

## AIC DRAFT response to DR 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:

As explained in response to MET 2.01, 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.

We believe the minor variances Staff referenced in MET 3.01 are due to the minor differences in the historic reliability data reported in the legacy companies' 411 reports, and the available archived outage data used to perform the extreme weather day calculations. AIC chose to calculate the core SAIFI and CAIDI using the filed 411 reports since this information had been verified and reviewed by Staff at the time, and therefore we believe to be the most accurate snapshot of the reliability information for a 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, AIC used the available raw outage data from various legacy company systems and archives as explained in our response to MET 2.01. Since the data from the archives was compiled from multiple systems, which went through several conversions and manual updates over the last 10 years, the assimilation of this data may have led to incongruities 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.

### 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 (60,585) 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 (calculated from the daily outage data in MET 1.01 Attach) = (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 (calculated from the daily outage data in MET 1.01 Attach) = (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**

**Detailed data in the same format as above to follow for 2002 – 2010.**