

**Ameren Illinois Company's
Response to ICC Staff Data Requests
Docket No. 12-0089
Approval of Multi-Year Performance Metrics pursuant to
Section 16-108.5(f) and (f-5) of the Public Utilities Act.
Data Request Response Date: 3/7/2012**

MET 3.01

Staff's analyses of the daily summary interruption supplied by Ameren does not supply the same results as reported in Company Exhibit 1.1. Please explain this variance and how Ameren calculated the metrics in Ameren Exhibit 1.1 from the daily summary data provided in MET 1.01.

RESPONSE

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As explained in the Company's response to MET 2.01 (dated March 5), the daily outage information in MET 1.01 Attach was compiled from the detailed outage data in MET 2.01 Attach. Ameren Illinois Company (AIC) used the data in MET 1.01 to perform the extreme weather day calculations and identifications in Appendix 1 of Ameren Exhibit 1.1 as filed in ICC Docket No. 12-0089. AIC did not use the data in MET 1.01 to calculate the core SAIFI and CAIDI before adjusting for extreme weather days. As stated in Ameren Exhibit 1.1 (p. 4), the core SAIFI and CAIDI were established using the total Customer Interruptions (CI) and the total Customer Minutes Interrupted (CMI), along with the total Customers Served as reported in the Part 411 Reliability Reports from 2001 through 2010.

The minor variances that Staff referenced in MET 3.01 reflect minor discrepancies between the historic reliability data reported in the legacy companies' 411 reports, and the available archived raw outage data used to perform the extreme weather day calculations. AIC chose to calculate the core SAIFI and CAIDI using the data reported in its filed 411 reports since this information was verified by the Company before submittal and subsequently reviewed by Staff at the time of filing. The reported 411 data thus provides the most accurate and reliable snapshot of the reliability information for any given year.

However, since the extreme weather day exclusion is a new calculation, it was not included in the historic 411 reports. Therefore, to calculate this exclusion for each year, AIC used the available raw outage data from various legacy company systems and archives as explained in its response to MET 2.01. As the available data from the archives was manually compiled from multiple systems, which went through several conversions and manual updates over the last 10 years, the compilation of this data in its current form likely has led to the minor discrepancies with the filed 411 reports.

To further illustrate the methodology AIC used to determine the core SAIFI and CAIDI and the final SAIFI and CAIDI baselines, below is the year by year, step by step calculation. This methodology is also summarized year by year along with a scanned copy of the appropriate 411 report pages in MET 3.01 Attach that accompanies this response.

2001

Customer Count

- **CIPS** – Page 1 of the 2001 Code 411 Report: **326,430**
- **UE** – Page 6 of the 2001 Code 411 Report: **60,858**
- **CILCO** – Page 1 of the 2001 Code 411 Report: **203,546**
- **IP** – Page 5 of the 2001 Code 411 report: **589,568**
- **Total – 1,180,402**

Customer Interruptions (CI)

- **CIPS** – Page 14 of the 2001 Code 411 Report, Table 5 2001 Column. Note, there were 55 customers who experienced between 11 and 15 outages. The median, 13, was used for all 55 customers. – **565,210**
- **UE** – Page 6 of the 2001 Code 411 Report, Table D 2001 Column. Note, there were 60 customers who experienced between 11 and 15 outages. The median, 13, was used for all 60 customers. – **90,040**
- **CILCO** – Page 18 of the 2001 Code 411 Report: Planned Outages (17,265) + Unplanned Outages (303,516). – **320,781**
- **IP** – Page 34 of the 2001 Code 411 Report, Unplanned Interruptions (765,434) + Planned Interruptions (133,152). – **898,586**
- **Total – 1,874,617**

Customer Minutes Interrupted (CMI)

- **CIPS** – Page 15 of the 2001 Code 411 Report, Table 6 2001 Column: **62,781,820**
- **UE** – Page 7 of the 2001 Code 411 Report. SAIFI (1.37) x Customers (60,858) x CAIDI (158) = CMI **13,173,323**
- **CILCO** – Page 18 of the 2001 Code 411 Report. Planned Outages (17,265) x Average Duration (1.26 hours) x Minutes/Hour (60) + Unplanned Outages (303,516) x Average Duration (2.4 hours) x Minutes/Hour (60) = CMI. – **45,011,538**
- **IP** – Page 34 of the 2001 Code 411 Report, Unplanned Interruption Duration (1,685,055 hours) x Minutes/Hours (60) + Planned Interruption Duration (177,097 hours) x Minutes/Hours (60) = CMI. – **111,729,120**
- **Total – 232,695,801**

Total CI – CI Exclusions = (1,874,617 – 229,813) = 1,644,804; this is the number of Customer Interruptions shown in Table 2 of our plan.

Total CMI – CMI Exclusions = (232,695,801 – 54,471,874) = 178,223,927; this is the number of Customer Minutes Interrupted shown in Table 3 of our plan.

2002

Customer Count

- CIPS – Page 1 of the 2002 Code 411 Report: **323,000**
- UE – Page 1 of the 2002 Code 411 Report: **62,000**
- CILCO – Page 1 of the 2002 Code 411 Report: **203,304**
- IP – Page 6 of the 2002 Code 411 report: **592,741**
- **Total – 1,181,045**

Customer Interruptions (CI)

- CIPS – Page 25 of the 2002 Code 411 Report, Customer Interruption Level Table 2002 Column. Note, there were 693 customers who experienced between 11 and 15 outages and 6 customers who experienced between 16 and 20 outages. The medians, 13 and 18, respectively, were used for those customers. – **539,164**
- UE – Page 13 of the 2002 Code 411 Report, Customer Interruption Level Table 2002 Column. Note, there were 9 customers who experienced between 11 and 15 outages. The median, 13, was used for all 9 customers. – **125,536**
- CILCO – Page 25 of the 2002 Code 411 Report: Planned Outages (66,715) + Unplanned Outages (328,442). – **395,157**
- IP – Page 96 of the 2002 Code 411 Report, Table 31. – **809,392**
- **Total – 1,869,249**

Customer Minutes Interrupted (CMI)

- CIPS – Page 10 of the 2002 Code 411 Report, Interruption by Cause Category Table: **60,754,213**
- UE – Page 8 of the 2002 Code 411 Report, Interruption by Cause Category Table: **21,065,800**
- CILCO – Page 25 of the 2002 Code 411 Report. Planned Outages (66,715) x Average Duration (1.11 hours) x Minutes/Hour (60) + Unplanned Outages (328,442) x Average Duration (10.47 hours) x Minutes/Hour (60) = CMI. – **210,770,483**
- IP – Page 96 of the 2002 Code 411 Report, Table 31. – **124,717,250**
- **Total – 417,307,746**

Total CI – CI Exclusions = (1,869,249– 377,042) = 1,492,207; this is the number of Customer Interruptions shown in Table 2 of our plan.

Total CMI – CMI Exclusions = (417,307,746 – 129,373,999) = 287,933,747; this is the number of Customer Minutes Interrupted shown in Table 3 of our plan.

2003

Customer Count

- **CIPS** – Page 1 of the 2003 Code 411 Report: **330,000**
- **UE** – Page 1 of the 2003 Code 411 Report: **62,000**
- **CILCO** – Page 1 of the 2003 Code 411 Report: **205,517**
- **IP** – Page 7 of the 2003 Code 411 report: **596,892**
- **Total – 1,194,409**

Customer Interruptions (CI)

- **CIPS** – Page 22 of the 2003 Code 411 Report, Customer Interruption Level Table 2003 Column. Note, there were 60 customers who experienced between 11 and 15 outages. The median, 13, was used for those customers. – **485,790**
- **UE** – Page 50 of the 2004 Code 411 Report, Table 26, 2003 Column. – **84,212**
- **CILCO** – Page 20 of the 2003 Code 411 Report: Planned Outages (69,237) + Unplanned Outages (392,523). – **461,760**
- **IP** – Page 96 of the 2003 Code 411 Report, Table 31. – **894,075**
- **Total – 1,925,837**

Customer Minutes Interrupted (CMI)

- **CIPS** – Page 25 of the 2004 Code 411 Report, Table 7, 2003 Rows: Unplanned Interruption Duration (1,179,660 hours) x Minutes/Hours (60) + Planned Interruption Duration (114,540 hours) x Minutes/Hours (60). – **77,652,000**
- **UE** – Page 25 of the 2004 Code 411 Report, Table 7, 2003 Rows: Unplanned Interruption Duration (631,080 hours) x Minutes/Hours (60) + Planned Interruption Duration (47,400 hours) x Minutes/Hours (60). – **40,708,800**
- **CILCO** – Page 20 of the 2003 Code 411 Report. Planned Outages (69,237) x Average Duration (1.31 hours) x Minutes/Hour (60) + Unplanned Outages (392,523) x Average Duration (5.23 hours) x Minutes/Hour (60) = CMI. – **128,615,746**
- **IP** – Page 96 of the 2003 Code 411 Report, Table 31. – **189,388,541**
- **Total – 436,365,087**

Total CI – CI Exclusions = (1,925,837 – 514,918) = 1,410,919; this is the number of Customer Interruptions shown in Table 2 of our plan.

Total CMI – CMI Exclusions = (436,365,087 – 250,038,356) = 186,326,731; this is the number of Customer Minutes Interrupted shown in Table 3 of our plan.

2004

Customer Count

- CIPS – Page 6 of the 2004 Code 411 Report: **330,336**
- UE – Page 5 of the 2004 Code 411 Report: **62,521**
- CILCO – Page 3 of the 2004 Code 411 Report: **207,610**
- IP – Page 5 of the 2004 Code 411 report: **600,585**
- **Total – 1,201,052**

Customer Interruptions (CI)

- CIPS – Page 78 of the 2004 Code 411 Report, Table 33. – **609,634**
- UE – Page 52 of the 2004 Code 411 Report, Table 27. – **110,963**
- CILCO – Page 26 of the 2004 Code 411 Report: Planned Outages (43,123) + Unplanned Outages (300,675). – **343,798**
- IP – Page 87 of the 2004 Code 411 Report, Table 34. – **1,055,857**
- **Total – 2,120,252**

Customer Minutes Interrupted (CMI)

- CIPS – Page 78 of the 2004 Code 411 Report, Table 33. – **84,220,221**
- UE – Page 52 of the 2004 Code 411 Report, Table 3. – **29,833,045**
- CILCO – Page 26 of the 2004 Code 411 Report. Planned Outages (43,123) x Average Duration (1.3 hours) x Minutes/Hour (60) + Unplanned Outages (300,675) x Average Duration (6.2 hours) x Minutes/Hour (60) = CMI. – **115,214,694**
- IP – Page 87 of the 2004 Code 411 Report, Table 34. – **254,378,952**
- **Total – 483,646,912**

Total CI – CI Exclusions = (2,120,252 – 591,294) = 1,528,958; this is the number of Customer Interruptions shown in Table 2 of our plan.

Total CMI – CMI Exclusions = (483,646,912 – 273,915,768) = 209,731,144; this is the number of Customer Minutes Interrupted shown in Table 3 of our plan.

2005

Customer Count

- CIPS – Page 6 of the 2005 Code 411 Report: **393,495**
- CILCO – Page 5 of the 2005 Code 411 Report: **209,518**
- IP – Page 5 of the 2005 Code 411 report: **615,272**
- **Total – 1,218,285**

Customer Interruptions (CI)

- CIPS – Page 91 of the 2005 Code 411 Report, Table 43. – **605,988**
- CILCO – Page 65 of the 2005 Code 411 Report, Table 32. – **309,776**
- IP – Page 92 of the 2005 Code 411 Report, Table 37. – **981,159**
- **Total – 1,896,923**

Customer Minutes Interrupted (CMI)

- CIPS – Page 91 of the 2005 Code 411 Report, Table 43. – **66,114,380**
- CILCO – Page 65 of the 2005 Code 411 Report, Table 32. – **45,567,078**
- IP – Page 92 of the 2005 Code 411 Report, Table 37. – **181,546,128**
- **Total – 293,227,586**

Total CI – CI Exclusions = (1,896,923 – 365,463) = 1,531,460; this is the number of Customer Interruptions shown in Table 2 of our plan.

Total CMI – CMI Exclusions = (293,227,586 – 114,391,127) = 178,836,459; this is the number of Customer Minutes Interrupted shown in Table 3 of our plan.

2006

Customer Count

- CIPS – Page 7 of the 2006 Code 411 Report: **393,564**
- CILCO – Page 7 of the 2006 Code 411 Report: **210,871**
- IP – Page 7 of the 2006 Code 411 report: **618,912**
- **Total – 1,223,347**

Customer Interruptions (CI)

- CIPS – Page 121 of the 2006 Code 411 Report, Table 44. – **866,728**
- CILCO – Page 99 of the 2006 Code 411 Report, Table 35. – **389,515**
- IP – Page 122 of the 2006 Code 411 Report, Table 39. – **1,709,822**
- **Total – 2,966,065**

Customer Minutes Interrupted (CMI)

- CIPS – Page 121 of the 2006 Code 411 Report, Table 44. – **617,297,293**
- CILCO – Page 99 of the 2006 Code 411 Report, Table 35. – **169,677,210**
- IP – Page 122 of the 2006 Code 411 Report, Table 39. – **2,467,417,442**
- **Total – 3,254,391,945**

Total CI – CI Exclusions = (2,966,065 – 1,249,005) = 1,717,060; this is the number of Customer Interruptions shown in Table 2 of our plan.

Total CMI – CMI Exclusions = (3,254,391,945 – 2,669,820,799) = 584,571,146; this is the number of Customer Minutes Interrupted shown in Table 3 of our plan.

2007

Customer Count

- CIPS – Page 6 of the 2007 Code 411 Report: **394,703**
- CILCO – Page 5 of the 2007 Code 411 Report: **213,674**
- IP – Page 6 of the 2007 Code 411 report: **622,980**
- **Total – 1,231,357**

Customer Interruptions (CI)

- CIPS – Page 137 of the 2007 Code 411 Report, Table 54. – **624,676**
- CILCO – Page 112 of the 2007 Code 411 Report, Table 44. – **284,106**
- IP – Page 128 of the 2007 Code 411 Report, Table 47. – **994,874**
- **Total – 1,903,656**

Customer Minutes Interrupted (CMI)

- CIPS – Page 137 of the 2007 Code 411 Report, Table 54. – **87,092,203**
- CILCO – Page 112 of the 2007 Code 411 Report, Table 35. – **39,824,177**
- IP – Page 128 of the 2007 Code 411 Report, Table 47. – **310,434,623**
- **Total – 437,351,003**

Total CI – CI Exclusions = (1,903,656 – 376,988) = 1,526,668; this is the number of Customer Interruptions shown in Table 2 of our plan.

Total CMI – CMI Exclusions = (437,351,003 – 253,436,804) = 183,914,199; this is the number of Customer Minutes Interrupted shown in Table 3 of our plan.

2008

Customer Count

- CIPS – Page 1 of the 2008 Code 411 Report: **393,566**
- CILCO – Page 3 of the 2008 Code 411 Report: **213,999**
- IP – Page 3 of the 2008 Code 411 report: **624,536**
- **Total – 1,232,101**

Customer Interruptions (CI)

- CIPS – Page 93 of the 2008 Code 411 Report, Table 38. – **795,570**
- CILCO – Page 68 of the 2008 Code 411 Report, Table 34. – **423,660**
- IP – Page 94 of the 2008 Code 411 Report, Table 40. – **1,065,111**
- **Total – 2,284,341**

Customer Minutes Interrupted (CMI)

- CIPS – Page 93 of the 2008 Code 411 Report, Table 38. – **169,520,800**
- CILCO – Page 68 of the 2008 Code 411 Report, Table 34. – **118,025,600**
- IP – Page 94 of the 2008 Code 411 Report, Table 40. – **188,700,816**
- **Total – 476,247,216**

Total CI – CI Exclusions = (2,284,341 – 585,675) = 1,698,666; this is the number of Customer Interruptions shown in Table 2 of our plan.

Total CMI – CMI Exclusions = (476,247,216 – 220,782,679) = 255,464,537; this is the number of Customer Minutes Interrupted shown in Table 3 of our plan.

2009

Customer Count

- CIPS – Page 3 of the 2009 Code 411 Report: **392,369**
- CILCO – Page 3 of the 2009 Code 411 Report: **214,202**
- IP – Page 3 of the 2009 Code 411 report: **625,143**
- **Total – 1,231,714**

Customer Interruptions (CI)

- CIPS – Page 91 of the 2009 Code 411 Report, Table 43. – **667,587**
- CILCO – Page 72 of the 2009 Code 411 Report, Table 43. – **336,233**
- IP – Page 101 of the 2009 Code 411 Report, Table 42. – **773,141**
- **Total – 1,776,961**

Customer Minutes Interrupted (CMI)

- CIPS – Page 91 of the 2009 Code 411 Report, Table 43. – **293,263,872**
- CILCO – Page 72 of the 2009 Code 411 Report, Table 43. – **60,429,276**
- IP – Page 101 of the 2009 Code 411 Report, Table 42. – **127,938,890**
- **Total – 481,632,038**

Total CI – CI Exclusions = (1,776,961 – 321,297) = 1,455,664; this is the number of Customer Interruptions shown in Table 2 of our plan.

Total CMI – CMI Exclusions = (481,632,038 – 250,196,043) = 231,435,995; this is the number of Customer Minutes Interrupted shown in Table 3 of our plan.

2010

Customer Count

- Ameren Illinois – Page 3 of the 2010 Code 411 Report: **1,232,735**

Customer Interruptions (CI)

- Ameren Illinois – Page 158 of the 2010 Code 411 Report, Table 47. – **1,640,869**

Customer Minutes Interrupted (CMI)

- Ameren Illinois – Page 158 of the 2010 Code 411 Report, Table 47. – **232,304,622**

Total CI – CI Exclusions = (1,640,869 – 174,904) = 1,465,965; this is the number of Customer Interruptions shown in Table 2 of our plan.

Total CMI – CMI Exclusions = (232,304,622 – 62,512,557) = 169,792,065; this is the number of Customer Minutes Interrupted shown in Table 3 of our plan.

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Customer Count

- CIPS – Page 1 of the 2001 Code 411 Report: **326,430**
- UE – Page 6 of the 2001 Code 411 Report: **60,858**
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- **Total – 1,180,402**

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- **Total – 232,695,801**

Total CI – CI Exclusions = (1,874,617 – 229,813) = 1,655,804; this is the number of Customer Interruptions shown in Table 2 of our plan.

Total CMI – CMI Exclusions = (232,695,801 – 54,471,874) = 178,223,927; this is the number of Customer Minutes Interrupted shown in Table 3 of our plan.

2. Introduction

This document assesses AmerenCIPS' 2001 Reliability Report, and evaluates AmerenCIPS' reliability performance for calendar year 2001.

Beginning with the year 1999 and every three years thereafter, 83 Illinois Administrative Code Part 411.140 requires the Commission to assess the annual reliability report of each jurisdictional entity and evaluate the entity's reliability performance. Code part 411.140 requires the Commission evaluation to:

- A) Assess the reliability report of each entity.
- B) Assess the jurisdictional entity's historical performance relative to established reliability targets.
- C) Identify trends in the jurisdictional entity's reliability performance.
- D) Evaluate the jurisdictional entity's plan to maintain or improve reliability.
- E) Identify, assess, and make recommendations pertaining to any potential reliability problems and risks that the Commission has identified as a result of its evaluation.
- F) Include a review of the jurisdictional entity's implementation of its plan for the previous reporting period.

3. Description of AmerenCIPS' Customers and Service Territory

During 2001, AmerenCIPS provided electric service to approximately 326,430 customers in a 20,000 square mile area in central and southern Illinois. AmerenCIPS divides its operating area into six regions, and maintains its corporate headquarters in Springfield. The names and geographic locations of AmerenCIPS' regions can be described by moving clockwise around central and southern Illinois as follows:

- Eagle View Region is furthest to the northwest, with headquarters in Quincy;
- Four Rivers Region is to the east, with headquarters in Macomb;
- Northern Prairie Region, surrounded by Illinois Power and ComEd's operating areas, is to the northeast, with headquarters in Paxton;
- Heritage Region is directly south, with headquarters in Mattoon;
- Wabash Region is further south, with headquarters in Olney; and
- Shawnee Region is to the southwest, with headquarters in Marion.

4. Description of AmerenCIPS' Electric Distribution System

The majority of AmerenCIPS' facilities are located in rural/agricultural areas with approximately 9900 miles of distribution at 15kV and below. Over 99% of these facilities are made up of overhead circuits that require some amount of tree trimming.

Subsection 411.120(b)(3)(G) requires utilities to report on the age of distribution equipment. AmerenCIPS lists the average age of its substation equipment as 18.4 years, with a 30-year depreciable life; its poles and fixtures as 14.8 years, with a 35-year depreciable life; and its distribution transformers as 15.8 years, with a 30-year depreciable life.

AmerenUE 2001 Reliability Assessment

D. Customers Experiencing a Certain Number of Interruptions During the Past 3 Years

Customer Interruptions	Customers - 2001	Customers - 2000	Customers - 1999
0	17,964	20,085	15216
1	19,330	17,680	17310
2	10,884	10,149	13666
3	6,306	7,152	6215
4	3,609	3,286	2788
5	1,881	1,277	2194
6	537	741	2598
7	148	194	678
8	114	122	315
9	17	5	73
10	8	14	39
11 to 15	60	0	5
16 to 20	0	0	0
21 to 25	0	0	0
26 to 30	0	0	0
Over 30	0	0	0
Total Customers:	60,858	60,705	61097

[411.120 b) 3) K]

E. Number of Interruptions Due to Other Electric Supplier

AmerenUE had no customer service interruptions due to another electric supplier in 2001.

[411.120 b) 3) E]

F. Comparison of Interruption Frequency and Duration for Customers with Alternative Electric Supplier

As of December 31, 2001, only 1 AmerenUE customers purchased electric energy from an alternative supplier. The CAIDI was 0 and CAIFI was 0 for these customers in 2001. These indices are better than the AmerenUE system CAIDI and CAIFI reported in section V (A.) of this report. This shows that we treated all customers equally, regardless of where they purchased their electric energy.

[411.120 b) 3) F]

Introduction

Central Illinois Light Company (CILCO) has over 89 years of experience in the energy business. CILCO is committed to providing competitively priced electric energy and quality customer service. CILCO is a part of The AES Corporation, which is a leading global power company comprised of competitive generation, distribution, and retail supply businesses in 19 countries. AES is dedicated to providing safe, reliable clean electricity worldwide in a socially responsible way.

411.120 (b)(3)(A) A plan for future investment and, where necessary, reliability improvements for the jurisdictional entity's transmission and distribution facilities that will ensure continued reliable delivery of energy to customers and provide the delivery reliability needed for fair and open competition, along with the estimated cost of implementing the plan and any changes to the plan from the previous annual report.

i) The plan must cover all operating areas, including a description of the relevant characteristics of each operating area and the age and condition of the jurisdictional entity's equipment and facilities in each operating area.

CILCO's electric service territory covers 3700 square miles, 136 communities and approximately 203,546 customers. The service territory is comprised of 108 distribution substations with 300 feeders, 14 transmission and switching stations, and 35 industrial/wholesale substations. Approximately 63.3% of the distribution feeders are urban in nature. The Company's service area contains the cities of Peoria, East Peoria, Pekin, Lincoln, the outlying areas of Springfield, and other small communities in central Illinois. CILCO's distribution system consists of 1,928 miles (24.9%) of underground circuits and 5,826 miles (75.1%) of overhead circuits for a total of 7,754 circuit miles. The operating area and characteristics of the CILCO system have remained relatively constant during the last year. Two distribution feeders were put in service and one distribution feeder was taken out of service in 2001.

A qualitative characterization of the condition of CILCO's facilities is addressed in section 411.120(b)(3)(G)(i), and the age of transmission and distribution facilities is addressed in sections 411.120(b)(3)(G)(iii) and 411.120(b)(3)(G)(iv).

Approximately 36.7% of CILCO's electric distribution system serves customers in rural areas on radial lines and is not capable of being fed from another source. As such, these types of feeders have a greater exposure to weather extremes, which impact the frequency of electric service outages and service restoration efforts.



INTRODUCTION

Interruption Data

In 2001, considering no exclusions IP's 589,568 customers experienced 21,911 sustained (lasting more than one minute) interruption events. Customer interruptions ("CI") totaled 898,586, while customer minutes of sustained interruption ("CMI") reflect 111,729,143 minutes, for a 16% improvement in SAIFI and a 30% improvement in CAIDI. The top causes of interruptions based on customers interrupted were lightning, wind, and overhead equipment. Figure 4 shows 2001 data breakdown of data with no exclusions.

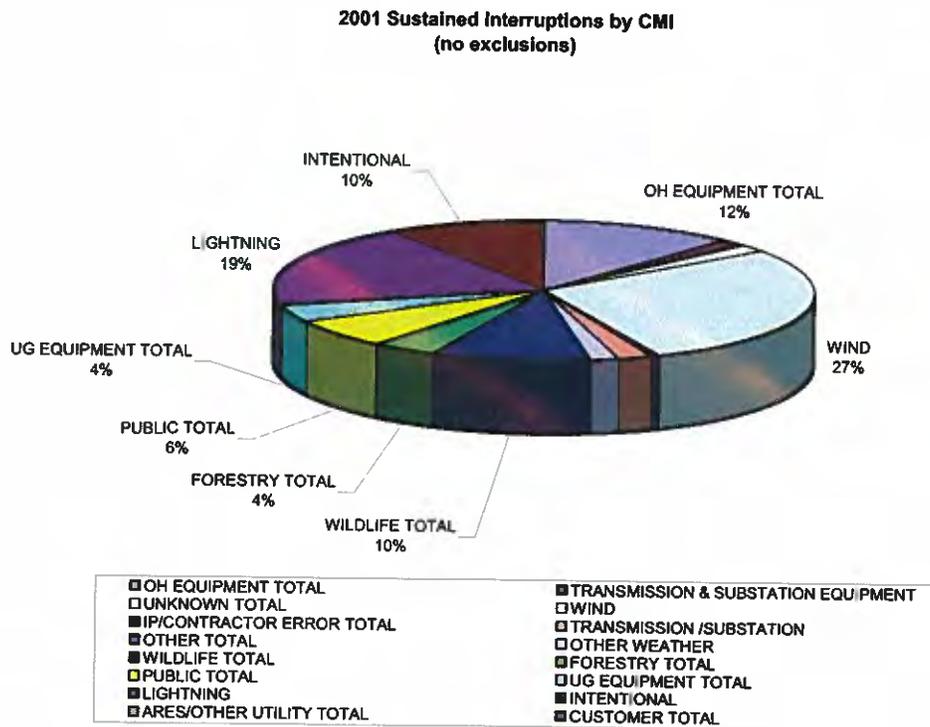


Figure 4 IP Outages Without Any Exclusions

Comparative Data

The Institute of Electronic and Electrical Engineers ("IEEE") has evaluated several approaches to segregate interruptions into normal or abnormal data. This analysis and recommendation process has been ongoing for some time. Utility personnel from across the country share experiences and practices from their company and regulatory bodies via a Working Group on System Design. Illinois Power participates in this Working Group. A methodology was adopted as a draft by the Working Group at the February 2002 Webex meeting. While still waiting for formal approval, the Group believes this to be a straightforward approach that readily identifies outage days considered outside of the normal threshold.

AmerenCIPS reported 10,264 *unplanned* interruptions in 1999, 9996 in 2000, and 9629 in 2001: a steady reduction. The number of its *planned* interruptions increased by a similar amount, from 646 in 1999, to 882 in 2000, to 1259 in 2001. The combination of planned and unplanned interruptions it has reported has stayed nearly constant, from 10910 in 1999, to 10878 in 2000, to 10888 in 2001.

AmerenCIPS listed six formal reliability complaints in its 2001 Reliability Report. The subject of two of the complaints was the length of an outage, two others related to interruptions being too numerous and frequent, one to timeliness, and one related to the trimming of trees. AmerenCIPS reported seven reliability complaints in 2000, and only two in 1999.

AmerenCIPS provided a table in its 2001 Reliability Report showing the number of customers that experienced zero interruption during the year, one interruption during the year, two interruptions during the year, etc., and included this information for 2000 and 1999 as well. For the period 1999 through 2001, more than 25% of AmerenCIPS customers experienced more than two interruptions during the calendar year. Staff is pleased to see that the percentage of AmerenCIPS customers that experienced more than five interruptions decreased, from 5.7% in 1999, to 4.5% in 2000, to 3.2% in 2001.

Table 5: AmerenCIPS Customers Experiencing a Certain Number of Interruptions (1999-2001)

# Customer Interruptions	# Customers (2001)	# Customers (2000)	# Customers (1999)
0	84147	93753	88616
1	90250	87541	85329
2	66552	60138	53755
3	39544	37017	41828
4	24881	18884	20509
5	10904	11964	15522
6	5855	5875	8541
7	2460	4237	4019
8	1368	2472	2026
9	449	819	1558
10	113	867	1077
11-15	55	331	1238
16-20	0	0	15
21-25	0	0	0
26-30	0	0	0
>30	0	0	0
Total	326578	323898	324033

565,210

AmerenUE 2001 Reliability Assessment

D. Customers Experiencing a Certain Number of Interruptions During the Past 3 Years

Customer Interruptions	Customers - 2001	Customers - 2000	Customers - 1999
0	17,964	20,085	15216
1	19,330	17,680	17310
2	10,884	10,149	13666
3	6,306	7,152	6215
4	3,609	3,286	2788
5	1,881	1,277	2194
6	537	741	2598
7	148	194	678
8	114	122	315
9	17	5	73
10	8	14	39
11 to 15	60	0	5
16 to 20	0	0	0
21 to 25	0	0	0
26 to 30	0	0	0
Over 30	0	0	0
Total Customers:	60,858	60,705	61097

90,040

[411.120 b) 3) K)]

E. Number of Interruptions Due to Other Electric Supplier

AmerenUE had no customer service interruptions due to another electric supplier in 2001.

[411.120 b) 3) E)]

F. Comparison of Interruption Frequency and Duration for Customers with Alternative Electric Supplier

As of December 31, 2001, only 1 AmerenUE customers purchased electric energy from an alternative supplier. The CAIDI was 0 and CAIFI was 0 for these customers in 2001. These indices are better than the AmerenUE system CAIDI and CAIFI reported in section V (A.) of this report. This shows that we treated all customers equally, regardless of where they purchased their electric energy.

[411.120 b) 3) F)]

I-74 Improvements - over the next 5 years CILCO will be spending millions of dollars in conjunction with the Illinois Department of Transportation's proposed improvements to Interstate 74 through the Peoria area. Conflicts with these I-74 improvements will necessitate the relocation of a large number of electric facilities. While facilities may not need replacement from a reliability standpoint, upon completion this work will result in a more reliable system. Also, during the I-74 construction, service reliability may be adversely impacted due to facilities being taken out of service or service provided from temporary facilities.

2001 Update and Deviations - \$18,000 was expended in 2001 for this project. Overall the project is behind schedule due to a delay in receiving final design drawings from the Illinois Department of Transportation.

Distribution Feeder 369-009 - Construct a new distribution feeder to relieve the projected overload on existing feeder 369-006 that serves the northwest area of Peoria, Illinois. The planned commercial development in this area will necessitate this construction. Budget estimates for this feeder have not been finalized. This work is scheduled for completion in 2003.

2001 Update and Deviations - This work is currently scheduled for 2003.

CILCO will continue to fund the capital and o&m programs discussed under Section 411.120(b)(3)(A)(viii) of this report.

Other specific projects addressing reliability during the 2003 - 2004 time period will be identified and funded based on the results of CILCO's capital and o&m budgeting process which will be completed during the 4th quarter of 2002.

411.120 (b)(3)(C) The number and duration of planned and unplanned interruptions for the annual reporting period and their impacts on customers.

2001 Planned (scheduled) Interruptions and Duration - There were 467 interruptions that impacted 17,265 customers with an average duration per outage (duration hours ÷ outages) of 1.26 hours.

2001 Unplanned (unscheduled) Interruptions and Duration - There were 4,647 interruptions that impacted 303,516 customers with an average duration per outage (duration hours ÷ outages) of 2.40 hours.



SECTION 411.120 NOTICE AND REPORTING REQUIREMENTS

C) *The number and duration of planned and unplanned interruptions for the annual reporting period and their impacts on customers.*

Exhibit 411.120.b.3.C

The number and duration of planned and unplanned interruptions during calendar years 1999 through 2001 are shown in Table 11.

Table 11 Exhibit 411.120.b.3.C

Year	Category	Duration (hr)	CI	Events
2001	Unplanned Interruptions	1,685,055	765,434	17,510
2000	Unplanned Interruptions	2,718,298	968,205	19,262
1999	Unplanned Interruptions	1,887,374	788,405	18,221
2001	Planned interruptions	177,097	133,152	4,401
2000	Planned Interruptions	128,488	99,168	3,585
1999	Planned Interruptions	119,584	112,350	4,369

As can be seen, the number of unplanned events in 2001 decreased by approximately 9 percent from previous years. At the same time the customers interrupted decreased by approximately 21 percent and the duration decreased by approximately 38 percent.

D) *The number and causes of controllable interruptions for the annual reporting period.*

Exhibit 411.120.b.3.D

A controllable outage is defined as "an interruption caused or exacerbated in scope and duration by the condition of facilities, equipment, or premises owned or operated by a utility, or by the action or inaction of persons under a utility's control and that could have been prevented through the use of accepted construction, and maintenance practices."

Table 12 provides information on the number and causes of controllable interruptions for 1999, 2000 and 2001 for customers served at 15 kV or less. In order to comply with this section, IP further developed controllable definitions by interruption cause category.

Staff encourages AmerenCIPS to be attentive to these statistics, and to take action to minimize repetitive interruptions to the same customers. Staff believes that AmerenCIPS' tap-line fusing project, beginning in 2002, will help identify problem areas, and reduce the number of customers that experience multiple interruptions. The number of AmerenCIPS' interruptions related to overhead equipment decreased by 264, or 13%, from 2000 to 2001. However, the number of interruptions classified as intentional increased by 378, or 56% from 2000 to 2001. Staff believes many of these intentional interruptions were related to increased pole replacement and tree trimming activities in 2001. AmerenCIPS should consider methods to reduce the number of interruptions classified as intentional as it develops its plans for improved reliability in future years.

Table 2 illustrates that AmerenCIPS' total number of categorized interruptions was approximately the same for the past two years, after a significant increase from 1999. AmerenCIPS attributes that increase to its use of a different outage reporting system.

Table 6: AmerenCIPS' Interruption Statistics (1999-2001)

CAUSE	# Of Interruptions			Duration of Interruptions (minutes)		
	2001	2000	1999	2001	2000	1999
Weather	3185	3057	282	39,326,613	28,405,235	6,912,210
Overhead Equip.	1751	2015	1985	3,939,363	6,332,625	79,93,458
Tree	704	695	595	3,456,409	4,037,603	4,291,193
Intentional	1059	681	486	3,238,760	3,216,486	2,756,792
Animal	1935	2163	1921	3099,478	3,546,914	2,879,646
Public	426	362	368	2,618,878	2,403,470	1,967,905
Transmission and Substation Related	53	57	57	2,442,819	3,270,965	3,442,237
Unknown	1035	1002	1174	1,788,895	1,621,731	2,695,345
Underground Equip.	271	293	217	1,123,600	1,220,258	1,415,516
Other	300	360	673	711,446	347,790	850,528
Customer	68	95	114	680,393	1,059,760	665,295
Jurisdictional Entity/ Contractor Personnel - Errors	92	89	113	355,166	210,775	500,544
Other Alternative Retail Electric Supplier	0	1	0	0	1176	0
Total	10,879	10,870	7985	62,781,820	55,674,788	36,370,669

AmerenUE 2001 Reliability Assessment

G. AmerenUE received the following service reliability complaints for 2001.

DATE	CASE # and LOCATION	COMPLAINT	RESOLUTION
08/31/2001	2001-26858S 3507 Hill Creek Ln	Customer complained of his service being out 4 times within one week.	Actually his service was out 5 times, with outages ranging from 7 to 88 minutes. Causes were 2 storms, one car accident, one squirrel in transformer, and one heat-related transformer failure. Also, we trimmed extensively and no further complaints.
10/26/2001	2001-33944S 210 Ash (& 6 other homes)	Surge during storm, damaging appliances in 7 homes.	A phase wire was knocked down by the storm when, at the same time, the neutral was knocked down further down the pole lead. The repairs were made and no further problems.

[411.120 b) 3) G) vi)]

V. Service Reliability Information – Company Wide

A. AmerenUE experienced the following SAIFI, CAIDI and CAIFI reliability indices:

DISTRICT	SAIFI	CAIDI	CAIFI
Illinois – 2001	1.37	158 minutes	2.04

[411.120 b) 3) H)]

Total Cust: 60,858
 SAIFI x 1.37
 CAIDI x 158
 CMI 13,173,323

I-74 Improvements - over the next 5 years CILCO will be spending millions of dollars in conjunction with the Illinois Department of Transportation's proposed improvements to Interstate 74 through the Peoria area. Conflicts with these I-74 improvements will necessitate the relocation of a large number of electric facilities. While facilities may not need replacement from a reliability standpoint, upon completion this work will result in a more reliable system. Also, during the I-74 construction, service reliability may be adversely impacted due to facilities being taken out of service or service provided from temporary facilities.

2001 Update and Deviations - \$18,000 was expended in 2001 for this project. Overall the project is behind schedule due to a delay in receiving final design drawings from the Illinois Department of Transportation.

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2001 Update and Deviations - This work is currently scheduled for 2003.

CILCO will continue to fund the capital and o&m programs discussed under Section 411.120(b)(3)(A)(viii) of this report.

Other specific projects addressing reliability during the 2003 - 2004 time period will be identified and funded based on the results of CILCO's capital and o&m budgeting process which will be completed during the 4th quarter of 2002.

411.120 (b)(3)(C) The number and duration of planned and unplanned interruptions for the annual reporting period and their impacts on customers.

2001 Planned (scheduled) Interruptions and Duration - There were 467 interruptions that impacted 17,265 customers with an average duration per outage (duration hours ÷ outages) of 1.26 hours.

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SECTION 411.120 NOTICE AND REPORTING REQUIREMENTS

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Exhibit 411.120.b.3.D

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Table 12 provides information on the number and causes of controllable interruptions for 1999, 2000 and 2001 for customers served at 15 kV or less. In order to comply with this section, IP further developed controllable definitions by interruption cause category.

2002

Customer Count

- CIPS – Page 1 of the 2002 Code 411 Report: **323,000**
- UE – Page 1 of the 2002 Code 411 Report: **62,000**
- CILCO – Page 1 of the 2002 Code 411 Report: **203,304**
- IP – Page 6 of the 2002 Code 411 report: **592,741**
- **Total – 1,181,045**

Customer Interruptions (CI)

- CIPS – Page 25 of the 2002 Code 411 Report, Customer Interruption Level Table 2002 Column. Note, there were 693 customers who experienced between 11 and 15 outages and 6 customers who experienced between 16 and 20 outages. The medians, 13 and 18, respectively, were used for those customers. – **539,164**
- UE – Page 13 of the 2002 Code 411 Report, Customer Interruption Level Table 2002 Column. Note, there were 9 customers who experienced between 11 and 15 outages. The median, 13, was used for all 9 customers. – **125,536**
- CILCO – Page 25 of the 2002 Code 411 Report: Planned Outages (66,715) + Unplanned Outages (328,442). – **395,157**
- IP – Page 96 of the 2002 Code 411 Report, Table 31. – **809,392**
- **Total – 1,869,249**

Customer Minutes Interrupted (CMI)

- CIPS – Page 10 of the 2002 Code 411 Report, Interruption by Cause Category Table: **60,754,213**
- UE – Page 8 of the 2002 Code 411 Report, Interruption by Cause Category Table: **21,065,800**
- CILCO – Page 25 of the 2002 Code 411 Report. Planned Outages (66,715) x Average Duration (1.11 hours) x Minutes/Hour (60) + Unplanned Outages (328,442) x Average Duration (10.47 hours) x Minutes/Hour (60) = CMI. – **210,770,483**
- IP – Page 96 of the 2002 Code 411 Report, Table 31. – **124,717,250**
- **Total – 417,307,746**

Total CI – CI Exclusions = (1,869,249– 377,042) = 1,492,207; this is the number of Customer Interruptions shown in Table 2 of our plan.

Total CMI – CMI Exclusions = (417,307,746 – 129,373,999) = 287,933,747; this is the number of Customer Minutes Interrupted shown in Table 3 of our plan.