



**Kansas City Power & Light Company
2013 Reliability Performance Report**

Annual reporting completed pursuant to 4 CSR 240-23.010

April 30, 2014

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4 CSR 240.23.010 (1), (2), (3), (4), (5) – Reliability Statistics 2013

Table 1: KCP&L Reliability Indices		
Total Customers (Meter Counts)		276,535
Adjusted	SAIFI	0.816
	SAIDI	70.33
	CAIDI	86.24
	CAIFI	1.12
Unadjusted	SAIFI	1.180
	SAIDI	208.40
	CAIDI	176.60
	CAIFI	1.17

Event days excluded from the KCP&L adjusted 2013 statistics: February 26-27, May 19-20, June 15-16, June 27-28, September 1, September 19-20.

4 CSR 240-23.010 (6), (7) – Highest 5% SAIFI Circuits Assessment

Table 2 lists circuits identified as having the highest 5% of adjusted SAIFI statistics in 2013, as set forth in 4 CSR 240.23.010 (6). Patrols and repairs were completed in the 3rd and 4th Quarters 2013. For circuits where an analysis is being completed, a systematic patrol plan is developed based on identified outage causes and, when and where feasible, repairs made during the initial patrol. Tree patrols were performed and, where indicated, spot trimming completed. Other maintenance, modifications or upgrades not completed during the initial patrol were completed by the 1st Quarter 2014. Additionally, engineering performed root cause analysis on recurring problems and issued corrective action jobs scheduled for completion during 2nd Quarter 2014.

Table 2: Highest 5% SAIFI Circuits					
<u>Center</u>	<u>Circuit ID</u>	<u>Substation ID</u>	<u>Action Plan</u>	<u>SAIFI</u>	<u>SAIDI</u>
DOD	5642	56	Trees falling into Lines- trimmed trees	5.59	855.16
FM	7931	79	Arresters and Bad Switch (Install new arresters on the Equipment)	5.08	779.20
EDST	5912	59	Regulator burned up; Replaced and monitor. Storm\Weather Related	4.82	2648.66
FM	5381	53	Trees and Overload	4.50	829.85
FM	2442	24	Feeder cable failure- repaired	4.09	391.15
DOD	7581	75	CO Relays On; Trees; Feeder cable	4.05	614.52
DOD	3134	31	Jumper burnt off at switch; pole down; put up OH primary; Storm\Weather related	3.88	323.02
FM	2412	24	Bad Switch SW6765;feeder cable failure; Storm\Weather related	3.72	125.62
FM	5371	53	Cable failure; pole and wire fell down -patrol circuit and made repairs	3.27	224.04
FM	9622	96	Trees and vegetation	3.26	294.40
DOD	2354	23	Trees and vegetation	3.23	357.99
FM	7491	74	2 Feeder Cable Failures-repaired	3.17	225.53
DOD	3144	31	Jumper burnt off SW; Primary conductor fell to the ground	3.15	440.00
FM	7911	79	Car hit feeder pole; Arrester blown on feeder near 3 phase recloser; Recloser failure- patrol and made repairs	3.13	164.76
DOD	2303	23	Trees; burnt up switch; patrol circuit and made repairs	2.80	288.38
NLND	5261	52	Trees and vegetation	2.78	608.68
DOD	4822	48	Trees; Crossarm broke- patrol and made repairs	2.72	346.31
FM	7492	74	Trees and vegetation	2.67	409.56
FM	5332	53	Trees and vegetation - patrol and repaired	2.64	439.26
NLND	1012	10	PO customer's switches, cutouts, and arresters; patrol & replaced	2.62	500.87
FM	5372	53	Replaced arresters\pole & guys	2.58	181.35

Event days excluded from the KCP&L adjusted 2013 statistics: February 26-27, May 19-20, June 15-16, June 27-28, September 1, September 19-20.

4 CSR 240-23.010 (8) – Multi-Year Worst Performing Circuit Reporting

The referenced rule requires the plan and a schedule to lower SAIFI metrics on circuits that are listed on the highest 5% SAIFI list for two out of three of the preceding years. Table 3 reflects the action plans implemented and completed in 2013 to lower the SAIFI metric for these circuits. Additional patrols and root-cause analysis, where required, will be completed in 2nd Quarter 2014.

Table 3: Multi-Year Worst Performing Circuit Report						
Year	Centers	Circuits	Substation	Action Plan	SAIFI	SAIDI
2012 & 2013	Dodson	3134	Forest	Jumper burnt off at switch; pole down; put up OH primary; Storm\Weather related; Patrolled and made repairs	3.88	323.02
2011 & 2012, 2013	Marshall	5912	Gilliam	Regulator burnt up, relocated 3 phase recloser, repaired sagging conductor; Storm\Weather related; Patrolled and made repairs	4.82	2648.66
2011 & 2013	Dodson	3144	Forest	Jumper burnt off SW; Primary conductor fell to the ground; Storm\Weather related; Patrolled and made repairs	3.15	181.35
2012 & 2013	F&M	7491	Northeast	2 Feeder Cable Failures-repaired	3.17	225.53
2012 & 2013	F&M	5381	Blue Valley	Trees and Overload- Trees trimmed out; - 2011/Schedule to trim in 2015- Patrolled and made repairs	4.50	829.85
2012 & 2013	F&M	7931	Blue Mills	Arresters and Bad Switch (Install new arresters on the Equipment)	5.08	779.20

				Patrolled and made repairs		
2011 & 2013	F&M	5372	Blue Valley	Replaced arresters\pole & guys- Patrolled and made repairs	2.58	181.35
2011 & 2012	Marshall	3211	Mt Leonard	Repaired OH Wires\Trimmed Trees – completed 2013	3.14	426.81