



**Kansas City Power & Light Company
2012 Reliability Performance Report**

Annual reporting completed pursuant to 4 CSR 240-23.010 *et seq.*

April 30, 2013

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4 CSR 240.23.010 (1), (2), (3), (4), (5) – Reliability Statistics 2012

Table 1: KCP&L Reliability Indices		
Total Customers (Meter Counts)		279,701
Adjusted	SAIFI	0.52
	SAIDI	48.44
	CAIDI	92.57
	CAIFI	1.23
Unadjusted	SAIFI	0.85
	SAIDI	86.47
	CAIDI	101.74
	CAIFI	1.24

Event days excluded from the KCP&L adjusted 2012 statistics: August 8, 2012, December 20, 2012.

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 2012, as set forth in 4 CSR 240.23.010 (6). Patrols and repairs were completed in the 3rd Quarter 2012. 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 2nd Quarter 2013. Additionally, engineering performed root cause analysis on recurrent problems and issued corrective action jobs for completion during 3rd Quarter 2013.

Table 2: Highest 5% SAIFI Circuits					
Centers	Circuits	Substation	Action Plan	SAIFI	SAIDI
Northland	7842	78	Replaced & Repaired Feeder Cables	4.44	249.92
Dodson	3134	31	Repaired OH wires\ Replaced Transformers	4.07	246.16
F&M	7491	74	Trees\ vegetation\OH wires\Transformers	3.68	67.83
Dodson	6623	66	Replaced Ug Cables\Animals	3.35	353.09
Marshall	3211	32	Repaired OH wires\Trimmed Trees	3.14	426.81
Dodson	6151	61	Replaced Arresters\Pole Guys\Repaired Ug Cables	3.01	101.05
Dodson	6624	66	Storm\Weather related	2.73	646.75
F&M	7931	79	Trimmed Trees\vegetation	2.55	223.51
Northland	4952	49	Replaced & Repaired Feeder Cables	2.45	193.49
F&M	7453	74	Replaced & Repaired Feeder Cables	2.38	137.19
Northland	4942	49	Replaced & Repaired Feeder Cables	2.35	163.12
F&M	2413	24	Circuit Overload Circuit Rearranged Load	2.30	242.97
F&M	7473	74	Replaced Arresters/ OH wire jumpers	2.29	233.50
Dodson	3542	35	Repaired UG Cables	2.27	148.22
F&M	5381	53	Poles, Overhead Jumpers, Overhead wires	2.23	215.36
Northland	7861	78	Repaired Ug Cables	2.20	92.55
Dodson	2334	23	Repaired OH wires\Replaced Poles	2.14	127.82
F&M	8613	86	Repaired OH wires\ Trimmed Trees	2.11	163.38
Marshall	5912	59	Weather Lightning – Installed lightning arresters	2.09	167.17
Northland	9421	94	Feeder Cables\customer cable	2.07	246.66
Dodson	6113	61	Animals\Birds	2.05	159.56

Event days excluded from the KCP&L adjusted 2012 statistics: August 8, 2012, December 20, 2012.

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

There was Multi-Year Worst Performing Circuit to report in 2012. The referenced rule requires the plan and 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 work plan and schedule to lower the SAIFI metric for these circuits. The work plan was completed in 2012.

Table 3: Multi-Year Worst Performing Circuit Report						
Year	Centers	Circuits	Substation	Action Plan	SAIFI	SAIDI
2010 & 2012	Dodson	3134	Forest	Repaired OH wires\ Replaced Transformers	4.07	246.16
2010, 2011, 2012	Marshall	3211	Mt Leonard	Repaired OH wires\ Trimmed Trees	3.14	426.81
2011 & 2012	Marshall	5912	Gilliam	Weather Lightning – Installed lightning arresters	2.09	167.17
2010 & 2011	Dodson	6111	Leeds	Failed Equipment Repairs found during the patrols- additional patrol replaced broken equipment	3.79	215.17
2010 & 2011	Northland	7142	Randolph	Vegetation and Failed Equipment Repairs found during the patrols- additional patrols replaced broken equipment	3.33	118.81
2011 & 2012	F&M	7473	Northeast	Replaced Arresters/ OH wire jumpers	2.29	233.5