Customers Exceeding Reliability Targets - (All in Champaign, Total of 2050 hours)

| | |
|---|---|
| 23607, repl. 6acw beyond node 05foxp (fuse 104-40). Many splices in this conductor. There are couple of poles (mainly on curve) to replace. | Done |
| 23629, add la's, modify framing and replace poles to gain shorter spans at several locations in the vicinity of the WILL transmitter, W of Monticello. | Done |
| 23780, replace/add facilities at several locations between Urbana & St. Joseph to improve reliability for customer in this area of ckt. 502. Engr completed. | Done |
| 23850, upgrade facilities on feeder N & W of Mansfield to reduce outages and improve overall reliability on ckt. 102. Engr completed. | Done |
| 23965, modify (fix) facilities along the main line between St. Joe sub. and Royal to improve reliability of this feeder. Engr completed | Done |
| 24163, replace poles, arms, add fuses, etc. to improve reliability on ckt. 107 south of Mahomet. Engr completed. | Done |

1/8/2008

| | Gilman | Paxton | Tuscola | N Pana | Mattoon | Effingham | Robinson | Olney | Champaign | Danville | Homer |
|---|---|---|---|---|---|---|---|---|---|---|---|
| [redacted] | | | | | | | | | | | |
| Remaining to be Engineered | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Engr to be completed by 9/28 | | | | | | | | | | | |
| Remaining to be Constructed | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| [redacted] | | | | | | | | | | | |
| Remaining to be Engineered | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | na | 0 |
| Engr to be completed within 6 weeks | | | | | | | | | | | |
| Remaining to be Constructed | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | na | 0 |
| [redacted] | | | | | | | | | | | |
| [redacted] | | | | | | | | | | | |
| Remaining to be Engineered | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Engr to be completed by 9/28 | | | | | | | | | | | |
| Remaining to be Constructed | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| [redacted] | | | | | | | | | | | |
| Held up by contract negotiations | | | | | | | | | | | |
| [redacted] | | | | | | | | | | | |
| Remaining to be constructed - Regulator | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| Remaining to be constructed - Capacitor | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 0 |
| [redacted] | | | | | | | | | 1 | | |

URD Cable is located in subdivision at Edgebrook Dr - 40 customers in loop

# Division IV Reliability Action Plan to meet 2008 SAIFI goal

| Project | 2006 CI est reduction | 2006 current budget | 2006 Budget increase needed to meet target | 2007 CI est reduction | 2007 current budget | 2007 Budget increase needed to meet target | 2008 CI est reduction | 2008 current budget | 2008 Budget increase needed to meet target |
|---|---|---|---|---|---|---|---|---|---|
| Circuit Performance Improvement Projects | 5,000 | $0 | $0 | 7,685 | $0 | $70,000 | 9,343 | $1,321,000 | $888 |
| Tap Fusing & Coordination | 11,000 | $0 | $0 | 5,071 | $202,000 | $0 | 3,000 | $200,000 | $0 |
| Multiple Device Interruptions | 5,000 | $0 | $0 | 3,000 | $0 | $0 | 2,000 | $0 | $0 |
| ICC Worst Performing Circuits | 500 | | | 40 | | | 1,740 | | |
| Customers Exceeding ICC Reliability Targets | 0 | $0 | $0 | 0 | $0 | $0 | 0 | $0 | $0 |
| Inspections & Repairs | 0 | $0 | $0 | 0 | $0 | $0 | 0 | $0 | $0 |
| UG Cable Replacement | 0 | $0 | $0 | 0 | $0 | $0 | 0 | $0 | $0 |
| Tree Trimming | 0 | $0 | $0 | 500 | $0 | $250,000 | 500 | $0 | $250,000 |
| Substation Upgrades | 3,750 | $0 | $0 | 5,900 | $0 | $0 | 4,250 | $0 | $2,369,000 |
| CI reduction savings | 25,250 | $0 | $0 | 22,196 | $202,000 | $320,000 | 20,833 | $1,521,000 | $2,619,888 |
| CI gap | 19,846 | | | 30,220 | | | 30,220 | | |
| Division SAIFI Target | 1.32 | | | 1.18 | | | 1.05 | | |

## Circuit Performance Improvement Projects

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. | 2009 CI Saved |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **ANIMAL GUARDING** | | | | | | | | | | |
| | -Transformer/Line (worst 3 feeders/year) | | | | | | | 450 | $60,000 | | |
| | -Substation OH Exits (line) | 1,000 | | | 3,000 | | $20,000 | 1,500 | $20,000 | | |
| | **DISTRIBUTION AUTOMATION - Line** | | | | | | | | | | |
| | - Install 34KV recloser @ Pana East (1 outage every 2 years) | | | | | | | | | | |
| | -Install 34KV recloser @ Nokomis, chg Normal Open Point to 398 (reduced exposure to Pana South also) | | | | | | | | $50,000 | | 1,600 |
| | - Auto Transfer @ Farina | | | | | | | | $50,000 | | 1,500 |
| | - Auto Transfer @ Mason Jct | | | | | | | | $90,000 | | 1,450 |
| | - Install Auto-isolating Scheme @ Hutsonville similar to Effingham East | | | | | | | | $60,000 | | 950 |
| | - Auto Transfer @ Cissna Park tap, chg Normal Open point to 644 (1 outage every 2 years for Onarga) | | | | | | | | $125,000 | | 1,050 |
| | **SUBTRANSMISSION PROJECTS** | | | | | | | | $100,000 | | 1,100 |
| | Modifying structures in 69KV line to prevent large cascades | | | | | | | | | | |
| | -Gilman-Fairbury | | | | | | | 800 | $200,000 | | |
| | -Fairbury-Gibson City | | | | | | | 600 | $150,000 | | |
| | -Hoopeston-Watseka | | | | | | | 1,250 | $230,000 | | |
| | Matt J also looking at c-truss - could decrease costs did about 100 poles this year on OT & weekends | | | | | | | | | | |
| | Danville-Ridgeview 69KV CIPS/IP Tie | | | | | | | | | | |
| | **OVERHEAD PRIMARY REPLACEMENTS** | | | | | | | | | | |
| | -Shelbyville N Reconductor (ISP-D91069) | | | | 300 | | | 868 | | | |
| X92508 | Reconfigure/resag Distribution Line (CKT X92508) | | | | 350 | | $50,000 | 350 | | | |
| | Addressing Overloaded Transformers | 500 | | | 300 | | | 200 | | | |
| | Line - aggressively implement gloving policy | 1,000 | | | 1,500 | | | 1,000 | | | |
| | -Effingham NW 503 Loop (ISP-D33145) | | | | | | | 600 | | | |
| | -Fairbury - Fairbury E 12KV Tie (ISP-D27366) | | | | | | | 250 | | | |
| | -Assumption-Moweaqua Tie | | | | 235 | | | | | | |
| | -Sibley Conversion & Tie | | | | | | | 100 | | | |
| Y60593 | Lightning Protection (CKT Y60593) | | | | | | | | | | |
| | 12 kV LA's - 8-12 per mile-more aggressive | | | | | | | | $80,000 | 775 | |
| Y45503 | Bismark Upgrade | | | | | | | | $106,000 | 113 | |
| | Champaign-Urbana Agreement | 2,500 | | | 2,000 | | | 1,000 | | | |
| Y47233 | Install 34.5KV LA on Pana-Assumption-Moweaqua - Owaneco [added to sheet 12/7/07] | | | | | | | 375 | | | |
| Totals | | 5,000 | $0 | $0 | 7,685 | $0 | $70,000 | 8,343 | $1,321,000 | $888 | 7,650 |

# Tap Fusing & Coordination

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tap Fusing (IP, CIPS, CILCO) | 7,000 | | | 3,571 | $202,000 | | 2,500 | $200,000 | |
| | Performing Fuse Coordination Stuc ies | 4,000 | | | 1,500 | | | 500 | | |
| Totals | | 11,000 | $0 | $0 | 5,071 | $202,000 | $0 | 3,000 | $200,000 | $0 |

## Multiple Device Interruptions

| Circuit | Brief Project Description Previous SAIFI Projects | 2006 CI Saved 5,000 | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved 3,000 | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved 2,000 | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| Totals | | 5,000 | $0 | $0 | 3,000 | $0 | $0 | 2,000 | $0 | $0 |

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| | **ICC WORST PERFORMING CIRCUITS** | | | | | | | | | |
| 502 | ICC Worst Performing Circuit | | | | | | $125,000 | 1,200 | | $130,000 |
| | Worst Performing Circuits (worst 3 feeders/yr) | 500 | | | | | | | | |
| **List of Distribution Circuits w/SAIFI > 2.0** | | | | | | | | | | |
| X75558 | Nothing Additional | | | | | | | 0 | | |
| Y12560 | Nothing Additional | | | | | | | 0 | | |
| Y60548 | DOJM 085386, completed. | | | | | | | 0 | | |
| Y20522 | Nothing Additional | | | | 40 | | 0 | 40 | | |
| X03533 | Completed in 2006. | | | | | | | 0 | | |
| X23505 | Nothing Additional | | | | | | | 0 | | |
| X96524 | Nothing Additional | | | | | | | | | |
| X75571 | Outages on this circuit in 2006 were a combination of storm related (ice and severe thunderstorm) as well as some not apparently related to storm conditions. The most common effect appears to have been some broken poles and primary wire downed. | | | | | 102,000 | | 500 | | |
| Z21563 | We plan to replace several bad poles, mostly in Saybrook and the rural area between Saybrook and Arrowsmith. Lightning protection will be added as warranted. We also plan to modify the fault protection, primarily in Saybrook. This should result in better coordination and minimize the effects of faults that may occur. We plan to modify the framing and number of poles in some locations on the portion of the circuit immediately east & southeast of Arrowsmith. This line has some longer spans with all four conductors on the 8' crossarm. We estimate the cost of this circuit work at approximately $102,000 and completion of the improvements by the end of 2007. | | | | | | | | | |
| X96543 | Nothing Additional | | | | | | 0 | | | |
| X49569 | Nothing Additional | | | | | | 0 | | | |
| P52306 | Nothing Additional | | | | | | 0 | | | |
| Y07576 | Nothing Additional | | | | | | 0 | | | |
| X92507 | Nothing Additional | | | | | | 0 | | | |
| X69556 | Circuit patrolled 8/07. DOJM 166992 to fix remaining items, be completed by 10/1/07. | | | | | | 0 | | | |
| X81555 | Nothing Additional | | | | | | 0 | | | |
| Z21564 | Duplicate - Already in Circuit Improvement Projects tab | | | | | | 0 | | | |
| Y59520 | Nothing Additional | | | | | | 0 | | | |
| X42501 | Nothing Additional | | | | | | 0 | | | |
| Z20542 | Nothing Additional | | | | | | 0 | | | |
| Z10500 | Nothing Additional | | | | | | 0 | | | |
| X92508 | Duplicate - Already in Circuit Improvement Projects tab | | | | | | 0 | | | |
| **Total** | | 500 | | 40 | | | 1740 | | | |

## Cust exceeding ICC Targets for 3 consecutive years

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Covered in other programs or project already identified. | | | | | | | | | |
| Totals | | 0 | $0 | $0 | 0 | $0 | $0 | 0 | $0 | $0 |

## Inspections & Repairs

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Division IV has previously been performing these tasks. | | | | | | | | | |
| | 2007 GLI by Utilimap<br>49 circuits planned in Div IV, beginning 10/10 | | | | | | | | | |
| | 2007 CIPS inspections by Local 702<br>103 circuits planned<br>79 completed through 12/7/07 | | | | | | | | | |
| | 2007 CILCO inspections by in house employees<br>14 circuits planned<br>9 completed through 10/31/07 | | | | | | | | | |
| | 2007 IP inspections by Local 51<br>22 circuits planned<br>22 completed through 12/07/07 | | | | | | | | | |
| | In Champaign | | | | | | | | | |
| K78-618 | SW Campus, 69 kV L6618 - Completed 10/22/07 | | | | | | | | | |
| P17-107 | Completed (Not from CDIS list) | | | | | | | | | |
| P17-108 | Completed (Not from CDIS list) | | | | | | | | | |
| P18-102 | Completed (Not from CDIS list) | | | | | | | | | |
| P18-103 | Completed (Not from CDIS list) | | | | | | | | | |
| P18-104 | Completed (Not from CDIS list) | | | | | | | | | |
| P46-607 | Mira, 69 kV L6607 - Completed 10/22/07 | | | | | | | | | |
| P52-305 | Completed (Not from CDIS list) | | | | | | | | | |
| P52-306 | Completed (Not from CDIS list) | | | | | | | | | |
| P52-437 | Monticello to Bement, 34.5 kV L3437 - Completed 10/15/07 | | | | | | | | | |
| Q06-616 | N Champaign, 69 kV L6616 - Completed 10/22/07 | | | | | | | | | |
| R58-610 | Urbana Five Points - Completed 10/12/07 | | | | | | | | | |
| R59-414 | Goodwin - Completed | | | | | | | | | |
| R59-416 | Goodwin - Completed | | | | | | | | | |
| R59-417 | Goodwin - Completed | | | | | | | | | |
| R60-552 | Perkins - Completed | | | | | | | | | |
| R60-553 | Perkins - Completed 10/12/07 | | | | | | | | | |
| R61-242 | Philo - Completed 9/28/07 | | | | | | | | | |
| R99-180 | Weedman - Completed 10/15/07 | | | | | | | | | |
| | In Danville | | | | | | | | | |
| R43-663 | 69 kV L6663 -Completed 12/10/07 | | | | | | | | | |
| R48-167 | Tilton Ross Lane - completed 12/10/07 | | | | | | | | | |
| R48-168 | Tilton Ross Lane - Completed 11/2/07 | | | | | | | | | |
| Totals | | 0 | $0 | $0 | 0 | $0 | $0 | 0 | $0 | $0 |

## Underground Cable Replacement

| Circuit | Brief Project Description (DOJM #) | | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 022617 | Status 10 | IP | | | | | | | | | |
| 021630 | Status 40 | | | | | | | | | | |
| 020845 | Status 80 | | | | | | | | | | |
| 020736 | Status 60 | | | | | | | | | | |
| 015819 | Status 80 | | | | | | | | | | |
| 011914 | Status 20 | | | | | | | | | | |
| 085374 | Status 20 | CIPS | | | | | | | | | |
| 166699 | Status 90 | | | | | | | | | | |
| 261027 | Status 10 | | | | | | | | | | |
| 259192 | Status 90 | | | | | | | | | | |
| 255152 | Status 60 | | | | | | | | | | |
| Totals | | | 0 | $0 | $0 | 0 | $0 | $0 | 0 | $0 | $0 |

## Tree Trimming

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tree Trimming (aggressive trimming on overhang) | | | | 500 | | $250,000 | 500 | | $250,000 |
| Totals | | 0 | $0 | $0 | 500 | $0 | $250,000 | 500 | $0 | $250,000 |

## Substation Upgrades

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. | 2009 CI Saved | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -Fisher N Sub | 250 | | | 250 | | | | | | | |
| | Aggressively set portables for maintenance | 500 | | | 3,000 | | | | | | | |
| | Animal Guarding Substations | | | | | | | 2,000 | | | | |
| | -Substation (IP) 3 Champ-1 Dan (11/13/0 ) | | | | | | | | | | | |
| | SW Camp s @ | 2,000 | | | | | | | | | | C - 2007 |
| | Weedma s @ | | | | | | | | | | | |
| | Liberty Lan (D) | | | | | | | 1,000 | | | | |
| | Hazel S (D) | | | | | | | | | | 1800 | |
| | -Substation (CIPS) | | | | | | | | | | | |
| | Mattoon 12 St | | | | | | | | | | | C - 2007 Anticipated |
| | Charleston Hay St | | | | 1,250 | | | | | | | Bought in 2007; to be installed 1st quarter 2008. |
| | Charleston S U | | | | | | | 1,250 | | | | Bought in 2007; to be installed 1st quarter 2008. |
| | Charleston E t | | | | | | | | | | | Bought in 2007; to be installed 1st quarter 2008. |
| | | | | | | | | | | | | Bought in 2007; to be installed 1st quarter 2008. |
| | | | | | | | | | | | | C - 2007 |
| | **DISTRIBUTION AUTOMATION - Substation** | | | | | | | | | | | C - 2007 |
| | Windsor Rd. 12kv ATO work | | | | | | | | | | | The 4 in red above |
| | -Auto Transfer @ Fairbury | | | | | | | | | | | were purchased with |
| | -Auto Transfer @ Albion Elm St (just moved to | 1,000 | | | | | | | | | | additional ED IL |
| | 6/1/06) 11/9/07 | | | | | | | | | | | dollars that were |
| | - Install Auto-isolating Scheme @ Gibson City | | | 1,400 | | | | | | | | made available in |
| | similar to Effingham East | | | | | | | | | | | October 2007. |
| | - Auto Transfer @ Milford | | | | | | | | | | | |
| | - Auto Transfer @ Assumption East, chg | | | | | | | | | | | |
| | Normal Open Point to 323 | | | | | | | | $155,000 | 1,250 | | |
| | - Install Auto-isolating Scheme @ Shelbyville | | | | | | | | | | | |
| | West similar to Effingham East | | | | | | | | $181,000 | 1,350 | | |
| | - Auto Transfer @ Flora East | | | | | | | | $182,000 | 1,200 | | |
| | - Auto Transfer @ Bridgeport West | | | | | | | | | | | |
| | - Auto Transfer @ Stoy, chg Normal Open pt to | | | | | | | | $191,000 | 750 | | |
| | 681 | | | | | | | | | | | |
| | - Auto transfer scheme on Line 6617 involving | | | | | | | | $158,000 | 1,500 | | |
| | Bondville, Mattis and Kirby substations. This | | | | | | | | $115,000 | 1,250 | | |
| | project has been committed to the City of | | | | | | | | $291,000 | 1,450 | | |
| | Champaign. It is in the 2008 budget, but not as | | | | | | | | | | | |
| | DA project. | | | | | | | | $291,000 | 400 | | |
| | -Auto Transfer @ Monticello | | | | | | | | | | | |
| | -Auto Transfer @ Danville Franklin St | | | | | | | | | | | |
| | Sibley - Conversion & 69kv SCADA switches | | | | | | | | $425,000 | 2,000 | | |
| | | | Necessary for circuit reliability project | | | | | | $180,000 | 4,455 | | |
| | | | | | | | | | $200,000 | 2,275 | | |
| Totals | | 3,750 | $0 | $0 | 5,900 | $0 | $0 | 4,250 | $0 | $2,360,000 | 19,660 | C - 2007 |

Note: Green items added in July 2007

# 2007 Reliability Action Plan Performance Report
## DIVISION V
### January 15, 2008



| | [redacted] | | | [redacted] | | | [redacted] | | [redacted] | |
|---|---|---|---|---|---|---|---|---|---|---|
| Division Responsibility | | | | | | | | | | |
| [redacted] | 10 | 10 | 100.0% | 10 | 10 | 100.0% | | | | |
| [redacted] | 77 | 77 | 100.0% | 77 | 77 | 100.0% | | | 3,220 | 13,005 |
| [redacted] | 169 | 169 | 100.0% | 26 | 26 | 100.0% | | | - | |
| [redacted] | 15 | 15 | 100.0% | 15 | 15 | 100.0% | | | 7,550 | 5,700 |
| [redacted] | 122 | 122 | 100.0% | 55 | 55 | 100.0% | | | 9,000 | 7,750 |
| [redacted] | | | | 200 | 200 | 100.0% | | | 600 | 600 |
| [redacted] | 1628 | 1626 | 99.9% | 188 | 181 | 96.3% | | | 75 | 75 |
| EDTS Responsibility | | | | 4 | 4 | 100.0% | | | 870 | 870 |
| [redacted] | | | | | | | | | - | - |
| [redacted] | 19 | 19 | 100.0% | 895 | 991 | 110.7% | | | 100 | 120 |
| [redacted] | 6 | 6 | 100.0% | 5 | 5 | 100.0% | | | 500 | 500 |
| [redacted] | | | | 7 | 7 | 100.0% | | | - | - |
| [redacted] | 108 | 108 | 100.0% | 922 | 905 | 98.2% | | | 5,144 | 3,270 |
| | | | | | | | | | - | - |
| | | | | | | | | | - | - |
| Subtotal Division | | | | | | | $ - | $ - | 21,415 | 28,120 |
| Subtotal EDTS | | | | | | | $ - | $ - | 5,644 | 3,770 |
| Total | | | | | | | $ - | $ - | 27,059 | 31,890 |
| Projected CI Avoided | | | | | | | | | 27,059 | 31,890 |
| CI Required to Achieve Target | | | | | | | | | 12,887 | 12,887 |
| Variation - Plan to Target | | | | | | | | | 14,172 | 19,003 |
| Net CI Difference | | | | | | | | | 7,432 | 26,435 |
| Division SAIFI Target | | | | | | | | | 1.00 | 0.90 |

# Division V Reliability Action Plan thru 2008

| Project | 2006 CI est reduction | 2006 current budget | 2006 Budget increase needed to meet target | 2007 CI est reduction | 2007 current budget | 2007 Budget increase needed to meet target | 2008 CI est reduction | 2008 current budget | 2008 Budget increase needed to meet target |
|---|---|---|---|---|---|---|---|---|---|
| Circuit Improvement Projects | 3016 | $160,946 | $0 | 3220 | $462,779 | $150,000 | 13005 | $111,162 | $180,000 |
| Tap Fusing | 1700 | $135,703 | $0 | 7550 | $169,730 | $50,000 | 5700 | $175,154 | $0 |
| Multiple Device Interruptions | 0 | $0 | $0 | 9000 | $0 | $675,000 | 7750 | $575,000 | $78,000 |
| ICC Worst Performing Circuits | 500 | $0 | $0 | 600 | $84,149 | $0 | 600 | $89,621 | $0 |
| Customers Exceeding ICC Reliability Targets | 0 | $0 | $0 | 75 | $0 | $50,000 | 75 | $0 | $50,000 |
| Circuit & Device Inspections | 0 | $0 | $0 | 870 | $148,936 | $750,000 | 870 | $158,007 | $0 |
| UG Cable Replacement | 25 | $0 | $0 | 100 | $205,000 | $95,000 | 120 | $0 | $0 |
| Tree Trimming | 0 | $0 | $0 | 500 | $0 | $0 | 500 | $0 | $0 |
| Substation Upgrades | 946 | $0 | $0 | 5144 | $3,000 | $0 | 3270 | $0 | $0 |
| CI reduction savings | 6,187 | $296,649 | $0 | 27,059 | $1,073,594 | $1,770,000 | 31,890 | $1,108,944 | $308,000 |
| CI gap | 12,927 | | | 26,729 | | | 26,729 | | |
| Division SAIFI Target | 1.19 | | | 1.00 | | | 0.90 | | |

| | |
|---|---|
| CI Reduction: | 65,136 |
| Needed: | 66,385 |
| | 1,249 |

## Circuit Improvement Projects

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| | **SECTIONALIZE BACKBONE** | | | | | | | | | |
| K11-373 | Installed OCR bank - Complete 2006 | | | | 135 | | | | | |
| Q21-293 | Install Three OCR Banks, recoordinate feeder IPMN19796 Complete May 18, 2007 | | | | 895 | $ 75,000 | | | | |
| K11-373 | IPMN022232 Install Fuse - Complete August 8, 2007 | | | | | | | | | |
| | **ANIMAL GUARDING** | | | | | | | | | |
| M04-365 | IPMN022384 - Complete August 8, 2007 | | | | | | | | | |
| H22-349 | IPMN022181 - Complete July 31, 2007 | | | | | | | | | |
| | **SUB-TRANSMISSION PROJECTS** | | | | | | | | | |
| 61071 Alton | Eliminate overload on circuit Hot spot projects | | | | 15 | | | 35 | | |
| | **DISTRIBUTION AUTOMATION** | | | | | | | | | |
| P14335 | Install Nu-Lec autosectionalizer at switch 3234 in Line 3335 - IPMN024575 | | | | 25 | | | | | |
| | Install ATO Scheme at Caseyville Gardens | | | | 750 | | | | | |
| Miss-78 | Install NuLec Recloser on MISS-78 adjacent to switch 771.This will reserve Bethany and Godfrey Substations by Miss-78 by remote control. 33AL 039057 | $101,092 | | | 500 | | | | | |
| Granite City M79 | Replace underground feed on M78-323 and relocate switches on M79-324 IPMN20930 Complete May 8, 2007 | | | | | $ 40,000 | 500 | | | |
| | **OVERHEAD PRIMARY REPLACEMENTS** | | | | | | | | | |
| K52-401 | Replace Hendrix with open wire - IPMN001305 PAR - Complete | | | | | | 4744 | | | |
| K52-400 | Replace Hendrix with open wire - IPMN001304 PAR - Complete | | | | | | 2050 | | | |
| M49-411 | Convert Feed to Glen Hills to Underground - IPMN021505 PAR - Complete | | | | | $ 80,000 | 1500 | | 180000 | |
| R04-413 | Convert Feed to Devon Ct to Underground - IPMN023839 | | | | | | | | | |
| MRY | SAIFI projects identified through IP program | | | | | $ 30,000 | 1116 | | | |
| HLB | SAIFI projects identified through IP program | | | | $30,000 | | | | | |
| | **LIGHTNING PROJECTS** | | | | $25,000 | | | | | |
| ATL | Assumes 10% of Lightning caused outages in 2006 | | | | | | 770 | | | |
| MRY | Assumes minimal savings from LA's added on routine projects throughout the year | 1781 | | | $100,000 | | 300 | | | |
| HLB | Assumes minimal savings from LA's added on routine projects throughout the year | 1185 | | | $125,000 | | | | | |
| | **ADD'L WORST PERFORMING CIRCUITS** | | | | | | 65 | | | |
| | None | 25 | $ 59,854 | | | | 1050 | | | |
| TOTALS | | 25 | | 50 | | | | | | |
| | | | | 525 | $ 58,825 | | | | | |
| | | | | 325 | $ 48,954 | | | | | |
| | | | | | | 50 | $ 60,739 | | | |
| | | | | | | 500 | $ 50,423 | | | |
| | | | | | | 325 | | | | |
| | | 3016 | 180,946 | 0 | 3220 | 482,779 | 150,000 | 13005 | 111,162 | [illegible] |

## Tap Fusing

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| MRY | Circuits were defined by RE group and worked | | $ 135,703 | | 4500 | $ 169,730 | | 3000 | $ 175,154 | |
| HLB | Circuits were defined by RE group and worked | | | | 3000 | | | 2550 | | |
| Alton | Circuits were defined by RE group and worked | 1700 | | | 50 | | | 150 | | |
| TOTALS | | 1700 | $ 135,703 | 0 | 7550 | $ 169,730 | 0 | 5700 | $ 175,154 | 0 |

## Multiple Device Interruptions

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| ALT | Hiring an engineer to focus exlcusively on Reliability and Planning; study devices with multiple outages, review all outages for accurate data, develop plans and manage projects | | | | | | $ 75,000 | | | $ 78,000 |
| HLB | | | | | 2000 | | | | | |
| MRY | | | | | 3000 | | $150,000 | 2250 | $175,000 | |
| | | | | | 4000 | | $200,000 | 2750 | $200,000 | |
| | | | | | | | $250,000 | 2750 | $200,000 | |
| TOTALS | | 0 | 0 | 0 | 9000 | 0 | $ 675,000 | 7750 | $575,000 | $ 78,000 |
| IPMN 021121 | | | | | | | | | | |
| IPMN 021118 | | | | | | | | | | |
| IPMN 021098 | | | | | | | | | | |
| IPMN 021908 | | | | | | | | | | |
| IPMN 021878 | | | | | | | | | | |
| IPMN 020787 | | | | | | | | | | |
| IPMN 020780 | | | | | | | | | | |
| IPMN 020731 | | | | | | | | | | |
| IPMN 020336 | | | | | 16750 | | | | | |
| IPMN 020121 | | | | | | | | | | |
| IPMN 020116 | | | | | | | | | | |
| IPMN 020112 | | | | | | | | | | |
| IPMN 022566 | | | | | | | | | | |
| IPMN 022559 | | | | | | | | | | |
| IPMN 022538 | | | | | | | | | | |
| IPMN 022523 | | | | | | | | | | |
| IPMN 022299 | | | | | | | | | | |

# ICC Worst Performing Circuits

ICC Docket Nos. 07-0585 thru -0590 (Cons.)
TEE 21.03 Attach 2 (6 of 8)
1 of 1

| Circuit As defined | Brief Project Description Assume savings on next worst SAIFI or CAIDI per year | 2006 CI Saved 500 | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved 600 | 2007 Costs $84,149 | 2007 Add'l Costs Req. | 2008 CI Saved 600 | 2008 Costs $89,621 | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| TOTALS | | 500 | 0 | 0 | 600 | $84,149 | 0 | 600 | $89,621 | 0 |

| Co | Div | District | Job No. | Feeder | Work Order | Scheme # |
|---|---|---|---|---|---|---|
| IP | 5 | Maryville | 200700414 | K48381 | 21653 | 93IWPC07 |
| CIPS | 5 | Alton | 200700539 | 330001 | 21496 | 33IWPC07 |
| IP | 5 | Granite City | 200705463 | M78324 | 21657 | 94IWPC07 |
| IP | 5 | Granite City | 200705464 | M78325 | 21655 | 94IWPC07 |
| IP | 5 | Maryville | 200705465 | M05360 | 21654 | 92IWPC07 |
| IP | 5 | Maryville | 200705466 | K43386 | 21651 | 93IWPC07 |
| IP | 5 | Maryville | 200705467 | M49410 | 21658 | 94IWPC07 |
| IP | 5 | Maryville | 200705468 | R04413 | 21649 | 93IWPC07 |
| IP | 5 | Granite City | 200705469 | R23332 | 21648 | 94IWPC07 |
| IP | 5 | RiverBend | 200705470 | R93351 | 21647 | 92IWPC07 |
| IP | 5 | Granite City | 200705471 | N03296 | 21650 | 94IWPC07 |
| IP | 5 | Maryville | 200705472 | M17374 | 21656 | 93IWPC07 |
| CIPS | 5 | Alton | 200706619 | 310053 | 21498 | 33IWPC07 |
| CIPS | 5 | Alton | 200706620 | 327002 | 21497 | 33IWPC07 |
| CIPS | 5 | Alton | | 315005 | 21845 | 33IWPC07 |

## Circuit & Device Inspections

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| MRY | Replace poles identified from inspection process | | | | 300 | $148,936 | | 300 | $158,007 | |
| HLB | Replace poles identified from inspection process | | | | 300 | | | 300 | | |
| Alton | Replace poles identified from inspection process | | | | 270 | | | 270 | | |
| | All 2007 circuit inspections will be done by Utilimap. | | | | | | | | | |
| TOTALS | | 0 | $0 | $0 | 870 | $148,936 | $0 | 870 | $158,007 | $0 |

## Underground Cable Replacement

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| K43-386 | Mapleleaf Dr, Collinsville - DOJM 006251 | 25 | | | | | | | | |
| N42-856 | Freeport St, Keyesport - DOJM 008687 | | | | 50 | | | | | |
| K11-373 | Willow Wood Ct, IPMN 021265 - PAR | | | | 50 | $ 75,000 | | | | |
| M49-411 | East 30 Trailer Court IPMN 020351 | | | | | $ 75,000 | | 35 | | |
| K09-863 | Replace URD and move to front lot lines IPMN021188 - Complete 07-16-07 | | | | | $ 55,000 | | | | |
| M49-410 | IPMN023818 - Iron Mountain Lake | | | | | | | 35 | | |
| | | | | | | | 95000 | 50 | | |
| TOTALS | | 25 | $0 | $0 | 100 | $205,000 | $95,000 | 120 | $0 | $0 |

# Tree Trimming

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| | All of division 5 - Overall 4 yr average of 14 tree caused outages per/yr. Through prescriptive trimming, a reduction projection of 1 tree caused feeder outage per/yr. With an average feeder outage CI of 500 would assume a 2% of CI saved in 2007 and 2008 from prescriptive backbone trimming. | | | | 500 | | | 500 | | |
| TOTALS | | 0 | $0 | $0 | 500 | $0 | $0 | 500 | $0 | $0 |

## Substation Upgrades

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| M81-405 | Replace breaker | | | | | | | | | |
| Hillsboro | Edgemont Unit W overload relief - Comp 2005 | 946 | | | 1044 | | | | | |
| Maryville | Animal guard Litchfield sub | | | | 600 | | | | | |
| Maryville | Animal guard Kate St sub complete 11-21-2007 | | | | | | | | | |
| Hillsboro | Animal guard East Alton Bell St sub complete 11-21-2007 | | | | | | | | | |
| Maryville | Animal guard Mulberry Grove sub - Complete 06-16-07 | | | | 200 | 3000 | | 1000 | | |
| Hillsboro | Animal Guard Stallings, R23-332,333,334 - Comp 06-01-07 | | | | | | | 600 | | |
| | Rebuild Sawyerville Switching Station; the station was tripping intermittently and impacting the Brighton and Bunker Hill Substations | | | | 3300 | | | 1100 | | |
| Maryville | The project was complete in 2007 | | | | | | | | | |
| | Replace transformer at Worden Sub station - Complete 2007 | | | | | | | 570 | | |
| TOTALS | | 946 | 0 | 0 | 5144 | 3000 | 0 | 3270 | 0 | 0 |

# 2007 Reliability Action Plan Performance Report
## DIVISION 6
1/11/2008



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Division Responsibility | | | | | | | | | | |
| | 36 | 36 | 100.0% | 36 | 36 | 100.0% | | | 3,612 | 39,813 |
| | 111 | 111 | 100.0% | 111 | 111 | 100.0% | | | 9,005 | 6,772 |
| | 164 | 164 | 100.0% | 8 | 8 | 100.0% | | | 5,550 | 5,550 |
| | 18 | 18 | 100.0% | 18 | 18 | 100.0% | | | 5,347 | 6,417 |
| | 64 | 64 | 100.0% | 64 | 64 | 100.0% | | | - | 3,000 |
| | | | | 3 | 3 | 100.0% | | | 870 | 870 |
| | 2045 | 2045 | 100.0% | 97 | 97 | 100.0% | | | - | - |
| | | | | 12 | 12 | 100.0% | | | 375 | 1,236 |
| EDTS Responsibility | | | | | | | | | | |
| | 35 | 35 | 100.0% | 1159 | 1216 | 104.9% | | | 1,550 | 1,550 |
| | 15 | 15 | 100.0% | 13 | 13 | 100.0% | | | - | - |
| | | | | 15 | 15 | 100.0% | | | 20,310 | 22,963 |
| | 114 | 114 | 100.0% | 1228 | 1202 | 97.9% | | | - | - |
| | | | | | | | | | - | - |
| Subtotal Division | | | | | | | $ - | $ - | 24,759 | 63,658 |
| Subtotal EDTS | | | | | | | $ - | $ - | 21,860 | 24,513 |
| Total | | | | | | | $ - | $ - | **46,619** | **88,171** |
| Projected CI Avoided | | | | | | | | | 46,619 | 88,171 |
| CI Required to Achieve Target | | | | | | | | | 14,583 | 14,583 |
| Variation - Plan to Target | | | | | | | | | 32,036 | 73,588 |
| Net CI Difference | | | | | | | | | 28,974 | 102,562 |
| Division SAIFI Target | | | | | | | | | **1.05** | **0.96** |

# Division VI Reliability Action Plan thru 2008

| Project | 2006 CI est reduction | 2006 current budget | 2006 Budget increase needed to meet target | 2007 CI est reduction | 2007 current budget | 2007 Budget increase needed to meet target | 2008 CI est reduction | 2008 current budget | 2008 Budget increase needed to meet target |
|---|---|---|---|---|---|---|---|---|---|
| Circuit Improvement Projects | 1717 | $83,000 | $0 | 3612 | $608,544 | $221,000 | 39813 | $2,950,000 | $610,000 |
| Tap Fusing | 800 | $218,047 | $0 | 9005 | $411,617 | $0 | 6772 | $404,403 | $0 |
| Multiple Device Interruptions | 0 | $0 | $0 | 5550 | $100,000 | $0 | 5550 | $100,000 | $0 |
| ICC Worst Performing Circuits | 3000 | $90,000 | $0 | 5347 | $323,000 | $0 | 6417 | $100,000 | $0 |
| Customers Exceeding ICC Reliability Targets | 0 | $0 | $0 | 0 | $128,000 | $0 | 3000 | $130,000 | $0 |
| Circuit & Device Inspections | 870 | $950,000 | $0 | 870 | $1,136,927 | $0 | 870 | $1,400,000 | $0 |
| UG Cable Replacement | 300 | $166,441 | $0 | 375 | $438,175 | $0 | 1236 | $236,200 | $0 |
| Tree Trimming | 1000 | $447,000 | $0 | 1550 | $526,000 | $0 | 1550 | $526,000 | $0 |
| Substation Upgrades | 2178 | $65,000 | $0 | 20310 | $196,027 | $0 | 22963 | $0 | $0 |
| CI reduction savings | 9,865 | $2,019,488 | $0 | 46,619 | $3,868,290 | $221,000 | 88,171 | $5,846,603 | $610,000 |
| CI gap | 12,927 | | | 26,729 | | | 26,729 | | |
| Division SAIFI Target | 1.34 | | | 1.05 | | | 0.96 | | |

## Circuit Improvement Projects

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| 267 | SECTIONALIZE BACKBONE | | | | | | | | | |
| 108 | [redacted] | | | | | [redacted] | | 1209 | | |
| 124 | | | | | | | | 890 | | |
| 910 | | | | | | | | 1071 | | |
| 245 | | | | | 504 | | | 75 | | |
| 150 | | | | | | | | 650 | | |
| | misc. / estimate | | | | | | | | | |
| 127 | ANIMAL GUARDING | | | | | | | | | |
| 267 | [redacted] | | 8000 | | | | | | 200000 | |
| 108 | | | 12000 | | 100 | | | | | |
| | | | 14000 | | 300 | | | | | |
| | SUB-TRANSMISSION PROJECTS | | | | 300 | | | | | |
| | [redacted] | | | | [redacted] | | | | | |
| | | | 49000 | | | | 300 | $ 30,000 | | |
| | | | | | 1908 | | | | | |
| ESL | DISTRIBUTION AUTOMATION | | | | | | | | | |
| ESL | [redacted] | | | | | | 10 | 30000 | | |
| BEL | | | | | | | | 20000 | | |
| BEL | | | | | | | | | | |
| BEL | | | | | | | | | | |
| MTV | | | | | | | 0 | | | |
| MTV | | | | | | | 1162 | 40000 | | |
| SPA | | | | | | | 3028 | 40000 | | |
| MTV | | | | | | | 3877 | 180000 | | |
| MTV | | | | | | | 2926 | 180000 | | |
| MTV | | | | | | | 4546 | 180000 | | |
| MTV | | | | | | | 112 | 180000 | | |
| MTV | | | | | | | 1426 | 180000 | | |
| MTV | | | | | | | 578 | 180000 | | |
| MTV | | | | | | | 1003 | 180000 | | |
| BEL | | | | | | | 394 | 180000 | | |
| | | | | | | | 3570 | 180000 | | |
| | | | | | | | 1876 | 180000 | | |
| | | | | | | | 625 | 180000 | | |
| | | | | | | | 1 | 180000 | | |
| | | | | | | | | 100000 | | |
| | OVERHEAD PRIMARY REPLACEMENTS | | | | | | | | | |
| 155 | [redacted] | | | 1467 | | | | | | |
| 108 | | | | | | | | | | |
| 271 / 291 | | | | | | | | | | |
| 245 | | | | | | | | | | |
| 155 | | | | | | | | | | |
| 155 / 159 | | | | | | | | | | |
| 138 | | | | | | | | | | |
| 228 | | | | | | | | | | |
| 271 | | | | | | | | | | |
| | [redacted] | | | | | 300 | | | | |
| | [redacted] | | | | | 507 | | [redacted] | | |
| | | | | | | 650 | | | | |
| | [redacted] | | | | | | | | | |
| | [redacted] | | | | | 1874 | | | | |
| | | | | | | 1584 | | | | |
| | | | | | | 501 | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 147 / 148<br>902 / 903 | [redacted]<br>misc. / estimates | | | | | | [redacted] | | | |
| ESTL<br>AIP | **LIGHTNING PROJECTS**<br>[redacted] | | | | | | | | 512<br>1700 | 60000<br>250000 |
| 271 | **ADD'L WORST PERFORMING CIRCUITS**<br>Waterloo - New Hanover - R94271<br>[redacted] | | 250 | | | 250<br>250 | [redacted] | | 250<br>250 | $ 20,000 |
| | | | | | | | [redacted] | | 507 | |
| 150 | Centralia - K27150<br>[redacted] | | | | | | | 40000 | 504 | |
| 140 | Mt. Vernon - J14140<br>[redacted] | | | | | | [redacted] | | | |
| 915 | Chester - K32915<br>[redacted] | | | | | | [redacted] | | 310 | |
| | | | | | | | | | 100 | |
| 118 | Belleville - J86118<br>[redacted] | | | | | | [redacted] | | 340 | |
| 307-4 | ESL French Village 307004<br>[redacted] | | | | | | 80000 | | 385 | |
| | 2008 additional feeder work estimate | | | | | 108,182<br>50,300 | 30000 | | 200 | |
| TOTALS | | | | | | | | | | 300000 |
| | | 1717 | 83,000 | 0 | 3612 | 608,544 | 221,000 | 39813 | 2,950,000 | 610,000 |

## Tap Fusing

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| ESTL | Division VI AmerenIP had no Tap Fusing program in 2005. | 0 | $ 163,427 | | 8955 | $ 220,011 | | 6422 | $ 220,000 | |
| P58-155 | Circuits were defined by RE group and worked additional fusing on breakoffs in residential area | 800 | $ 54,620 | | 50 | $ 176,606 | | 100 | $ 184,403 | |
| | | | | | | $ 15,000 | | 250 | | |
| TOTALS | | 800 | $ 218,047 | 0 | 9005 | $ 411,617 | 0 | 6772 | $ 404,403 | 0 |

## Multiple Device Interruptions

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Multiple Device Interruptions | 0 | 0 | | 5550 | 100000 | | 5550 | 100000 | |
| TOTALS | | 0 | 0 | 0 | 5550 | 100000 | $ - | 5550 | 100000 | $ - |

# ICC Worst Performing Circuits

ICC Docket Nos. 07-0585 thru -0590 (Cons.)
TEE 21.03 Attach 2 (7 of 8)
1 of 1

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Division will assume a CI avoided of approximately 3000 for identified 2004 WPC's after performing corrective action in 2005 | 3000 | | | | | | | | |
| | ***2005 WPC' included:*** | | | | | | | | | |
| | **Belleville** - Q18256, Q95248, R94271, J84124, J83139, J98101, J88165, K15205 | | 22000 | | | | | | | |
| | **Sparta** - K32915 | | 12000 | | 3196 | | | | | |
| | **Mt. Vernon** - P58155, Q27186 | | 6000 | | 500 | | | | | |
| | ***2006 WPC's include:*** | | | | 1651 | | | | | |
| | **Belleville** | | | | | | | | | |
| [redacted] | | | | | 27885.07 | | | 2956 | | |
| | | | | | 34835.3 | | | | | |
| | | | | | 7064.27 | | | | | |
| | | | | | 7796.83 | | | | | |
| | | | | | 23109.7 | | | | | |
| | | | | | 2745.79 | | | | | |
| | | | | | 587.41 | | | | | |
| | | | | | 32658.81 | | | | | |
| | | | | | 75820.65 | | | | | |
| | | | | | 18911.95 | | | | | |
| | | | | | 7513.86 | | | | | |
| | | | | | 28755.7 | | | | | |
| | | | | | 68508.83 | | | | | |
| | | | | | 4000 | | | | | |
| | | | | | 21000 | | | | | |
| | | | | | 6000 | | | | | |
| | | | | | 3000 | | | | | |
| | | | | | 12000 | | | | | |
| | **East St. Louis** | | | | | | | | | |
| [redacted] | | | | | 27300 | | | | | |
| | | | | | 9400 | | 3461 | | | |
| | | | | | 20100 | | | | | |
| | | | | | 32000 | | | | | |
| | | | | | 3800 | | | | | |
| | | | | | 17500 | | | | | |
| | | | | | 21100 | | | | | |
| | | | | | 8200 | | | | | |
| | | | | | 15700 | | | | | |
| | ***2007 WPC's (estimated cost)*** | | | | | | | | | |
| TOTALS | | 3000 | 40000 | 0 | 5347 | 537294.2 | 0 | 6417 | 100000 | |

## Customers Exceeding ICC Reliability Targets

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| | CET | 0 | 0 | | 0 | 128000 | | 3000 | 130000 | |
| | Divisioin VI has 64 circuit to review | | | | | | | | | |
| | **Operations** | | | | | | | | | |
| | [redacted] | | | | | | | | | |
| | **Forestry** | | | | | | | | | |
| | [redacted] | | | | | | | | | |
| | **ESL** | | | | | | | | | |
| | [redacted] | | | | | | | | | |
| TOTALS | | 0 | 0 | 0 | 0 | 128000 | 0 | 3000 | 130000 | 0 |

## Circuit & Device Inspections

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Circuit and Device Inspections | 870 | $ 950,000 | | 870 | $1,136,927 | | 870 | $1,400,000 | |
| TOTALS | | 870 | $950,000 | $0 | 870 | $1,136,927 | $0 | 870 | $1,400,000 | $0 |

# Underground Cable Replacement

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Division VI had no allocated budget for underground replacements in 2005. However, we did perform a few replacements in areas experiencing multiple underground failures. We feel that we avoided approximately 300 CI in 2006 by these replacements. | 300 | | | | | | | | |
| | ***2006 Underground replacements*** | | | | | | | | | |
| | Covered Bridge (4 spans = 1200') | | $ 45,000 | | | | | | | |
| | Countryside Dr, Ofallon (1 span = 250') | | $ 10,000 | | $ 100 | | | | | |
| | Lisa Ln, Smithton (2 spans = 850') | | $ 35,000 | | $ 50 | | | | | |
| | Salem Airport (1 span = 1000') | | $ 40,000 | | $ 50 | | | | | |
| | Huntwood Ct. (1 span = 400') | | $ 16,000 | | $ 50 | | | | | |
| | misc. | | $ 20,441 | | $ 50 | | | | | |
| | ***2007 Underground replacements*** | | | | $ 75 | | | | | |
| [redacted] | | | | | | 12800 | | | | |
| | | | | | | 57564 | | 25 | | |
| | | | | | | 59500 | | 200 | | |
| | | | | | | 97111 | | 250 | | |
| | | | | | | 5000 | | 100 | | |
| | | | | | | 25000 | | 100 | | |
| | | | | | | | | 200 | | |
| | | | | | | 80000 | | | | |
| | | | | | | 15000 | | 150 | | |
| | | | | | | 40000 | | 40 | | |
| | | | | | | 35000 | | 50 | | |
| | | | | | | 3500 | | 50 | | |
| | | | | | | 7700 | | 1 | | |
| | ***2008 Underground replacements*** | | | | | | | | 7700 | |
| [redacted] | | | | | | | | | 200000 | |
| | | | | | | | | 20 | 10500 | |
| | | | | | | | | 50 | 10000 | |
| | | | | | | | | | 8000 | |
| TOTALS | | 300 | $166,441 | $0 | 375 | $438,175 | $0 | 1236 | $236,200 | $0 |

# Tree Trimming

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| | 2007 and 2008 CI reduction of 550 due to prescriptive trim - 1 feeder outage. | | 80000 | | 550 | 80,000 | | 550 | 80000 | |
| | 2006 thru 2008 CI reduction due to change in cycle length and trimming entire feeder every cycle = 1000 CI | 1,000 | 367000 | | 1000 | 446,000 | | 1000 | 446000 | |
| | Back ground information:<br>We discovered that in 2002 several feeders were not trimmed in their entirety in 2002. I believe this explains the spike in tree caused outages by device.<br>The device or taps on these circuits would have 7 years tree growth on them in year 2005. We began trimming these circuits in late 2005 and thru the year in 2006. I believe this accounts for the reduction in CI for tree caused outages.<br>We still have a few of these circuits to trim in the remainder of 2006.<br>Overall this should reduce the average CI for device reclosure by 1000 CI going forward for years 2006 thru 2008 | | | | | | | | | |
| TOTALS | | 1,000 | $447,000 | $0 | 1,550 | $526,000 | $0 | 1,550 | $526,000 | $0 |

## Substation Upgrades

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| | ***2005*** | | | | | | | | | |
| | Install animal fence at Aviston Sub | 2178 | | | | | | | | |
| | ***2006*** | | | | | | | | | |
| | Upgraded high side fuses at Seven Hills Sub to coordinate feeder protection | | 12000 | | | | | | | |
| | Install fence and animal guard circuits at Pleasant St.Sub in Centralia | | 10000 | | 3222 | | | | | |
| | Added high side LA's to Transformer #1 at 74th St. Sub | | 8000 | | 2583 | | | | | |
| | East Belleville transformer #4 animal guarding | | 6000 | | 1644 | | | | | |
| | High side fuses on transformer #3 at 8th St. Sub upgraded | | 7000 | | 3625 | | | | | |
| | Animal Guarding at Aviston Sub | | 10000 | | 2483 | | | | | |
| | Animal guard transformer #2 at Pontiac Sub | | 4000 | | 2178 | | | | | |
| | Animal guard circuit position 241 at Pontiac Sub | | 4000 | | 2091 | | | | | |
| | Animal guard circuit position 910 at South Red Bud Sub | | 4000 | | 2124 | | | | | |
| | ***2007*** | | | | 360 | | | | | |
| | [redacted] | | | | | | | | | |
| | | | | | 2500 | | | | | |
| | | | | | 4000 | | 938 | | | |
| | | | | | 5000 | | 938 | | | |
| | | | | | 20595 | | 640 | | | |
| | | | | | 1000 | | 1162 | | | |
| | | | | | 17888 | | 2187 | | | |
| | | | | | 24788 | | 1312 | | | |
| | | | | | 25980 | | 2708 | | | |
| | | | | | 26276 | | 6406 | | | |
| | | | | | 26,000 | | 938 | | | |
| | | | | | 5,000 | | 5734 | | | |
| | | | | | 8,000 | | | | | |
| | | | | | 12,000 | | | | | |
| | | | | | 5,000 | | | | | |
| | | | | | 12,000 | | | | | |
| | ***2008*** | | | | | | | | | |
| TOTALS | | 2178 | 65000 | 0 | 20310 | 196027 | 0 | 22963 | 0 | 0 |

# 2007 Reliability Action Plan Performance Report
## DIVISION VII
1/9/2008

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Division Responsibility | | | | | | | | | | |
| | 12 | 12 | 100.0% | 11 | 10 | 90.9% | | | 2,118 | 4,177 |
| | 59 | 59 | 100.0% | 59 | 59 | 100.0% | | | 575 | 1,693 |
| | 54 | 54 | 100.0% | 9 | 9 | 100.0% | | | - | 801 |
| | 2 | 2 | 100.0% | 2 | 2 | 100.0% | | | 975 | - |
| | 0 | 0 | N/A | 0 | 0 | N/A | | | - | - |
| | 597 | 590 | 98.8% | 9 | 9 | 100.0% | | | 870 | 436 |
| | | | | 14 | 14 | 100.0% | | | - | - |
| | | | | 14 | 13 | 92.9% | | | 3,136 | 1,219 |
| EDTS Responsibility | | | | | | | | | | |
| | 9 | 9 | 100.0% | 292 | 403 | 138.0% | | | 75 | 75 |
| | 5 | 5 | 100.0% | 3 | 3 | 100.0% | | | - | - |
| | | | | 5 | 5 | 100.0% | | | - | 1,953 |
| | 34 | 33 | 97.1% | 807 | 768 | 95.2% | | | - | - |
| | | | | | | | | | - | - |
| Subtotal Division | | | | | | | $ - | $ - | 7,674 | 8,326 |
| Subtotal EDTS | | | | | | | $ - | $ - | 75 | 2,028 |
| Total | | | | | | | $ - | $ - | 7,749 | 10,354 |
| Projected CI Avoided | | | | | | | | | 7,749 | 10,354 |
| CI Required to Achieve Target | | | | | | | | | 950 | 950 |
| Variation - Plan to Target | | | | | | | | | 6,799 | 9,404 |
| Net CI Difference | | | | | | | | | 11,026 | 20,430 |
| Division SAIFI Target | | | | | | | | | 1.19 | 1.18 |

# Division VII Reliability Action Plan thru 2008

| Project | 2006 CI est reduction | 2006 current budget | 2006 Budget increase needed to meet target | 2007 CI est reduction | 2007 current budget | 2007 Budget increase needed to meet target | 2008 CI est reduction | 2008 current budget | 2008 Budget increase needed to meet target |
|---|---|---|---|---|---|---|---|---|---|
| Circuit Improvement Projects | 2118 | $151,492 | $0 | 2,118 | $681,280 | $0 | 4,177 | $751,578 | $0 |
| Tap Fusing | 38 | $86,595 | $0 | 575 | $227,343 | $0 | 1693 | $23,558 | $0 |
| Multiple Device Interruptions | 0 | $0 | $0 | 0 | $10,040 | $0 | 801 | $27,071 | $0 |
| ICC Worst Performing Circuits | 0 | | | 975 | $ 310,000 | | 0 | | |
| Customers Exceeding ICC Reliability Targets | 0 | $0 | $0 | 0 | $0 | $0 | 0 | $0 | $0 |
| Inspections & Repairs | 967 | $289,897 | $500,000 | 870 | $291,975 | $0 | 436 | $736,756 | $0 |
| UG Cable Replacement | 2054 | $106,805 | $250,000 | 3136 | $719,889 | $0 | 1219 | $268,549 | $0 |
| Tree Trimming | 0 | $0 | $0 | 75 | $0 | $0 | 75 | $0 | $0 |
| Substation Upgrades | 0 | $0 | $0 | 0 | $0 | $150,000 | 1953 | $0 | $0 |
| CI reduction savings | 5,177 | $634,789 | $750,000 | 7,749 | $2,240,527 | $150,000 | 10,354 | $1,807,512 | $0 |
| CI gap | 950 | | | 950 | | | 950 | | |
| Division SAIFI Target | 1.20 | | | 1.19 | | | 1.18 | | |

# Circuit Improvement Projects

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. | 2009 CI Saved |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SECTIONALIZING BACKBONE** | | | | | | | | | | |
| | **ANIMAL GUARDING** | | | | | | | | | | |
| | Division VII has no projects designed nor awaiting construction at this time. | | | | | | | | | | |
| | **SUB-TRANSMISSION PROJECTS** | | | | | | | | | | |
| S84-710 | W.O. 15342 | 2118 | $151,492 | | 2118 | $0.00 | | 2118 | $677,772 | | |
| | Expenditures for 2008 are spread as $296,943 in AmerenCIPS operating company plus $380,828 in AmerenIP operating company. Multi-year project includes, strengthening lattice towers, adding dampers, painting towers, providing emergency source and sectionalizing capability to eliminate maintenance outages. C.I. savings is estimated to be one less permanent outage each year for all Division VII customers on the feeder. This C.I. savings is totally attributable to the Muddy 69KV upgrade since inception in 2005. | | | | | | | | | | |
| S01-726 | W.O. 21743 Texas Eastern Pipeline 69KV (TEPPCO) (Project is under way) | | | | | $518,000.00 | | | 1 | | |
| | This project was the result of a thorough pole test in the Spring of 2007. Originally budgeted for 2008, it has been agreed to bring this project forward due to very positive budget results. This project scored well (S.A.C.F. & I.S.P.) even though the C.I. savings is 1, as this dedicated 69KV line serves a large pipeline station. | | | | | | | | | | |
| | **DISTRIBUTION AUTOMATION** | | | | | | | | | | |
| S06-263 | Whittington Jct. Remote switch | | $0 | 0 | | $26,000 | | | 307 | | |
| S48-273 | East Herrin Remote switch | | | 0 | | $26,000 | | | 1060 | | |
| T06-203 | Thompsonville-Galatia Remote switch | | | 0 | | $26,000 | | | 467 | | |
| | **N.E.S.C. PROJECTS** | | | | | | | | | | |
| S09-520 | Bush -- RR Crossing upgrade (4sha249240; comp 6/11/07) | | | | | $1,320 | | | 0 | | |
| T23-527 | Goreville -- RR Crossing upgrade(4sha250312; comp 9/26/07) | | | | | $2,240 | | | 0 | | |
| T06-539 | West Frankfort -- RR Crossing upgrade(4sha250556) | | | | | $2,240 | | | 0 | | |
| S61-583 | Marion -- RR Crossing upgrade(4sha250937; comp 11/07/07) | | | | | $2,240 | | | 0 | | |
| S61-581 | Marion -- RR Crossing upgrade(4sha250938; comp 11/09/07) | | | | | $2,240 | | | 0 | | |
| | **DISTRIBUTION CIRCUITS W/ S.A.I.F.I. > 2.0 (Lieberman Circuits)** | | | | | | | | | | |
| S21528 | **CARRIER MILLS, SOUTH** | | | | | | | | | | |
| | Tap Fusing(cost & C.I. savings included in tap fusing tab) | | | | | | | | | | |
| | Mid-Cycle trimming completed January, 2007 | | | | | | | | | | |
| S92557 | **NEW HAVEN OIL** | | | | | | | | | | |
| | Mid-Cycle trimming planned for 2007 | | | | | | | | | | |
| S27598 | **COBDEN, SOUTH** | | | | | | | | | | |
| | Mid-Cycle trimming completed March, 2006 | | | | | | | | | | |
| | Maintenance trimming planned for 2007 | | | | | | | | | | |
| S47576 | **HERRIN** | | | | | | | | | | |
| | Replace six defective poles (D.O.J.M. 4sha250088; comp10/24/2007) | | | | | | | | | | |
| | Mid-Cycle trimming completed July, 2006 | | | | | | | | | | |
| S16596 | **CARBONDALE, WEST** | | | | | | | | | | |
| | Completed maintenance trim in January, 2007 | | | | | | | | | | |
| S20555 | **CARRIER MILLS** | | | | | | | | | | |
| | Mid-Cycle trimming completed January, 2007 | | | | | | | | | | |
| S27599 | **COBDEN, SOUTH** | | | | | | | | | | |
| | Mid-Cycle trimming completed April, 2006 | | | | | | | | | | |
| | Maintenance trimming planned for 2007 | | | | | | | | | | |
| S86580 | **MURPHYSBORO** | | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Install tap fuses (4sha248882) (Project complete) | | | | | | | | | | |
| | Install animal guarding (4sha248997) (Project complete) | | | | | | | | | | |
| | Maintenance trimming completed July, 2006 | | | | | 17,000 | | | | | |
| S31532 | **ELKVILLE** | | | | | 8,000 | | 42 | | | |
| | Mid-Cycle trimming completed February, 2007 | | | | | | | 18 | | | |
| S55535 | **JONESBORO** | | | | | | | 0 | | | |
| | Completed maintenance trim in January, 2007 | | | | | | | | | | |
| | **DISTRIBUTION AUTOMATION** | | | | | | | 0 | | | |
| S11-253 | Carbondale, Northwest | | | | | | | | | | |
| S48-272 | Herrin, East | | | | | | | 0 | | | |
| | **OVERHEAD PRIMARY REPLACEMENTS** | Division VII has no projects designed nor awaiting construction at this time. | | | | | | | $36,903 | | 596 |
| | **LIGHTNING PROJECTS** | Division VII has no projects designed nor awaiting construction at this time. | | | | | | | $36,903 | | 564 |
| TOTALS | | 2118 | $151,492 | $0 | 2118 | $661,280 | $0 | 4177 | $751,578 | $0 | 1160 |

# Tap Fusing & Circuit Coordination

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| T06-503 | Fuse un-fused taps | 22 | | | | | | | | |
| T08-501 | Fuse un-fused taps | 16 | | | | | | | | |
| S09-520 | Fuse un-fused taps | | | | 158 | | | | | |
| S47-537 | Fuse un-fused taps | | | | 123 | | | | | |
| S22-594 | Fuse un-fused taps | | | | 59 | | | | | |
| S03-529 | Fuse un-fused taps | | | | 20 | | | | | |
| T06-504 | Fuse un-fused taps | | | | 29 | | | | | |
| S07-535 | Fuse un-fused taps | | | | 1 | | | | | |
| S14-509 | Fuse un-fused taps | | | | 75 | | | | | |
| S86-594 | Fuse un-fused taps | | | | 42 | | | | | |
| T22-507 | Fuse un-fused taps | | | | 26 | | | | | |
| T22-508 | Fuse un-fused taps | | | | 42 | | | | | |
| | **2007 CIRCUITS** | | | | | | | | | |
| ANNA | 13 Circuits, 58 un-fused taps | | | | | | | 360 | | |
| BENTON | 12 Circuits, 75 un-fused taps | | | | | | | 325 | | |
| C'DALE | 10 Circuits, 53 un-fused taps | | | | | | | 311 | | |
| H'BURG | 8 Circuits, 59 un-fused taps | | | | | | | 301 | | |
| MARION | 15 Circuits, 62 un-fused taps (completed 9/27/2007) | | | | | | | 289 | | |
| MTV | 1 Circuit, 18 un-fused taps | | | | | | | 107 | | |
| TOTALS | | 38 | $86,595 | 0 | 575 | $227,343 | 0 | 1693 | $23,558 | |

## Multiple Device Interruptions

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| S64-501 | Re-sized fuses. July, 2007 | | | | | 500 | | 2 | | |
| S64-501 | Replaced b.o. arrester. June, 2007 | | | | | 250 | | 2 | | |
| S62-522 | Replace six cable sections of URD cable. C.I. savings and costs included under URD replacements tab. August, 2007 | | | | | 0 | | 0 | | |
| S88-583 | Replaced box cutouts. August, 2007 | | | | | 750 | | 41 | | |
| S88-583 | Re-sized fuses. September, 2007 | | | | | 500 | | 41 | | |
| M09-175 | Replace crossarm, insulators, fused disconnect. Repair grounds. September, 2007. | | | | | 1300 | | 545 | | |
| T06-503 Sep-07 | Replace five cable sections in 3-phase looped commercial development. C.I. savings and costs included under URD replacements tab. | | | | | 0 | | 0 | | |
| M09-143 | Install additional lightning protection, animal guarding, revise fusing scheme. November,2007 | | | | | 2100 | | 44 | | |
| M09-144 | Replace pole & crossarm, install add'l fusing, lightning protection, & animal guards. Improve guying and clearance. November, 2007 | | | | | 5390 | | 130 | | |
| TOTALS | | 0 | 0 | 0 | 0 | 10040 | 0 | 801 | 27071 | 0 |

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| | **ICC WORST PERFORMING CIRCUITS** | | | | | | | | | |
| T11-508 | 73.5 crew hours of small projects in Cypress C.I. savings of 178 represents the prevention of one permanent feeder outage (3 occurred during 2005, making this a W.P.C.)<br>4sha246930: Guying<br>4sha246931: Fusing<br>4sha246932: Gen. clean-up, i.e., guy guards, etc.<br>4sha246933: b.o. poles<br>4sha246935: b.o. pole<br>4sha246936: b.o. crossarms | 0 | $3,352 | $0 | 178 | | | | | |
| T03-503 | **WEST FRANKFORT / PERSHING**<br>April, 2006 Major Storm recovery (4sha244698)<br>Replace b.o. ug at shopping cntr (4sha247294)<br>Aug., 2006 Minor Storm recovery (4sha246308) | | 252,000<br>23,400<br>45,600 | 0<br>14<br>167 | | | | | | |
| S34-527 | **GALE** (Project complete)<br>Replace 18 poles, two double-arms, roll conductor for mid-span clearance, additional fusing.<br>Specific work order 21616; D.O.J.M. 4sha248847 | | | 616 | | 310,000 | | | | |
| Total | | 0 | | 975 | $ | 310,000 | | 0 | | |

## Cust Exceeding ICC Reliability Targets 3 consecutive years

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| TOTALS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Division VII has no customers meeting this criteria at this time.

## Inspections & Repairs

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| S01-722 | W.O. 15452 Pole replacements in Anna to Ohio River | 967 | | | | | | | | |
| S35-717<br>S28-226<br>T06-203<br>S84-211<br>S10-281 | 65 P1 and P2 pole replacements on five different sub-transmission circuits. | | $289,897 | $500,000 | 870 | | | | | |
| Div. VII | Carrier Mills, Benton 34kv line#312<br>On-going circuit inspections<br>F.O.D.R. Reports | | | | | $291,975 | | 436 | | |
| | Utilimap completed groundline inspection of 33 of 34 circuits in 2007. Our Texas Eastern line was deleted as there was a pole replacement project underway. | | | | | | | | | |
| Div. VII | Unknown locations, On-going circuit inspections, F.O.D.R. Reports | | | | | | | | 736,756 | |
| TOTALS | | 967 | $289,897 | $500,000 | 870 | $291,975 | $0 | 436 | $736,756 | $0 |

## Underground Cable Replacement

| Circuit | Brief Project Description | 2006 CI Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 CI Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 CI Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| S10-282 | W.O. 17267 Replace buried 34KV cable to U-Mall Sub. C.I. savings equates to 3 permanent outages avoided. | 2054 | | | | | | | | |
| S19-551<br>T22-507<br>S66-593<br>S62-523<br>T06-503 | C.I. savings attributable to six projects to be completed on these five circuits. Sub exit in C'dale, housing dev. In C'dale, shopping center in W.F., shopping center in Marion, Ind. Park in Marion, back-bone feeder section in Marion. | | $106,805 | $250,000 | 3114 | | | | | |
| S66-593 | Marion Plaza Shopping center in Marion (complete) | | | | | | | | | |
| S66-594 | Substation feeder exit at West Marion Substation (complete) | | | | | | | | | |
| S66-593 | Town & Country Shopping Center in Marion (complete) | | | | | | | | | |
| T06-503 | West Frankfort - Agree S.S. (4sha250208; complete) | | | | | | | | | |
| S62-522 | Carriage Hills Subdiv. Marion (W.O. 22654; completed 8/20/07) | | | | 22 | | | | | |
| | Murphysboro -- Sandra Court (4sha249784; complete) | | | | | 49802 | | | | |
| | Grand Tower -- Scatters Road (4sha249793, complete) | | | | | 18497 | | | | |
| S61-529 | Murphysboro -- Suburban Drive (4sha249814; complete) | | | | | 92611 | | 22 | | |
| T16-527 | Marion -- Shawnee Apartments (4sha250081; complete) | | | | | 69667 | | 290 | | |
| S64-502 | Herrin -- Three-phase ug to Animal Hospital (4sha250086; complete) | | | | | 25496 | | 28 | | |
| S10-283 | Marion -- Kay-Lou Trailer Court (4sha250598; comp 11/20/07) | | | | | 28833 | | 11 | | |
| | Carbondale -- 34 KV to S.I.U. (4sha250721/W.O.22901; in progress; 2/01/2008 exp. completion) | | | | | 9329 | | 132 | | |
| | Energy -- Replace 1 ph ug pri to church (4sha251022; complete 11/15/2007) | | | | | 15106 | | 322 | | |
| | Harrisburg -- Red Cedar @ Ozark (4sha249854) | | | | | 6492 | | 118 | | |
| S64-502 | Marion -- New Rte 13 East (4sha251097) | | | | | 6550 | | 216 | | |
| S09-521 | Backbone 500 KCM Al circuit tie in Cambria (2008) | | | | | 21,485 | | 53 | | |
| | Remaining projects for 2008 not yet finalized | | | | | 344,275 | | 2 | | |
| | | | | | | 18,500 | | 17 | | |
| | | | | | | 13246 | | 1 | | |
| | | | | | | | | 1 | | |
| | | | | | | | | 6 | | |
| TOTALS | | 2054 | $106,805 | $250,000 | 3136 | $719,869 | $0 | 1219 | $268,549 | $0 |

34,820
76276
157453

## Tree Trimming

| Circuit | Brief Project Description | 2006 Cl Saved | 2006 Costs | 2006 Add'l Costs Req. | 2007 Cl Saved | 2007 Costs | 2007 Add'l Costs Req. | 2008 Cl Saved | 2008 Costs | 2008 Add'l Costs Req. |
|---|---|---|---|---|---|---|---|---|---|---|
| TOTALS | | 0 | $0 | $0 | 75 | $0 | $0 | 75 | $0 | $0 |