

# KENTUCKY PUBLIC SERVICE COMMISSION

## Electric Distribution Utility Annual Reliability Report

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### SECTION 1: CONTACT INFORMATION

UTILITY NAME	1.1	Cumberland Valley Electric
REPORT PREPARED BY	1.2	Jonathan Grove
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PHONE NUMBER OF PREPARER	1.4	606-258-22454

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### SECTION 2: REPORT YEAR

CALENDAR YEAR OF REPORT	2.1	2012
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### SECTION 3: MAJOR EVENT DAYS

$T_{MED}$	3.1	13.8
FIRST DATE USED TO DETERMINE $T_{MED}$	3.2	1/1/2002
LAST DATE USED TO DETERMINE $T_{MED}$	3.3	12/31/2012
NUMBER OF MED IN REPORT YEAR	3.4	4

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NOTE: Per IEEE 1366  $T_{MED}$  should be calculated using the daily SAIDI values for the five prior years. If five years of data are not available, then utilities should use what is available until five years are accumulated.

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### SECTION 4: SYSTEM RELIABILITY RESULTS

#### Excluding MED

SAIDI	4.1	86.96
SAIFI	4.2	2.23
CAIDI	4.3	39

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#### Including MED (Optional)

SAIDI	4.4	_____
SAIFI	4.5	_____
CAIDI	4.6	_____

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#### Notes:

- 1) All duration indices (SAIDI, CAIDI) are to be reported in units of minutes.
  - 2) Reports are due on the first business day of April of each year
  - 3) Reports cover the calendar year ending in the December before the reports are due.
  - 4) IEEE 1366 (latest version) is used to define SAIDI, SAIFI, CAIDI, and  $T_{MED}$
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### SECTION 5: OUTAGE CAUSE CATEGORIES

Excluding MED

CAUSE CODE DESCRIPTION	SAIDI VALUE	CAUSE CODE DESCRIPTION	SAIFI VALUE
Trees 5.1.1	49.53	Storms 5.2.1	0.3776
Power Supply 5.1.2	29.79	Power Supply 5.2.2	0.3741
Storms 5.1.3	23.9	Trees 5.2.3	0.3274
Equipment Failure 5.1.4	10.19	Equipment Failure 5.2.4	0.0987
Vehicle Accident 5.1.5	7.82	Animals 5.2.5	0.0827
Animals 5.1.6	5.94	Lightning 5.2.6	0.0602
Lightning 5.1.7	3.26	Vehicle Accident 5.2.7	0.0424
Planned 5.1.8	2.9	Planned 5.2.8	0.0323
Construction 5.1.9	0.3436	Construction 5.2.9	0.0073
Fire 5.1.10	0.084	Fire 5.2.10	0.0014

### SECTION 6: WORST PERFORMING CIRCUITS

CIRCUIT IDENTIFIER	SAIDI VALUE	MAJOR OUTAGE CATEGORY
Chad 4 6.1.1	1552.6	Power Supply
Pine Mountain 3 6.1.2	1462.28	Power Supply
Ovenfork 2 6.1.3	812.78	Power Supply
Chad 2 6.1.4	465.91	Trees
Chad 1 6.1.5	407	Trees
Chad 3 6.1.6	286.54	Storm
South Corbin 1 6.1.7	285.5	Equipment Failure
Cumberland Falls 1 6.1.8	241.05	Power Supply
Carpenter 2 6.1.9	211.36	Storm
Liberty Church 2 6.1.10	211.1	Vehicle Accident

CIRCUIT IDENTIFIER	SAIFI VALUE	MAJOR OUTAGE CATEGORY
Pine Mountain 3 6.2.1	7.65	Power supply
Ovenfork 2 6.2.2	7.5	Power supply
Carpenter 2 6.2.3	7.31	Storm
Cumberland Falls 1 6.2.4	3.85	Power supply
Chad 4 6.2.5	2.73	Storm
Carpenter 4 6.2.6	1.77	Lightning
Chad 1 6.2.7	1.54	Trees
Bledsoe 1 6.2.8	0.88	Trees
Carpenter 3 6.2.9	0.75	Trees
South Corbin 1 6.2.10	0.51	Equipment Failure

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Additional pages may be attached as necessary

### SECTION 7: VEGETATION MANAGEMENT PLAN REVIEW

Vegetation management plan remains unchanged from 2010 plan.

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### SECTION 8: UTILITY COMMENTS

Cumberland Valley has begun tracking reliability by circuit as opposed to substation as part of its effort to implementing a modern OMS system. As part of this effort management has elected to change outage categories going forward.

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