




Cumberland Valley Electric

A Touchstone Energy Cooperative 

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PUBLIC SERVICE
COMMISSION

March 27, 2009

Jeff Derouen
Commission Executive Director
P.O. Box 615
Frankfort, KY 40602-0615

RE: Cumberland Valley Electric Reliability Report

Director Derouen,

Please find enclosed Cumberland Valley Electric's report of system reliability indices for 2008 pursuant to the Commission's Order in Case No. 2006-00494.

Sincerely,



Mark D. Abner, P.E.
Engineering Manager
Cumberland Valley Electric

Ted Hampton • President & CEO

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Reliability Report for 2008

System Average Indices

SAIFI

1.5562

| Cause | Contribution |
|-------------------|--------------|
| Tree on Line | 58.1% |
| Power Supply | 14.2% |
| Equipment Failure | 13.4% |
| Planned | 4.1% |
| Storm | 3.0% |
| Accident | 2.8% |
| Lightning | 2.5% |
| Animals | 1.3% |
| Vandalism | 0.2% |
| Fire | 0.2% |
| Construction | 0.2% |
| Overload | 0.0% |

SAIDI

3.078 min

| Cause | Contribution |
|-------------------|--------------|
| Tree on Line | 40.0% |
| Equipment Failure | 32.2% |
| Power Supply | 6.1% |
| Animals | 5.5% |
| Planned | 5.0% |
| Fire | 3.6% |
| Vandalism | 2.4% |
| Accident | 2.1% |
| Storm | 1.7% |
| Construction | 0.6% |
| Lightning | 0.5% |
| Overload | 0.1% |

CAIDI

1.98 min

| Cause | Contribution |
|-------------------|--------------|
| Tree on Line | 80.7% |
| Equipment Failure | 14.9% |
| Power Supply | 3.0% |
| Planned | 0.7% |
| Animals | 0.2% |
| Accident | 0.2% |
| Storm | 0.2% |
| Lightning | 0.0% |
| Fire | 0.0% |
| Vandalism | 0.0% |
| Construction | 0.0% |
| Overload | 0.0% |

Excluding Storms

SAIFI **1.5095**
SAIDI **3.258** min
CAIDI **19.998** min

Worst Performing Substations

By SAIFI Index

| SAIFI | Substation | Largest Contributing Factor |
|-------|----------------------|-----------------------------|
| 8.804 | E50 Pine Mountain | Power Supply |
| 5.186 | E51 Bledsoe | Tree on Line |
| 3.831 | E64 Ovenfork | Tree on Line |
| 2.657 | S85 Carpenter | Tree on Line |
| 2.271 | E23 Chad | Tree on Line |
| 2.172 | S110 Alex Creek | Tree on Line |
| 1.323 | S26 Cumberland Falls | Accident |
| 1.167 | S22 Rockhold | Tree on Line |
| 0.963 | S64 Goldbug | Tree on Line |
| 0.924 | S53 Hinkle | Tree on Line |

By SAIDI Index

| SAIDI | Substation | Largest Contributing Factor |
|-------|-----------------------------|-----------------------------|
| 6.414 | E64 Ovenfork | Tree on Line |
| 6.18 | E51 Bledsoe | Tree on Line |
| 5.316 | S85 Carpenter | Tree on Line |
| 4.938 | E23 Chad | Tree on Line |
| 4.728 | E50 Pine Mountain | Tree on Line |
| 3.324 | S64 Goldbug | Tree on Line |
| 3.198 | S41 Jellico Creek | Tree on Line |
| 2.502 | S22 Rockhold | Equipment Failure |
| 2.496 | S26 Cumberland Falls | Tree on Line |
| 2.46 | S45 South Corbin | Equipment Failure |

By CAIDI Index

| CAIDI | Substation | Largest Contributing Factor |
|--------|----------------------------|-----------------------------|
| 20.520 | S107 Liberty Church | Equipment Failure |
| 4.812 | S41 Jellico Creek | Fire |
| 3.942 | S45 South Corbin | Overload |
| 3.714 | S48 North Corbin | Accident |
| 3.450 | S64 Goldbug | Construction |
| 3.060 | S87 Bacon Creek | Fire |
| 2.334 | S21 Emanuel | Equipment Failure |
| 2.178 | E23 Chad | Animals |
| 2.142 | S22 Rockhold | Accident |
| 2.004 | S85 Carpenter | Vandalism |