | 0.99945 |
| 1843              | 1                    | 1.18                        | 1                     | 71                            | 1,119                                  | 0.001 | 71.00  | 0.06  | 1.000 | 0.99999 |
| 2091              | 3                    | 6.15                        | 26                    | 3,477                         | 923                                    | 0.028 | 133.73 | 3.77  | 1.000 | 0.99992 |
| 2092              | 1                    | 1.73                        | 11                    | 1,147                         | 953                                    | 0.012 | 104.27 | 1.20  | 1.000 | 0.99997 |
| 2171              | 1                    | 2.22                        | 1                     | 133                           | 593                                    | 0.002 | 133.00 | 0.22  | 1.000 | 0.99999 |
| 2212              | 4                    | 3.75                        | 18                    | 1,507                         | 1,384                                  | 0.013 | 83.72  | 1.09  | 1.200 | 0.99998 |
| 2511              | 1                    | 1.63                        | 5                     | 494                           | 626                                    | 0.008 | 98.80  | 0.79  | 1.000 | 0.99998 |
| 2621              | 1                    | 2.20                        | 13                    | 1,725                         | 1,212                                  | 0.011 | 132.69 | 1.42  | 1.000 | 0.99997 |
| 2951              | 2                    | 5.50                        | 13                    | 1,882                         | 1,256                                  | 0.010 | 144.77 | 1.50  | 1.000 | 0.99997 |
| 2961              | 3                    | 4.08                        | 30                    | 2,945                         | 656                                    | 0.046 | 98.17  | 4.49  | 1.034 | 0.99990 |
| 3121              | 5                    | 11.08                       | 75                    | 7,467                         | 1,156                                  | 0.065 | 99.56  | 6.46  | 1.027 | 0.99986 |
| 3122              | 1                    | 1.55                        | 26                    | 2,442                         | 891                                    | 0.029 | 93.92  | 2.74  | 1.000 | 0.99994 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 3301              | 2                    | 1.18                        | 5                     | 177                           | 772                                    | 0.006 | 35.40  | 0.23  | 1.000 | 0.99999 |
| 3302              | 1                    | 0.87                        | 6                     | 314                           | 652                                    | 0.009 | 52.33  | 0.48  | 1.000 | 0.99999 |
| 3303              | 11                   | 22.39                       | 159                   | 16,888                        | 1,792                                  | 0.089 | 106.21 | 9.42  | 1.000 | 0.99979 |
| 3304              | 5                    | 7.81                        | 16                    | 1,037                         | 1,178                                  | 0.014 | 64.81  | 0.88  | 1.067 | 0.99998 |
| 3311              | 3                    | 3.34                        | 24                    | 2,252                         | 545                                    | 0.044 | 93.83  | 4.13  | 1.043 | 0.99991 |
| 3315              | 3                    | 2.32                        | 53                    | 2,718                         | 1,620                                  | 0.033 | 51.28  | 1.68  | 1.019 | 0.99996 |
| 3421              | 1                    | 0.98                        | 12                    | 711                           | 307                                    | 0.039 | 59.25  | 2.32  | 1.000 | 0.99995 |
| 3422              | 2                    | 8.85                        | 20                    | 5,701                         | 1,002                                  | 0.020 | 285.05 | 5.69  | 1.000 | 0.99987 |
| 3471              | 1                    | 1.20                        | 1                     | 72                            | 496                                    | 0.002 | 72.00  | 0.15  | 1.000 | 0.99999 |
| 3553              | 8                    | 9.01                        | 108                   | 7,589                         | 878                                    | 0.123 | 70.27  | 8.64  | 1.080 | 0.99981 |
| 3592              | 1                    | 1.53                        | 56                    | 5,152                         | 1,808                                  | 0.031 | 92.00  | 2.85  | 1.000 | 0.99994 |
| 3594              | 5                    | 6.59                        | 41                    | 5,882                         | 789                                    | 0.052 | 143.46 | 7.46  | 1.000 | 0.99983 |
| 3621              | 3                    | 4.70                        | 9                     | 886                           | 1,608                                  | 0.006 | 98.44  | 0.55  | 1.000 | 0.99999 |
| 3661              | 5                    | 7.86                        | 144                   | 8,249                         | 1,082                                  | 0.133 | 57.28  | 7.62  | 1.007 | 0.99983 |
| 3663              | 1                    | 1.05                        | 3                     | 190                           | 312                                    | 0.010 | 63.33  | 0.61  | 1.000 | 0.99999 |
| 3692              | 1                    | 1.62                        | 1                     | 97                            | 417                                    | 0.002 | 97.00  | 0.23  | 1.000 | 0.99999 |
| 3751              | 6                    | 6.04                        | 104                   | 6,187                         | 929                                    | 0.112 | 59.49  | 6.66  | 1.040 | 0.99985 |
| 3872              | 3                    | 5.16                        | 6                     | 610                           | 1,180                                  | 0.005 | 101.67 | 0.52  | 1.500 | 0.99999 |
| 3873              | 1                    | 0.88                        | 40                    | 2,134                         | 815                                    | 0.049 | 53.35  | 2.62  | 1.000 | 0.99994 |
| 3891              | 2                    | 3.60                        | 5                     | 735                           | 451                                    | 0.011 | 147.00 | 1.63  | 1.000 | 0.99996 |
| 3892              | 1                    | 1.13                        | 1                     | 68                            | 541                                    | 0.002 | 68.00  | 0.13  | 1.000 | 0.99999 |
| 3893              | 1                    | 0.88                        | 29                    | 1,552                         | 1,171                                  | 0.025 | 53.52  | 1.33  | 1.000 | 0.99997 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 3901              | 6                    | 10.59                       | 103                   | 4,481                         | 884                                    | 0.117 | 43.50  | 5.07  | 1.051 | 0.99989 |
| 3902              | 3                    | 3.67                        | 69                    | 4,488                         | 98                                     | 0.704 | 65.04  | 45.80 | 1.030 | 0.99897 |
| 3951              | 10                   | 10.67                       | 1,151                 | 34,397                        | 961                                    | 1.198 | 29.88  | 35.79 | 1.198 | 0.99920 |
| 3952              | 1                    | 0.88                        | 25                    | 1,343                         | 1,309                                  | 0.019 | 53.72  | 1.03  | 1.000 | 0.99998 |
| 3953              | 2                    | 1.44                        | 20                    | 871                           | 543                                    | 0.037 | 43.55  | 1.60  | 1.000 | 0.99996 |
| 3971              | 2                    | 1.98                        | 6                     | 358                           | 693                                    | 0.009 | 59.67  | 0.52  | 1.000 | 0.99999 |
| 3981              | 4                    | 8.25                        | 41                    | 3,882                         | 1,568                                  | 0.026 | 94.68  | 2.48  | 1.025 | 0.99994 |
| 3982              | 2                    | 1.73                        | 19                    | 957                           | 1,827                                  | 0.010 | 50.37  | 0.52  | 1.000 | 0.99999 |
| 3991              | 6                    | 7.93                        | 20                    | 1,800                         | 761                                    | 0.026 | 90.00  | 2.37  | 1.053 | 0.99995 |
| 4031              | 3                    | 4.45                        | 3                     | 267                           | 714                                    | 0.004 | 89.00  | 0.37  | 1.500 | 0.99999 |
| 4092              | 1                    | 1.88                        | 1                     | 113                           | 458                                    | 0.002 | 113.00 | 0.25  | 1.000 | 0.99999 |
| 4101              | 1                    | 1.30                        | 1                     | 78                            | 981                                    | 0.001 | 78.00  | 0.08  | 1.000 | 0.99999 |
| 4134              | 3                    | 4.76                        | 177                   | 25,592                        | 1,278                                  | 0.138 | 144.59 | 20.03 | 1.006 | 0.99955 |
| 4136              | 1                    | 2.85                        | 1                     | 171                           | 684                                    | 0.001 | 171.00 | 0.25  | 1.000 | 0.99999 |
| 4142              | 2                    | 2.29                        | 2                     | 137                           | 621                                    | 0.003 | 68.50  | 0.22  | 1.000 | 0.99999 |
| 4152              | 1                    | 6.35                        | 1                     | 381                           | 1,297                                  | 0.001 | 381.00 | 0.29  | 1.000 | 0.99999 |
| 4153              | 3                    | 3.60                        | 29                    | 1,666                         | 1,133                                  | 0.026 | 57.45  | 1.47  | 1.074 | 0.99997 |
| 4154              | 2                    | 1.80                        | 33                    | 1,632                         | 1,366                                  | 0.024 | 49.45  | 1.19  | 1.000 | 0.99997 |
| 4171              | 4                    | 3.70                        | 28                    | 1,196                         | 1,186                                  | 0.024 | 42.71  | 1.01  | 1.000 | 0.99998 |
| 4173              | 4                    | 8.33                        | 284                   | 47,114                        | 691                                    | 0.411 | 165.89 | 68.18 | 1.596 | 0.99847 |
| 4181              | 1                    | 1.25                        | 10                    | 750                           | 783                                    | 0.013 | 75.00  | 0.96  | 1.000 | 0.99998 |
| 4182              | 2                    | 8.99                        | 8                     | 1,820                         | 779                                    | 0.010 | 227.50 | 2.34  | 1.000 | 0.99995 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 4211              | 1                    | 0.80                        | 30                    | 1,447                         | 719                                    | 0.042 | 48.23  | 2.01   | 1.000 | 0.99995 |
| 4212              | 3                    | 2.03                        | 35                    | 1,367                         | 1,084                                  | 0.032 | 39.06  | 1.26   | 1.061 | 0.99997 |
| 4222              | 3                    | 2.98                        | 15                    | 625                           | 1,073                                  | 0.014 | 41.67  | 0.58   | 1.154 | 0.99999 |
| 4223              | 2                    | 1.47                        | 37                    | 1,600                         | 1,123                                  | 0.033 | 43.24  | 1.42   | 1.000 | 0.99997 |
| 4224              | 1                    | 0.55                        | 7                     | 236                           | 772                                    | 0.009 | 33.71  | 0.31   | 1.000 | 0.99999 |
| 4301              | 1                    | 0.70                        | 3                     | 126                           | 111                                    | 0.027 | 42.00  | 1.14   | 1.000 | 0.99997 |
| 4302              | 4                    | 5.74                        | 183                   | 12,500                        | 662                                    | 0.276 | 68.31  | 18.88  | 1.011 | 0.99958 |
| 4311              | 1                    | 1.60                        | 1                     | 96                            | 748                                    | 0.001 | 96.00  | 0.13   | 1.000 | 0.99999 |
| 4313              | 2                    | 2.47                        | 13                    | 847                           | 558                                    | 0.023 | 65.15  | 1.52   | 1.000 | 0.99997 |
| 4331              | 1                    | 0.45                        | 61                    | 1,701                         | 332                                    | 0.184 | 27.89  | 5.12   | 1.000 | 0.99989 |
| 4334              | 1                    | 0.72                        | 1                     | 43                            | 302                                    | 0.003 | 43.00  | 0.14   | 1.000 | 0.99999 |
| 4341              | 2                    | 2.45                        | 3                     | 248                           | 1,825                                  | 0.002 | 82.67  | 0.14   | 1.000 | 0.99999 |
| 4342              | 1                    | 0.63                        | 12                    | 462                           | 837                                    | 0.014 | 38.50  | 0.55   | 1.000 | 0.99999 |
| 4343              | 2                    | 2.42                        | 2                     | 145                           | 1,680                                  | 0.001 | 72.50  | 0.09   | 1.000 | 0.99999 |
| 4361              | 3                    | 3.26                        | 7                     | 412                           | 1,660                                  | 0.004 | 58.86  | 0.25   | 1.000 | 0.99999 |
| 4362              | 4                    | 2.90                        | 238                   | 11,879                        | 840                                    | 0.283 | 49.91  | 14.14  | 1.039 | 0.99968 |
| 4363              | 1                    | 1.02                        | 48                    | 2,953                         | 703                                    | 0.068 | 61.52  | 4.20   | 1.000 | 0.99991 |
| 4371              | 2                    | 1.60                        | 25                    | 1,237                         | 1,556                                  | 0.016 | 49.48  | 0.79   | 1.042 | 0.99998 |
| 4372              | 6                    | 7.84                        | 45                    | 3,076                         | 431                                    | 0.104 | 68.36  | 7.14   | 1.216 | 0.99984 |
| 4373              | 1                    | 1.40                        | 24                    | 2,022                         | 769                                    | 0.031 | 84.25  | 2.63   | 1.000 | 0.99994 |
| 4385              | 1                    | 2.13                        | 1,156                 | 148,603                       | 1,156                                  | 1.000 | 128.55 | 128.55 | 1.000 | 0.99712 |
| 4431              | 3                    | 6.18                        | 198                   | 16,607                        | 1,428                                  | 0.139 | 83.87  | 11.63  | 1.010 | 0.99974 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 4513              | 7                    | 16.46                       | 59                    | 8,450                         | 711                                    | 0.083 | 143.22 | 11.88  | 1.000 | 0.99973 |
| 457               | 3                    | 8.27                        | 180                   | 24,133                        | 180                                    | 1.000 | 134.07 | 134.07 | 1.000 | 0.99694 |
| 4692              | 1                    | 1.40                        | 1                     | 84                            | 488                                    | 0.002 | 84.00  | 0.17   | 1.000 | 0.99999 |
| 4693              | 3                    | 7.77                        | 42                    | 13,251                        | 170                                    | 0.247 | 315.50 | 77.95  | 1.000 | 0.99825 |
| 4712              | 1                    | 1.42                        | 1                     | 85                            | 129                                    | 0.008 | 85.00  | 0.66   | 1.000 | 0.99999 |
| 4714              | 1                    | 1.13                        | 1                     | 68                            | 349                                    | 0.003 | 68.00  | 0.19   | 1.000 | 0.99999 |
| 4791              | 6                    | 5.67                        | 29                    | 1,448                         | 627                                    | 0.046 | 49.93  | 2.31   | 1.036 | 0.99995 |
| 4793              | 1                    | 1.45                        | 1                     | 87                            | 777                                    | 0.001 | 87.00  | 0.11   | 1.000 | 0.99999 |
| 5601              | 1                    | 0.52                        | 1                     | 31                            | 1,297                                  | 0.001 | 31.00  | 0.02   | 1.000 | 0.99999 |
| 5602              | 1                    | 1.15                        | 30                    | 2,095                         | 715                                    | 0.042 | 69.83  | 2.93   | 1.000 | 0.99993 |
| 5603              | 3                    | 2.57                        | 172                   | 8,450                         | 1,484                                  | 0.116 | 49.13  | 5.69   | 1.000 | 0.99987 |
| 5901              | 1                    | 0.57                        | 826                   | 28,634                        | 827                                    | 0.999 | 34.67  | 34.62  | 1.000 | 0.99922 |
| 5904              | 1                    | 1.08                        | 34                    | 2,234                         | 1,287                                  | 0.026 | 65.71  | 1.74   | 1.000 | 0.99996 |
| 5905              | 4                    | 6.76                        | 363                   | 21,130                        | 1,941                                  | 0.187 | 58.21  | 10.89  | 1.025 | 0.99976 |
| 6022              | 2                    | 1.64                        | 7                     | 330                           | 568                                    | 0.012 | 47.14  | 0.58   | 1.167 | 0.99999 |
| 6141              | 2                    | 2.40                        | 12                    | 873                           | 651                                    | 0.018 | 72.75  | 1.34   | 1.000 | 0.99997 |
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
| Total:            | 313                  | 435.74                      | 8,700                 | 665,927                       | 174,258                                | 0.050 | 76.54  | 3.82   | 1.000 | 0.99991 |

**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
8/1/2022 to 8/31/2022  
EXCLUDING MAJOR EVENT DAYS

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1050              | 3                    | 2.57                        | 317                   | 9,371                         | 1,768                                  | 0.179 | 29.56  | 5.30   | 1.994 | 0.99988 |
| 1082              | 4                    | 3.58                        | 50                    | 1,880                         | 1,405                                  | 0.036 | 37.60  | 1.34   | 1.000 | 0.99997 |
| 1092              | 4                    | 3.32                        | 4                     | 199                           | 1,024                                  | 0.004 | 49.75  | 0.19   | 1.333 | 0.99999 |
| 1094              | 10                   | 13.98                       | 490                   | 59,487                        | 1,261                                  | 0.389 | 121.40 | 47.17  | 1.109 | 0.99894 |
| 1101              | 2                    | 2.45                        | 15                    | 984                           | 828                                    | 0.018 | 65.60  | 1.19   | 1.000 | 0.99997 |
| 1102              | 2                    | 1.78                        | 256                   | 12,694                        | 1,104                                  | 0.232 | 49.59  | 11.50  | 1.049 | 0.99974 |
| 1103              | 2                    | 1.40                        | 63                    | 2,696                         | 1,012                                  | 0.062 | 42.79  | 2.66   | 1.000 | 0.99994 |
| 1141              | 1                    | 0.85                        | 1                     | 51                            | 914                                    | 0.001 | 51.00  | 0.06   | 1.000 | 0.99999 |
| 1212              | 6                    | 6.17                        | 10                    | 546                           | 344                                    | 0.029 | 54.60  | 1.59   | 1.000 | 0.99996 |
| 1213              | 1                    | 1.73                        | 1                     | 104                           | 578                                    | 0.002 | 104.00 | 0.18   | 1.000 | 0.99999 |
| 1230              | 2                    | 1.62                        | 73                    | 4,911                         | 1,242                                  | 0.059 | 67.27  | 3.95   | 1.014 | 0.99991 |
| 1232              | 3                    | 3.14                        | 3                     | 188                           | 1,218                                  | 0.002 | 62.67  | 0.15   | 1.000 | 0.99999 |
| 1241              | 3                    | 14.11                       | 75                    | 15,021                        | 891                                    | 0.084 | 200.28 | 16.86  | 1.250 | 0.99962 |
| 1242              | 1                    | 3.03                        | 1                     | 182                           | 860                                    | 0.001 | 182.00 | 0.21   | 1.000 | 0.99999 |
| 1243              | 1                    | 0.70                        | 274                   | 11,704                        | 1,250                                  | 0.219 | 42.72  | 9.36   | 1.000 | 0.99979 |
| 1283              | 1                    | 1.97                        | 356                   | 42,328                        | 356                                    | 1.000 | 118.90 | 118.90 | 1.000 | 0.99729 |
| 1284              | 2                    | 1.77                        | 2                     | 106                           | 962                                    | 0.002 | 53.00  | 0.11   | 1.000 | 0.99999 |



| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1311              | 2                    | 5.59                        | 12                    | 2,038                         | 285                                    | 0.042 | 169.83 | 7.15   | 1.000 | 0.99984 |
| 1312              | 8                    | 12.14                       | 53                    | 5,610                         | 982                                    | 0.054 | 105.85 | 5.71   | 1.060 | 0.99987 |
| 1451              | 3                    | 2.11                        | 59                    | 3,045                         | 569                                    | 0.104 | 51.61  | 5.35   | 1.035 | 0.99988 |
| 1452              | 1                    | 2.70                        | 1                     | 162                           | 466                                    | 0.002 | 162.00 | 0.35   | 1.000 | 0.99999 |
| 1454              | 2                    | 3.53                        | 167                   | 25,927                        | 956                                    | 0.175 | 155.25 | 27.12  | 1.006 | 0.99939 |
| 1522              | 1                    | 3.02                        | 1                     | 181                           | 107                                    | 0.009 | 181.00 | 1.69   | 1.000 | 0.99996 |
| 1523              | 3                    | 7.14                        | 10                    | 727                           | 764                                    | 0.013 | 72.70  | 0.95   | 1.000 | 0.99998 |
| 1841              | 1                    | 3.95                        | 1                     | 237                           | 602                                    | 0.002 | 237.00 | 0.39   | 1.000 | 0.99999 |
| 1843              | 5                    | 11.02                       | 28                    | 3,391                         | 1,124                                  | 0.025 | 121.11 | 3.02   | 1.000 | 0.99993 |
| 2092              | 3                    | 5.14                        | 459                   | 77,376                        | 957                                    | 0.480 | 168.58 | 80.85  | 1.048 | 0.99819 |
| 2171              | 2                    | 1.76                        | 5                     | 265                           | 594                                    | 0.008 | 53.00  | 0.45   | 1.000 | 0.99999 |
| 2211              | 4                    | 4.28                        | 53                    | 2,688                         | 742                                    | 0.071 | 50.72  | 3.62   | 1.039 | 0.99992 |
| 2212              | 2                    | 9.30                        | 47                    | 17,844                        | 1,388                                  | 0.034 | 379.66 | 12.86  | 1.022 | 0.99971 |
| 2511              | 2                    | 3.64                        | 2                     | 218                           | 627                                    | 0.003 | 109.00 | 0.35   | 1.000 | 0.99999 |
| 2621              | 4                    | 6.04                        | 10                    | 1,028                         | 1,218                                  | 0.008 | 102.80 | 0.84   | 1.000 | 0.99998 |
| 2921              | 1                    | 4.92                        | 1                     | 295                           | 398                                    | 0.003 | 295.00 | 0.74   | 1.000 | 0.99998 |
| 2951              | 5                    | 7.75                        | 1,799                 | 241,239                       | 1,257                                  | 1.431 | 134.10 | 191.92 | 1.440 | 0.99570 |
| 2961              | 4                    | 11.33                       | 80                    | 19,347                        | 658                                    | 0.122 | 241.84 | 29.40  | 1.013 | 0.99934 |
| 3121              | 3                    | 3.74                        | 7                     | 634                           | 1,160                                  | 0.006 | 90.57  | 0.55   | 1.000 | 0.99999 |
| 3122              | 2                    | 0.87                        | 899                   | 25,332                        | 899                                    | 1.000 | 28.18  | 28.18  | 1.001 | 0.99936 |
| 3181              | 5                    | 7.85                        | 42                    | 4,746                         | 768                                    | 0.055 | 113.00 | 6.18   | 1.024 | 0.99986 |
| 3221              | 2                    | 2.65                        | 2                     | 159                           | 1,290                                  | 0.002 | 79.50  | 0.12   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 3222              | 2                    | 4.07                        | 26                    | 4,106                         | 802                                    | 0.032 | 157.92 | 5.12  | 1.040 | 0.99989 |
| 3301              | 1                    | 1.47                        | 17                    | 1,512                         | 769                                    | 0.022 | 88.94  | 1.97  | 1.000 | 0.99996 |
| 3303              | 2                    | 3.52                        | 7                     | 828                           | 1,632                                  | 0.004 | 118.29 | 0.51  | 1.000 | 0.99999 |
| 3315              | 2                    | 1.79                        | 15                    | 746                           | 1,618                                  | 0.009 | 49.73  | 0.46  | 1.071 | 0.99999 |
| 3422              | 1                    | 0.68                        | 1                     | 41                            | 1,005                                  | 0.001 | 41.00  | 0.04  | 1.000 | 0.99999 |
| 3471              | 2                    | 3.99                        | 19                    | 1,183                         | 498                                    | 0.038 | 62.26  | 2.38  | 1.056 | 0.99995 |
| 3472              | 2                    | 1.32                        | 4                     | 139                           | 1,335                                  | 0.003 | 34.75  | 0.10  | 1.000 | 0.99999 |
| 3551              | 1                    | 0.60                        | 1                     | 36                            | 1,046                                  | 0.001 | 36.00  | 0.03  | 1.000 | 0.99999 |
| 3553              | 2                    | 14.08                       | 7                     | 2,360                         | 881                                    | 0.008 | 337.14 | 2.68  | 1.000 | 0.99994 |
| 3591              | 2                    | 2.15                        | 13                    | 830                           | 1,564                                  | 0.008 | 63.85  | 0.53  | 1.083 | 0.99999 |
| 3592              | 1                    | 2.45                        | 1                     | 147                           | 1,814                                  | 0.001 | 147.00 | 0.08  | 1.000 | 0.99999 |
| 3593              | 3                    | 14.50                       | 25                    | 8,299                         | 950                                    | 0.026 | 331.96 | 8.74  | 1.000 | 0.99980 |
| 3621              | 4                    | 18.68                       | 120                   | 32,312                        | 1,608                                  | 0.075 | 269.27 | 20.09 | 1.034 | 0.99955 |
| 3661              | 5                    | 10.08                       | 283                   | 19,000                        | 1,098                                  | 0.258 | 67.14  | 17.30 | 1.084 | 0.99961 |
| 3662              | 2                    | 4.38                        | 20                    | 2,642                         | 896                                    | 0.022 | 132.10 | 2.95  | 1.111 | 0.99993 |
| 3663              | 2                    | 1.40                        | 2                     | 84                            | 315                                    | 0.006 | 42.00  | 0.27  | 1.000 | 0.99999 |
| 3664              | 2                    | 3.80                        | 32                    | 4,792                         | 583                                    | 0.055 | 149.75 | 8.22  | 1.000 | 0.99982 |
| 3671              | 1                    | 3.43                        | 27                    | 5,563                         | 664                                    | 0.041 | 206.04 | 8.38  | 1.000 | 0.99981 |
| 3673              | 1                    | 1.23                        | 1                     | 74                            | 276                                    | 0.004 | 74.00  | 0.27  | 1.000 | 0.99999 |
| 3692              | 1                    | 1.27                        | 1                     | 76                            | 417                                    | 0.002 | 76.00  | 0.18  | 1.000 | 0.99999 |
| 3693              | 1                    | 2.23                        | 1                     | 134                           | 182                                    | 0.005 | 134.00 | 0.74  | 1.000 | 0.99998 |
| 3701              | 1                    | 0.50                        | 1                     | 30                            | 538                                    | 0.002 | 30.00  | 0.06  | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 3702              | 1                    | 0.97                        | 20                    | 1,167                         | 676                                    | 0.030 | 58.35  | 1.73  | 1.000 | 0.99996 |
| 3751              | 2                    | 3.72                        | 11                    | 1,087                         | 933                                    | 0.012 | 98.82  | 1.17  | 1.000 | 0.99997 |
| 3871              | 1                    | 0.67                        | 1                     | 40                            | 1,094                                  | 0.001 | 40.00  | 0.04  | 1.000 | 0.99999 |
| 3872              | 2                    | 3.29                        | 2                     | 197                           | 1,192                                  | 0.002 | 98.50  | 0.17  | 1.000 | 0.99999 |
| 3873              | 1                    | 0.65                        | 1                     | 39                            | 818                                    | 0.001 | 39.00  | 0.05  | 1.000 | 0.99999 |
| 3874              | 1                    | 0.58                        | 1                     | 35                            | 204                                    | 0.005 | 35.00  | 0.17  | 1.000 | 0.99999 |
| 3878              | 2                    | 5.60                        | 2                     | 336                           | 850                                    | 0.002 | 168.00 | 0.40  | 1.000 | 0.99999 |
| 3891              | 3                    | 2.97                        | 140                   | 9,399                         | 458                                    | 0.306 | 67.14  | 20.52 | 1.037 | 0.99954 |
| 3893              | 6                    | 14.81                       | 38                    | 12,002                        | 1,183                                  | 0.032 | 315.84 | 10.15 | 1.000 | 0.99977 |
| 3894              | 1                    | 2.10                        | 1                     | 126                           | 162                                    | 0.006 | 126.00 | 0.78  | 1.000 | 0.99998 |
| 3901              | 1                    | 4.37                        | 1                     | 262                           | 886                                    | 0.001 | 262.00 | 0.30  | 1.000 | 0.99999 |
| 3903              | 1                    | 1.52                        | 1                     | 91                            | 316                                    | 0.003 | 91.00  | 0.29  | 1.000 | 0.99999 |
| 3951              | 3                    | 2.64                        | 39                    | 1,197                         | 964                                    | 0.040 | 30.69  | 1.24  | 1.054 | 0.99997 |
| 3952              | 3                    | 5.34                        | 431                   | 91,375                        | 1,110                                  | 0.388 | 212.01 | 82.32 | 1.044 | 0.99816 |
| 3981              | 9                    | 15.01                       | 91                    | 8,453                         | 1,574                                  | 0.058 | 92.89  | 5.37  | 1.110 | 0.99988 |
| 3982              | 2                    | 2.32                        | 1,891                 | 184,579                       | 1,891                                  | 1.000 | 97.61  | 97.61 | 1.031 | 0.99777 |
| 3991              | 6                    | 8.52                        | 49                    | 5,171                         | 764                                    | 0.064 | 105.53 | 6.77  | 1.195 | 0.99985 |
| 3992              | 2                    | 3.25                        | 2                     | 195                           | 174                                    | 0.011 | 97.50  | 1.12  | 1.000 | 0.99997 |
| 4031              | 1                    | 1.02                        | 13                    | 793                           | 718                                    | 0.018 | 61.00  | 1.10  | 1.000 | 0.99998 |
| 4091              | 2                    | 3.88                        | 26                    | 4,069                         | 1,209                                  | 0.022 | 156.50 | 3.37  | 1.040 | 0.99992 |
| 4092              | 1                    | 1.85                        | 19                    | 2,122                         | 460                                    | 0.041 | 111.68 | 4.61  | 1.000 | 0.99990 |
| 4102              | 1                    | 1.42                        | 45                    | 3,835                         | 540                                    | 0.083 | 85.22  | 7.10  | 1.000 | 0.99984 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 4134              | 1                    | 3.17                        | 77                    | 14,622                        | 1,283                                  | 0.060 | 189.90 | 11.40  | 1.000 | 0.99974 |
| 4138              | 1                    | 1.08                        | 20                    | 1,313                         | 760                                    | 0.026 | 65.65  | 1.73   | 1.000 | 0.99996 |
| 4141              | 3                    | 4.44                        | 3                     | 267                           | 84                                     | 0.036 | 89.00  | 3.18   | 1.000 | 0.99993 |
| 4142              | 2                    | 4.46                        | 7                     | 1,104                         | 621                                    | 0.011 | 157.71 | 1.78   | 1.167 | 0.99996 |
| 4151              | 1                    | 2.60                        | 65                    | 10,146                        | 174                                    | 0.374 | 156.09 | 58.31  | 1.000 | 0.99869 |
| 4153              | 4                    | 14.00                       | 60                    | 11,823                        | 1,145                                  | 0.052 | 197.05 | 10.33  | 1.017 | 0.99977 |
| 4171              | 1                    | 1.67                        | 1                     | 100                           | 1,198                                  | 0.001 | 100.00 | 0.08   | 1.000 | 0.99999 |
| 4172              | 2                    | 5.99                        | 32                    | 8,425                         | 1,878                                  | 0.017 | 263.28 | 4.49   | 1.000 | 0.99990 |
| 4181              | 2                    | 2.28                        | 2                     | 137                           | 786                                    | 0.003 | 68.50  | 0.17   | 1.000 | 0.99999 |
| 4182              | 2                    | 8.28                        | 4                     | 1,302                         | 780                                    | 0.005 | 325.50 | 1.67   | 1.000 | 0.99996 |
| 4211              | 3                    | 7.19                        | 3                     | 431                           | 756                                    | 0.004 | 143.67 | 0.57   | 1.500 | 0.99999 |
| 4212              | 11                   | 8.40                        | 27                    | 1,460                         | 1,090                                  | 0.025 | 54.07  | 1.34   | 1.125 | 0.99997 |
| 4222              | 2                    | 2.28                        | 1,991                 | 190,819                       | 1,990                                  | 1.001 | 95.84  | 95.89  | 1.001 | 0.99781 |
| 4224              | 5                    | 10.40                       | 146                   | 13,191                        | 778                                    | 0.188 | 90.35  | 16.96  | 1.007 | 0.99962 |
| 4302              | 1                    | 0.82                        | 78                    | 3,840                         | 664                                    | 0.117 | 49.23  | 5.78   | 1.000 | 0.99987 |
| 4303              | 4                    | 12.41                       | 150                   | 23,412                        | 1,346                                  | 0.111 | 156.08 | 17.39  | 1.613 | 0.99961 |
| 4304              | 1                    | 0.83                        | 6                     | 303                           | 246                                    | 0.024 | 50.50  | 1.23   | 1.000 | 0.99997 |
| 4313              | 1                    | 1.35                        | 12                    | 972                           | 558                                    | 0.022 | 81.00  | 1.74   | 1.000 | 0.99996 |
| 4321              | 3                    | 4.21                        | 252                   | 32,487                        | 244                                    | 1.033 | 128.92 | 133.14 | 1.340 | 0.99702 |
| 4342              | 2                    | 1.64                        | 35                    | 1,597                         | 810                                    | 0.043 | 45.63  | 1.97   | 1.296 | 0.99996 |
| 4343              | 1                    | 3.50                        | 4                     | 841                           | 1,686                                  | 0.002 | 210.25 | 0.50   | 1.000 | 0.99999 |
| 4361              | 5                    | 8.16                        | 104                   | 9,613                         | 1,671                                  | 0.062 | 92.43  | 5.75   | 1.030 | 0.99987 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 4362              | 2                    | 2.27                        | 2                     | 136                           | 842                                    | 0.002 | 68.00  | 0.16   | 1.000 | 0.99999 |
| 4363              | 3                    | 3.91                        | 1,436                 | 97,867                        | 1,546                                  | 0.929 | 68.15  | 63.30  | 2.028 | 0.99855 |
| 4364              | 2                    | 1.78                        | 110                   | 4,018                         | 861                                    | 0.128 | 36.53  | 4.67   | 1.009 | 0.99990 |
| 4371              | 4                    | 5.27                        | 1,574                 | 87,968                        | 1,574                                  | 1.000 | 55.89  | 55.89  | 1.005 | 0.99872 |
| 4372              | 3                    | 5.16                        | 869                   | 94,798                        | 432                                    | 2.012 | 109.09 | 219.44 | 2.012 | 0.99508 |
| 4373              | 6                    | 17.21                       | 821                   | 52,993                        | 821                                    | 1.000 | 64.55  | 64.55  | 1.058 | 0.99853 |
| 4385              | 3                    | 2.93                        | 102                   | 6,836                         | 1,157                                  | 0.088 | 67.02  | 5.91   | 1.229 | 0.99987 |
| 4431              | 4                    | 19.63                       | 1,782                 | 639,632                       | 1,782                                  | 1.000 | 358.94 | 358.94 | 1.240 | 0.99181 |
| 4513              | 2                    | 2.11                        | 764                   | 61,868                        | 764                                    | 1.000 | 80.98  | 80.98  | 1.069 | 0.99815 |
| 4601              | 1                    | 1.20                        | 4                     | 289                           | 407                                    | 0.010 | 72.25  | 0.71   | 1.000 | 0.99998 |
| 4602              | 3                    | 6.02                        | 3                     | 361                           | 980                                    | 0.003 | 120.33 | 0.37   | 1.000 | 0.99999 |
| 4692              | 1                    | 1.17                        | 30                    | 2,110                         | 493                                    | 0.061 | 70.33  | 4.28   | 1.000 | 0.99990 |
| 4693              | 1                    | 0.65                        | 40                    | 1,563                         | 172                                    | 0.233 | 39.08  | 9.09   | 1.000 | 0.99980 |
| 4714              | 1                    | 0.58                        | 1                     | 35                            | 352                                    | 0.003 | 35.00  | 0.10   | 1.000 | 0.99999 |
| 4784              | 1                    | 0.40                        | 1                     | 24                            | 402                                    | 0.002 | 24.00  | 0.06   | 1.000 | 0.99999 |
| 4891              | 1                    | 2.15                        | 1                     | 129                           | 596                                    | 0.002 | 129.00 | 0.22   | 1.000 | 0.99999 |
| 5601              | 5                    | 7.43                        | 98                    | 13,815                        | 1,302                                  | 0.075 | 140.97 | 10.61  | 1.010 | 0.99976 |
| 5603              | 11                   | 14.31                       | 41                    | 3,521                         | 1,502                                  | 0.027 | 85.88  | 2.34   | 2.412 | 0.99995 |
| 5902              | 1                    | 0.70                        | 104                   | 4,380                         | 972                                    | 0.107 | 42.12  | 4.51   | 1.000 | 0.99990 |
| 5903              | 1                    | 1.10                        | 9                     | 597                           | 286                                    | 0.031 | 66.33  | 2.09   | 1.000 | 0.99995 |
| 5904              | 2                    | 2.42                        | 35                    | 2,672                         | 1,297                                  | 0.027 | 76.34  | 2.06   | 1.000 | 0.99995 |
| 5905              | 1                    | 1.13                        | 85                    | 5,848                         | 1,946                                  | 0.044 | 68.80  | 3.01   | 1.000 | 0.99993 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 6021              | 3                    | 2.70                        | 61                    | 2,415                         | 1,370                                  | 0.045 | 39.59  | 1.76  | 1.000 | 0.99996 |
| 6024              | 1                    | 1.12                        | 1                     | 67                            | 398                                    | 0.003 | 67.00  | 0.17  | 1.000 | 0.99999 |
| 6143              | 2                    | 2.18                        | 9                     | 789                           | 378                                    | 0.024 | 87.67  | 2.09  | 1.000 | 0.99995 |
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
| Total:            | 329                  | 583.45                      | 20,240                | 2,419,381                     | 170,970                                | 0.118 | 119.53 | 14.15 | 1.157 | 0.99968 |

**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
9/1/2022 to 9/30/2022  
EXCLUDING MAJOR EVENT DAYS

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 1050              | 7                    | 4.79                        | 1,972                 | 96,751                        | 1,774                                  | 1.112 | 49.06  | 54.54 | 1.112 | 0.99874 |
| 1051              | 1                    | 1.68                        | 16                    | 1,621                         | 559                                    | 0.029 | 101.31 | 2.90  | 1.000 | 0.99993 |
| 1082              | 4                    | 4.74                        | 47                    | 3,807                         | 1,416                                  | 0.033 | 81.00  | 2.69  | 1.022 | 0.99994 |
| 1091              | 2                    | 1.95                        | 936                   | 56,219                        | 935                                    | 1.001 | 60.06  | 60.13 | 1.001 | 0.99863 |
| 1092              | 2                    | 10.25                       | 2                     | 615                           | 1,090                                  | 0.002 | 307.50 | 0.56  | 1.000 | 0.99999 |
| 1094              | 3                    | 4.70                        | 73                    | 3,905                         | 1,267                                  | 0.058 | 53.49  | 3.08  | 1.000 | 0.99993 |
| 1101              | 2                    | 3.02                        | 65                    | 6,275                         | 808                                    | 0.080 | 96.54  | 7.77  | 1.000 | 0.99982 |
| 1102              | 4                    | 2.30                        | 79                    | 3,334                         | 1,124                                  | 0.070 | 42.20  | 2.97  | 1.013 | 0.99993 |
| 1103              | 2                    | 2.34                        | 51                    | 4,196                         | 1,016                                  | 0.050 | 82.27  | 4.13  | 1.000 | 0.99990 |
| 1211              | 1                    | 1.40                        | 1                     | 84                            | 1,511                                  | 0.001 | 84.00  | 0.06  | 1.000 | 0.99999 |
| 1212              | 1                    | 0.68                        | 1                     | 41                            | 345                                    | 0.003 | 41.00  | 0.12  | 1.000 | 0.99999 |
| 1213              | 1                    | 1.23                        | 1                     | 74                            | 580                                    | 0.002 | 74.00  | 0.13  | 1.000 | 0.99999 |
| 1230              | 1                    | 1.50                        | 1                     | 90                            | 1,252                                  | 0.001 | 90.00  | 0.07  | 1.000 | 0.99999 |
| 1233              | 2                    | 3.31                        | 345                   | 34,823                        | 652                                    | 0.529 | 100.94 | 53.41 | 1.052 | 0.99876 |
| 1241              | 2                    | 8.55                        | 152                   | 34,052                        | 892                                    | 0.170 | 224.03 | 38.17 | 1.256 | 0.99912 |
| 1243              | 2                    | 2.05                        | 43                    | 2,147                         | 1,252                                  | 0.034 | 49.93  | 1.71  | 1.000 | 0.99996 |
| 1271              | 3                    | 2.52                        | 15                    | 957                           | 999                                    | 0.015 | 63.80  | 0.96  | 1.000 | 0.99998 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 1284              | 1                    | 0.50                        | 1                     | 30                            | 970                                    | 0.001 | 30.00  | 0.03  | 1.000 | 0.99999 |
| 1312              | 2                    | 5.10                        | 2                     | 306                           | 988                                    | 0.002 | 153.00 | 0.31  | 1.000 | 0.99999 |
| 1452              | 2                    | 1.37                        | 2                     | 82                            | 471                                    | 0.004 | 41.00  | 0.17  | 1.000 | 0.99999 |
| 1453              | 4                    | 4.69                        | 222                   | 11,358                        | 1,840                                  | 0.121 | 51.16  | 6.17  | 1.037 | 0.99986 |
| 1454              | 1                    | 1.78                        | 1                     | 107                           | 962                                    | 0.001 | 107.00 | 0.11  | 1.000 | 0.99999 |
| 1455              | 2                    | 4.88                        | 2                     | 293                           | 425                                    | 0.005 | 146.50 | 0.69  | 1.000 | 0.99998 |
| 1523              | 2                    | 2.25                        | 36                    | 2,327                         | 766                                    | 0.047 | 64.64  | 3.04  | 1.029 | 0.99993 |
| 1841              | 1                    | 0.87                        | 1                     | 52                            | 643                                    | 0.002 | 52.00  | 0.08  | 1.000 | 0.99999 |
| 1843              | 2                    | 2.75                        | 2                     | 165                           | 1,128                                  | 0.002 | 82.50  | 0.15  | 1.000 | 0.99999 |
| 2051              | 1                    | 0.72                        | 3                     | 129                           | 211                                    | 0.014 | 43.00  | 0.61  | 1.000 | 0.99999 |
| 2172              | 1                    | 0.73                        | 1                     | 44                            | 253                                    | 0.004 | 44.00  | 0.17  | 1.000 | 0.99999 |
| 2211              | 2                    | 4.84                        | 23                    | 2,189                         | 742                                    | 0.031 | 95.17  | 2.95  | 1.000 | 0.99993 |
| 2212              | 3                    | 3.92                        | 35                    | 2,860                         | 1,391                                  | 0.025 | 81.71  | 2.06  | 1.000 | 0.99995 |
| 2621              | 2                    | 3.46                        | 2                     | 208                           | 1,224                                  | 0.002 | 104.00 | 0.17  | 1.000 | 0.99999 |
| 2921              | 1                    | 0.48                        | 1                     | 29                            | 401                                    | 0.002 | 29.00  | 0.07  | 1.000 | 0.99999 |
| 2951              | 2                    | 1.47                        | 15                    | 1,074                         | 1,258                                  | 0.012 | 71.60  | 0.85  | 1.071 | 0.99998 |
| 2952              | 1                    | 1.45                        | 1                     | 87                            | 383                                    | 0.003 | 87.00  | 0.23  | 1.000 | 0.99999 |
| 2961              | 6                    | 10.43                       | 136                   | 18,719                        | 659                                    | 0.206 | 137.64 | 28.41 | 1.679 | 0.99934 |
| 3121              | 1                    | 1.52                        | 38                    | 3,472                         | 1,163                                  | 0.033 | 91.37  | 2.99  | 1.000 | 0.99993 |
| 3122              | 2                    | 0.73                        | 9                     | 124                           | 898                                    | 0.010 | 13.78  | 0.14  | 1.000 | 0.99999 |
| 3123              | 1                    | 1.72                        | 1                     | 103                           | 1,147                                  | 0.001 | 103.00 | 0.09  | 1.000 | 0.99999 |
| 3181              | 1                    | 1.20                        | 57                    | 4,121                         | 769                                    | 0.074 | 72.30  | 5.36  | 1.000 | 0.99988 |



| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 3221              | 2                    | 1.25                        | 6                     | 278                           | 1,291                                  | 0.005 | 46.33  | 0.22  | 1.200 | 0.99999 |
| 3222              | 3                    | 3.27                        | 62                    | 4,164                         | 803                                    | 0.077 | 67.16  | 5.19  | 1.016 | 0.99988 |
| 3231              | 1                    | 1.22                        | 1                     | 73                            | 224                                    | 0.004 | 73.00  | 0.33  | 1.000 | 0.99999 |
| 3232              | 1                    | 1.50                        | 2                     | 180                           | 452                                    | 0.004 | 90.00  | 0.40  | 1.000 | 0.99999 |
| 3301              | 1                    | 0.35                        | 3                     | 63                            | 766                                    | 0.004 | 21.00  | 0.08  | 1.000 | 0.99999 |
| 3303              | 4                    | 4.11                        | 22                    | 1,263                         | 1,471                                  | 0.015 | 57.41  | 0.86  | 1.000 | 0.99998 |
| 3304              | 1                    | 1.12                        | 4                     | 269                           | 1,180                                  | 0.003 | 67.25  | 0.23  | 1.000 | 0.99999 |
| 3311              | 1                    | 1.55                        | 10                    | 937                           | 555                                    | 0.018 | 93.70  | 1.69  | 1.000 | 0.99996 |
| 3314              | 1                    | 0.63                        | 1                     | 38                            | 229                                    | 0.004 | 38.00  | 0.17  | 1.000 | 0.99999 |
| 3315              | 5                    | 8.37                        | 65                    | 9,169                         | 1,616                                  | 0.040 | 141.06 | 5.67  | 1.032 | 0.99987 |
| 3472              | 3                    | 2.89                        | 15                    | 691                           | 1,343                                  | 0.011 | 46.07  | 0.51  | 1.071 | 0.99999 |
| 3551              | 3                    | 3.45                        | 29                    | 1,001                         | 1,046                                  | 0.028 | 34.52  | 0.96  | 1.000 | 0.99998 |
| 3552              | 2                    | 2.32                        | 2                     | 139                           | 588                                    | 0.003 | 69.50  | 0.24  | 1.000 | 0.99999 |
| 3553              | 3                    | 1.90                        | 100                   | 4,964                         | 884                                    | 0.113 | 49.64  | 5.62  | 1.010 | 0.99987 |
| 3592              | 5                    | 3.86                        | 57                    | 2,633                         | 1,819                                  | 0.031 | 46.19  | 1.45  | 1.000 | 0.99997 |
| 3594              | 2                    | 10.19                       | 41                    | 15,022                        | 791                                    | 0.052 | 366.39 | 18.99 | 1.000 | 0.99956 |
| 3621              | 2                    | 2.70                        | 2                     | 162                           | 1,609                                  | 0.001 | 81.00  | 0.10  | 2.000 | 0.99999 |
| 3661              | 1                    | 0.50                        | 17                    | 525                           | 1,114                                  | 0.015 | 30.88  | 0.47  | 1.000 | 0.99999 |
| 3662              | 2                    | 1.10                        | 2                     | 66                            | 900                                    | 0.002 | 33.00  | 0.07  | 1.000 | 0.99999 |
| 3663              | 3                    | 1.70                        | 17                    | 556                           | 318                                    | 0.053 | 32.71  | 1.75  | 1.133 | 0.99996 |
| 3664              | 1                    | 1.40                        | 1                     | 84                            | 584                                    | 0.002 | 84.00  | 0.14  | 1.000 | 0.99999 |
| 3675              | 2                    | 1.48                        | 7                     | 316                           | 553                                    | 0.013 | 45.14  | 0.57  | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 3701              | 1                    | 1.60                        | 18                    | 1,740                         | 542                                    | 0.033 | 96.67  | 3.21   | 1.000 | 0.99993 |
| 3702              | 3                    | 3.61                        | 37                    | 2,090                         | 680                                    | 0.054 | 56.49  | 3.07   | 1.057 | 0.99993 |
| 3871              | 2                    | 2.01                        | 25                    | 1,979                         | 1,096                                  | 0.023 | 79.16  | 1.81   | 1.000 | 0.99996 |
| 3872              | 2                    | 2.57                        | 89                    | 6,470                         | 1,205                                  | 0.074 | 72.70  | 5.37   | 1.171 | 0.99988 |
| 3878              | 1                    | 0.52                        | 25                    | 784                           | 852                                    | 0.029 | 31.36  | 0.92   | 1.000 | 0.99998 |
| 3891              | 3                    | 3.30                        | 7                     | 418                           | 464                                    | 0.015 | 59.71  | 0.90   | 1.400 | 0.99998 |
| 3893              | 5                    | 4.46                        | 58                    | 2,630                         | 1,195                                  | 0.049 | 45.34  | 2.20   | 1.036 | 0.99995 |
| 3902              | 1                    | 1.53                        | 10                    | 920                           | 99                                     | 0.101 | 92.00  | 9.29   | 1.000 | 0.99978 |
| 3951              | 3                    | 7.91                        | 6                     | 778                           | 966                                    | 0.006 | 129.67 | 0.81   | 1.000 | 0.99998 |
| 3952              | 5                    | 5.33                        | 982                   | 42,389                        | 910                                    | 1.079 | 43.17  | 46.58  | 1.079 | 0.99892 |
| 3953              | 2                    | 1.40                        | 12                    | 678                           | 544                                    | 0.022 | 56.50  | 1.25   | 1.000 | 0.99997 |
| 3971              | 1                    | 11.68                       | 2                     | 1,403                         | 699                                    | 0.003 | 701.50 | 2.01   | 1.000 | 0.99995 |
| 3981              | 1                    | 2.58                        | 5                     | 776                           | 1,581                                  | 0.003 | 155.20 | 0.49   | 1.000 | 0.99999 |
| 3982              | 1                    | 0.73                        | 37                    | 1,606                         | 1,834                                  | 0.020 | 43.41  | 0.88   | 1.000 | 0.99998 |
| 4031              | 2                    | 6.97                        | 21                    | 5,800                         | 723                                    | 0.029 | 276.19 | 8.02   | 1.000 | 0.99981 |
| 4091              | 1                    | 1.68                        | 80                    | 8,090                         | 1,212                                  | 0.066 | 101.13 | 6.67   | 1.000 | 0.99985 |
| 4101              | 2                    | 4.84                        | 14                    | 1,860                         | 989                                    | 0.014 | 132.86 | 1.88   | 1.077 | 0.99996 |
| 4132              | 1                    | 3.88                        | 2                     | 466                           | 574                                    | 0.003 | 233.00 | 0.81   | 1.000 | 0.99998 |
| 4137              | 2                    | 3.88                        | 36                    | 5,536                         | 820                                    | 0.044 | 153.78 | 6.75   | 1.029 | 0.99984 |
| 4138              | 4                    | 6.06                        | 38                    | 1,443                         | 760                                    | 0.050 | 37.97  | 1.90   | 1.000 | 0.99996 |
| 4152              | 2                    | 8.69                        | 1,346                 | 233,766                       | 1,298                                  | 1.037 | 173.67 | 180.10 | 1.037 | 0.99583 |
| 4153              | 1                    | 1.13                        | 22                    | 1,504                         | 1,157                                  | 0.019 | 68.36  | 1.30   | 1.000 | 0.99997 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 4155              | 1                    | 1.25                        | 1                     | 75                            | 1,725                                  | 0.001 | 75.00  | 0.04  | 1.000 | 0.99999 |
| 4171              | 1                    | 1.63                        | 1                     | 98                            | 1,210                                  | 0.001 | 98.00  | 0.08  | 1.000 | 0.99999 |
| 4173              | 3                    | 1.45                        | 51                    | 1,926                         | 694                                    | 0.073 | 37.76  | 2.78  | 1.020 | 0.99994 |
| 4182              | 1                    | 5.37                        | 12                    | 3,868                         | 781                                    | 0.015 | 322.33 | 4.95  | 1.000 | 0.99989 |
| 4212              | 3                    | 3.93                        | 9                     | 932                           | 1,096                                  | 0.008 | 103.56 | 0.85  | 1.000 | 0.99998 |
| 4222              | 3                    | 3.56                        | 42                    | 2,525                         | 1,083                                  | 0.039 | 60.12  | 2.33  | 1.000 | 0.99995 |
| 4224              | 2                    | 5.15                        | 19                    | 3,009                         | 785                                    | 0.024 | 158.37 | 3.83  | 1.000 | 0.99991 |
| 4302              | 1                    | 0.62                        | 64                    | 2,371                         | 667                                    | 0.096 | 37.05  | 3.55  | 1.000 | 0.99992 |
| 4342              | 1                    | 1.35                        | 23                    | 1,879                         | 782                                    | 0.029 | 81.70  | 2.40  | 1.000 | 0.99994 |
| 4361              | 4                    | 4.28                        | 35                    | 2,498                         | 1,682                                  | 0.021 | 71.37  | 1.49  | 1.029 | 0.99997 |
| 4362              | 3                    | 2.79                        | 33                    | 3,744                         | 844                                    | 0.039 | 113.45 | 4.44  | 1.031 | 0.99990 |
| 4363              | 3                    | 6.83                        | 22                    | 967                           | 708                                    | 0.031 | 43.95  | 1.37  | 1.100 | 0.99997 |
| 4364              | 5                    | 3.26                        | 12                    | 567                           | 864                                    | 0.014 | 47.25  | 0.66  | 1.000 | 0.99998 |
| 4371              | 1                    | 0.98                        | 17                    | 1,003                         | 1,566                                  | 0.011 | 59.00  | 0.64  | 1.000 | 0.99999 |
| 4372              | 1                    | 1.80                        | 1                     | 108                           | 432                                    | 0.002 | 108.00 | 0.25  | 1.000 | 0.99999 |
| 4373              | 1                    | 1.95                        | 1                     | 117                           | 776                                    | 0.001 | 117.00 | 0.15  | 1.000 | 0.99999 |
| 4385              | 2                    | 1.84                        | 43                    | 2,522                         | 1,158                                  | 0.037 | 58.65  | 2.18  | 1.000 | 0.99995 |
| 4431              | 6                    | 6.50                        | 70                    | 4,312                         | 1,437                                  | 0.049 | 61.60  | 3.00  | 1.061 | 0.99993 |
| 4432              | 2                    | 4.38                        | 8                     | 913                           | 486                                    | 0.016 | 114.13 | 1.88  | 1.143 | 0.99996 |
| 4512              | 2                    | 6.55                        | 30                    | 5,266                         | 1,152                                  | 0.026 | 175.53 | 4.57  | 1.000 | 0.99989 |
| 4602              | 1                    | 1.07                        | 41                    | 2,639                         | 981                                    | 0.042 | 64.37  | 2.69  | 1.000 | 0.99994 |
| 4692              | 1                    | 2.32                        | 2                     | 278                           | 498                                    | 0.004 | 139.00 | 0.56  | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 4693              | 3                    | 2.97                        | 1,009                 | 59,198                        | 1000                                   | 1.009 | 58.67  | 59.198 | 1.009 | 0.99865 |
| 4714              | 1                    | 1.25                        | 356                   | 26,794                        | 356                                    | 1.000 | 75.26  | 75.26  | 1.000 | 0.99826 |
| 4783              | 1                    | 2.23                        | 1                     | 134                           | 257                                    | 0.004 | 134.00 | 0.52   | 1.000 | 0.99999 |
| 4791              | 5                    | 15.37                       | 187                   | 11,982                        | 631                                    | 0.296 | 64.07  | 18.99  | 1.039 | 0.99956 |
| 4793              | 2                    | 1.55                        | 2                     | 93                            | 787                                    | 0.003 | 46.50  | 0.12   | 1.000 | 0.99999 |
| 4901              | 3                    | 2.31                        | 68                    | 2,509                         | 66                                     | 1.030 | 36.90  | 38.02  | 1.030 | 0.99913 |
| 5601              | 2                    | 2.47                        | 6                     | 512                           | 1,307                                  | 0.005 | 85.33  | 0.39   | 1.000 | 0.99999 |
| 5602              | 1                    | 1.50                        | 19                    | 1,712                         | 719                                    | 0.026 | 90.11  | 2.38   | 1.000 | 0.99994 |
| 5603              | 6                    | 3.43                        | 58                    | 3,702                         | 1,519                                  | 0.038 | 63.83  | 2.44   | 1.094 | 0.99994 |
| 5902              | 1                    | 1.25                        | 80                    | 6,001                         | 977                                    | 0.082 | 75.01  | 6.14   | 1.000 | 0.99986 |
| 5905              | 4                    | 3.71                        | 79                    | 4,381                         | 1,950                                  | 0.041 | 55.46  | 2.25   | 1.013 | 0.99995 |
| 6023              | 1                    | 0.55                        | 1                     | 33                            | 131                                    | 0.008 | 33.00  | 0.25   | 1.000 | 0.99999 |
| 6141              | 1                    | 1.57                        | 9                     | 847                           | 653                                    | 0.014 | 94.11  | 1.30   | 1.000 | 0.99997 |
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
| Total:            | 255                  | 366.11                      | 10,141                | 822,104                       | 176,161                                | 0.058 | 81.07  | 4.67   | 1.052 | 0.99989 |

**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
10/1/2022 to 10/31/2022  
EXCLUDING MAJOR EVENT DAYS

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 1050              | 2                    | 1.38                        | 74                    | 3,037                         | 1,774                                  | 0.042 | 41.04  | 1.71  | 1.000 | 0.99996 |
| 1051              | 1                    | 1.35                        | 7                     | 568                           | 559                                    | 0.013 | 81.14  | 1.02  | 1.000 | 0.99998 |
| 1052              | 1                    | 0.72                        | 83                    | 3,611                         | 1,208                                  | 0.069 | 43.51  | 2.99  | 1.000 | 0.99993 |
| 1082              | 5                    | 5.00                        | 5                     | 300                           | 1,416                                  | 0.004 | 60.00  | 0.21  | 1.000 | 0.99999 |
| 1091              | 7                    | 6.49                        | 1,087                 | 62,061                        | 935                                    | 1.163 | 57.09  | 66.38 | 1.163 | 0.99848 |
| 1092              | 1                    | 1.68                        | 1                     | 101                           | 1,090                                  | 0.001 | 101.00 | 0.09  | 1.000 | 0.99999 |
| 1094              | 14                   | 8.96                        | 834                   | 33,245                        | 1,267                                  | 0.658 | 39.86  | 26.24 | 1.060 | 0.99941 |
| 1101              | 2                    | 2.02                        | 71                    | 4,161                         | 808                                    | 0.088 | 58.61  | 5.15  | 1.000 | 0.99988 |
| 1102              | 4                    | 6.91                        | 139                   | 6,649                         | 1,124                                  | 0.124 | 47.83  | 5.92  | 1.007 | 0.99987 |
| 1142              | 1                    | 0.55                        | 1                     | 33                            | 158                                    | 0.006 | 33.00  | 0.21  | 1.000 | 0.99999 |
| 1212              | 1                    | 0.53                        | 1                     | 32                            | 345                                    | 0.003 | 32.00  | 0.09  | 1.000 | 0.99999 |
| 1230              | 5                    | 3.23                        | 95                    | 3,377                         | 1,252                                  | 0.076 | 35.55  | 2.70  | 1.011 | 0.99994 |
| 1233              | 3                    | 3.81                        | 61                    | 5,159                         | 652                                    | 0.094 | 84.57  | 7.91  | 1.000 | 0.99982 |
| 1241              | 1                    | 0.98                        | 1                     | 59                            | 892                                    | 0.001 | 59.00  | 0.07  | 1.000 | 0.99999 |
| 1242              | 1                    | 2.92                        | 1                     | 175                           | 861                                    | 0.001 | 175.00 | 0.20  | 1.000 | 0.99999 |
| 1243              | 1                    | 0.60                        | 2                     | 72                            | 1,252                                  | 0.002 | 36.00  | 0.06  | 1.000 | 0.99999 |
| 1282              | 1                    | 1.33                        | 171                   | 13,731                        | 706                                    | 0.242 | 80.30  | 19.45 | 1.000 | 0.99956 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 1284              | 1                    | 1.93                        | 820                   | 95,652                        | 970                                    | 0.845 | 116.65 | 98.61  | 1.000 | 0.99779 |
| 1285              | 2                    | 2.68                        | 15                    | 1,024                         | 1,134                                  | 0.013 | 68.27  | 0.90   | 1.000 | 0.99998 |
| 1311              | 1                    | 2.93                        | 286                   | 50,397                        | 286                                    | 1.000 | 176.21 | 176.21 | 1.000 | 0.99605 |
| 1451              | 2                    | 1.75                        | 614                   | 55,061                        | 582                                    | 1.055 | 89.68  | 94.61  | 1.055 | 0.99788 |
| 1452              | 2                    | 1.73                        | 2                     | 104                           | 471                                    | 0.004 | 52.00  | 0.22   | 1.000 | 0.99999 |
| 1453              | 2                    | 1.35                        | 19                    | 835                           | 1,840                                  | 0.010 | 43.95  | 0.45   | 1.056 | 0.99999 |
| 1523              | 2                    | 2.47                        | 76                    | 7,280                         | 766                                    | 0.099 | 95.79  | 9.50   | 1.027 | 0.99979 |
| 1841              | 2                    | 1.80                        | 2                     | 108                           | 643                                    | 0.003 | 54.00  | 0.17   | 1.000 | 0.99999 |
| 1843              | 1                    | 1.17                        | 1                     | 70                            | 1,128                                  | 0.001 | 70.00  | 0.06   | 1.000 | 0.99999 |
| 2051              | 1                    | 0.98                        | 1                     | 59                            | 211                                    | 0.005 | 59.00  | 0.28   | 1.000 | 0.99999 |
| 2052              | 2                    | 2.95                        | 2                     | 177                           | 86                                     | 0.023 | 88.50  | 2.06   | 1.000 | 0.99995 |
| 2091              | 2                    | 1.83                        | 520                   | 20,268                        | 935                                    | 0.556 | 38.98  | 21.68  | 1.040 | 0.99951 |
| 2092              | 2                    | 2.95                        | 60                    | 5,338                         | 961                                    | 0.062 | 88.97  | 5.55   | 1.000 | 0.99988 |
| 2211              | 1                    | 0.58                        | 47                    | 1,682                         | 742                                    | 0.063 | 35.79  | 2.27   | 1.000 | 0.99995 |
| 2212              | 1                    | 0.93                        | 46                    | 2,587                         | 1,391                                  | 0.033 | 56.24  | 1.86   | 1.000 | 0.99996 |
| 2511              | 2                    | 2.85                        | 6                     | 378                           | 628                                    | 0.010 | 63.00  | 0.60   | 1.000 | 0.99999 |
| 2621              | 4                    | 7.64                        | 17                    | 1,238                         | 1,224                                  | 0.014 | 72.82  | 1.01   | 1.063 | 0.99998 |
| 2841              | 1                    | 1.03                        | 1                     | 62                            | 196                                    | 0.005 | 62.00  | 0.32   | 1.000 | 0.99999 |
| 2842              | 1                    | 0.83                        | 1                     | 50                            | 185                                    | 0.005 | 50.00  | 0.27   | 1.000 | 0.99999 |
| 2843              | 1                    | 0.37                        | 1                     | 22                            | 176                                    | 0.006 | 22.00  | 0.13   | 1.000 | 0.99999 |
| 2921              | 3                    | 3.77                        | 3                     | 226                           | 401                                    | 0.007 | 75.33  | 0.56   | 1.000 | 0.99999 |
| 2951              | 7                    | 10.06                       | 71                    | 5,466                         | 1,258                                  | 0.056 | 76.99  | 4.34   | 1.029 | 0.99990 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 3041              | 1                    | 1.70                        | 1                     | 102                           | 87                                     | 0.011 | 102.00 | 1.17   | 1.000 | 0.99997 |
| 3121              | 3                    | 2.95                        | 22                    | 1,472                         | 1,163                                  | 0.019 | 66.91  | 1.27   | 1.048 | 0.99997 |
| 3122              | 3                    | 10.92                       | 899                   | 171,260                       | 505                                    | 1.780 | 190.50 | 339.13 | 1.780 | 0.99226 |
| 3123              | 2                    | 3.02                        | 8                     | 909                           | 1,147                                  | 0.007 | 113.63 | 0.79   | 1.000 | 0.99998 |
| 3181              | 2                    | 2.98                        | 2                     | 179                           | 769                                    | 0.003 | 89.50  | 0.23   | 1.000 | 0.99999 |
| 3221              | 3                    | 2.20                        | 28                    | 1,027                         | 1,291                                  | 0.022 | 36.68  | 0.80   | 1.000 | 0.99998 |
| 3222              | 6                    | 5.56                        | 760                   | 39,641                        | 803                                    | 0.946 | 52.16  | 49.37  | 2.934 | 0.99889 |
| 3303              | 3                    | 3.93                        | 9                     | 523                           | 1,471                                  | 0.006 | 58.11  | 0.36   | 1.000 | 0.99999 |
| 3304              | 2                    | 1.78                        | 99                    | 6,457                         | 1,180                                  | 0.084 | 65.22  | 5.47   | 1.000 | 0.99988 |
| 3311              | 1                    | 0.93                        | 1                     | 56                            | 555                                    | 0.002 | 56.00  | 0.10   | 1.000 | 0.99999 |
| 3314              | 2                    | 5.37                        | 3                     | 492                           | 229                                    | 0.013 | 164.00 | 2.15   | 1.000 | 0.99995 |
| 3315              | 4                    | 7.91                        | 36                    | 7,049                         | 1,616                                  | 0.022 | 195.81 | 4.36   | 1.059 | 0.99990 |
| 3421              | 1                    | 1.05                        | 16                    | 1,008                         | 308                                    | 0.052 | 63.00  | 3.27   | 1.000 | 0.99993 |
| 3422              | 5                    | 9.31                        | 149                   | 13,413                        | 1,008                                  | 0.148 | 90.02  | 13.31  | 1.007 | 0.99970 |
| 3471              | 3                    | 3.20                        | 5                     | 237                           | 501                                    | 0.010 | 47.40  | 0.47   | 1.250 | 0.99999 |
| 3472              | 5                    | 5.43                        | 88                    | 4,574                         | 1,343                                  | 0.066 | 51.98  | 3.41   | 1.011 | 0.99992 |
| 3552              | 1                    | 8.42                        | 10                    | 5,052                         | 588                                    | 0.017 | 505.20 | 8.59   | 1.000 | 0.99981 |
| 3553              | 2                    | 2.08                        | 47                    | 3,113                         | 884                                    | 0.053 | 66.23  | 3.52   | 1.000 | 0.99992 |
| 3591              | 5                    | 6.88                        | 60                    | 5,176                         | 1,569                                  | 0.038 | 86.27  | 3.30   | 1.017 | 0.99993 |
| 3592              | 6                    | 8.11                        | 83                    | 5,373                         | 1,819                                  | 0.046 | 64.73  | 2.95   | 1.000 | 0.99993 |
| 3593              | 3                    | 0.87                        | 19                    | 448                           | 950                                    | 0.020 | 23.58  | 0.47   | 1.118 | 0.99999 |
| 3662              | 3                    | 1.33                        | 35                    | 870                           | 900                                    | 0.039 | 24.86  | 0.97   | 1.000 | 0.99998 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 3663              | 1                    | 1.22                        | 3                     | 221                           | 318                                    | 0.009 | 73.67  | 0.69   | 1.000 | 0.99998 |
| 3671              | 2                    | 0.85                        | 29                    | 713                           | 669                                    | 0.043 | 24.59  | 1.07   | 1.036 | 0.99998 |
| 3691              | 1                    | 0.28                        | 12                    | 215                           | 385                                    | 0.031 | 17.92  | 0.56   | 1.000 | 0.99999 |
| 3692              | 5                    | 12.63                       | 419                   | 74,551                        | 417                                    | 1.005 | 177.93 | 178.78 | 1.005 | 0.99600 |
| 3693              | 1                    | 1.47                        | 2                     | 176                           | 182                                    | 0.011 | 88.00  | 0.97   | 1.000 | 0.99998 |
| 3694              | 1                    | 0.82                        | 54                    | 2,658                         | 529                                    | 0.102 | 49.22  | 5.02   | 1.000 | 0.99989 |
| 3701              | 6                    | 2.00                        | 20                    | 715                           | 542                                    | 0.037 | 35.75  | 1.32   | 1.000 | 0.99997 |
| 3702              | 8                    | 2.44                        | 8                     | 146                           | 680                                    | 0.012 | 18.25  | 0.21   | 1.000 | 0.99999 |
| 3751              | 1                    | 0.80                        | 1                     | 48                            | 937                                    | 0.001 | 48.00  | 0.05   | 1.000 | 0.99999 |
| 3871              | 1                    | 1.15                        | 1                     | 69                            | 1,096                                  | 0.001 | 69.00  | 0.06   | 1.000 | 0.99999 |
| 3872              | 1                    | 0.95                        | 76                    | 4,392                         | 1,205                                  | 0.063 | 57.79  | 3.64   | 1.000 | 0.99992 |
| 3873              | 2                    | 2.21                        | 62                    | 4,157                         | 820                                    | 0.076 | 67.05  | 5.07   | 1.000 | 0.99989 |
| 3878              | 3                    | 3.31                        | 55                    | 3,757                         | 852                                    | 0.065 | 68.31  | 4.41   | 1.019 | 0.99990 |
| 3893              | 7                    | 11.96                       | 31                    | 2,305                         | 1,195                                  | 0.026 | 74.35  | 1.93   | 1.192 | 0.99996 |
| 3901              | 1                    | 1.62                        | 1                     | 97                            | 887                                    | 0.001 | 97.00  | 0.11   | 1.000 | 0.99999 |
| 3903              | 1                    | 1.15                        | 1                     | 69                            | 316                                    | 0.003 | 69.00  | 0.22   | 1.000 | 0.99999 |
| 3951              | 5                    | 11.22                       | 13                    | 1,428                         | 966                                    | 0.013 | 109.85 | 1.48   | 1.000 | 0.99997 |
| 3952              | 9                    | 8.25                        | 1,050                 | 44,808                        | 910                                    | 1.154 | 42.67  | 49.24  | 1.154 | 0.99890 |
| 3953              | 3                    | 2.68                        | 21                    | 1,363                         | 544                                    | 0.039 | 64.90  | 2.51   | 1.000 | 0.99994 |
| 3971              | 2                    | 1.88                        | 82                    | 6,519                         | 699                                    | 0.117 | 79.50  | 9.33   | 1.012 | 0.99979 |
| 3981              | 6                    | 8.43                        | 1,624                 | 71,662                        | 1,581                                  | 1.027 | 44.13  | 45.33  | 1.027 | 0.99898 |
| 3982              | 4                    | 3.54                        | 129                   | 5,418                         | 1,834                                  | 0.070 | 42.00  | 2.95   | 1.000 | 0.99993 |



| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 3991              | 3                    | 3.65                        | 54                    | 2,535                         | 766                                    | 0.070 | 46.94  | 3.31   | 1.000 | 0.99993 |
| 4031              | 2                    | 1.36                        | 18                    | 655                           | 723                                    | 0.025 | 36.39  | 0.91   | 1.000 | 0.99998 |
| 4091              | 1                    | 1.97                        | 80                    | 9,441                         | 1,212                                  | 0.066 | 118.01 | 7.79   | 1.000 | 0.99983 |
| 4101              | 7                    | 5.81                        | 1,007                 | 51,600                        | 989                                    | 1.018 | 51.24  | 52.17  | 1.018 | 0.99883 |
| 4133              | 1                    | 1.13                        | 1                     | 68                            | 284                                    | 0.004 | 68.00  | 0.24   | 1.000 | 0.99999 |
| 4134              | 1                    | 2.25                        | 1                     | 135                           | 1,288                                  | 0.001 | 135.00 | 0.10   | 1.000 | 0.99999 |
| 4137              | 2                    | 6.52                        | 2                     | 391                           | 820                                    | 0.002 | 195.50 | 0.48   | 1.000 | 0.99999 |
| 4138              | 3                    | 9.06                        | 19                    | 4,621                         | 760                                    | 0.025 | 243.21 | 6.08   | 1.000 | 0.99986 |
| 4141              | 1                    | 7.40                        | 38                    | 16,877                        | 84                                     | 0.452 | 444.13 | 200.92 | 1.000 | 0.99550 |
| 4142              | 1                    | 1.93                        | 49                    | 5,695                         | 621                                    | 0.079 | 116.22 | 9.17   | 1.000 | 0.99979 |
| 4151              | 2                    | 3.07                        | 12                    | 1,119                         | 174                                    | 0.069 | 93.25  | 6.43   | 1.091 | 0.99986 |
| 4152              | 2                    | 5.27                        | 5                     | 957                           | 1,298                                  | 0.004 | 191.40 | 0.74   | 1.000 | 0.99998 |
| 4153              | 3                    | 3.68                        | 45                    | 3,710                         | 1,157                                  | 0.039 | 82.44  | 3.21   | 2.045 | 0.99993 |
| 4154              | 2                    | 5.63                        | 11                    | 2,367                         | 1,385                                  | 0.008 | 215.18 | 1.71   | 1.000 | 0.99996 |
| 4171              | 2                    | 1.36                        | 10                    | 412                           | 1,210                                  | 0.008 | 41.20  | 0.34   | 1.000 | 0.99999 |
| 4172              | 1                    | 4.70                        | 1                     | 282                           | 1,901                                  | 0.001 | 282.00 | 0.15   | 1.000 | 0.99999 |
| 4173              | 1                    | 2.75                        | 27                    | 4,479                         | 694                                    | 0.039 | 165.89 | 6.45   | 1.000 | 0.99986 |
| 4181              | 3                    | 4.54                        | 30                    | 3,167                         | 790                                    | 0.038 | 105.57 | 4.01   | 1.000 | 0.99991 |
| 4182              | 2                    | 3.01                        | 29                    | 2,712                         | 781                                    | 0.037 | 93.52  | 3.47   | 1.000 | 0.99992 |
| 4211              | 1                    | 0.53                        | 1                     | 32                            | 794                                    | 0.001 | 32.00  | 0.04   | 1.000 | 0.99999 |
| 4212              | 6                    | 7.81                        | 36                    | 1,750                         | 1,096                                  | 0.033 | 48.61  | 1.60   | 1.059 | 0.99996 |
| 4222              | 4                    | 3.26                        | 217                   | 9,908                         | 1,083                                  | 0.200 | 45.66  | 9.15   | 1.005 | 0.99980 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 4223              | 1                    | 3.50                        | 1                     | 210                           | 1,138                                  | 0.001 | 210.00 | 0.18  | 1.000 | 0.99999 |
| 4302              | 1                    | 0.85                        | 64                    | 3,292                         | 667                                    | 0.096 | 51.44  | 4.94  | 1.000 | 0.99989 |
| 4303              | 3                    | 8.91                        | 122                   | 27,939                        | 1,387                                  | 0.088 | 229.01 | 20.14 | 1.008 | 0.99955 |
| 4313              | 1                    | 1.28                        | 1                     | 77                            | 559                                    | 0.002 | 77.00  | 0.14  | 1.000 | 0.99999 |
| 4332              | 2                    | 4.10                        | 26                    | 4,576                         | 367                                    | 0.071 | 176.00 | 12.47 | 1.040 | 0.99972 |
| 4333              | 1                    | 0.97                        | 1                     | 58                            | 732                                    | 0.001 | 58.00  | 0.08  | 1.000 | 0.99999 |
| 4343              | 1                    | 0.93                        | 3                     | 170                           | 1,692                                  | 0.002 | 56.67  | 0.10  | 1.000 | 0.99999 |
| 4344              | 1                    | 0.88                        | 30                    | 1,588                         | 369                                    | 0.081 | 52.93  | 4.30  | 1.000 | 0.99990 |
| 4361              | 2                    | 1.70                        | 23                    | 1,354                         | 1,682                                  | 0.014 | 58.87  | 0.80  | 1.000 | 0.99998 |
| 4362              | 2                    | 1.68                        | 48                    | 2,450                         | 844                                    | 0.057 | 51.04  | 2.90  | 1.000 | 0.99993 |
| 4363              | 1                    | 1.18                        | 20                    | 1,439                         | 708                                    | 0.028 | 71.95  | 2.03  | 1.000 | 0.99995 |
| 4364              | 4                    | 2.40                        | 41                    | 1,873                         | 864                                    | 0.047 | 45.68  | 2.17  | 1.025 | 0.99995 |
| 4371              | 2                    | 2.98                        | 46                    | 3,812                         | 1,566                                  | 0.029 | 82.87  | 2.43  | 1.000 | 0.99995 |
| 4372              | 3                    | 5.26                        | 9                     | 747                           | 432                                    | 0.021 | 83.00  | 1.73  | 1.125 | 0.99996 |
| 4373              | 2                    | 2.05                        | 55                    | 3,571                         | 776                                    | 0.071 | 64.93  | 4.60  | 1.100 | 0.99990 |
| 4383              | 1                    | 0.15                        | 122                   | 1,147                         | 148                                    | 0.824 | 9.40   | 7.75  | 1.000 | 0.99983 |
| 4385              | 1                    | 1.40                        | 1                     | 84                            | 1,158                                  | 0.001 | 84.00  | 0.07  | 1.000 | 0.99999 |
| 4431              | 4                    | 6.52                        | 55                    | 1,863                         | 1,437                                  | 0.038 | 33.87  | 1.30  | 1.038 | 0.99997 |
| 4432              | 5                    | 4.30                        | 288                   | 35,256                        | 486                                    | 0.593 | 122.42 | 72.54 | 4.881 | 0.99837 |
| 4511              | 2                    | 6.24                        | 74                    | 14,903                        | 1,147                                  | 0.065 | 201.39 | 12.99 | 1.370 | 0.99971 |
| 4601              | 14                   | 6.65                        | 54                    | 1,171                         | 408                                    | 0.132 | 21.69  | 2.87  | 1.038 | 0.99994 |
| 4602              | 3                    | 2.75                        | 8                     | 460                           | 981                                    | 0.008 | 57.50  | 0.47  | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 4692              | 1                    | 1.37                        | 8                     | 662                           | 498                                    | 0.016 | 82.75  | 1.33  | 1.000 | 0.99997 |
| 4693              | 3                    | 7.37                        | 55                    | 9,059                         | 173                                    | 0.318 | 164.71 | 52.36 | 1.000 | 0.99883 |
| 4791              | 3                    | 3.17                        | 17                    | 1,053                         | 631                                    | 0.027 | 61.94  | 1.67  | 1.133 | 0.99996 |
| 4793              | 1                    | 0.90                        | 61                    | 3,298                         | 787                                    | 0.078 | 54.07  | 4.19  | 1.000 | 0.99991 |
| 4794              | 8                    | 3.81                        | 30                    | 790                           | 398                                    | 0.075 | 26.33  | 1.98  | 1.111 | 0.99996 |
| 4891              | 1                    | 1.80                        | 1                     | 108                           | 598                                    | 0.002 | 108.00 | 0.18  | 1.000 | 0.99999 |
| 4903              | 1                    | 0.58                        | 1                     | 35                            | 165                                    | 0.006 | 35.00  | 0.21  | 1.000 | 0.99999 |
| 4905              | 2                    | 1.05                        | 45                    | 1,405                         | 410                                    | 0.110 | 31.22  | 3.43  | 1.000 | 0.99992 |
| 4906              | 2                    | 1.05                        | 124                   | 3,985                         | 1,316                                  | 0.094 | 32.14  | 3.03  | 1.033 | 0.99993 |
| 5601              | 4                    | 5.24                        | 212                   | 16,076                        | 1,307                                  | 0.162 | 75.83  | 12.30 | 1.010 | 0.99972 |
| 5603              | 2                    | 4.48                        | 51                    | 2,082                         | 1,519                                  | 0.034 | 40.82  | 1.37  | 1.000 | 0.99997 |
| 5901              | 2                    | 1.17                        | 56                    | 2,541                         | 895                                    | 0.063 | 45.38  | 2.84  | 1.018 | 0.99994 |
| 5902              | 1                    | 0.52                        | 31                    | 985                           | 977                                    | 0.032 | 31.77  | 1.01  | 1.000 | 0.99998 |
| 5904              | 1                    | 0.75                        | 223                   | 10,161                        | 1,307                                  | 0.171 | 45.57  | 7.77  | 1.000 | 0.99983 |
| 5905              | 1                    | 1.38                        | 1                     | 83                            | 1,950                                  | 0.001 | 83.00  | 0.04  | 1.000 | 0.99999 |
| 6021              | 4                    | 3.52                        | 22                    | 1,100                         | 1,376                                  | 0.016 | 50.00  | 0.80  | 1.100 | 0.99998 |
| 6022              | 2                    | 2.62                        | 25                    | 1,219                         | 572                                    | 0.044 | 48.76  | 2.13  | 1.000 | 0.99995 |
| 6141              | 2                    | 4.17                        | 2                     | 250                           | 653                                    | 0.003 | 125.00 | 0.38  | 1.000 | 0.99999 |
| 8001              | 1                    | 1.03                        | 1                     | 62                            | 5                                      | 0.200 | 62.00  | 12.40 | 1.000 | 0.99972 |
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
| Total:            | 381                  | 479.18                      | 15,070                | 1,164,280                     | 176,161                                | 0.086 | 77.26  | 6.61  | 1.157 | 0.99985 |

**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
11/1/2022 to 11/30/2022  
EXCLUDING MAJOR EVENT DAYS

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 1082              | 1                    | 1.25                        | 1                     | 75                            | 1,418                                  | 0.001 | 75.00  | 0.05  | 1.000 | 0.99999 |
| 1091              | 2                    | 4.08                        | 98                    | 12,443                        | 785                                    | 0.125 | 126.97 | 15.85 | 1.000 | 0.99963 |
| 1092              | 3                    | 4.46                        | 38                    | 2,640                         | 1,070                                  | 0.036 | 69.47  | 2.47  | 1.027 | 0.99994 |
| 1101              | 1                    | 2.22                        | 1                     | 133                           | 810                                    | 0.001 | 133.00 | 0.16  | 1.000 | 0.99999 |
| 1102              | 1                    | 1.02                        | 36                    | 2,228                         | 1,126                                  | 0.032 | 61.89  | 1.98  | 1.000 | 0.99995 |
| 1103              | 3                    | 1.83                        | 56                    | 2,171                         | 1,016                                  | 0.055 | 38.77  | 2.14  | 1.018 | 0.99995 |
| 1213              | 3                    | 5.00                        | 13                    | 675                           | 582                                    | 0.022 | 51.92  | 1.16  | 1.083 | 0.99997 |
| 1230              | 1                    | 0.92                        | 1,252                 | 69,652                        | 1,252                                  | 1.000 | 55.63  | 55.63 | 1.000 | 0.99871 |
| 1233              | 2                    | 1.23                        | 2                     | 74                            | 652                                    | 0.003 | 37.00  | 0.11  | 1.000 | 0.99999 |
| 1271              | 4                    | 2.95                        | 53                    | 2,057                         | 1,002                                  | 0.053 | 38.81  | 2.05  | 1.019 | 0.99995 |
| 1285              | 1                    | 2.13                        | 13                    | 1,673                         | 1,134                                  | 0.011 | 128.69 | 1.48  | 1.000 | 0.99997 |
| 1452              | 10                   | 17.09                       | 223                   | 23,104                        | 472                                    | 0.472 | 103.61 | 48.95 | 1.032 | 0.99887 |
| 1453              | 6                    | 8.45                        | 57                    | 5,091                         | 1,842                                  | 0.031 | 89.32  | 2.76  | 1.018 | 0.99994 |
| 1455              | 2                    | 1.03                        | 25                    | 791                           | 425                                    | 0.059 | 31.64  | 1.86  | 1.000 | 0.99996 |
| 1843              | 1                    | 0.62                        | 1                     | 37                            | 1,137                                  | 0.001 | 37.00  | 0.03  | 1.000 | 0.99999 |
| 2051              | 2                    | 3.09                        | 214                   | 15,032                        | 214                                    | 1.000 | 70.24  | 70.24 | 1.005 | 0.99840 |
| 2092              | 4                    | 5.07                        | 91                    | 5,928                         | 962                                    | 0.095 | 65.14  | 6.16  | 1.000 | 0.99986 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 2211              | 1                    | 1.07                        | 31                    | 2,011                         | 742                                    | 0.042 | 64.87  | 2.71   | 1.000 | 0.99994 |
| 2511              | 2                    | 3.65                        | 631                   | 91,815                        | 628                                    | 1.005 | 145.51 | 146.20 | 1.005 | 0.99666 |
| 2621              | 1                    | 0.93                        | 50                    | 2,837                         | 1,229                                  | 0.041 | 56.74  | 2.31   | 1.000 | 0.99995 |
| 2843              | 1                    | 0.83                        | 19                    | 961                           | 176                                    | 0.108 | 50.58  | 5.46   | 1.000 | 0.99987 |
| 2951              | 1                    | 4.00                        | 29                    | 6,966                         | 1,266                                  | 0.023 | 240.21 | 5.50   | 1.000 | 0.99987 |
| 2952              | 2                    | 3.45                        | 43                    | 6,742                         | 385                                    | 0.112 | 156.79 | 17.51  | 1.000 | 0.99959 |
| 2961              | 1                    | 2.23                        | 8                     | 1,076                         | 660                                    | 0.012 | 134.50 | 1.63   | 1.000 | 0.99996 |
| 2962              | 3                    | 9.93                        | 84                    | 17,323                        | 264                                    | 0.318 | 206.23 | 65.62  | 1.063 | 0.99848 |
| 3121              | 1                    | 0.48                        | 1                     | 29                            | 1,164                                  | 0.001 | 29.00  | 0.02   | 1.000 | 0.99999 |
| 3122              | 1                    | 2.08                        | 1                     | 125                           | 898                                    | 0.001 | 125.00 | 0.14   | 1.000 | 0.99999 |
| 3123              | 2                    | 2.38                        | 21                    | 1,743                         | 1,148                                  | 0.018 | 83.00  | 1.52   | 1.050 | 0.99996 |
| 3181              | 2                    | 2.23                        | 2                     | 134                           | 770                                    | 0.003 | 67.00  | 0.17   | 1.000 | 0.99999 |
| 3221              | 1                    | 1.02                        | 18                    | 1,111                         | 1,295                                  | 0.014 | 61.72  | 0.86   | 1.000 | 0.99998 |
| 3222              | 2                    | 5.09                        | 41                    | 9,592                         | 804                                    | 0.051 | 233.95 | 11.93  | 1.000 | 0.99972 |
| 3301              | 1                    | 0.72                        | 13                    | 560                           | 768                                    | 0.017 | 43.08  | 0.73   | 1.000 | 0.99998 |
| 3303              | 4                    | 3.06                        | 13                    | 756                           | 1,473                                  | 0.009 | 58.15  | 0.51   | 1.182 | 0.99999 |
| 3313              | 2                    | 1.64                        | 2                     | 98                            | 1,552                                  | 0.001 | 49.00  | 0.06   | 1.000 | 0.99999 |
| 3315              | 8                    | 10.89                       | 86                    | 7,444                         | 1,618                                  | 0.053 | 86.56  | 4.60   | 1.365 | 0.99989 |
| 3421              | 1                    | 0.93                        | 1                     | 56                            | 308                                    | 0.003 | 56.00  | 0.18   | 1.000 | 0.99999 |
| 3422              | 2                    | 1.57                        | 2                     | 94                            | 1,010                                  | 0.002 | 47.00  | 0.09   | 1.000 | 0.99999 |
| 3423              | 1                    | 1.23                        | 21                    | 1,570                         | 407                                    | 0.052 | 74.76  | 3.86   | 1.000 | 0.99991 |
| 3471              | 1                    | 2.67                        | 5                     | 800                           | 502                                    | 0.010 | 160.00 | 1.59   | 1.000 | 0.99996 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 3472              | 1                    | 2.53                        | 1                     | 152                           | 1,345                                  | 0.001 | 152.00 | 0.11  | 1.000 | 0.99999 |
| 3551              | 1                    | 7.12                        | 13                    | 5,551                         | 1,048                                  | 0.012 | 427.00 | 5.30  | 1.000 | 0.99988 |
| 3552              | 1                    | 1.17                        | 126                   | 8,813                         | 589                                    | 0.214 | 69.94  | 14.96 | 1.000 | 0.99965 |
| 3553              | 1                    | 0.83                        | 1                     | 50                            | 886                                    | 0.001 | 50.00  | 0.06  | 1.000 | 0.99999 |
| 3591              | 3                    | 2.51                        | 48                    | 2,522                         | 1,578                                  | 0.030 | 52.54  | 1.60  | 1.000 | 0.99996 |
| 3592              | 1                    | 3.80                        | 10                    | 2,280                         | 1,822                                  | 0.005 | 228.00 | 1.25  | 1.000 | 0.99997 |
| 3593              | 1                    | 1.57                        | 176                   | 16,552                        | 950                                    | 0.185 | 94.05  | 17.42 | 1.000 | 0.99960 |
| 3621              | 2                    | 0.95                        | 1,627                 | 6,584                         | 1,626                                  | 1.001 | 4.05   | 4.05  | 1.001 | 0.99991 |
| 3661              | 4                    | 3.52                        | 34                    | 1,231                         | 1,117                                  | 0.030 | 36.21  | 1.10  | 1.097 | 0.99997 |
| 3662              | 1                    | 0.13                        | 1                     | 8                             | 901                                    | 0.001 | 8.00   | 0.01  | 1.000 | 0.99999 |
| 3664              | 4                    | 4.63                        | 14                    | 942                           | 586                                    | 0.024 | 67.29  | 1.61  | 1.273 | 0.99996 |
| 3671              | 3                    | 1.95                        | 671                   | 16,450                        | 670                                    | 1.001 | 24.52  | 24.55 | 1.003 | 0.99943 |
| 3673              | 1                    | 1.20                        | 5                     | 364                           | 276                                    | 0.018 | 72.80  | 1.32  | 1.000 | 0.99997 |
| 3675              | 1                    | 0.53                        | 7                     | 226                           | 551                                    | 0.013 | 32.29  | 0.41  | 1.000 | 0.99999 |
| 3692              | 1                    | 0.70                        | 1                     | 42                            | 418                                    | 0.002 | 42.00  | 0.10  | 1.000 | 0.99999 |
| 3701              | 3                    | 3.57                        | 4                     | 248                           | 546                                    | 0.007 | 62.00  | 0.45  | 1.000 | 0.99999 |
| 3751              | 3                    | 4.77                        | 35                    | 3,187                         | 938                                    | 0.037 | 91.06  | 3.40  | 1.029 | 0.99992 |
| 3871              | 4                    | 9.67                        | 77                    | 14,844                        | 1,098                                  | 0.070 | 192.78 | 13.52 | 1.791 | 0.99969 |
| 3872              | 3                    | 5.32                        | 21                    | 2,931                         | 1,210                                  | 0.017 | 139.57 | 2.42  | 1.000 | 0.99994 |
| 3874              | 1                    | 3.67                        | 1                     | 220                           | 205                                    | 0.005 | 220.00 | 1.07  | 1.000 | 0.99998 |
| 3878              | 3                    | 3.02                        | 55                    | 3,773                         | 854                                    | 0.064 | 68.60  | 4.42  | 1.019 | 0.99990 |
| 3891              | 1                    | 1.08                        | 1                     | 65                            | 465                                    | 0.002 | 65.00  | 0.14  | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 3892              | 1                    | 2.17                        | 1                     | 130                           | 553                                    | 0.002 | 130.00 | 0.24   | 1.000 | 0.99999 |
| 3893              | 7                    | 10.83                       | 26                    | 2,620                         | 1,200                                  | 0.022 | 100.77 | 2.18   | 1.238 | 0.99995 |
| 3901              | 1                    | 0.93                        | 1                     | 56                            | 887                                    | 0.001 | 56.00  | 0.06   | 1.000 | 0.99999 |
| 3952              | 6                    | 26.62                       | 104                   | 35,463                        | 914                                    | 0.114 | 340.99 | 38.80  | 1.030 | 0.99910 |
| 3981              | 2                    | 3.10                        | 5                     | 423                           | 1,584                                  | 0.003 | 84.60  | 0.27   | 1.000 | 0.99999 |
| 3982              | 6                    | 5.18                        | 52                    | 4,230                         | 1,835                                  | 0.028 | 81.35  | 2.31   | 1.040 | 0.99995 |
| 3991              | 4                    | 7.50                        | 31                    | 1,976                         | 768                                    | 0.040 | 63.74  | 2.57   | 1.107 | 0.99994 |
| 4031              | 2                    | 2.53                        | 20                    | 1,182                         | 724                                    | 0.028 | 59.10  | 1.63   | 1.053 | 0.99996 |
| 4091              | 3                    | 4.00                        | 150                   | 13,094                        | 1,214                                  | 0.124 | 87.29  | 10.79  | 1.007 | 0.99975 |
| 4092              | 4                    | 12.57                       | 465                   | 79,742                        | 462                                    | 1.006 | 171.49 | 172.60 | 1.890 | 0.99600 |
| 4101              | 3                    | 3.54                        | 98                    | 5,335                         | 990                                    | 0.099 | 54.44  | 5.39   | 1.167 | 0.99988 |
| 4131              | 1                    | 1.15                        | 1                     | 69                            | 206                                    | 0.005 | 69.00  | 0.33   | 1.000 | 0.99999 |
| 4134              | 4                    | 8.33                        | 11                    | 1,619                         | 1,288                                  | 0.009 | 147.18 | 1.26   | 1.000 | 0.99997 |
| 4137              | 9                    | 15.52                       | 52                    | 5,818                         | 821                                    | 0.063 | 111.88 | 7.09   | 1.040 | 0.99984 |
| 4138              | 1                    | 0.27                        | 1                     | 16                            | 758                                    | 0.001 | 16.00  | 0.02   | 1.000 | 0.99999 |
| 4151              | 1                    | 0.62                        | 11                    | 415                           | 174                                    | 0.063 | 37.73  | 2.39   | 1.000 | 0.99994 |
| 4152              | 3                    | 9.43                        | 310                   | 6,445                         | 1,298                                  | 0.239 | 20.79  | 4.97   | 1.003 | 0.99989 |
| 4153              | 1                    | 0.30                        | 1                     | 18                            | 1,183                                  | 0.001 | 18.00  | 0.02   | 1.000 | 0.99999 |
| 4171              | 2                    | 2.35                        | 1,242                 | 105,994                       | 1,210                                  | 1.026 | 85.34  | 87.60  | 1.026 | 0.99797 |
| 4212              | 4                    | 2.60                        | 63                    | 2,969                         | 1,098                                  | 0.057 | 47.13  | 2.70   | 1.016 | 0.99994 |
| 4223              | 1                    | 0.38                        | 1                     | 23                            | 1,140                                  | 0.001 | 23.00  | 0.02   | 1.000 | 0.99999 |
| 4224              | 2                    | 2.15                        | 10                    | 432                           | 786                                    | 0.013 | 43.20  | 0.55   | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 4302              | 1                    | 0.58                        | 64                    | 2,279                         | 670                                    | 0.096 | 35.61  | 3.40  | 1.000 | 0.99992 |
| 4303              | 1                    | 3.48                        | 11                    | 2,303                         | 1,391                                  | 0.008 | 209.36 | 1.66  | 1.000 | 0.99996 |
| 4342              | 1                    | 1.15                        | 84                    | 5,773                         | 791                                    | 0.106 | 68.73  | 7.30  | 1.000 | 0.99983 |
| 4344              | 1                    | 0.72                        | 30                    | 1,292                         | 370                                    | 0.081 | 43.07  | 3.49  | 1.000 | 0.99992 |
| 4361              | 2                    | 4.38                        | 16                    | 734                           | 1,692                                  | 0.009 | 45.88  | 0.43  | 1.000 | 0.99999 |
| 4362              | 1                    | 1.15                        | 1                     | 69                            | 844                                    | 0.001 | 69.00  | 0.08  | 1.000 | 0.99999 |
| 4363              | 1                    | 0.80                        | 41                    | 2,006                         | 709                                    | 0.058 | 48.93  | 2.83  | 1.000 | 0.99993 |
| 4364              | 1                    | 1.25                        | 21                    | 1,582                         | 866                                    | 0.024 | 75.33  | 1.83  | 1.000 | 0.99996 |
| 4371              | 4                    | 3.54                        | 16                    | 878                           | 1,570                                  | 0.010 | 54.88  | 0.56  | 2.000 | 0.99999 |
| 4386              | 1                    | 2.28                        | 295                   | 40,641                        | 1,659                                  | 0.178 | 137.77 | 24.50 | 1.000 | 0.99943 |
| 4431              | 7                    | 9.76                        | 34                    | 2,873                         | 1,443                                  | 0.024 | 84.50  | 1.99  | 1.097 | 0.99995 |
| 4432              | 1                    | 1.12                        | 2                     | 135                           | 487                                    | 0.004 | 67.50  | 0.28  | 1.000 | 0.99999 |
| 4511              | 1                    | 1.03                        | 16                    | 1,003                         | 1,148                                  | 0.014 | 62.69  | 0.87  | 1.000 | 0.99998 |
| 4602              | 1                    | 1.87                        | 1                     | 112                           | 984                                    | 0.001 | 112.00 | 0.11  | 1.000 | 0.99999 |
| 4693              | 1                    | 1.18                        | 1                     | 71                            | 174                                    | 0.006 | 71.00  | 0.41  | 1.000 | 0.99999 |
| 4791              | 1                    | 0.92                        | 1                     | 55                            | 632                                    | 0.002 | 55.00  | 0.09  | 1.000 | 0.99999 |
| 4794              | 7                    | 5.82                        | 77                    | 3,981                         | 398                                    | 0.193 | 51.70  | 10.00 | 1.069 | 0.99977 |
| 4892              | 4                    | 3.71                        | 56                    | 3,107                         | 332                                    | 0.169 | 55.48  | 9.36  | 2.000 | 0.99978 |
| 4901              | 1                    | 0.90                        | 16                    | 867                           | 20                                     | 0.800 | 54.19  | 43.35 | 1.000 | 0.99900 |
| 4903              | 1                    | 0.75                        | 1                     | 45                            | 166                                    | 0.006 | 45.00  | 0.27  | 1.000 | 0.99999 |
| 4906              | 1                    | 4.98                        | 23                    | 6,899                         | 1,317                                  | 0.017 | 299.96 | 5.24  | 1.000 | 0.99988 |
| 5601              | 4                    | 4.78                        | 34                    | 2,371                         | 1,309                                  | 0.026 | 69.74  | 1.81  | 1.000 | 0.99996 |



| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 5602              | 1                    | 1.32                        | 1                     | 79                            | 720                                    | 0.001 | 79.00  | 0.11  | 1.000 | 0.99999 |
| 5901              | 1                    | 1.00                        | 894                   | 53,833                        | 898                                    | 0.996 | 60.22  | 59.95 | 1.000 | 0.99861 |
| 5902              | 1                    | 0.60                        | 11                    | 403                           | 978                                    | 0.011 | 36.64  | 0.41  | 1.000 | 0.99999 |
| 6021              | 3                    | 2.99                        | 28                    | 1,161                         | 1,378                                  | 0.020 | 41.46  | 0.84  | 1.037 | 0.99998 |
| 6022              | 1                    | 2.13                        | 1                     | 128                           | 574                                    | 0.002 | 128.00 | 0.22  | 1.000 | 0.99999 |
| 6141              | 1                    | 2.42                        | 1                     | 145                           | 656                                    | 0.002 | 145.00 | 0.22  | 1.000 | 0.99999 |
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
| Total:            | 252                  | 377.44                      | 10,658                | 787,576                       | 175,880                                | 0.061 | 73.90  | 4.48  | 1.041 | 0.99990 |

**THE EMPIRE DISTRICT ELECTRIC COMPANY**  
**CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI**  
12/1/2022 to 12/31/2022  
EXCLUDING MAJOR EVENT DAYS

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 1050              | 1                    | 2.57                        | 1                     | 154                           | 1,777                                  | 0.001 | 154.00 | 0.09  | 1.000 | 0.99999 |
| 1051              | 2                    | 2.81                        | 1,611                 | 91,479                        | 1,603                                  | 1.005 | 56.78  | 57.07 | 1.005 | 0.99870 |
| 1082              | 7                    | 18.54                       | 14                    | 2,617                         | 1,419                                  | 0.010 | 186.93 | 1.84  | 1.000 | 0.99996 |
| 1092              | 6                    | 8.09                        | 19                    | 1,402                         | 1,050                                  | 0.018 | 73.79  | 1.34  | 1.188 | 0.99997 |
| 1093              | 1                    | 5.05                        | 4                     | 1,213                         | 236                                    | 0.017 | 303.25 | 5.14  | 1.000 | 0.99988 |
| 1101              | 1                    | 0.77                        | 1                     | 46                            | 812                                    | 0.001 | 46.00  | 0.06  | 1.000 | 0.99999 |
| 1102              | 5                    | 3.50                        | 104                   | 3,728                         | 1,127                                  | 0.092 | 35.85  | 3.31  | 1.020 | 0.99993 |
| 1103              | 2                    | 1.90                        | 47                    | 2,523                         | 1,017                                  | 0.046 | 53.68  | 2.48  | 1.000 | 0.99994 |
| 1141              | 2                    | 4.05                        | 916                   | 85,443                        | 915                                    | 1.001 | 93.28  | 93.38 | 1.001 | 0.99791 |
| 1211              | 2                    | 1.84                        | 929                   | 26,876                        | 1,517                                  | 0.612 | 28.93  | 17.72 | 1.009 | 0.99960 |
| 1212              | 3                    | 3.97                        | 3                     | 238                           | 350                                    | 0.009 | 79.33  | 0.68  | 1.000 | 0.99998 |
| 1213              | 2                    | 1.37                        | 4                     | 170                           | 583                                    | 0.007 | 42.50  | 0.29  | 1.000 | 0.99999 |
| 1230              | 4                    | 7.36                        | 25                    | 2,254                         | 1,253                                  | 0.020 | 90.16  | 1.80  | 1.000 | 0.99996 |
| 1233              | 1                    | 0.70                        | 1                     | 42                            | 652                                    | 0.002 | 42.00  | 0.06  | 1.000 | 0.99999 |
| 1241              | 3                    | 3.78                        | 897                   | 46,530                        | 896                                    | 1.001 | 51.87  | 51.93 | 1.019 | 0.99884 |
| 1242              | 2                    | 9.43                        | 2                     | 566                           | 862                                    | 0.002 | 283.00 | 0.66  | 1.000 | 0.99999 |
| 1243              | 4                    | 5.86                        | 116                   | 7,943                         | 1,259                                  | 0.092 | 68.47  | 6.31  | 1.009 | 0.99986 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 1271              | 1                    | 0.40                        | 1                     | 24                            | 1,006                                  | 0.001 | 24.00  | 0.02  | 1.000 | 0.99999 |
| 1312              | 1                    | 1.87                        | 2                     | 225                           | 994                                    | 0.002 | 112.50 | 0.23  | 1.000 | 0.99999 |
| 1451              | 1                    | 0.98                        | 3                     | 177                           | 586                                    | 0.005 | 59.00  | 0.30  | 1.000 | 0.99999 |
| 1452              | 2                    | 2.75                        | 2                     | 165                           | 472                                    | 0.004 | 82.50  | 0.35  | 1.000 | 0.99999 |
| 1522              | 1                    | 10.17                       | 1                     | 610                           | 107                                    | 0.009 | 610.00 | 5.70  | 1.000 | 0.99987 |
| 1523              | 1                    | 0.65                        | 1                     | 39                            | 773                                    | 0.001 | 39.00  | 0.05  | 1.000 | 0.99999 |
| 1841              | 1                    | 1.23                        | 8                     | 596                           | 653                                    | 0.012 | 74.50  | 0.91  | 1.000 | 0.99998 |
| 2091              | 1                    | 1.40                        | 7                     | 590                           | 950                                    | 0.007 | 84.29  | 0.62  | 1.000 | 0.99999 |
| 2092              | 1                    | 1.25                        | 75                    | 5,655                         | 962                                    | 0.078 | 75.40  | 5.88  | 1.000 | 0.99987 |
| 2171              | 1                    | 0.70                        | 5                     | 212                           | 597                                    | 0.008 | 42.40  | 0.36  | 1.000 | 0.99999 |
| 2172              | 2                    | 3.02                        | 31                    | 2,894                         | 253                                    | 0.123 | 93.35  | 11.44 | 1.000 | 0.99974 |
| 2211              | 1                    | 1.55                        | 34                    | 3,186                         | 743                                    | 0.046 | 93.71  | 4.29  | 1.000 | 0.99990 |
| 2212              | 5                    | 10.41                       | 5                     | 625                           | 1,394                                  | 0.004 | 125.00 | 0.45  | 1.250 | 0.99999 |
| 2491              | 1                    | 1.90                        | 1                     | 114                           | 66                                     | 0.015 | 114.00 | 1.73  | 1.000 | 0.99996 |
| 2492              | 1                    | 0.87                        | 3                     | 157                           | 30                                     | 0.100 | 52.33  | 5.23  | 1.000 | 0.99988 |
| 2511              | 1                    | 0.53                        | 1                     | 32                            | 631                                    | 0.002 | 32.00  | 0.05  | 1.000 | 0.99999 |
| 2621              | 2                    | 2.52                        | 11                    | 914                           | 1,234                                  | 0.009 | 83.09  | 0.74  | 1.000 | 0.99998 |
| 2951              | 5                    | 8.50                        | 47                    | 5,766                         | 1,275                                  | 0.037 | 122.68 | 4.52  | 1.000 | 0.99990 |
| 2961              | 4                    | 2.43                        | 114                   | 4,095                         | 660                                    | 0.173 | 35.92  | 6.20  | 1.009 | 0.99986 |
| 3121              | 2                    | 2.21                        | 33                    | 2,455                         | 1,164                                  | 0.028 | 74.39  | 2.11  | 1.000 | 0.99995 |
| 3123              | 1                    | 0.98                        | 5                     | 297                           | 1,149                                  | 0.004 | 59.40  | 0.26  | 1.000 | 0.99999 |
| 3181              | 1                    | 1.58                        | 6                     | 570                           | 771                                    | 0.008 | 95.00  | 0.74  | 1.000 | 0.99998 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 3221              | 3                    | 2.70                        | 5                     | 324                           | 1,299                                  | 0.004 | 64.80  | 0.25  | 1.000 | 0.99999 |
| 3231              | 1                    | 1.78                        | 1                     | 107                           | 229                                    | 0.004 | 107.00 | 0.47  | 1.000 | 0.99999 |
| 3303              | 1                    | 0.43                        | 1                     | 26                            | 1,475                                  | 0.001 | 26.00  | 0.02  | 1.000 | 0.99999 |
| 3304              | 1                    | 0.78                        | 13                    | 619                           | 1,186                                  | 0.011 | 47.62  | 0.52  | 1.000 | 0.99999 |
| 3313              | 1                    | 1.17                        | 38                    | 2,663                         | 1,554                                  | 0.024 | 70.08  | 1.71  | 1.000 | 0.99996 |
| 3315              | 3                    | 3.20                        | 18                    | 1,065                         | 1,620                                  | 0.011 | 59.17  | 0.66  | 1.059 | 0.99999 |
| 3471              | 3                    | 3.72                        | 21                    | 2,173                         | 502                                    | 0.042 | 103.48 | 4.33  | 1.105 | 0.99990 |
| 3472              | 2                    | 3.96                        | 119                   | 16,673                        | 1,347                                  | 0.088 | 140.11 | 12.38 | 1.008 | 0.99972 |
| 3551              | 1                    | 1.20                        | 1                     | 72                            | 1,049                                  | 0.001 | 72.00  | 0.07  | 1.000 | 0.99999 |
| 3553              | 2                    | 3.12                        | 13                    | 1,084                         | 887                                    | 0.015 | 83.38  | 1.22  | 1.000 | 0.99997 |
| 3592              | 2                    | 3.33                        | 83                    | 6,037                         | 1,824                                  | 0.046 | 72.73  | 3.31  | 1.000 | 0.99993 |
| 3621              | 1                    | 0.62                        | 19                    | 709                           | 1,626                                  | 0.012 | 37.32  | 0.44  | 1.000 | 0.99999 |
| 3661              | 4                    | 7.28                        | 216                   | 35,368                        | 1,120                                  | 0.193 | 163.74 | 31.58 | 1.009 | 0.99929 |
| 3662              | 1                    | 0.48                        | 1                     | 29                            | 902                                    | 0.001 | 29.00  | 0.03  | 1.000 | 0.99999 |
| 3663              | 1                    | 1.33                        | 6                     | 481                           | 321                                    | 0.019 | 80.17  | 1.50  | 1.000 | 0.99997 |
| 3664              | 1                    | 1.53                        | 1                     | 92                            | 588                                    | 0.002 | 92.00  | 0.16  | 1.000 | 0.99999 |
| 3671              | 4                    | 5.16                        | 132                   | 11,074                        | 670                                    | 0.197 | 83.89  | 16.53 | 1.031 | 0.99963 |
| 3701              | 5                    | 3.32                        | 5                     | 199                           | 549                                    | 0.009 | 39.80  | 0.36  | 1.000 | 0.99999 |
| 3702              | 2                    | 1.57                        | 24                    | 1,307                         | 689                                    | 0.035 | 54.46  | 1.90  | 1.000 | 0.99996 |
| 3751              | 1                    | 0.95                        | 35                    | 2,028                         | 940                                    | 0.037 | 57.94  | 2.16  | 1.000 | 0.99995 |
| 3871              | 1                    | 1.20                        | 39                    | 2,843                         | 1,100                                  | 0.035 | 72.90  | 2.58  | 1.000 | 0.99994 |
| 3872              | 1                    | 1.12                        | 76                    | 5,127                         | 1,214                                  | 0.063 | 67.46  | 4.22  | 1.000 | 0.99991 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI  | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|--------|-------|---------|
| 3878              | 1                    | 0.67                        | 12                    | 481                           | 856                                    | 0.014 | 40.08  | 0.56   | 1.000 | 0.99999 |
| 3891              | 4                    | 6.44                        | 219                   | 17,764                        | 466                                    | 0.470 | 81.11  | 38.12  | 1.564 | 0.99915 |
| 3892              | 1                    | 2.20                        | 4                     | 528                           | 554                                    | 0.007 | 132.00 | 0.95   | 1.000 | 0.99998 |
| 3893              | 2                    | 1.76                        | 20                    | 1,127                         | 1,205                                  | 0.017 | 56.35  | 0.94   | 1.053 | 0.99998 |
| 3913              | 1                    | 4.30                        | 47                    | 12,141                        | 831                                    | 0.057 | 258.32 | 14.61  | 1.000 | 0.99967 |
| 3951              | 1                    | 1.87                        | 1                     | 112                           | 967                                    | 0.001 | 112.00 | 0.12   | 1.000 | 0.99999 |
| 3953              | 2                    | 2.50                        | 13                    | 952                           | 545                                    | 0.024 | 73.23  | 1.75   | 1.000 | 0.99996 |
| 3971              | 3                    | 3.95                        | 5                     | 314                           | 703                                    | 0.007 | 62.80  | 0.45   | 1.250 | 0.99999 |
| 3981              | 2                    | 2.05                        | 102                   | 8,313                         | 1,587                                  | 0.064 | 81.50  | 5.24   | 1.010 | 0.99988 |
| 3982              | 5                    | 5.14                        | 56                    | 3,230                         | 1,836                                  | 0.031 | 57.68  | 1.76   | 1.000 | 0.99996 |
| 3991              | 4                    | 8.43                        | 9                     | 1,946                         | 769                                    | 0.012 | 216.22 | 2.53   | 1.125 | 0.99994 |
| 401               | 1                    | 0.72                        | 24                    | 1,052                         | 128                                    | 0.188 | 43.83  | 8.22   | 1.000 | 0.99982 |
| 403               | 1                    | 2.47                        | 268                   | 39,771                        | 275                                    | 0.975 | 148.40 | 144.62 | 1.000 | 0.99676 |
| 404               | 1                    | 0.80                        | 66                    | 3,203                         | 188                                    | 0.351 | 48.53  | 17.04  | 1.000 | 0.99962 |
| 4091              | 2                    | 3.71                        | 65                    | 9,259                         | 1,216                                  | 0.053 | 142.45 | 7.61   | 1.000 | 0.99983 |
| 4101              | 3                    | 4.26                        | 14                    | 1,072                         | 991                                    | 0.014 | 76.57  | 1.08   | 1.000 | 0.99998 |
| 4132              | 1                    | 1.65                        | 1                     | 99                            | 575                                    | 0.002 | 99.00  | 0.17   | 1.000 | 0.99999 |
| 4133              | 1                    | 0.48                        | 195                   | 5,811                         | 285                                    | 0.684 | 29.80  | 20.39  | 1.000 | 0.99954 |
| 4134              | 5                    | 8.91                        | 2,628                 | 262,402                       | 1,288                                  | 2.040 | 99.85  | 203.73 | 2.040 | 0.99544 |
| 4135              | 1                    | 1.32                        | 66                    | 5,258                         | 66                                     | 1.000 | 79.67  | 79.67  | 1.000 | 0.99822 |
| 4136              | 1                    | 0.95                        | 686                   | 39,719                        | 686                                    | 1.000 | 57.90  | 57.90  | 1.000 | 0.99870 |
| 4138              | 3                    | 2.58                        | 27                    | 1,305                         | 756                                    | 0.036 | 48.33  | 1.73   | 1.000 | 0.99996 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI  | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|--------|-------|-------|---------|
| 4151              | 1                    | 0.72                        | 11                    | 481                           | 175                                    | 0.063 | 43.73  | 2.75  | 1.000 | 0.99994 |
| 4171              | 2                    | 2.02                        | 32                    | 1,653                         | 1,211                                  | 0.026 | 51.66  | 1.36  | 1.032 | 0.99997 |
| 4172              | 1                    | 0.83                        | 1                     | 50                            | 1,908                                  | 0.001 | 50.00  | 0.03  | 1.000 | 0.99999 |
| 4211              | 1                    | 3.68                        | 3                     | 664                           | 806                                    | 0.004 | 221.33 | 0.82  | 1.000 | 0.99998 |
| 4212              | 1                    | 0.95                        | 14                    | 805                           | 1,101                                  | 0.013 | 57.50  | 0.73  | 1.000 | 0.99998 |
| 4222              | 1                    | 0.85                        | 155                   | 7,928                         | 1,087                                  | 0.143 | 51.15  | 7.29  | 1.000 | 0.99984 |
| 4223              | 1                    | 1.22                        | 1                     | 73                            | 1,143                                  | 0.001 | 73.00  | 0.06  | 1.000 | 0.99999 |
| 4303              | 1                    | 1.25                        | 32                    | 2,400                         | 1,395                                  | 0.023 | 75.00  | 1.72  | 1.000 | 0.99996 |
| 4332              | 1                    | 0.88                        | 375                   | 20,193                        | 375                                    | 1.000 | 53.85  | 53.85 | 1.000 | 0.99879 |
| 4333              | 1                    | 1.80                        | 1                     | 108                           | 751                                    | 0.001 | 108.00 | 0.14  | 1.000 | 0.99999 |
| 4334              | 2                    | 1.55                        | 110                   | 5,333                         | 305                                    | 0.361 | 48.48  | 17.49 | 1.009 | 0.99961 |
| 4344              | 1                    | 0.37                        | 38                    | 861                           | 370                                    | 0.103 | 22.66  | 2.33  | 1.000 | 0.99995 |
| 4362              | 2                    | 2.10                        | 11                    | 916                           | 844                                    | 0.013 | 83.27  | 1.09  | 1.000 | 0.99998 |
| 4371              | 3                    | 4.89                        | 1,578                 | 148,438                       | 1,575                                  | 1.002 | 94.07  | 94.25 | 1.003 | 0.99789 |
| 4386              | 5                    | 10.18                       | 450                   | 142,556                       | 1,659                                  | 0.271 | 316.79 | 85.93 | 1.166 | 0.99808 |
| 4431              | 7                    | 13.45                       | 77                    | 15,317                        | 1,449                                  | 0.053 | 198.92 | 10.57 | 1.750 | 0.99976 |
| 4432              | 3                    | 7.20                        | 9                     | 1,874                         | 488                                    | 0.018 | 208.22 | 3.84  | 1.125 | 0.99991 |
| 4601              | 4                    | 4.82                        | 9                     | 548                           | 408                                    | 0.022 | 60.89  | 1.34  | 1.000 | 0.99997 |
| 4692              | 1                    | 3.47                        | 30                    | 6,255                         | 506                                    | 0.059 | 208.50 | 12.36 | 1.000 | 0.99972 |
| 4714              | 1                    | 0.82                        | 97                    | 4,838                         | 360                                    | 0.269 | 49.88  | 13.44 | 1.000 | 0.99970 |
| 4903              | 1                    | 0.62                        | 1                     | 37                            | 168                                    | 0.006 | 37.00  | 0.22  | 1.000 | 0.99999 |
| 5601              | 2                    | 3.00                        | 5                     | 391                           | 1,311                                  | 0.004 | 78.20  | 0.30  | 1.000 | 0.99999 |

| CIRCUIT<br>NUMBER | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL CUST.<br>ON AFFECTED<br>CIRCUITS | SAIFI | CAIDI | SAIDI | CAIFI | ASAI    |
|-------------------|----------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------|-------|-------|-------|-------|---------|
| 5602              | 1                    | 0.88                        | 1                     | 53                            | 720                                    | 0.001 | 53.00 | 0.07  | 1.000 | 0.99999 |
| 5603              | 2                    | 2.44                        | 49                    | 4,323                         | 1,527                                  | 0.032 | 88.22 | 2.83  | 1.000 | 0.99994 |
| 5903              | 1                    | 0.63                        | 1                     | 38                            | 291                                    | 0.003 | 38.00 | 0.13  | 1.000 | 0.99999 |
| 5905              | 1                    | 0.83                        | 1                     | 50                            | 1,953                                  | 0.001 | 50.00 | 0.03  | 1.000 | 0.99999 |
| 6023              | 2                    | 2.28                        | 2                     | 137                           | 131                                    | 0.015 | 68.50 | 1.05  | 1.000 | 0.99998 |
|                   | NUMBER OF<br>OUTAGES | OUTAGE<br>HOURS<br>REPORTED | CUSTOMERS<br>AFFECTED | CUSTOMER<br>OUTAGE<br>MINUTES | TOTAL<br>CUSTOMERS<br>SERVED           | SAIFI | CAIDI | SAIDI | CAIFI | ASAI    |
| Total:            | 223                  | 330.33                      | 13,579                | 1,174,901                     | 177,119                                | 0.077 | 86.52 | 6.63  | 1.132 | 0.99985 |