

Docket Nos. 07-0585 – 07-0590 (Cons.)
ICC Staff Group Exhibit 1

TEE 21.04 & all Attach.

AmerenCILCO's, AmerenCIPS', and AmerenIP's
Response to
Illinois Commerce Commission Staff Data Requests
ICC Docket Nos. 07-0585 thru -0590 (Cons.)
Proposed general increase in electric and gas delivery services rates

TEE 21.04 Referring to Ameren Ex. 34.0, p. 6, lines 123 – 125, provide all updates and revisions to each of the Reliability Action Plans that have been made since the filing of these rate cases in November 2007.

Response: See attached spreadsheet, identified as TEE 21.04 Attach 1, which details the changes between the end of month October 2007 and end of month November 2007 Division Reliability Action Plans and the changes between the end of month November 2007 and end of month December 2007 Division Reliability Action Plans. See also the attached October, November and December 2007 files, identified as TEE 21.04 Attach 2 thru Attach 4, which contain the particular monthly snapshots of the Division Reliability Action Plans. Please note that the 2008 Reliability Action plans (files dated April 2008) attached to the Ameren Illinois Utilities' Response to ICC Staff Data Request No. TEE 21.03 (filed concurrently herewith) is a completely new action plan from that of 2007.

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Date: June 2, 2008

Changes to Division Reliability Action Plans - October- December 2007

1	Oct-Nov 2007	CPIP - Sect. Backbone	Court 2 - WR 9NOR052003	Budget increased from \$7,000 to \$12,900 The engineering went from "in progress" to "completed"
1	Oct-Nov 2007	CPIP - Sect. Backbone	Lake 2 - WR 9NOR051668	Project assignment has changed to Dan Urbaniak Budget increased from \$7,000 to \$18,500 The engineering went from "in progress" to "completed"
1	Oct-Nov 2007	CPIP - Sect. Backbone	Northmoor 4	Project assignment has changed to Keith Lowry Project has been dropped stating "no useful application on this circuit" Went from \$7,000 to \$0
1	Oct-Nov 2007	CPIP - Sect. Backbone	Edelstein 212 - WR 9NOR051750	Budget increased from \$7,000 to \$25,800 The engineering went from "in progress" to "completed"
1	Oct-Nov 2007	CPIP - Sect. Backbone	Hailcock 1 - WR 9NOR051898	Project assignment has changed to Steve Honold Budget increased from \$7,000 to \$15,000
1	Oct-Nov 2007	CPIP - Sect. Backbone	Hines 2 - WR 9NOR051781	Project assignment has changed to Steve Honold Budget increased from \$7,000 to \$46,700 The engineering went from "in progress" to "completed"
1	Oct-Nov 2007	CPIP - Sect. Backbone	Radnor 8 - WR 9NOR051670	Project assignment has changed to Keith Lowry Budget increased from \$7,000 to \$21,800 The engineering went from "in progress" to "completed"
1	Oct-Nov 2007	CPIP - Worst Circuit Inspection	Allen 2 Distribution Circuit w/ SAIFI > 2.0 WR 9NOR045785	The engineering went from "in progress" to "completed"
1	Oct-Nov 2007	CPIP - Worst Circuit Inspection	Cherry 124 Distribution Circuit w/ SAIFI > 2.0 WR IPNO019649	The engineering went from "in progress" to "completed"
1	Oct-Nov 2007	CPIP - Total Section (at the bottom)	2007 Cost	Cost increased from \$386,700 to \$548,100
1	Oct-Nov 2007	CPIP - Total Section (at the bottom)	2007 Budget	Budget increased from \$434,300 to \$649,000
1	Oct-Nov 2007	Tap Fusing - At the bottom	Work Request	One more work request completed (went from 81 to 82)
1	Oct-Nov 2007	Mult. Dev. interruption - Bottom	Devices total	Increased from 344 to 359
1	Oct-Nov 2007	Mult. Dev. interruption - Bottom	Reviews Completed Total	Increased from 264 to 290
1	Oct-Nov 2007	Customer Exceeding ICC Target	Oquawka circuit 170 - WR IPNO019469	Construction complete
1	Oct-Nov 2007	Circuit Inspection & Repair	Remaining 3 to be done (M40-131&132, P47-123)	Completed on 11/27/07
1	Nov-Dec 2007	CPIP - Sect. Backbone	Chester 1 - WR 9NOR051866	Budget increased from \$7,000 to \$23,300 The engineering went from "in progress" to "completed"
1	Nov-Dec 2007	CPIP - Sect. Backbone	University 3 - WR 9NOR051868	Budget increased from \$7,000 to \$25,500 The engineering went from "in progress" to "completed"
1	Nov-Dec 2007	CPIP - Sect. Backbone	Lake 2 - WR 9NOR051668	Completed 12/17/07
1	Nov-Dec 2007	CPIP - Sect. Backbone	Hailcock 1 - WR 9NOR051898	Completed 12/27/07
1	Nov-Dec 2007	CPIP - Sect. Backbone	Radnor 8 - WR 9NOR051670	Completed 12/19/07
1	Nov-Dec 2007	CPIP - Total Section (at the bottom)	2007 Cost	Cost increased from \$548,100 to \$678,000
1	Nov-Dec 2007	CPIP - Total Section (at the bottom)	2007 Budget	Budget increased from \$649,000 to \$683,800 Increased from 290 to 317
1	Nov-Dec 2007	Mult. Dev. interruption - Bottom	Reviews Completed Total	The engineering went from "in progress" to "completed"
1	Nov-Dec 2007	Substation improvements	Northwest Subst. circuit 1	Construction complete
1	Nov-Dec 2007	Substation improvements	Northwest Subst. circuit 2	Construction complete
1	Nov-Dec 2007	Substation improvements	Northwest Subst. circuit 3	Construction complete
1	Nov-Dec 2007	Substation improvements	Northwest Subst. circuit 4	Construction complete
1	Nov-Dec 2007	Substation improvements	Northwest Subst. circuit 5	Construction complete
1	Nov-Dec 2007	Substation improvements	Northwest Subst. circuit 6	Construction complete
1	Nov-Dec 2007	Substation improvements	Northwest Subst. circuit 7	Construction complete
1	Nov-Dec 2007	Substation improvements	Northwest Subst. circuit 8	Added - Construction Complete
1	Nov-Dec 2007	Substation improvements	Northwest Subst. circuit 10	Construction complete
1	Nov-Dec 2007	Substation improvements	Northwest Subst. circuit 11	Construction complete

1	Nov-Dec 2007	Substation improvements	Northwest Subst. circuit 12	Construction complete
1	Nov-Dec 2007	Substation improvements	Bush 1	Completed but inadvertently removed from Dec Plan
1	Nov-Dec 2007	Substation improvements	Bush 2	Completed but inadvertently removed from Dec Plan
1	Nov-Dec 2007	Substation improvements	Bush 4	Completed but inadvertently removed from Dec Plan
1	Nov-Dec 2007	Substation improvements	Abingdon Animal Fence	Completed but inadvertently removed from Dec Plan
1	Nov-Dec 2007	Substation improvements	Groveland 2	Added - Construction Complete
1	Nov-Dec 2007	Substation improvements	Groveland 3	Added - Construction Complete
1	Nov-Dec 2007	Substation improvements	Stark 1	Added - Construction Complete
1	Nov-Dec 2007	Substation improvements	Stark 2	Added - Construction Complete
1	Nov-Dec 2007	Substation improvements	Elm Grove 1	Added - Construction Complete
1	Nov-Dec 2007	Substation improvements	Elm Grove 2	Added - Construction Complete
2	Oct-Nov 2007	Tap Fusing	S. Jacksonville - R06212	Went from "Engineered" to "Complete"
2	Oct-Nov 2007	Underground Cable Replacement	Jacksonville, Rolling Acres, N50331	Went from "Engineered" to "Complete"
2	Oct-Nov 2007	Underground Cable Replacement	Marblehead, N V01001	Went from "Engineered" to "Complete"
2	Nov-Dec 2007	Inspection & Repairs - Carried over from 2006	12 CIPS projects	Completed
2	Nov-Dec 2007	Inspection & Repairs - Carried over from 2006	9 IP projects	Completed
2	Nov-Dec 2007	Substation improvements	Animal Fencing	The fences for these remaining three were bought in 2007 and will be installed in the 1st quarter 2008
3	Oct-Nov 2007	CPIP - Sect. Backbone	M18131 & L17101	Only one set of OCR's was required and it is COMPLETE
3	Oct-Nov 2007	CPIP - Overhead Primary Replacements	Springfield - Reconnector a section of Mansfield 4 with excessive loading and aging equipment along Old Jacksonville Rd west of Springfield. (project split into two parts because of increased material costs)	
3	Oct-Nov 2007	CPIP - Lightning Project	C30002	(part 1 - 9sou018622, COMPLETED 2007)
3	Oct-Nov 2007	CPIP - Distribution Automation	Bloomington - L3428	(9sou019359). Project will be complete by 12/31/07
3	Oct-Nov 2007	CPIP - Distribution Automation	Springfield	(anticipated all line, sub and relay work will be completed by year end)
3	Oct-Nov 2007	CPIP - Distribution Circuits with SAIFI > 2.0	Burt 1	(DOJM 9sou020298, 9sou020688 - construction will be complete by 12/31/07)
3	Oct-Nov 2007	Multi. Dev. Interruption	Lincoln - Replace & straighten poles on Mt Pulaski 2 near Chestnut	Removed project after determining scope would not significantly improve reliability.
3	Oct-Nov 2007	ICC Worst Performing Circuits	Lincoln - Van Cleave 1 - wr 9sou018097	(9sou018662, COMPLETED 2007)
3	Oct-Nov 2007	Underground Cable Replacement	Bloomington Circuit 173	Project will be complete by 12/31/07
3	Nov-Dec 2007	CPIP - Distribution Automation	Springfield	7/11/07 - DOJM IPNO 019963 Status 60 - 95% complete-11/7/07
3	Nov-Dec 2007	CPIP - Distribution Circuits with SAIFI > 2.0	Hayworth 3	STATUS 60, COMPLETION DELAYED BY PROBLEMS WITH RECLOSER BUSHINGS
3	Nov-Dec 2007	Tap Fusing	Springfield 2008 - Riverton 2	Hayworth 3 has been broken down into three parts, No changes in figures
3	Nov-Dec 2007	Tap Fusing	Springfield 2008 - Dorian 2	Sent to Construction
3	Nov-Dec 2007	Tap Fusing	Springfield 2008 - Mansfield 2	2008 cost went from 2,500 to 1,550
3	Nov-Dec 2007	Tap Fusing	Lincoln 2008 - Kickapoo 4	Sent to Construction
3	Nov-Dec 2007	Tap Fusing	Lincoln 2008 - Limit 17	2008 cost went from 1,250 to 1,450
3	Nov-Dec 2007	Tap Fusing	Lincoln 2008 - San Jose 2	Sent to Construction - Waiting for county permit
3	Nov-Dec 2007	Tap Fusing - Total at the bottom	"2008 cost column"	2008 cost went from 1,250 to 3,150
3	Nov-Dec 2007	ICC Worst Performing Circuits	"2008 Additional Cost Request"	Sent to Construction
3	Nov-Dec 2007	ICC Worst Performing Circuits - Total	Lincoln - Van Cleave 1 - wr 9sou018097	2008 costs : \$3,150
3	Nov-Dec 2007	Underground Cable Replacement	Circuit #221	cancelled - identified taps already adequately fused
4	Oct-Nov 2007	CPIP	Bloomington - Circuit 173 - Broadmoor Subdivision Install 34.5KV LA on Pana-Assumption-Moweaqua - Owaneco [added to sheet 12/7/07]	Sent to Construction 2008 costs : \$1,450 Went from \$5,000 to \$9,500 Went from \$6,250 to \$0 COMPLETED 12/27/07 Number of CI saved in 2008 went from 7839 to 0 Decreased from 8355 to 516 COMPLETE 2008 CI saved increased by 375

4 Oct-Nov 2007	CIPI - Total Section (at the bottom)	CI Saved in 2008		Increased from 8,968 to 9,343
4 Oct-Nov 2007	Inspection & Repairs	CIPs by local 702		From 63 to 79 inspection completed
4 Oct-Nov 2007	Inspection & Repairs	IP by local 51		From 20 to 22 inspection completed
4 Oct-Nov 2007	Substation improvements	Aggressively set portables for maintenance, SW Campus & Mattroon 12th		2007 & 2008 Add'l Costs Req. Reduced to 0
4 Oct-Nov 2007	Substation improvements - CIPS	Charleston Hayes St, Charleston 5 EU, and Charleston East		New
4 Oct-Nov 2007	Substation Improvement - Dist. Auto.	Sibley - Conversion & 69KV SCADA switches		Necessary for circuit reliability project
4 Nov-Dec 2007	Substation improvements - IP	Weedman @		Bought in 2007; to be installed 1st quarter 2008.
4 Nov-Dec 2007	Substation improvements - IP	Liberty Lane (D)		Bought in 2007; to be installed 1st quarter 2008.
4 Nov-Dec 2007	Substation improvements - IP	Hazel St. (D)		Bought in 2007; to be installed 1st quarter 2008.
4 Nov-Dec 2007	Substation improvements - CIPS	Mattroon 12th St		Bought in 2007; to be installed 1st quarter 2008.
5 Oct-Nov 2007	Substation Improvements	Maryville		Animal guard Kate St sub complete 11-21-2007
5 Oct-Nov 2007	Substation Improvements	Maryville		Animal guard East Alton Bell St sub complete 11-21-2007
5 Nov-Dec 2007	NO CHANGE BETWEEN NOV and DEC 07	NO CHANGE BETWEEN NOV and DEC 07		NO CHANGE BETWEEN NOV and DEC 07
6 Oct-Nov 2007	CPIP - Sect. Backbone	Add OCR's on Ckt 108 (028554)		Completed
6 Oct-Nov 2007	CPIP - Sect. Backbone	Add OCR's on Ckt 124 (032086)		Completed
6 Oct-Nov 2007	CPIP - Overhead Primary Replacements	Create circuit tie between New Hanover and Waterloo Subs (026816)		310,000 switched from the 2007 cost column to 2008 CI saved?!
6 Oct-Nov 2007	CPIP - Overhead Primary Replacements	Replace 10 spans of Hendrix on Dartmouth, O'Fallon (000687)		Completed
6 Oct-Nov 2007	CPIP - Additional worst performing ckt.	035157 - Maintenance work found on patrol		Completed
6 Oct-Nov 2007	CPIP - Total Section (at the bottom)	2007 cost column		Since 310,000 switched from 2007 cost column to 2008 CI saved
6 Oct-Nov 2007	CPIP - Total Section (at the bottom)	2008 CI saved		Since 310,000 switched from 2007 cost column to 2008 CI saved
6 Oct-Nov 2007	ICC Worst Performing Circuits	Belleville IPMS032086		Completed
6 Oct-Nov 2007	ICC Worst Performing Circuits	Belleville IPMS028554		Completed
6 Oct-Nov 2007	ICC Worst Performing Circuits	Belleville IPMS000687		Completed
6 Oct-Nov 2007	Customer Exceeding ICC Target - Forestry	BEL ckt 164 (wo21710)		Completed
6 Oct-Nov 2007	Customer Exceeding ICC Target - Forestry	BEL ckt 255 (wo217130)		Completed
6 Oct-Nov 2007	Customer Exceeding ICC Target - Forestry	BEL ckt 249 (wo21709)		Completed
6 Oct-Nov 2007	Substation Improvements - 2007	Install spinners on lines coming into Marissa Sub (IPMS036000)		Completed
6 Oct-Nov 2007	Substation Improvements - 2007	Install spinners on lines coming into Pinckneyville Sub (IPMS036004)		Completed
6 Oct-Nov 2007	Substation Improvements - 2007	Install spinners on lines coming into East Belleville Sub (IPMS035959)		Completed
6 Oct-Nov 2007	Substation Improvements - 2007	Install spinners on lines coming into Ashley Sub (IPMS036006)		Completed
6 Oct-Nov 2007	Substation Improvements - 2007	Install spinners on lines coming into Marikroil Sub (IPMS035958)		Completed
6 Nov-Dec 2007	CPIP - Overhead Primary Replacements	Create circuit tie in Mt. Vernon - dojrn 026393		Completed
6 Nov-Dec 2007	ICC Worst Performing Circuits	Belleville IPMS031240 (NESC)		Completed
6 Nov-Dec 2007	Customers Exceeding ICC Target - Operations	ckt 138 (036176) Ins. Stringers and Animal Guards		Completed
6 Nov-Dec 2007	Customers Exceeding ICC Target - Operations	ckt 166 (036180) Replace Pole		Completed
6 Nov-Dec 2007	Customers Exceeding ICC Target - Operations	ckt 241 (036272) animal guard		Completed
6 Nov-Dec 2007	Customers Exceeding ICC Target - ESL	332-002 (038450) Fuse tap		Completed
6 Nov-Dec 2007	Customers Exceeding ICC Target - ESL	332-003 (038451) Misc. items		Completed
6 Nov-Dec 2007	Customers Exceeding ICC Target - ESL	337-001 (038452) misc. items		Completed
6 Nov-Dec 2007	Underground Cable Replacement - 2007	Install 3 phase loop and replace failed 3 phase UG (Rose Ln, Mt. Vernon) (033091)		Completed
6 Nov-Dec 2007	Underground Cable Replacement - 2007	Replace failed UG cable; Dellwood and Prairie Ln., Sparta (033615)		Completed
7 Oct-Nov 2007	Underground Cable Replacement - 2007	Marion - Kay-Lou Trailer Court (4sha250598)		Completed 11/20/07
7 Oct-Nov 2007	Underground Cable Replacement - 2007	Marion - New Rte 13 East (4sha251097)		Added
7 Oct-Nov 2007	Underground Cable Replacement - Total	2007 costs		Have increased from \$706,643 to \$719,889
7 Oct-Nov 2007	Underground Cable Replacement - Total	2008 CI saved		Have increased from 1213 to 1219
7 Oct-Nov 2007	Underground Cable Replacement - Total	2008 Costs		Have decreased from \$269,751 to \$268,549
7 Nov-Dec 2007	ICC Worst Performing Circuit	GALE Project		Project Complete
7 Nov-Dec 2007	Inspection and Repairs	Ultimap - Inspection of 34 circuits		Completed groundline inspection of 33 of 34 circuits in 2007. Our Texas

7	Nov-Dec 2007	Underground Replacement Cables	Carbondale
Eastern line was deleted as there was a pole replacement project underway.			2/01/2008 expected completion

2007 Reliability Action Plan Cost Summary

	2007 Cost		2007 Budget		2008 Budget	
Circuit Performance Improvement Projects		\$386,700	\$434,300	\$384,000		
Tap Fusing		\$89,900	\$91,100	\$26,000		
Multiple Device Interruptions		\$24,300	\$48,000	\$48,000		
ICC Worst Performing Circuits		\$46,400	\$46,400	\$251,000		
Customers Exceeding Reliability Targets			\$181,300	\$10,000		
Circuit Inspections & Repairs			\$100,000	\$100,000		
Device Inspections & Repairs		\$71,300	\$117,000	\$117,000		
URD Cable Replacements		\$763,700	\$1,000,000	\$1,000,000		
Vegetation management - Tree Trimming						
Vegetation management - Multiple Device Interruptions						
Substation Improvements		\$7,500				
Substation maintenance						
S&RM - Circuit Inspections						
Totals		\$1,389,800	\$2,018,100	\$1,936,000		

Project Substation No.	Project Name	Circuit	Description	2007 Cost	2007 Budget	Engineering status	Construction status	Prior Year CI	2006 CI savings	2007 CI savings	2008 CI savings	Total Feeder Outages from 1/1/04 thru 8/1/06	Average Annual Feeder Outages	Average CI per Feeder	Potential CI Improvs
		Worst Circuits													
		Gales 205	Lightning			2006 project - completed in 2006	completed in 2006	614	154						
		2006 Project	Animal					137	34						
			OH Equipment					228	57						
			Wind					237	59						
									0						
		Gales 135	Lightning			2006 project - completed in 2006	completed in 2006	508	127						
		2006 Project	Animal					59	15						
			OH Equipment					166	42						
			Wind					362	91						
		Gales 129	Lightning			2006 project - completed in 2006	completed in 2006	106		27					
		2006 Project	Animal					172		43					
			OH Equipment					383		96					
			Wind					20		5					
										0					
		LaSalle 281	Lightning			2006 project - completed in 2006	completed in 2006	33		8					
		2006 Project	Animal					701		175					
			OH Equipment					134		34					
			Wind					0		0					
1	RADNOR	D69002	Underground main line connector failures	\$22,700	\$22,700	engineering completed	construction completed 10/19/07	1240		1240					
			Connections replaced												
			Old overhead line failures, trees, and lightning												
			Rebuild overhead main line along Alta Rd					3000		1000					
			Add multiple lightning arresters and tap fuses							500					
			2007 project - WR 9NOR044412												
2	BARTONVILLE	A17025	Vehicles taking down main lines	\$23,700	\$23,700	engineering completed	construction completed 10/26/07	3390		2000					
			Add Recloser on Washington Street												
			Overhead Line and Connections Failures												
			Add arresters, animal guards, and replace old structure					3100		1000					
			Infrared Inspections and repairs of connectors							500					
			2007 project - WR 9NOR044798												
			Total CI Saved	\$46,400	\$46,400				578	6627	1500				

2006 CI	2007 CI	2008 CI
savings	savings	savings
	870	870

Cir Description
 Savings from Reliability Engineering calculation

2007 Circuit Inspections - Visual/Audit
 Utilimap is scheduled to inspect 11 CILCO circuits beginning 8/27

IP will be using Local 51 employees
LaSalle OC - 26 circuits planned from CDIS
 All 26 completed as of 11/02/07

Galesburg OC - 30 circuits planned (27 from CDIS + 3 additional)
 24 from CDIS completed as of 11/02/07
 Remaining 3 to be done are M40-131&132, P47-123
 3 completed in addition to the CDIS list are L96-626 (L6626), P47-650 (L6650) & R85-680 (L6680)

Kewanee OC - 12 circuits planned (10 from CDIS + 2 additional)
 All 12 completed as of 8/31/07
 2 completed in addition to the CDIS list are L97-355 (L3355) & P45-383 (L3383)

Utilimap is scheduled to GLI 30 circuits in Div I in 2007, beginning 7/25

Totals	0	0	870
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Underground Cable Replacement									
	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.
Brief Project Description									
The premise of this action plan is that continued replacement of repeatedly failed cables will reduce future failures.									
This affect is magnified through the concurrent replacement of adjoining (likely also bad) cable segments. Recent replacement projects have focused efforts in major UG subdivisions and have significantly reduced large CI failures. Progressively more remaining cable failures are single segments service single (or few) customers each.									
Cable Failure Events and Customers Affected:									
These numbers are from OAS - Focus reports.									
In 2004 we reported 17,651 CI due to underground malfunctions thru 7/31. We also reported 27,013 CI due to underground malfunctions for the full year.									
In 2005 we reported 14,762 CI due to underground malfunctions thru 7/31. We also reported 27,117 CI due to underground malfunctions for the full year.									
In 2006 we reported 9,076 CI due to underground malfunctions thru 7/31.									
A comparison of the 7/31 data over the last two years suggests that underground malfunctions have been reduced by 5,686 CI. Performing a linear extrapolation of this data suggests that we may realize an improvement of approximately 10,000 CI in 2008 due to reduced underground malfunctions, most of which are related to underground cable failures.									
This is really too little data to confidently explain the results.									
Since we had approximately 27,000 CI due to underground malfunctions in 2004 and 2005, and we are assuming that we can reduce this by approximately 10,000 CI in 2006 to a level of approximately 17,000 CI annually, the prospects for future reductions in CI are greatly diminished.	10000	#####		3000	#####		3000	#####	
For planning purposes we feel that we may be able to reduce underground malfunctions due to cable failures by an additional 3,000 CI in 2007 and 3,000 CI in 2008.				3000	#####		3000	#####	
Totals	10000	10000000	0	3000	1000000	0	3000	1000000	0

Circuit

Totals

Tree Trimming

Description	2006 CI savings	2007 CI savings	2008 CI savings
Prescriptive trimming completed on Nebraska 3 (B77003) in 2006 due to two tree related circuit outages in 2005. (1233 CI x 2 = 2466 CI)		2466	
Prescriptive trimming completed on Court 2 (B57002) in 2006 due to one tree related circuit outage in 2005. (827 CI)		827	
Estimated CI reduction due to prescriptive tree trimming in 2007.			500
Totals	0	3,293	500

Project No.	Circuit	Brief Project Description	Substation Upgrades				2006 CI Saved	2007 Add'l Costs	2007 Add'l Costs Req.	2008 CI Saved	2008 Add'l Costs	2008 Add'l Costs Req.
			2006 CI Saved	2006 Add'l Costs	2006 Add'l Costs Req.	2007 Saved						
		In 2005 and 2006 CILCO substation outages due to equipment failures were six in each year. Substation has instituted a new maintenance strategy program for substation equipment that is expected to prevent one equipment failure per year starting in 2007 resulting in a reduction of 2500 CI per year.							2500			
		In 2006 there were 8 animal related CILCO substation outages. Substation will animal mitigate 17 substation circuits and 2 complete substations in 2007 with an expected reduction of 1967 CI.									1967	
		Those planned are:	Engineering status	Construction status	Target completion date							
1	B38	Williamsfield Substation - completed June 2007	no engineering required	construction complete	completed		\$7,500					
2	D35	Henry Substation	no engineering required	construction complete	completed 11/9/07							
3	B00-1	Northwest Subst. circuit 1	no engineering required		11/30/2007							
4	B00-2	Northwest Subst. circuit 2	no engineering required		11/30/2007							
5	B00-3	Northwest Subst. circuit 3	no engineering required		11/30/2007							
6	B00-4	Northwest Subst. circuit 4	no engineering required		11/30/2007							
7	B00-5	Northwest Subst. circuit 5	no engineering required		11/30/2007							
8	B00-6	Northwest Subst. circuit 6	no engineering required		11/30/2007							
9	B00-7	Northwest Subst. circuit 7	no engineering required		11/30/2007							
10	B00-10	Northwest Subst. circuit 10	no engineering required		11/30/2007							
11	B00-11	Northwest Subst. circuit 11	no engineering required		11/30/2007							
12	B00-12	Northwest Subst. circuit 12	no engineering required		11/30/2007							
13	B84-1	Bush 1	no engineering required		4th quarter 2007							
14	B84-2	Bush 2	no engineering required		4th quarter 2007							
15	B84-4	Bush 4	no engineering required		4th quarter 2007							
16	A45-1	Ozark 1	no engineering required	construction complete	completed							
17	A45-2	Ozark 2	no engineering required	construction complete	completed							
18	A45-3	Ozark 3	no engineering required	construction complete	completed							
19	A85-1	Sand Prairie 1	no engineering required	construction complete	completed							
20	A85-2	Sand Prairie 2	no engineering required	construction complete	completed							
21	B81-1	Groveland 1	no engineering required	construction complete	completed							
22	B73-2	Limberg 2	no engineering required	construction complete	completed							
23	B73-3	Limberg 3	no engineering required	construction complete	completed							
24	B77-1	Nebraska 1	no engineering required	construction complete	completed							
25	B77-2	Nebraska 2	no engineering required	construction complete	completed							
26	B77-3	Nebraska 3	no engineering required	construction complete	completed							
27	B77-4	Nebraska 4	no engineering required	construction complete	completed							
28	C76-1	North Morton 1	no engineering required	construction complete	completed							
29	C76-2	North Morton 2	no engineering required	construction complete	completed							
30	J01	Abingdon Animal Fence	no engineering required	construction complete	completed							
						0	2500	0	2500	0	0	0
							\$7,500	0	4,467	0	0	0

2007 Reliability Action Plan Cost Summary

	2007 Cost		2007 Budget		2008 Budget	
Circuit Performance Improvement Projects		\$386,700	\$434,300		\$384,000	
Tap Fusing		\$89,900	\$91,100		\$26,000	
Multiple Device Interruptions		\$24,300	\$48,000		\$48,000	
ICC Worst Performing Circuits		\$46,400	\$46,400		\$251,000	
Customers Exceeding Reliability Targets			\$181,300		\$10,000	
Circuit Inspections & Repairs			\$100,000		\$100,000	
Device Inspections & Repairs		\$71,300	\$117,000		\$117,000	
URD Cable Replacements		\$763,700	\$1,000,000		\$1,000,000	
Vegetation management - Tree Trimming						
Vegetation management - Multiple Device Interruptions						
Substation Improvements		\$7,500				
Substation maintenance						
S&RM - Circuit Inspections						
Totals		\$1,389,800	\$2,018,100		\$1,936,000	

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Item No.	Description	Quantity	Unit	Price	Total
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Brief Project Description	Devices with multiple outages						2008 Add'l Costs Req.	2008 Costs	2008 CI Saved	2007 Add'l Costs Req.	2007 Costs	2007 CI Saved	2006 Add'l Costs Req.	2006 Costs	2006 CI Saved
	2006 CI Saved	2006 Costs	2006 Add'l Costs Req.	2007 CI Saved	2007 Costs	2007 Add'l Costs Req.									
Weekly reports on devices with multiple (3 or more in the last 12 months) outages were reviewed for Division I which showed an average of 13 devices identified per week with an average CI in the last twelve months per device of 319.															
It was assumed that three device outage per month would be solved which would reduce the CI per device by 200. This would result in a yearly CI reduction of 7,200 with 3,600 the first year (2006).	3,600			7,200											
Reliability Engineering Calculation								8719							
					\$48,000										\$48,000
					\$48,000										\$48,000
	3600	0	0	7200	\$48,000	0	8719	\$48,000	0						0

2007 Operating Center	Review completed	Devices	Engineer	Target engineering completion date	Work requests in construction	Work req. completed
Eastern	76	77	Randy Morgan			
Galesburg	73	78	Jon Reick			
Kewanee	21	21	Jon Reick			
LaSalle	42	42	Ken Eichorn			
Peoria	34	102	Joe Groesch			
Total	246	320			0	0

Summary total 344 264

Note that the automatic counting software does not count devices and reviews during the same time frames and consequently creates a discrepancy between operating center counts and the summary total counts.

Project Substation No.	Project Name	Circuit	Description	2007 Cost	2007 Budget	Engineering status	Construction status	Prior Year CI	2006 CI savings	2007 CI savings	2008 CI savings	Total Feeder Outages from 1/1/04 thru 8/1/06	Average Annual Feeder Outages	Average CI per Feeder	Potential CI Improvs
		Worst Circuits													
		Gales 205	Lightning			2006 project - completed in 2006		614	154						
		2006 Project	Animal					137	34						
			OH Equipment					228	57						
			Wind					237	59						
		Gales 135	Lightning			2006 project - completed in 2006		508	127						
		2006 Project	Animal					59	15						
			OH Equipment					166	42						
			Wind					362	91						
		Gales 129	Lightning			2006 project - completed in 2006		106		27					
		2006 Project	Animal					172		43					
			OH Equipment					383		96					
			Wind					20		5					
		LaSalle 281	Lightning			2006 project - completed in 2006		33		8					
		2006 Project	Animal					701		175					
			OH Equipment					134		34					
			Wind					0		0					
1	RADNOR	D69002	Underground main line connector failures	\$22,700	\$22,700	engineering completed	construction completed 10/19/07	1240		1240					
			Connections replaced												
			Old overhead line failures, trees, and lightning												
			Rebuild overhead main line along Alta Rd												
			Add multiple lightning arresters and tap fuses												
			2007 project - WR 9NOR044412												
2	BARTONVILLE	A17025	Vehicles taking down main lines	\$23,700	\$23,700	engineering completed	construction completed 10/26/07	3390		2000					
			Add Recloser on Washington Street												
			Overhead Line and Connectors Failures												
			Add arresters, animal guards, and replace old structure												
			Infrared Inspections and repairs of connectors												
			2007 project - WR 9NOR044798												
				\$46,400	\$46,400				578	6627	1500				

Total CI Saved

Cir	Description	2006 CI savings	2007 CI savings	2008 CI savings
	Savings from Reliability Engineering calculation		870	870
	2007 Circuit Inspections - Visual/Audit Utilimap is scheduled to inspect 11 CILCO circuits beginning 8/27			
	IP will be using Local 51 employees LaSalle OC - 26 circuits planned from CDIS All 26 completed as of 1/02/07			
	Galesburg OC - 30 circuits planned (27 from CDIS + 3 additional) 24 from CDIS completed as of 11/02/07 Remaining 3 to be done are M40-131&132, P47-123 3 completed in addition to the CDIS list are L96-626 (L6626), P47-650 (L6650) & R85-680 (L6680)			
	Kewanee OC - 12 circuits planned (10 from CDIS + 2 additional) All 12 completed as of 8/31/07 2 completed in addition to the CDIS list are L97-355 (L3355) & P45-383 (L3383)			
	Utilimap is scheduled to GLI 30 circuits in Div I in 2007, beginning 7/25			
Totals		0	0	870

Underground Cable Replacement									
	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.
Brief Project Description									
The premise of this action plan is that continued replacement of repeatedly failed cables will reduce future failures.									
This affect is magnified through the concurrent replacement of adjoining (likely also bad) cable segments. Recent replacement projects have focused efforts in major UG subdivisions and have significantly reduced large CI failures.									
Progressively more remaining cable failures are single segments service single (or few) customers each.									
Cable Failure Events and Customers Affected:									
These numbers are from OAS - Focus reports.									
In 2004, we reported 17,651 CI due to underground malfunctions thru 7/31. We also reported 27,013 CI due to underground malfunctions for the full year.									
In 2005 we reported 14,762 CI due to underground malfunctions thru 7/31. We also reported 27,117 CI due to underground malfunctions for the full year.									
In 2006 we reported 9,076 CI due to underground malfunctions thru 7/31.									
A comparison of the 7/31 data over the last two years suggests that underground malfunctions have been reduced by 5,686 CI. Performing a linear extrapolation of this data suggests that we may realize an improvement of approximately 10,000 CI in 2006 due to reduced underground malfunctions, most of which are related to underground cable failures.									
This is really too little data to confidently explain the results.									
Since we had approximately 27,000 CI due to underground malfunctions in 2004 and 2005, and we are assuming that we can reduce this by approximately 10,000 CI in 2006 to a level of approximately 17,000 CI annually, the prospects for future reductions in CI are greatly diminished.	10000	#####							
For planning purposes we feel that we may be able to reduce underground malfunctions due to cable failures by an additional 3,000 CI in 2007 and 3,000 CI in 2008.				3000	#####		3000	#####	
Totals	10000	10000000	0	3000	10000000	0	3000	10000000	0

Circuit

Totals

Tree Trimming

Description	2006 CI savings	2007 CI savings	2008 CI savings
Prescriptive trimming completed on Nebraska 3 (B77003) in 2006 due to two tree related circuit outages in 2005. (1233 CI x 2 = 2466 CI)		2466	
Prescriptive trimming completed on Court 2 (B57002) in 2006 due to one tree related circuit outage in 2005. (827 CI)		827	
Estimated CI reduction due to prescriptive tree trimming in 2007.			500
Totals	0	3,293	500

Project No.	Circuit	Brief Project Description	Engineering status	Construction status	Target completion date	Substation Upgrades				2008 Add'l Costs	2008 Add'l Saved	2008 Add'l Costs Req.			
						2006 CI Saved	2006 Add'l Costs Req.	2007 CI Saved	2007 Add'l Costs Req.						
1	B36	Those planned are:	no engineering required	construction complete	completed										
2	D35	Williamsfield Substation - completed June 2007	no engineering required	construction complete	completed 11/9/07										
3	B00-1	Henry Substation	no engineering required	construction complete	completed 11/30/2007										
4	B00-2	Northwest Subst. circuit 1	no engineering required	construction complete	11/30/2007										
5	B00-3	Northwest Subst. circuit 3	no engineering required	construction complete	11/30/2007										
6	B00-4	Northwest Subst. circuit 4	no engineering required	construction complete	11/30/2007										
7	B00-5	Northwest Subst. circuit 5	no engineering required	construction complete	11/30/2007										
8	B00-6	Northwest Subst. circuit 6	no engineering required	construction complete	11/30/2007										
9	B00-7	Northwest Subst. circuit 7	no engineering required	construction complete	11/30/2007										
10	B00-10	Northwest Subst. circuit 10	no engineering required	construction complete	11/30/2007										
11	B00-11	Northwest Subst. circuit 11	no engineering required	construction complete	11/30/2007										
12	B00-12	Northwest Subst. circuit 12	no engineering required	construction complete	11/30/2007										
13	B84-1	Bush 1	no engineering required	construction complete	4th quarter 2007										
14	B84-2	Bush 2	no engineering required	construction complete	4th quarter 2007										
15	B84-4	Bush 4	no engineering required	construction complete	4th quarter 2007										
16	A45-1	Ozark 1	no engineering required	construction complete	completed										
17	A45-2	Ozark 2	no engineering required	construction complete	completed										
18	A45-3	Ozark 3	no engineering required	construction complete	completed										
19	A85-1	Sand Prairie 1	no engineering required	construction complete	completed										
20	A85-2	Sand Prairie 2	no engineering required	construction complete	completed										
21	B81-1	Groveland 1	no engineering required	construction complete	completed										
22	B73-2	Linberg 2	no engineering required	construction complete	completed										
23	B73-3	Linberg 3	no engineering required	construction complete	completed										
24	B77-1	Nebraska 1	no engineering required	construction complete	completed										
25	B77-2	Nebraska 2	no engineering required	construction complete	completed										
26	B77-3	Nebraska 3	no engineering required	construction complete	completed										
27	B77-4	Nebraska 4	no engineering required	construction complete	completed										
28	C76-1	North Morton 1	no engineering required	construction complete	completed										
29	C76-2	North Morton 2	no engineering required	construction complete	completed										
30	J01	Abingdon Animal Fence	no engineering required	construction complete	completed										
						0	0	0	0	2500	\$7,500	0	4467	0	0

2007 Reliability Action Plan Performance Report
 Division 2
 11/9/2007

Division Responsibility	36	38	100.0%	36	38	100.0%	4,244	8,420
	80	80	100.0%	80	80	100.0%	1,899	1,821
	106	76	71.7%	38	34	89.5%	1,822	3,244
	6	6	100.0%	6	6	100.0%	2,100	1,200
	5	5	100.0%	5	5	100.0%	-	114
	872	676	77.6%	21	21	100.0%	\$ 135,000	\$ 401,755
				46	25	54.3%	-	-
				16	15	93.8%	656	500
EDTS Responsibility								
				1125	626	55.6%	500	1,400
	14	13	92.9%	4	3	75.0%	-	-
	28	24	85.7%	32	28	87.5%	1,540	1,540
				966	809	83.7%	2,500	2,500
	37	1	2.7%				-	-
				Subtotal Division			\$ 372,915	\$ 783,334
				Subtotal EDTS			\$ -	\$ -
				Total			\$ 372,915	\$ 783,334
							Projected CI Avoided	15,210
							CI Required to Achieve Target	10,436
							Variation - Plan to Target	4,774
							Net CI Difference	(645)
							Division SAIFI Target	1.07
								0.97

These costs only included RWTP budget and expenses.

Project	2006 CI Reduction	2006 Budget	2007 CI Reduction	2007 Budget	2008 CI Reduction	2008 Budget	Remarks
Astoria, U05-595	100	\$100,000	600	\$75,000	400		Replace sub recloser coil, add line reclosers, tap fuses, arresters (8 jobs, 7 done); 235888, 241353, 241354, 241355, 242055, 243033, 243193, 243194
Virginia, V76-526	100	\$160,000	100				Add line reclosers, tap fuses, arresters (7 jobs, 5 done); 222792, 230777, 234955, 234957, 234959, 238425, 244498
N Ashland, U04-538	1725	\$225,000					Add line reclosers and tap fuses (4 jobs, 4 done); 229739, 222789, 243743, 245052
Greenview, U62-521			100	\$100,000	300		Add line reclosers, tap fuses, arresters (11 jobs, all complete -2007) 242355, 244289, 244292, 244294, 244296, 244297, 244298, 244299, 231470, 231387, 231719
N. Marblehead, V01-002			100	\$40,000	400		Add fuses and arresters (4 jobs, 4 done); 241272, 244786, 244839, 245052
E. Clayton Jct., U39541	700	\$151,000	1200	\$58,000	100		2005 - add animal guards - \$11,500 2006 - resize sub recloser coil, add fuses and reclosers, coordinate circuit - \$139,500 2007 - replace defective poles - \$58,000 (20 jobs, 16 done) 229911, 232331, 239532, 241150, 241234, 241172, 241244, 241243, 242490, 239454, 235013, 235012, 235010, 235009, 235008, 235007, 235006, 243138, 243146, 243157
Total	2625		2100		1200		

Complete

Customers Exceeding ICC targets for 3 cons. years

Project	2006 CI Reduction	2006 Budget	2007 CI Reduction	2007 Budget	2008 CI Reduction	2008 Budget	Remarks
S Winchester - U83505				\$3,850	50		install tap fuses - complete. 241514
Principia College - V25504				\$1,750	16		install tap fuses, replace two poles on two separate jobs (3 jobs, all complete) 229134, 241637, 241835
Piassa Jct - V22555				\$5,600	48		install tap fuses - complete. 241713

Total 0 0 0 \$11,200 114 0

Complete

Inspections and Repairs

Project	2008 CI Reduction	2008 Budget	2007 CI Reduction	2007 Budget	2008 CI Reduction	2008 Budget	Remarks
Visual Inspections							32 scheduled for 2007
Groundline Inspections							
Centerwork from 2008							241842, 241406, 241404, 241301, 241063, 241001, 238100, 237257, 237248, 235281, 231174, 230806
12 CIPS projects							015180, 015055, 014950, 014853, 014678, 014487, 014463, 014189, 028824
0 IP projects							
2007 - 37 circuits scheduled - Williams started on 8/19/07							
Jacksonville, Anna St, N48105							
Jacksonville, Anna St, N48109							
Jacksonville, Anna St, N48110							
Jacksonville, Power Plant, N30334							
Augusta, UT0001							
Augusta, UT0002							
Augusta, UT0547							
Carleton, US9001							
Carleton, US9002							
Carleton, US9003							
Carleton, US9004							
Carleton, US9005							
Carleton, US9006							
Carleton, US9007							
Carleton, North, US1001							
Carleton, North, US1002							
Carleton, North, US1003							
Carleton, North, US1004							
Carleton, North, US1005							
Carleton, North, US1006							
Carleton, North, US1007							
Carleton, South, US2504							
Carleton, Spoon River, US3509							
Carleton, Spoon River, US3568							
Carleton, Water Works, US4001							
Colchester, US2512							
Florence, US1639							
Frederick, South, US4603							
Quincy, 18th & Wells, V37509							
Quincy, 18th & Wells, V37537							
Quincy, 16th & Wells, V37583							
Quincy, 21st & Broadway, V38001							
Quincy, 21st & Broadway, V38002							
Winchester, South, V65505							
Quincy, E. to Quincy, 21st & Broadway, V28225							
Griggsville, West to Florence, US5252							
Forest City to Banner, US5259							
Frederick, North to Rushville to Arco Pump, V53737							
Replace distribution poles	50	\$255,000	50	\$275,000	50	\$385,000	
Assume one distribution failure avoided per ten years with 500 CI saved							
Assume \$3,000 per pole for distribution							
Replace sub-transmission poles	100	\$100,000	100	\$125,000	100	\$175,000	
Assume one sub-transmission failure avoided per ten years with 1000 CI saved							
Assume \$5,000 per pole for sub-transmission							
Totals	150	\$355,000	150	\$400,000	150	\$560,000	

