

**FirstEnergy.**

2800 Pottsville Pike  
P.O. Box 16001  
Reading, PA 19612-6001

---

April 29, 2011

**RECEIVED**

APR 29 2011

Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
P.O. Box 3265  
Harrisburg, PA 17120

**PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU**

Re: 2010 Annual Reliability Report – West Penn Power Company - Pursuant to 52 Pa. Code § 57.195(a) and (b)

L-00030161

Dear Secretary Chiavetta,

Enclosed for filing on behalf of West Penn Power Company, (“West Penn Power”) are an original and six (6) copies of their Joint 2010 Annual Reliability Report.

Sincerely,



Douglas S. Elliott  
President, Pennsylvania Operations  
(610) 921-6060  
elliottd@firstenergycorp.com



Eric J. Dickson  
Director, Operations Services  
(330) 384-5970  
dicksone@firstenergycorp.com

**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**2010 Annual Reliability Report – West :  
Penn Power Company - Pursuant to 52 Pa. :  
Code § 57.195(a) and (b)**

**RECEIVED**

APR 29 2011

**CERTIFICATE OF SERVICE**

**PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU**

I hereby certify that I have this day served a true and correct copy of the foregoing document upon the individuals listed below, in accordance with the requirements of 52 Pa. Code § 1.54 (relating to service by a participant).

Service by overnight United Parcel Service, as follows:

Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
Commonwealth Keystone Building  
400 North Street, 2<sup>nd</sup> Floor  
Harrisburg, PA 17120

Service by overnight United Parcel Service and by electronic mail, as follows:

Irwin Popowsky  
Tanya McCloskey, Esq.  
Office of Consumer Advocate  
5<sup>th</sup> Floor Forum Place  
555 Walnut Street  
Harrisburg, PA 17101  
[spopowsky@paoca.org](mailto:spopowsky@paoca.org)  
[tmccloskey@paoca.org](mailto:tmccloskey@paoca.org)

William R. Lloyd, Esq.  
Daniel Asmus, Esq.  
Office of Small Business Advocate  
300 North 2<sup>nd</sup> Street  
Harrisburg, PA 17101  
[willoyd@state.pa.us](mailto:willoyd@state.pa.us)  
[dasmus@state.pa.us](mailto:dasmus@state.pa.us)

David J. Dulick  
Pennsylvania Rural Electric Assn.  
212 Locust Street, 2<sup>nd</sup> floor  
Harrisburg, PA 17101

Scott J. Rubin, Esquire  
Utility Workers Union of America  
333 Oak Lane  
Bloomsburg, PA 17815-2036

Service by electronic mail, as follows:

Darren Gill  
Blaine Loper  
Bureau of Conservation, Economics & Energy  
Planning  
Pennsylvania Public Utility Commission  
[dgill@state.pa.us](mailto:dgill@state.pa.us)  
[bloper@state.pa.us](mailto:bloper@state.pa.us)

Dan Searfoorce  
Bureau of Fixed Utility Services  
Pennsylvania Public Utility Commission  
[dsearfoorc@state.pa.us](mailto:dsearfoorc@state.pa.us)

Dated: April 29, 2011

Original Signed

A handwritten signature in black ink, appearing to read "Lori B. Barman", with a long horizontal flourish extending to the right.

Lori B. Barman

FirstEnergy Service Company

76 S. Main Street

Akron, OH 44308

(330) 252-6380

[lbarman@firstenergycorp.com](mailto:lbarman@firstenergycorp.com)

**RECEIVED**

APR 29 2011

PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

**FirstEnergy**<sup>®</sup>



## **2010 Annual Reliability Report**

**West Penn Power Company**

Pursuant to 52 Pa. Code § 57.195(a) and (b)

**2010 Annual Reliability Report  
West Penn Power Company  
Pursuant to 52 Pa. Code Chapter § 57.195(a)(b)**

The following 2010 Report (“Report”) is submitted to the Pennsylvania Public Utility Commission (“PaPUC”) on behalf of West Penn Power Company (“West Penn Power”).

*Section 57.195(b)(1) An overall current assessment of the state of the system reliability in the EDC’s service territory including a discussion of the EDC’s current programs and procedures for providing reliable electric service.*

*Current Assessment of the State of System Reliability*

**Reliability Results**

The table below, taken from the 4<sup>th</sup> Quarter 2010 Joint Reliability Report, shows all three reliability indices in 2010 were better than the Commission’s 12-Month Standard (shown in **green**).

12-Month Rolling	West Penn Power		
	Benchmark	12-Month Standard	12-Month Actual
SAIFI	1.05	1.26	<b>1.00</b>
CAIDI	170	204	<b>190</b>
SAIDI	179	257	<b>191</b>
Customers Served <sup>(a)</sup>	713,122		
Number of Sustained Interruptions	14,805		
Customers Affected	715,735		
Customer Minutes	136,121,784		

(a) Represents the average number of customers served during the reporting period.

West Penn Power has implemented technology to measure reliability and respond to forced outage events. Technologies such as Automated Mapping/Facilities Management, Outage Management System, Call Center Interactive Voice Response, Computerized Work Management System and mobile technologies all support timely response to field conditions. In 2010, West Penn Power began to realize the benefits from the two software additions that were implemented in 2009 to aid in the restoration effort. These two software additions are a Dashboard software system for the OMS system called Obvient and a Mobile Workforce Management system called Avail.

A corporate training center, reliability programs and processes to support reliability initiatives are in place to continually address and improve distribution reliability. These and other initiatives such as damage assessment training also support intense work efforts for responding to severe weather events. Well-established maintenance programs are in place to ensure the existing system will continue to operate in a safe and reliable manner. West Penn Power also has maintenance programs in place to address poor performing circuits as well as specific line segments where reliability issues may exist, as revealed by three or more device interruptions.

Weather events continue to affect circuit reliability and reliability statistics. Major events, discussed later in this report, are excluded from statistics but can affect budgets and work plans. Other, less severe weather events, are included in statistics and can contribute significantly to reliability statistics, especially on an individual circuit basis.

The preliminary YTD March 2011 reliability indices (shown in **green**) are listed in the table below:

12-Month Rolling	West Penn Power		
	Benchmark	12-Month Standard	12-Month Actual
SAIFI	1.05	1.26	<b>1.15</b>
CAIDI	170	204	<b>189</b>
SAIDI	179	257	<b>217</b>

West Penn Power is exceeding all indices for the Commission’s 12-Month Standard, through month-end March 2011. West Penn is confident that their 2011 plans will continue to have a positive impact on reliability.

*Section 57.195(b)(2) A description of each major event that occurred during the year being reported on, including the time and duration of the event, the number of customers affected, the cause of the event and any modified procedures adopted to avoid or minimize the impact of similar events in the future.*

### Major Events

A major event is determined by having 10% of West Penn Power’s customers out of service for 5 minutes or greater as defined in 52 Pa. Code 57.192. This annual report for 2010 is based on the exclusion of major events on an individual operating company basis and is consistent with the major events reported in each of the 2010 quarterly reports. The major events for 2010, is as follows:

Time and Duration of the Event		Customers Affected	Cause of the Event	Commission Approval
Duration	11 days 2 hours 6 minutes	300,000	Storm event with heavy, wet snow.	Approved March 17, 2010
Start Date/Time	February 5, 2010 5:04pm			
End Date/Time	February 16, 2010 7:10pm			
Duration	3 days 7 hours 8 minutes	106,000	Storm event with strong winds and lightning.	Approved May 17, 2010
Start Date/Time	April 16, 2010 2:48pm			
End Date/Time	April 19, 2010 10:40pm			
Duration	3 days 8 hours 18 minutes	85,584	Storm system that contained strong winds and high lightning strikes.	Approved October 6, 2010
Start Date/Time	September 22, 2010 3:12pm			
End Date/Time	September 25, 2010 11:30pm			

*Section 57.195(b)(3)* A table showing the actual values of each of the reliability indices (SAIFI, CAIDI, SAIDI, and if available, MAIFI) for the EDC's service territory for each of the preceding 3 calendar years. The report shall include the data used in calculating the indices, namely the average number of customers served, the number of sustained customer minutes interruptions, the number of customers affected and the minutes of interruption. If MAIFI values are provided, the number of customer momentary interruptions shall also be reported.

### Reliability Indices

For the purposes of this report, all reliability reporting is based upon the PaPUC's definitions for "momentary outages" and "major events" (outage data excluded as a result of major events).

Historic 12-Month Rolling Reliability Indices <sup>1</sup>				
	Index	2008	2009	2010
<b>West Penn Power</b>	SAIFI	1.16	0.97	1.00
	CAIDI	168	166	190
	SAIDI	195	161	191
	Customer Minutes	137,404,253	113,827,264	136,121,784
	Customers Interrupted	818,562	686,453	715,735
	Customers Served <sup>2</sup>	704,518	708,940	713,122

36-Month Rolling Year-End 2010	West Penn Power	
	36-Month Standard	36-Month Actual
SAIFI	1.16	1.04
CAIDI	187	175
SAIDI	217	182

<sup>1</sup> MAIFI values are not available

<sup>2</sup> Represents the average number of customers served during the reporting period



*Section 57.195(b)(4) A breakdown and analysis of outage causes during the year being reported on, including the number and percentage of service outages, the number of customers interrupted, the customer interruption minutes categorized by outage cause such as equipment failure, animal contact, tree related, and so forth. Proposed solutions to identified service problems shall be reported.*

### *Outages by Cause*

<b>Outages by Cause</b>				
<b>2010 12-Month Rolling</b>	<b>West Penn Power</b>			
<b>Cause</b>	<b>Customer Minutes</b>	<b>Number of Sustained Interruptions</b>	<b>Customers Affected</b>	<b>% Based on Number of Outages</b>
OFF RIGHT-OF-WAY TREES	50,980,031	3,382	154,892	22.84%
OVERHEAD LINE MATERIAL	10,465,593	1,678	97,893	11.33%
UNKNOWN	6,743,951	1,581	63,009	10.68%
ANIMAL	3,154,622	1,428	39,248	9.65%
WEATHER	25,088,085	1,422	73,034	9.60%
PUBLIC/CUSTOMER	9,319,324	1,254	81,426	8.47%
OVERHEAD LINE EQUIPMENT	2,332,005	1,185	26,210	8.00%
RIGHT-OF-WAY TREES	14,543,676	981	53,817	6.63%
OVERHEAD WIRE	5,885,611	957	57,134	6.46%
UG CABLE	2,693,741	496	16,353	3.35%
SUBSTATION EQUIPMENT	3,393,848	147	37,373	0.99%
OTHER	897,256	131	9,793	0.88%
UG LINE EQUIPMENT	302,785	104	1,519	0.70%
UG LINE MATERIAL	272,232	44	1,552	0.30%
SERVICE EQUIPMENT	49,024	15	2,482	0.10%
<b>TOTAL</b>	<b>136,121,784</b>	<b>14,805</b>	<b>715,735</b>	<b>100.00%</b>

## Proposed Solutions – West Penn Power

West Penn Power believes that the greatest improvement in company-controllable outages will result from several initiatives in place to improve distribution reliability in Pennsylvania.

### Reliability Improvement Program (RIP)

West Penn Power maintains a Reliability Improvement Program to help address poorer performing distribution circuits. Many of the Ensure Reliable Service (ERS) programs, such as Annual Inspection and Maintenance (AIM), Pole Inspection, Vegetation Management, etc., are performed on a scheduled basis. RIP provides a way to address circuit reliability problems outside of these scheduled maintenance activities. A brief summary of the program is as follows:

- A report listing all circuit reliability information for the previous rolling 12-month period is created based on statistical performance. The Distribution Circuit Interruption Index (DCII), a composite index made up of SAIFI, SAIDI, CAIDI, ASAI, is used to rank all the distribution circuits.
- A detailed review of the poorest performing circuits is completed by field personnel and, if necessary, an improvement plan is developed.
- In addition to the poor performing circuits, the RIP teams will investigate any circuit which has been interrupted multiple times in the prior 12-month period. Corrective action, if necessary, is planned.
- To focus on isolated problems, the RIP teams will also investigate any sectionalizing device (line fuse or recloser) that has operated multiple times in a 12-month period. Corrective action, if necessary, is planned.

### Expanded Forestry Danger Tree Program

West Penn Power's Danger Tree Program consists of removing, or significantly reducing in height, diseased or damaged trees located outside the boundary of the right-of-way that pose a threat to service reliability and/or the integrity of the line under any weather condition. Beginning in 2003, West Penn Power began targeting live, healthy trees that pose a threat to service reliability and/or the integrity of the line by uprooting, breaking or otherwise falling onto the line.

### Reliability-based Vegetation Management Program

Rural distribution circuits are scheduled based on a predetermined formula which factors in time since last trimmed, tree related CMI over at least three years and the number of customers on the circuit. Rural circuits with the worst cumulative ranking should be made highest priority when scheduling. Circuits trimmed within the past three years are not eligible for schedule trimming evaluation. Urban distribution circuits are planned on a cyclical schedule based on time since last trimmed. If multiple urban circuits are scheduled for the same year, reliability stats will further prioritize for scheduling purposes.

*Section 57.195(b)(5) A list of the major remedial efforts taken to date and planned for circuits that have been on the worst performing 5% of circuits list for a year or more.*

### *Worst Performing Circuits – Remedial Action*

West Penn Power's Remedial Actions for its 5% Worst Performing Circuits are provided in Attachment A of this report.

*Section 57.195(b)(6) A comparison of established transmission and distribution inspections and maintenance goals/objectives versus actual results achieved during the year being reported on. Explanations of any variances shall be included.*

2010 Inspection and Maintenance Goals/Objectives		Planned	Completed
Distribution	Scheduled Circuit Inspection and Maintenance Program (circuits)	57	56
	Scheduled Circuit Maintenance Work from Employee Inspections (work requests)	76	22 <sup>3</sup>
	CAIDI 2 Projects	263	291
	Worst Performing Circuit Projects	18	16 <sup>4</sup>
	Small Planning Projects	45	36 <sup>5</sup>
	Large Planning Projects	6	3 <sup>6</sup>
	Miscellaneous Maintenance (man hours)	198,060	221,351
	Line Recloser Replacements	149	108 <sup>7</sup>
	Underground Equipment Inspections (locations)	14,300	14,081 <sup>8</sup>
	Underground Cable Replacement (feet)	45,000	25,300 <sup>9</sup>
	Priority Pole Replacements	201	185 <sup>10</sup>
	Annual Overhead Facility Inspection, Pole Inspection and Pole Treatment Done by Contractors (number of poles)	125,536	125,536 <sup>11</sup>
Forestry	Transmission Aerial Saw (Line Miles)	47	47 <sup>12</sup>
	Transmission Aerial Spray (Acres)	355	355 <sup>13</sup>
	Transmission Ground Spray (Acres)	1,085	931 <sup>14</sup>
	Transmission Tree Work (Line Miles)	114	99 <sup>15</sup>
	Subtransmission ROW Vegetation Maintenance (Line Miles)	567	456 <sup>16</sup>
	Distribution ROW Vegetation Maintenance (Line Miles)	1,223	984 <sup>17</sup>
Transmission	Comprehensive Patrol (Transmission Lines)	4	4
	General Patrol (Transmission Lines)	121	144
	SS Work (Preventative Maintenance only) (Man-hours)	19,865	20,165

<sup>3</sup> Higher priority work superseded completion of some lower priority work requests

<sup>4</sup> Plan increased to 18 due to one project that was completed on 1/6/2011 and another project that is in progress to be completed in 2011

<sup>5</sup> ROW issues delayed completion of these projects

<sup>6</sup> Budget constraints limited completion of two projects; third project achieved 2011 replacements but total project spans over multiple years

<sup>7</sup> Remaining budget used for replacement of failed switches, regulators and capacitors

<sup>8</sup> Remaining will be completed in 2011

<sup>9</sup> Some funding used for replacement of failed padmount equipment and some used for emergency cable replacements in other states

<sup>10</sup> Access and safety issues limited completion in 2010 – project completed in first quarter 2011

<sup>11</sup> This includes all 2010 poles including those inspected in 2009 (40,173) for 2010 cycle

<sup>12</sup> Met revised goal – deferred some previously scheduled work to future growing seasons

<sup>13</sup> Met revised goal – some inaccuracy involved in estimating planned work ahead of time

<sup>14</sup> Met revised goal – deferred some previously scheduled work to future growing seasons

<sup>15</sup> Met revised goal – deferred some previously scheduled work to future growing seasons

<sup>16</sup> Some work was deferred into future growing seasons to compensate for excessive storm costs incurred in 2010

<sup>17</sup> Some work was deferred into future growing seasons to compensate for excessive storm costs incurred in 2010

*Section 57.195(b)(7) A comparison of budgeted versus actual transmission and distribution operation and maintenance expenses for the year being reported on in total and detailed by the EDC's own functional account code of FERC account code as available. Explanations of any variances shall be included.*

*Budgeted vs. Actual T&D Operation & Maintenance Expenditures*

<b>T&amp;D O&amp;M (YTD December 2010)</b>				
<b>Category</b>	<b>YTD Actual</b>	<b>YTD Budget</b>	<b>Variance %</b>	<b>Notes<sup>a</sup></b>
Distribution Administrative	-1,707,307	-1,140,379	-50%	1
Distribution System	1,585,909	1,583,632	0%	
Asset Management	78,847	711,574	89%	2
Distribution Support	26,059,596	17,066,023	-53%	3
Field Operations	16,367,142	15,127,332	-8%	
Distribution Forestry	8,090,439	8,635,879	6%	
Transmission Other	635,066	18,163	-3396%	4
Substations	4,513,314	4,401,368	-3%	
Technical Services	3,026,467	3,407,731	11%	5
Transmission Forestry	2,874,840	1,911,370	-50%	6
Transmission Projects	-1,230	498,316	100%	7
Transmission Siting	906,080	781,264	-16%	8
EHV Projects	1,599	0		
Distribution Safety Training Quality	833,280	569,012	-46%	9
Transmission Reliability & System	225,330	226,343	0%	
EMS Support	1,126,238	1,141,308	1%	
Transmission System	1,891,680	1,924,292	2%	
Transmission Operations	124,833	143,546	13%	10
<b>Grand Total</b>	<b>66,632,123</b>	<b>57,006,774</b>		

<b><sup>a</sup> Variance Explanations</b>	
1	Insurance proceeds from major events
2	Higher capitalized labor split than what was planned, combined with higher credits for unauthorized attachments fees
3	Increase due to Feb 2010 major storm
4	Primarily a planned budget reduction realized by other groups
5	Planned staffing increases and related expenses delayed due to merger staffing freeze
6	Original budget was missing contractor supervision & contract foresters
7	Whitely SS Undermine costs billed to coal company
8	More Transmission siting work than budgeted
9	Staffing reorg moved actual costs to this cost center that were budgeted in Dist Admin cost center
10	More administration labor charged to capital EMS system replacement and new Transmission Headquarter Building construction than planned

*Section 57.195(b)(8) A comparison of budgeted versus actual transmission and distribution operation and maintenance capital expenses for the year being reported on in total and detailed by the EDC's own functional account code or FERC account code as available. Explanations of any variances 10% or greater shall be included.*

*Budgeted vs. Actual T&D Capital Expenditures*

<b>T&amp;D Capital (YTD December 2010)</b>				
<b>Category</b>	<b>YTD Actual</b>	<b>YTD Budget</b>	<b>Variance %</b>	<b>Notes<sup>a</sup></b>
EHV Substation	4,175,408	3,594,205	-16%	1
EHV Lines	296,249	2,622,153	89%	2
Transmission Substations	1,814,222	2,757,357	34%	3
Transmission Lines	4,320,350	2,862,138	-51%	4
Distribution Substations	8,740,931	10,825,101	19%	5
Distribution Lines	52,845,764	41,563,876	-27%	6
General Plant	13,422,551	8,226,605	-63%	7
Subtransmission Lines	1,296,447	210,722	-515%	8
<b>Grand Total</b>	<b>86,911,922</b>	<b>72,662,157</b>		

<b><sup>a</sup> Variance Explanations</b>	
1	EHV SS spending increased due to increased spending for disturbance monitoring and overstressed breakers
2	EHV Lines spend reduced due to increased Distribution Lines spend due to Feb. snow storm
3	Transmission SS spend reduced due to increased Distribution Lines spend due to Feb. snow storm
4	Trans. Lines spend increased due to more right-of-way clearing spent than originally estimated primarily for Mitchell-Shepler Hill Reconductoring; Customer CIAC timing; and Whitely-Franklin line rebuild started earlier than planned
5	Distribution SS spend reduced due to increased Distribution Lines spend due to Feb. snow storm
6	Over due to the Feb 2010 Major Snow Storm
7	Lease Vehicle Buyout
8	New Business Specific Projects increased spend

*Section 57.195(b)(9) Quantified transmission and distribution inspection and maintenance goals/objectives for the current calendar year detailed by system area (that is, transmission, substation and distribution).*

*T&D Inspection & Maintenance Programs – 2011 Goals / Objectives*

<b>T&amp;D Inspection &amp; Maintenance Programs - 2011</b>	
<b>Program/Project</b>	<b>West Penn Power</b>
<b>Forestry</b>	
Distribution	125 Miles
Transmission	2,800 Miles
<b>Transmission</b>	
Aerial Patrols	1
Wood Pole Groundline	167
<b>Substation</b>	
General Inspections	5,050
Transformers	390
Breakers	271
Relay Schemes	536
<b>Distribution</b>	
Capacitors	1,331
Poles	52,395
Reclosers	337
Radio-Controlled Switches	Not Applicable

Section 57.195(b)(10) *Budgeted transmission and distribution operation and maintenance expenses for the current year in total and detailed by the EDC's own functional account code or FERC account code as available.*

*2011 T&D O&M Budget*

<b>T&amp;D O&amp;M Budget - Annual 2011</b>	
<b>PUC Category</b>	<b>Total Year Budget</b>
Distribution Administrative	(890,209)
Distribution System Operations	1,391,119
Asset Management	587,144
Distribution Support	8,033,641
Field Operations	17,744,239
Distribution Forestry	13,691,518
Transmission Other	534,731
Substations	3,836,786
Technical Services - Delivery	2,421,154
Transmission Forestry	2,318,254
Transmission Projects	368,561
Transmission Siting	763,312
Distribution Safety Training Quality Assurance	646,913
Transmission Reliability & System Support	136,514
EMS Support	725,576
Transmission System Operations	1,212,273
Transmission Operations Admin	91,925
Transmission Engineering & Operations Admin	427,269
Transmission Planning & Compliance	351,672
Transmission Engineering	3,097,768
<b>Grand Total</b>	<b>57,490,160</b>

NOTE: Budgets subject to change



*Section 57.195(b)(11) Budgeted transmission and distribution capital expenses for the current year in total and detailed by the EDC's own functional account code or FERC account code as available.*

*2011 T&D Capital Budget*

<b>T&amp;D Capital - Annual 2011</b>	
<b>Category</b>	<b>Total Year Budget</b>
EHV Substation	3,859,969
EHV Lines	3,804,002
Transmission Substations	7,437,622
Transmission Lines	21,390,630
Distribution Substations	11,988,728
Distribution Lines	44,566,738
General Plant	7,087,482
Subtransmission Lines	1,197,351
<b>Total</b>	<b>101,332,522</b>

NOTE: Budgets subject to change

*Section 57.195(b)(12) Significant changes, if any, to the transmission and distribution maintenance programs previously submitted to the Commission.*

### *Changes to T&D Maintenance Programs*

West Penn Power continues to review the inspection and maintenance practices to confirm that they are consistent with industry standards and that they support the achievement of the applicable Commission reliability benchmarks and standards. The 2010 revisions to the inspection and maintenance practices are as follows:

<b>Summary of Revisions 2010</b>		
<b>Transmission and Distribution Program Changes</b>		
<b>Section #</b>	<b>Equipment</b>	<b>Summary of Change</b>
04-04	Overhead Lines - Distribution Capacitors	▪ Changed recommended timing of inspections and follow-up work to before summer load
04-08	Overhead Lines - Standing Wood Poles	▪ Redefined 'danger' poles and 'priority' poles

ATTACHMENT A

Worst Performing Circuits – Remedial Action

<b>West Penn Power</b>			
<b>Substation</b>	<b>Circuit</b>	<b>Remedial Action Planned or Taken</b>	<b>Status of Remedial Work</b>
Vanceville	Vanceville	Cycle tree trimming	To be completed in 2012
		Outage maps were created to identify outage and sectionalizing locations	Complete
		Utilized outage data to identify outage causes and sources of lockouts	Complete
Rutan	Windridge	Cycle tree trimming	To be completed in 2013
		Transfer a portion of the circuit to an adjacent substation to reduce exposure.	Complete
Fowler	Bald Eagle	Outage maps were created to identify outage and sectionalizing locations	Complete
		Utilized outage data to identify outage causes and sources of lockouts	Complete
		Cycle tree trimming	To be completed in 2012
Waterville	Waterville	Added isolating points and fault indicators as part of CAIDI improvement program	Complete
		Cycle tree trimming performed in 2009-2010	Complete
East Millsboro	East Millsboro	Install automatic air switches on the subtransmission feeding the substation	Complete
		Outage maps were created to identify outage and sectionalizing locations	Complete
		Utilized outage data to identify outage causes and sources of lockouts	Complete

IS HIGH  
NOISSIHWO ALITILN'S

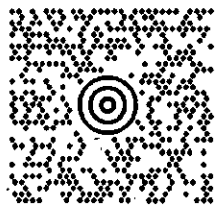
LORI B BARMAN  
330-252-6380  
FE SERVICE COMPANY  
76 SOUTH MAIN  
AKRON OH 44308

0.0 LBS



**SHIP TO:**

ROSEMARY CHIAVETTA, SECRETARY  
7177727777  
PENNSYLVANIA PUBLIC UTILITIES COMM  
COMMONWEALTH KEYSTONE BUILDING  
400 NORTH STREET, 2ND FLOOR  
**HARRISBURG PA 17120**



**PA 171 9-20**



**UPS NEXT DAY AIR**

TRACKING #: 1Z 475 886 01 9285 4513

**1**



BILLING: P/P

Trx Ref No.: 509119  
Bill Lading: ARG00199996

XOL 11.01.24

NV45 15.0A 04/2011

