City of Salamanca
BOARD OF PUBLIC UTILITIES
225 Wildwood Avenue
Salamanca, NY 14779
(716) 945-3130
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February 5, 2014

Hon. Jaclyn Brilling
Secretary
New York State Public Service Commission
Three Empire State Plaza
Albany, New York 12223-1350

Re: Case 04-M-0159 – Proceeding on Motion of the Commission to Examine the Safety of Electric Transmission and Distribution Systems

Dear Secretary Brilling:

Pursuant to the Public Service Commission's Order Directing Utility Filings issued January 5, 2005, in the above-referenced proceedings, the Salamanca Board of Public Utilities submits this comprehensive compliance report. The report describes the Salamanca Board of Public Utilities stray voltage detection and equipment inspection program conducted in 2013.

If you have and questions concerning this report, please contact the undersigned.

Respectfully submitted,

Keith King – General Manager

Cc: NYMPA

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Stray Voltage Detection and Equipment Inspection Report

2013 Stray Voltage Detection and Equipment Inspection Report
City of Salamanca – Board of Public Utilities

On January 5, 2005, the Public Service Commission ("PSC") issued an order instituting Electric Safety Standards. The Standards require utilities to conduct an annual system-wide stray voltage detection program and an equipment inspection program to mitigate stray voltage risks to the public.

This report describes the Salamanca Board of Public Utilities stray voltage detection program and equipment inspection program conducted in 2013 and addresses the following:

1. Results of the stray voltage testing program
2. Additional stray voltage detection
3. Results of the electrical facility inspection program
4. Adherence to PSC Performance Mechanism
5. Analysis of results
6. Additional stray voltage related initiatives
7. Future improvements
8. Certification of stray voltage and inspection program

Overview of Salamanca Board of Public Utilities **Electric System**

The Salamanca BPU owns and operates three electrical substations. All three substations are feed from National Grids #153, and # 154, 115 Kv transmission lines. Our two main substations are 15 Mw stations with a primary distribution voltage of 4800 delta. Each of these substation have 8 distribution circuit breakers for a total of 16 distribution circuits. The 4800 delta primary distribution voltage is being delivered via approximately 3650 distribution poles and 68 miles of conductor. Salamanca has 1090 line transformers, 2389 street lights, and 7 traffic control devices is service at this time.

The BPU commissioned a new substation in 2006 which utilizes two 10 Mva load tap changing transformers to supply 13.2 Kv distribution voltage. This 13.2 Kv substation is currently being used to feed one customer's facility via 3 underground feeders. Three spare circuits are available for future expansion.

Section 1
2013 Stray Voltage Testing Program

The Salamanca BPU used linemen to test publicly accessible facilities capable of conducting electricity, for stray voltages, which could cause harm through casual contact. The Salamanca BPU tested, underground, overhead, streetlights, and substation facilities. The BPU has no transmission facilities.

Under Ground

- Scope
  - Structures tested were 18 pad mount transformers, 21 chain link fencing cages that restrict public access to transformers, and 68 vault/manhole covers, 1 outdoor metal clad switch gear, and riser poles to underground services.
  - Pad mount transformers that are enclosed by non-conductive fencing (wood) and are not publicly accessible, were not accessible tested.

- Overall Program
  - Testing began in September of 2013 and was completed by December 31, 2013.
  - Electric department linemen worked together to perform stray voltage testing.
  - Data was recorded via laptop computer on electronic test sheets and stored in access data base.

- Test Procedure
  - Test device used was a Amprobe model # K-1 Touchless AC voltage indicator.
  - Lead Testing was performed by Electric Department Lineman Seth Hostuttler with follow up retesting by line crew personnel.
  - Test method per manufactures instructions.
  - Quality assurance due to having Electric department linemen retesting questionable initial test results. Random inspections by supervisor guaranteed quality of employee's testing methods.
- Results
  - Gross results – All publicly accessible structures were tested in the underground category.
  - There were no positive tests resulting from underground facilities testing.
  - No repairs were needed on underground facilities.

Overhead

- Scope

  Our system has approximately 3650 overhead distribution poles. Wooden poles were tested which included 1248 guys / anchors and 868 down grounds.

- Overall Program
  - Testing began in September of 2013 and was completed by December 31, 2013.
  - Electric department linemen worked together to perform stray voltage testing.
  - Data was recorded via laptop computer on electronic test sheets and stored in access data base.

- Test Procedure
  - Test device used was a Amprobe model # K-1 Touchless AC voltage indicator.
  - Lead Testing was performed by Electric Department Lineman Seth Hostuttler with follow up retesting by line crew personnel.
  - Test method per manufactures instructions.
  - Quality assurance due to having Electric department linemen retesting questionable initial test results. Random inspections by supervisor guaranteed quality of employee's testing methods.

- Results
  - One positive test of stray voltage was found on a wooden distribution poles down ground. After further investigation it was discovered that the pole had extensive decay down through the center of the pole. Within the next few working days the pole and all of its associated equipment was replaced. Replacing the pole and hardware eliminated the stray voltage.

Streetlights

- Scope
  - Approximately 80 percent of street lighting is owned by the Salamanca BPU were the other 20 percent would be privately owned.
  - Metal street light poles accounted for approximately 400 of lights tested.
  - 12 Traffic signal poles and 6 traffic signal pedestals were tested.
  - The remainder of our Systems Street and highway lighting would be mounted on wooden poles or the exterior of buildings for a total count of 2389 street lights.
  - Streetlights or Security lights that are mounted on the exterior of buildings or in fenced in areas and are not publicly accessible were not tested.

- Overall Program
    - Testing began in September of 2013 and was completed by December 31, 2013.
    - Electric department linemen worked together to perform stray voltage testing.
    - Data was recorded via laptop computer on electronic test sheets and stored in access data base.

- Test Procedure
    - Test device used was a Amprobe model # K-1 Touchless AC voltage indicator.
    - Lead Testing was performed by Electric Department Lineman Seth Hostuttler with follow up retesting by line crew personnel
    - Street light testing occurred in the evening hours after the photocells would activate to energize the light.
    - Test method per manufactures instructions.
    - Quality assurance due to having Electric department linemen retesting questionable initial test results. Random inspections by supervisor guaranteed quality of employee's testing methods

- Results
    - There were no positive tests resulting from Street Light testing.
    - No repairs were needed on Street Lighting.

Substations

- Scope
    - The Salamanca BPU operates three substations that are un-accessible to the public. The sub stations are enclosed in chain link fencing with the distribution circuits exiting the sub station via underground conduits to riser poles.

- Overall Program
    - Testing was on the substation enclosure fencing, riser pole conduits and electrical vault covers outside of substation enclosures.
    - Testing began in September of 2013 and was completed by December 31, 2013.
    - Electric department linemen worked together to perform stray voltage testing.
    - Data was recorded via laptop computer on electronic test sheets and stored in access data base.

- Test Procedure
    - Test device used was a Amprobe model # K-1 Touchless AC voltage indicator.
    - Lead Testing was performed by Electric Department Lineman Seth Hostuttler with follow up retesting by line crew personnel
    - Test method per manufactures instructions.
    - Quality assurance due to having Electric department linemen retesting questionable initial test results. Random inspections by supervisor guaranteed quality of employee's testing methods.

- Results
    - There were no positive tests resulting from stray voltage testing at our sub station facilities.

Transmission

The Salamanca BPU has no transmission facilities under its control.

Section 2
Additional Stray Voltage Detection

Routine Work Stray Voltage Testing

- The Salamanca BPU has been testing for stray voltage during routine work procedures.
- While making repairs to pedestrian lighting that had been vandalized under a railroad overpass, stray voltage was detected on the conduit that fed the lighting via underground conduit from an adjacent riser pole. Voltage readings on the conduit were approximately 22 volts to ground. Stray voltage was eliminated by removing the underground conduit and energizing the pedestrian lighting via overhead twist.

Reports from the Public

- There were no reports of stray voltage detection from our customers.

Section 3
2013 Electrical Facility Inspection Program

Introduction The Salamanca Board of Public Utilities approach to inspections was to have lineman or utility company employees inspect facilities and update our operating properties books. Facilities were chosen for inspections by the distribution feeder that they were connected to. The Salamanca BPU conducted separate inspection for all facilties connected to feeders #1, 2, 3, & 4, being fed from our Rochester St. #1 Substation in 2010, and facilities connected to the feeders # 5, 6, 7, & 8 were inspected in 2011.

The Salamanca BPU continued this approach by inspecting feeders # 1, 2, 3, & 5 originating from our Frank St.#2 substation in 2012.
The four remaining feeders from Frank St. #2 substation were inspected in 2013.

Under Ground distribution feeders originating from our Frank St. #3 substation will be inspected in 2014.

The Salamanca BPU continued its discrete re-inspection of our substations this year. Each year we do transformer oil testing. We had thermal imaging testing performed this year by NYPA personnel. We also do weekly visual inspections and quarterly battery bank testing.

Due to Salamanca's efforts to improve our data collection and operating property records we discovered that several inspection records for overhead equipment were not reported for the 2010 and 2012 inspection cycles. Those records have been updated and are now included on the Inspection summary report this year.

The Salamanca BPU has no transmission facilities.

- The Salamanca BPU has inspected 96 % of its OH system equipment as of December 2013. OH equipment population: 3650 poles which include 1090 line transformers.
- Required inspections on all UG distribution system equipment during routine work (UG equipment population: 57 UG services which includes 18 pad mount transformers and 68 vaults/ manholes. 70% of inspections have been accompliced to date.
- The Salamanca BPU continued a substation inspection program by performing a discrete, station-wide inspection of all equipment at its Rochester St. substation.

- The Salamanca BPU does not have OH transmission equipment.

- The Salamanca BPU does not have UG transmission equipment.

Overhead Distribution

- Scope
  - Over head distribution equipment to be inspected was defined as the number of poles in our system. The number of poles were approximated using operating property records and system maps. The Salamanca BPU maintains approximately 3650 poles.
- Procedure
  - Inspection were accomplished by visual examination.
  - Electrical linemen worked together to inspect the poles and equipment on the poles. They manually recorded condition of said equipment and updated operating property records.
  - Inspection records were electronically entered on inspection sheets and stored in an access data base.
  - Quality assurance due to having employees overseeing each other's work.
  - Random inspections by supervisor guaranteed quality of employee's inspections and record keeping.
- Results
  - Inspections have been performed on 3514 poles sections, over the past four years, with few major damage or deficiencies found. Minor deficiencies such as aging cross arms and slight insect damage has been noted on inspection sheets to be monitored.
  - There were a few sections identified as needing tree trimming or tree removal to protect OH facilities from possible damage. These identified areas will be attended to over the next year.
  - Older 3 wire service connections have noted for replacement.
  - Older cross arm sections with wooden pins have been identified for future rebuild or replacement.

UG Distribution

- Scope
  - The Salamanca BPU has 57 underground services that it feeds. Our system has two dedicated underground distribution feeders for a casino complex. These feeders were installed in 2006 are being fed by our 13.2Kv substation upgrade. These feeders have been extensively tested and inspected along with their associated vaults and switchgear. These feeders are scheduled for re-inspection in 2014.

- Procedure
  - Padmount transformers and underground services were visually inspected for physical damage to exterior of transformer compartments, damage to conduits and signs of oil leakage. Underground vaults were checked of signs of cover damage and stray voltage tested.
  - Inspections were preformed by electric department employees during normal working hours.

- Results
    - There were no signs of physical damage to any of our equipment that was inspected. Normal signs of paint weathering were noted on padmount transformers.

Substations

- Scope
    - The Salamanca BPU operates two 15 Mw substations which are feed from National Grids #153 and # 154, 115 Kv transmission lines. Each substation has 8 distribution circuit breakers for a total of 16 distribution circuits at a distribution voltage is 4800 delta. Our Frank St. substation was thoroughly inspected in 2011. Our Rochester St. substation has been inspected this year. This includes voltage regulator inspection and oil testing. Routine visual inspection are performed weekly. Oil testing is performed every year on power transformers. Relay testing and calibration was performed at both of our substations this year.
- Procedure
    - Visual walk through inspections are done at least once a week.
    - Annual transformer oil testing.
    - Voltage regulators were inspected for physical deficiencies, paint, proper operations, and oil tested.
    - Relays were cleaned, calibrated, and tested for proper operation.
    - Substation battery bank testing is preformed in accordance with manufacturer's instructions on a quarterly and yearly basis.
    - Thermal imaging was performed to identify any possible hot connections.
- Results
    - No deficiencies were found as a result of oil testing of transformers or regulators.
    - Thermal imaging identified one feeder disconnect switch on riser poles, at each substation, showing signs of overheating. Both switches were replaced.
    - No other deficiencies were found.

Streetlights

- Scope
    - Street lights were visually inspected for damage and proper operation.
- Procedure
    - Street lights were visually inspected from the ground in conjunction with stray voltage testing. Inspections were performed in the evening hours to evaluate proper operation. Street lights not operating properly were noted for repair.
- Results
    - Street lights not operating properly were repaired as part of our routine work schedule over the next few days.

Section 4
Public Service Commission Performance Mechanism

The PSC Safety Order requires 100% of publicly accessible electric facilities and streetlights be tested for stray voltage. As a result of our stray voltage testing program for 2013, we found two indications of stray voltage. One decaying pole had voltage traveling to ground from aging disconnects. One pole with aging conduit, supplying power underground to pedestrian lighting, was found to have stray voltage to ground. Repairs were made immediately after the discovery of the voltage on each facility.

The PSC Safety Order requires 20% of all electrical facilities to be inspected each year. Above Section 3 should account for all electrical facility inspections to meet the 20% threshold per year.

Damage or deficiencies discovered throughout or system are repaired on a daily basis. No problems needing immediate repairs were found due to the inspection program. The facilities inspections will aide us in creating " watch list " for aging equipment.

Section 5
Analysis of Results

As a result of our stray voltage testing program for 2013,we realize the need to continue testing for stray voltage as a routine work practice.

Section 6
Stray Voltage Initiatives

- The Salamanca BPU continue implementing a policy of testing for stray voltage during routine work procedures. Facilities testing will be done on an as found and as left basis for routine field work on the job site.

Section 7
Future Improvements

We are continuing to work on improving our data collection systems software to manage facilities inspection records.

Section 8
Certification of Stray Voltage and Inspection Program

The due diligence and test-completion certification of the company's officer responsible for overseeing stray voltage testing follows in Appendix A.

The due diligence and inspection-completion certification of the company officer responsible for overseeing facility inspections follows in Appendix B.

The Salamanca Board of Public Utilities is using the Amprobe model K-1, Kwik-I-E non-contact Volt and Amp probe for testing under this program. It has had prior certification of operating in the 6 to 600volt range.

APPENDIX - B

CERTIFICATION

The Public Service Regulation requires that "..the president or officer of each utility with direct responsibility for overseeing the inspection program shall provide an annual certification to the Commission that the utility has inspected the necessary percentage and portion of its electric facilities and equipment.

State of New York

County of Cattaraugus

Keith King makes oath and says: I am the General Manager of the Board of Public Utilities for the City of Salamanca. I am familiar with the Inspection Program performed annually and the various program procedures and forms assembled to complete this confirmation. I certify the program records are true and correct to the best of my knowledge and belief. As to elements not directly stated upon my knowledge, the source of my information and the grounds for my belief are as follows: ... the departments various operational reports, repair orders, and work schedule.

Signature

Subscribed and sworn to before me a

Keith King

this 14th day of February 2014

L.S.

Signature of Notary

TRACY CHAMBERLAIN
NOTARY PUBLIC, STATE OF NEW YORK
QUALIFIED IN CATTARAUGUS COUNTY
NO. 01CH6018023
MY COMMISSION EXPIRES 12/24/2014

APPENDIX - A

CERTIFICATION

The Public Service Regulation requires that "..the president or officer of each utility with direct responsibility for overseeing stray voltage testing shall provide an annual certification to the Commission that the utility has tested all of its **publicly accessible** electric facilities and all streetlights."

State of New York

County of Cattaraugus

Keith King makes oath and says: I am the General Manager of the Board of Public Utilities for the City of Salamanca and I am familiar with the Testing Program performed annually and the various program procedures and forms assembled to complete this confirmation. I certify the program records are true and correct to the best of my knowledge and belief. As to elements not directly stated upon my knowledge, the source of my information and the grounds for my belief are as follows: ... the departments various operational reports, repair orders, and work schedule.

Signature

Subscribed and sworn to before me a

Keith King

this 14th day of February 2014

TRACY CHAMBERLAIN
NOTARY PUBLIC, STATE OF NEW YORK
QUALIFIED IN CATTARAUGUS COUNTY
NO. 01CH6018023
MY COMMISSION EXPIRES 12/31/2014

L.S.

Signature of Notary

Salamanca BPU 2010- 2014 Inspection Summary	Total System Units	2010 Units Completed	2011 Units Completed	2012 Units Completed	2013 Units Completed	2014 Units Completed	2010 - 2014 Units Completed	2010 - 2014 Percent Completed
Distribution Poles	3,650	946	980	873	715	0	3,514	96.27%
Underground Facilities	57	11	11	17	1	0	40	70.18%
Street Light / Traffic Signals	2,389	386	532	624	411	0	1,953	81.75%
Substation Fences	2	0	1	0	1	0	2	100.00%
Transmission	0	0	0	0	0	0	0	#DIV/0!
Total	6,098	1,343	1,524	1,514	1,128	0	5,509	90.34%

ATTACHMENT 1

Summary of Energized Objects

	Initial Readings				Readings after Mitigation		
	1-4.4 V	4.5-24.9 V	> 25 V	Totals	< 1 V	1 V-4.4 V	>4.5 V
Distribution Facilities							
Pole		1		1	1		
Ground							
Guy							
Riser							
Other							
Underground Facilities				0			
Service Box							
Manhole							
Padmount Switchgear							
Padmount Transformer							
Vault – Cover/Door							
Pedestal							
Other							
Street Lights / Traffic Signals				0			
Metal Street Light Pole							
Traffic Signal Pole							
Pedestrian Crossing Pole							
Traffic Control Box							
Other							
Substation Fences				0			
Fence							
Other							
Transmission (Total)				0			
Lattice Tower							
Pole							
Ground							
Guy							
Other							
Miscellaneous Facilities				0			
Sidewalk							
Gate/Fence/Awning							
Control Box							
Scaffolding							
Bus Shelter							
Fire Hydrant							
Phone Booth							
Control Box							
Water Pipe							
Riser		1		1	1		
Other							

ATTACHMENT 2

Summary of Shock Reports from the Public

I. Total shock calls received:	0
Unsubstantiated	
Normally Energized Equipment	
Stray Voltage:	
Person	
Animal	
II. Injuries Sustained/ Medical Attention Received	0
Person	
Animal	
III. Voltage Source:	
Utility Responsibility	
Issue with primary, joint, or transformer	
Secondary Joint (Crab)	
SL Service Line	
Abandoned SL service line	
Defective service line	
Abandoned service line	
OH Secondary	
OH Service	
OH Service neutral	
Pole	
Riser	
Other	
Customer Responsibility	
Contractor Damage	
Customer Equipment/Wiring	
Other Utility/Gov't Agency Responsibility	
SL Base Connection	
SL Internal Wiring or Light Fixture	
Overhead Equipment	
Other	
IV. Voltage Range:	
1.0V to 4.4V	
4.5V to 24.9V	
25V and above	

Visual Inspection Program

Summary of Deficiencies and Repair Activity Resulting from the Inspection Process - Distribution

Overhead Facilities	2009			2010			2011			2012			2013		
Priority Level	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III
Repair Expected	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years
Poles															
Pole Condition															
Number of Deficiencies		**1**	**1**		**8**	**2**		**2**	**4**			**1**		**1**	**4**
Repaired in Time Frame		1	1		8	2		2	2					1	
Repaired - Overdue															
Not Repaired - Not Due									2			1			4
Not Repaired - Overdue															
Grounding System															
Number of Deficiencies										**16**					
Repaired in Time Frame										16					
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Anchors/Guy Wire															
Number of Deficiencies		**1**													
Repaired in Time Frame		1													
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Cross Arm/Bracing															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Riser															
Number of Deficiencies														**1**	
Repaired in Time Frame														1	
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Conductors															
Primary Wire/Broken Ties															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Secondary Wire															
Number of Deficiencies		**1**													
Repaired in Time Frame		1													
Repaired - Overdue															
Not Repaired - Not Due															

Visual Inspection Program

Summary of Deficiencies and Repair Activity Resulting from the Inspection Process - Distribution

Overhead Facilities	2009			2010			2011			2012			2013		
Priority Level	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III
Repair Expected	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years
Not Repaired - Overdue															
Neutral															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Insulators															
Number of Deficiencies	**2**														
Repaired in Time Frame	2														
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Pole Equipment															
Transformers															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Cutouts															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Lightning Arrestors															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Other Equipment															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Miscellaneous															
Trimming Related															
Number of Deficiencies	**1**	**3**			**4**	**1**		**4**			**2**				
Repaired in Time Frame	1	3			4	1		4							
Repaired - Overdue															

Visual Inspection Program

Summary of Deficiencies and Repair Activity Resulting from the Inspection Process - Distribution

Overhead Facilities	2009			2010			2011			2012			2013		
Priority Level	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III
Repair Expected	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years
Not Repaired - Not Due											2				
Not Repaired - Overdue															
Other															
Number of Deficiencies	1														
Repaired in Time Frame	1														
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Overhead Facilities Total															
Total															
Number of Deficiencies	4	6	1	8	4	3		6	4	16	2	1	1	1	4
Repaired in Time Frame	4	6	1	8	4	3		6	2	16			1	1	
Repaired - Overdue															
Not Repaired - Not Due									2		2	1			4
Not Repaired - Overdue															

Visual Inspection Program

Summary of Deficiencies and Repair Activity Resulting from the Inspection Process - Transmission															
Transmission Facilities	**2009**			**2010**			**2011**			**2012**			**2013**		
Priority Level	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III
Repair Expected	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years
Towers/Poles															
Steel Towers															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Poles															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Anchors/Guy Wire															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Crossarm/Brace															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Grounding System															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Conductors															
Cable															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Static/Neutral															
Number of Deficiencies															
Repaired in Time Frame															

Visual Inspection Program

Summary of Deficiencies and Repair Activity Resulting from the Inspection Process - Transmission																
Transmission Facilities	**2009**			**2010**			**2011**			**2012**			**2013**			
Priority Level	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	
Repair Expected	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	
Repaired - Overdue																
Not Repaired - Not Due																
Not Repaired - Overdue																
Insulators																
Number of Deficiencies																
Repaired in Time Frame																
Repaired - Overdue																
Not Repaired - Not Due																
Not Repaired - Overdue																

Visual Inspection Program

Summary of Deficiencies and Repair Activity Resulting from the Inspection Process - Transmission															
Transmission Facilities	**2009**			**2010**			**2011**			**2012**			**2013**		
Priority Level	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III
Repair Expected	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years
Miscellaneous															
Right of Way Condition															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Other															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Transmission FacilitiesTotal															
Total															
Number of Deficiencies	_0			_0	_0	_0	_0	_0	_0	_0	_0	_0	_0	_0	_0
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															

Visual Inspection Program

Summary of Deficiencies and Repair Activity Resulting from the Inspection Process - Underground

Underground Facilities	2009			2010			2011			2012			2013		
Priority Level	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III
Repair Expected	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years
Underground Structures															
Damaged Cover															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Damaged Structure															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Congested Structure															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Damaged Equipment															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Conductors															
Primary Cable															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Secondary Cable															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Neutral Cable															
Number of Deficiencies															

Visual Inspection Program

Summary of Deficiencies and Repair Activity Resulting from the Inspection Process - Underground

Underground Facilities	2009			2010			2011			2012			2013		
Priority Level	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III
Repair Expected	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Racking Needed															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Miscellaneous															
Other															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Underground Facilities Total															
Total															
Number of Deficiencies	0			0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															

Summary of Deficiencies and Repair Activity Resulting from the Inspection Process - Pad Mount Transformers

Pad Mount Transformers	2009			2010			2011			2012			2013		
Priority Level	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III
Repair Expected	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years
Pad Mount Tansformers															
Damaged Structure															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Damaged Equipment															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Cable Condition															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Oil Leak															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Off Pad															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Lock/Latch/Penta															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															

Miscellaneous					
Other					
Number of Deficiencies					
Repaired in Time Frame					
Repaired - Overdue					
Not Repaired - Not Due					
Not Repaired - Overdue					
Pad Mount Total					
Total					
Number of Deficiencies	_0	_0 _0 _0	_0 _0 _0	_0 _0 _0	_0 _0 _0
Repaired in Time Frame					
Repaired - Overdue					
Not Repaired - Not Due					
Not Repaired - Overdue					

Visual Inspection Program

Summary of Deficiencies and Repair Activity Resulting from the Inspection Process - Streetlights

Overhead Facilities	2009			2010			2011			2012			2013		
Priority Level	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III
Repair Expected	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years	Within 1 week	Within 1 year	Within 3 years
Streetlight															
Base/Standard/Light															
Number of Deficiencies	2														
Repaired in Time Frame	2														
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Handhole/Service Box															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Service/Internal Wiring															
Number of Deficiencies	1														
Repaired in Time Frame	1														
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Access Cover															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Miscellaneous															
Other															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Streetlight Total															
Total															
Number of Deficiencies	3			0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	3														
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															

Summary of Deficiencies and Repair Activity Resulting from the Inspection Process - Level IV Conditons

Overhead Facilities	2009		2010		2011		2012		2013	
	Number of Conditions Found	Number of Conditions Repaired	Number of Conditions Found	Number of Conditions Repaired	Number of Conditions Found	Number of Conditions Repaired	Number of Conditions Found	Number of Conditions Repaired	Number of Conditions Found	Number of Conditions Repaired
Overhead Facilities										
Pole Condition										
Pole Condition										
Grounding System					1	1	1	1		
Anchors/Guy Wire					3	3				
Cross Arm/Bracing										
Riser										
Conductors										
Primary Wire/Broken Ties										
Secondary Wire										
Neutral										
Insulators										
Pole Equipment										
Transformers										
Cutouts										
Lightning Arrestors										
Other Equipment										
Miscellaneous										
Trimming Related	1	0	1	1	6	6	2	2	10	10
Other									1	1
Overhead Facilities Total	1	0	1	1	10	10	3	3	11	11
Transmission Facilities										
Towers/Poles										
Steel Towers										
Poles										
Anchors/Guy Wire										
Crossarm/Brace										
Grounding System										
Conductors										
Cable										
Static/Neutral										
Insulators										
Miscellaneous										
Right of Way Condition										
Other										
Transmission Facilities Total	0		0		0		0		0	0

Underground Facilities										
Underground Structures										
Damaged Cover										
Damaged Structure										
Congested Structure										
Damaged Equipment										
Conductors										
Primary Cable										
Secondary Cable										
Neutral Cable										
Racking Needed										
Miscellaneous										
Other										
Underground Facilities Total	0		0		0		0		0	0
Pad Mount Transformers										
Underground Structures										
Damaged Structure										
Damaged Equipment										
Damaged Cable										
Oil Leak										
Off Pad										
Lock/Latch/Penta										
Miscellaneous										
Other										
Pad Mount Transformer Total	0		0		0		0		0	0
Streetlights										
Streetlight										
Base/Standard/Light			34	34					3	3
Handhole/Service Box										
Service/Internal Wiring			15	15						
Access Cover										
Miscellaneous										
Other - Bulbs/photo cells			364	364	42	42	16	16	3	3
Streetlight Total			413	413	42	42	16	16	6	6
Total Level IV Conditions										
Overall Total	1	0	414	414	52	52	19	19	17	17

Visual Inspection Program

Summary of Deficiencies and Repair Activity Resulting from the Inspection Process							
Year	Prority Level / Repair Expected		Deficiencies Found (Total)	Repaired In Time Frame	Repaired - Overdue	Not Repaired - Not Due	Not Repaired - Overdue
2009							
	I	Within 1 week	7	7			
	II	Within 1 year	6	6			
	III	Within 3 years	1	1			
	IV	N/A	1	1			
2010							
	I	Within 1 week	8	8			
	II	Within 1 year	2	2			
	III	Within 3 years	3	3			
	IV	N/A	414	414			
2011							
	I	Within 1 week					
	II	Within 1 year	6	6			
	III	Within 3 years	4	3		1	
	IV	N/A	52	52			
2012							
	I	Within 1 week	16	16			
	II	Within 1 year					
	III	Within 3 years	1	1			
	IV	N/A	19	19			
2013							
	I	Within 1 week	1	1			
	II	Within 1 year	1	1			
	III	Within 3 years	4			4	
	IV	N/A	17	17			