City of Salamanca
BOARD OF PUBLIC UTILITIES
225 Wildwood Avenue Suite 6
Salamanca, NY 14779-1580
(716) 945-3130
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January 4, 2018

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 2017.

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

Respectfully submitted,

Dawn Fish

Dawn Fish
Business Office Manager

cc: NYMPA

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BOARD OF PUBLIC UTILITIES
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Salamanca, NY 14779
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Stray Voltage Detection and Equipment Inspection Report

2017 Stray Voltage Detection & 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 2016 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:

The Salamanca BPU owns and operates three electrical substations. All three are fed from National Grids #153 & #154 115 KV transmission lines. Our two main substations are 15 MW stations with a primary distribution voltage of 4800 delta. Each of these substations has 8 distribution circuit breakers for a total of 16 distribution circuits. The 4800 delta primary distribution voltage is being delivered via approximately 3260 distribution poles and 68 miles of conductor. Salamanca has 1097 line transformers, 2328 street lights, and seven traffic control devices it services 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 a single customer via three underground feeders. Three spare circuits are available for future expansion.

Section 1

2017 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.

Underground

- Scope
  - Structures tested were pad mount transformers, chain link fencing cages that restrict public access to transformers, vault/manhole covers, one 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 tested.

- Overall Program
  - Testing began September 22,2017 and was completed on October19,2017.
  - Electric department linemen worked together to perform stray voltage testing.
  - Data was recorded by Kevin Winship via laptop computer on electronic test sheets and stored in access data base.

- Test Procedure
  - Test device used was an Amprobe model #K-1 Touchless AC voltage indicator.
  - Lead testing was performed by Electric Department Lineman, Kevin Winship, with follow up retesting by line crew personnel.
  - Test method per manufacturer's instructions.
  - Quality assurance due to having Electric Department Linemen retesting questionable initial test results. Random inspections by Supervisor, David James, 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 3254 wooden distribution poles
  - Wooden poles were tested which included 1414 guys / anchors and 1115 down grounds.

- Overall Program
  - Testing began September 22,2017, and was completed by October 19,2017.
  - Electric Department Linemen worked together to perform stray voltage testing.
  - Data was recorded by Kevin Winship via laptop computer on electronic test sheets and stored in access data base.

- Test Procedure
  - Test device used was an Amprobe model # K-1 Touchless AC voltage indicator.
  - Lead testing was performed by Electric Department Lineman, Kevin Winship, with follow up retesting by line crew personnel.
  - Test method per manufacturer's instructions.
  - Quality assurance due to having Electric Department Linemen retesting questionable initial test results. Random inspections by Supervisor, David James, guaranteed quality of employee's testing methods.

- Results
  - No positive tests were found this calendar year within our distribution system.

Streetlights

- Scope
  - Approximately 80 percent of street lighting is owned by the Salamanca BPU where the other 20 percent would be privately owned.
  - Metal street light poles accounted for approximately 452 of lights tested.
  - 13 traffic signal poles and 6 traffic signal pedestals were tested.
  - The remainder of our System's street and highway lighting would be mounted on wooden poles or the exterior of buildings for a total count of 2,378 street lights,of that amount 318 are new LED cobra heads.
  - 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 September 22,2017, and was completed by October 19,2017.
  - Electric Department Linemen worked together to perform stray voltage testing.

- Data was recorded by Kevin Winship via laptop computer on electronic test sheets and stored in access data base.

- Test Procedure
  - Test device used was an Amprobe model # K-1 Touchless AC voltage indicator.
  - Lead testing was performed by Electric Department Lineman, Kevin Winship, 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 manufacturer's instructions.
  - Quality assurance due to having Electric Department Linemen retesting questionable initial test results. Random inspections by Supervisor, David James, 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 substations are enclosed in chain link fencing with the distribution circuits exiting the substation 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 September 22,2017 and was completed by October 19,2017.
  - 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 an Amprobe model # K-1 Touchless Ac voltage indicator.
  - Lead testing was performed by Electric Department Lineman, Kevin Winship, with follow up retesting by line crew personnel.
  - Test method per manufacturer's instructions.
  - Quality assurance due to having Electric Department Linemen retesting questionable initial test results. Random inspections by Supervisor, David James, guaranteed quality of employee's testing methods.

- Results
  - There were no positive tests resulting from stray voltage testing at our substation 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.

- There have been no reports of stray voltages found during routine work this calendar year.

Reports from the Public

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

Section 3
2017 Electrical Facility Inspection Program

The Salamanca Board of Public Utilities' approach to inspections was to have linemen 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 facilities connected to feeders #1, 2, 3, and 4, being fed from our Rochester St. #1 Substation in 2015, and facilities connected to the feeders #5, 6, 7, and 8 were inspected in 2016. The Salamanca BPU will continue this approach by inspecting feeders #1, 2, 3, and 5 originating from our Frank St. #2 Substation in 2017, and the four remaining feeders from Frank St. #2 Substation will be inspected in 2018.

Inspections of the Under Ground distribution feeders originating from our Frank St. #3 substation were completed in 2014. Three feeders from this substation are in use and are being utilized by one customer's facilities. All electrical manholes and vaults serving these feeders were visually inspected and photographed for future reference. This will be done again in 2018. The Salamanca BPU continued by inspecting feeders 1, 2, 3, 4, from Rochester Street Substation #1 and was completed in 2015. Feeders 5,6,7,8 were inspected and completed in 2016. Feeders 1,2,3,4 from our Frank St. Sub 2 were inspected and completed in 2017.

Pad mount transformers and their associated bases were also inspected for deficiencies.

The Salamanca BPU continually monitors our substations for deficiencies. Each year we do transformer oil testing on our substation power transformers. We also perform annual oil testing on our Substation voltage regulators. We had thermal imaging testing performed this year by NYPA personnel. We also do weekly visual inspections and quarterly battery bank testing.

The Salamanca BPU has no transmission facilities.

- The Salamanca BPU has inspected 40% of its OH system equipment as of November 2017. OH equipment population: 3254 poles which include 1097 line transformers.
- Required inspections on all UG distribution system equipment during routine work (UG equipment population: 62 UG services which includes 26 pad mount transformers. 100% of inspections have been accomplished to date.
- The Salamanca BPU does not have OH transmission equipment.
- The Salamanca BPU does not have UG transmission equipment.

Overhead Distribution

- Scope
  - Overhead 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 3,254 poles. All of the distribution poles have been inspected over the past four years. Reinspection of all poles has begun again in 2017.

- Procedure
  - Inspection was 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 all pole sections over the past five 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. Most if not all have been repaired or replaced to date.
  - There were a few sections identified as needing tree trimming or vine removal to protect OH facilities from possible damage. These identified areas have all been attended to by year's end.

UG Distribution

- Scope
  - The Salamanca BPU has 79 Transformers that feed underground services.
  - Our system has three dedicated underground distribution feeders for a casino complex. These feeders were installed in 2006 and are being fed by our 13.2KV substation upgrade. These feeders were inspected in July of 2014 along with their associated vaults and switchgear. All 23 Under Ground vaults were inspected and photographed for documentation in 2014 and to be done again in 2018.

- Procedure
  - Pad mount transformers and underground services were visually inspected for physical damage to exterior of transformer compartments and pedestals, also damage to conduits and signs of oil leakage.
  - Underground vaults were checked for signs of cover damage and stray voltage tested.
  - Inspections were performed by Kevin Winship during normal working hours.

- Results
  - No other deficiencies were found in this calendar year,2017.

Substations

- Scope
  - The Salamanca BPU operates two 15 MW substations which are fed from National Grid's #153 and #154, 115 KV transmission lines. Each substation has 8 distribution circuit breakers for a total of 16, operating at distribution voltage of 4800 volts delta. Our Frank St. Substation was thoroughly inspected in 2016. Our Rochester St. Substation was inspected in 2017. Routine visual inspections are performed weekly. Oil testing is performed every year on power transformers. Voltage regulators are oil tested every two years. Relay testing and calibration was performed at both of our substations in 2013 and will be done again in 2017.

- Procedure
  - Visual walk through inspections are done at least once a week.
  - Annual transformer oil testing.
  - Voltage regulators are inspected for physical deficiencies, paint, proper operations, and oil tested every two years.
  - Substation battery bank testing is performed 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 regulators, one power transformer at Frank St. 2 Sub was found to have unacceptable water saturation limits, we have begun a search for water mitigation services in 2017.
  - No deficiencies were found through Thermal imaging.
  - 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 by replacing heads and/or photocells.

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 2017, we found no indications of stray voltage. In our system.

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.

All electrical facilities in our distribution system have been inspected for damage and/or deficiencies at least once in the past five years.

Damage or deficiencies discovered throughout our 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 a "watch list" for aging equipment.

Section 5
Analysis of Results

As a result of our stray voltage testing program for 2017, we realize the need to continue testing for stray voltage as a routine work practice.

Section 6
Stray Voltage Initiatives

The Salamanca BPU continues to implement 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 600 volt range.

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

David James makes oath and states I am the Superintendent of Electrical Installations of the Board of Public Utilities for the City of Salamanca, 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 is based on the departments various operational reports, repair orders, and work schedule.

David A. James

Signature

Subscribed and sworn to before me a

David James

this 4th day of January 2018

Carly A. Rogers
No. 01RO6342743
Notary Public, State of New York
Qualified in Cattaraugus County
My Commission Expires May 31, 2020

L.S.

Carly A. Rogers

Signature of Notary

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

David James makes oath and states I am the Superintendent of Electrical Installations 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 is based on the departments various operational reports, repair orders, and work schedule.

Signature David A. James

Subscribed and sworn to before me a

David James

this 4th day of January 2018

Carly A. Rogers
No. 01RO6342743
Notary Public, State of New York
Qualified in Cattaraugus County
My Commission Expires May 31, 2020

L.S.

Carly Rogers
Signature of Notary

City of Salamanca Board of Public Utilites

Stray Voltage Summary Report for 2017

GENERAL SYSTEM SUMMARY:

The number of WOOD Distribution Poles in this System:	3254
Poles with the PoleType of 'DISTRIBUTION'	2135
Poles with the PoleType of 'LIGHT-POLE'	452
Poles with the PoleType of 'SECONDARY-POLE'	1020
Poles with the PoleType of 'TRAFFIC-LT-POLE'	13
Poles with the PoleType of 'ORNAMENTAL-POLE'	51
Poles with the PoleType of 'STUB-POLE'	136
Poles with the PoleType of 'H-FRAME-LEFT'	2
Poles with the PoleType of 'H-FRAME-RIGHT'	2
Poles with the PoleType of 'TRANSMISSION'	27
Poles with the PoleType of 'OTHER'	3
Poles with the PoleType of 'CUSTOMER OWNED'	36
Poles with NO PoleType defined	10
The number of lights in the sytem	2378
The number of those lights that are LED	318

PRIMARY DISTRIBUTION THAT IS UNDERGROUND:

The number of ELECTRICAL VAULTS in this System:	23
The number of Electrical Vault Covers tested	9
The number of PRIMARY ELECTRICAL MANHOLES in this System:	4
The number of Primary Electrical Manhole Covers tested	
The number of Metallic Distibution Poles tested	65
The number Poles with 1 or more Riser Pipes tested	

SECONDARY DISTRIBUTION THAT IS UNDERGROUND:

The number of Metal Street Light Poles tested	487
The number of Poles with Secondary Riser	
The number of SECONDARY ELECTRICAL MANHOLES in this System:	27
The number of Secondary Electrical Manhole Covers tested	
The Total number of Transformers on the GROUND	79
The number of those as type 'Padmount Transformer'	26
The number of those as type 'PadMount OH Transformer'	44
The number of those as type 'SUB Transformer'	9

City of Salamanca Board of Public Utilites

Over-Head Pole Inspection Summary Report for 2017

GENERAL INSPECTION SUMMARY:

The Supervisor overseeing Inspections:	Dave James
The Inspector performing the field work:	Kevin Winship
Date Inspection started:	10/16/2017 10:18:02 AM
Date Inspection Completed	10/18/2017 1:07:36 PM
The Number of Poles in this 20%:	865
The Total number of Poles with Issues Found:	28

SUMMARY OF ISSUES FOUND:

There were 6 instances of Poles_Rotting_Insects_Holes found.

There were 2 instances of Poles_BrokenOrLeaning_Pole found.

There were 1 instances of Poles_Damaged_Guy_Anchor found.

There were 11 instances of Poles_NoGuyGuard_Marking found.

There were 6 instances of Trees_Needs_Trimming found.

There were 1 instances of Trees_Danger_Trees found.

There were 2 instances of Trees_Vines found.

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
2015							
	I	Within 1 week	7	7			
	II	Within 1 year	2			2	
	III	Within 3 years	1			1	
	IV	N/A	1			1	
2016							
	I	Within 1 week	6				
	II	Within 1 year	6	8			
	III	Within 3 years	2			3	
	IV	N/A	1			1	
2017							
	I	Within 1 week	10	10			
	II	Within 1 year	2			2	
	III	Within 3 years	6			6	
	IV	N/A	11			11	
2018							
	I	Within 1 week					
	II	Within 1 year					
	III	Within 3 years					
	IV	N/A					
2019							
	I	Within 1 week					
	II	Within 1 year					
	III	Within 3 years					
	IV	N/A					

Visual Inspection Program

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

Overhead Facilities	2015			2016			2017			2018			2019		
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									8						
Repaired in Time Frame	2				6										
Repaired - Overdue															
Not Repaired - Not Due			1			3			8						
Not Repaired - Overdue															
Grounding System															
Number of Deficiencies															
Repaired in Time Frame															
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															
Repaired in Time Frame															
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															
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 - Distribution

Overhead Facilities	2015			2016			2017			2018			2019		
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
Neutral															
Number of Deficiencies															
Repaired in Time Frame															
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															
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									11						
Repaired in Time Frame	7														
Repaired - Overdue															
Not Repaired - Not Due									11						
Not Repaired - Overdue															
Miscellaneous															
Trimming Related															
Number of Deficiencies									9						
Repaired in Time Frame				6					9						
Repaired - Overdue															
Not Repaired - Not Due			1			1									
Not Repaired - Overdue															

Visual Inspection Program

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

Overhead Facilities	2015			2016			2017			2018			2019		
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
Other															
Number of Deficiencies															
Repaired in Time Frame															
Repaired - Overdue															
Not Repaired - Not Due															
Not Repaired - Overdue															
Overhead Facilities Total															
Total															
Number of Deficiencies	**11**			**14**					**28**						
Repaired in Time Frame	9			12					10						
Repaired - Overdue															
Not Repaired - Not Due		1	1			3			18						
Not Repaired - Overdue															

Visual Inspection Program

Summary of Deficiencies and Repair Activity Resulting from the Inspection Process - Underground															
Underground Facilities	**2015**			**2016**			**2017**			**2018**			**2019**		
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		1			1										
Repaired in Time Frame					1										
Repaired - Overdue															
Not Repaired - Not Due		1													
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															

Visual Inspection Program

Summary of Deficiencies and Repair Activity Resulting from the Inspection Process - Underground															
Underground Facilities	**2015**			**2016**			**2017**			**2018**			**2019**		
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
Number of Deficiencies															
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		1			1			-	-						
Repaired in Time Frame					1										
Repaired - Overdue															
Not Repaired - Not Due		1													
Not Repaired - Overdue															
Underground Facilities Total															
Total									0						
Number of Deficiencies		2			2			-	0						
Repaired in Time Frame					2										
Repaired - Overdue															
Not Repaired - Not Due		2							-						
Not Repaired - Overdue															

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

Overhead Facilities	2015		2016		2017		2018		2019	
	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										
Anchors/Guy Wire										
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	1								
Other										
Overhead Facilities Total	1	1	0	0	0	0				
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		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		
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		
Streetlights					
Streetlight					
Base/Standard/Light					
Handhole/Service Box					
Service/Internal Wiring					
Access Cover					
Miscellaneous					
Other					
Streetlight Total		0 0	0 0		
Total Level IV Conditions					
Overall Total	1	0	0		

City of Salamanca Board of Public Utilites

Over-Head Pole Inspection Summary Report for 2017

GENERAL INSPECTION SUMMARY:

The Supervisor overseeing Inspections:	Dave James
The Inspector performing the field work:	Kevin Winship
Date Inspection started:	10/16/2017 10:18:02 AM
Date Inspection Completed	10/18/2017 1:07:36 PM
The Number of Poles in this 20%:	865
The Total number of Poles with Issues Found:	28

SUMMARY OF ISSUES FOUND:

There were 6 instances of Poles_Rotting_Insects_Holes found:

Map ID	Pole No.	Location	Critical 1 Year	Serious 2 Years	Monitor 3 Years	Minor	Supervisor Comment
3576	89	JimTown ROW			X		national grid pole, marked for replacement by them
3314	19C	Front Ave			X		verizon private pole
3317	19D	Front Ave			X		verizon private pole
1708	25C	Front Ave Ext			X		verizon private pole
1710	25E	Front Ave Ext			X		verizon private pole
297	26A	Breed Run Rd			X		verizon private pole

There were 2 instances of Poles_BrokenOrLeaning_Pole found:

Map ID	Pole No.	Location	Critical 1 Year	Serious 2 Years	Monitor 3 Years	Minor	Supervisor Comment
3576	89	JimTown ROW			X		national grid pole, marked for replacement by them
1605	S20	Broad St			X		replacement by wood pole later

There were 1 instances of Poles_Damaged_Guy_Anchor found:

Map ID	Pole No.	Location	Critical 1 Year	Serious 2 Years	Monitor 3 Years	Minor	Supervisor Comment
279	5A	BREED RUN	X				repaired

There were 11 instances of Poles_NoGuyGuard_Marking found:

Map ID	Pole No.	Location	Critical 1 Year	Serious 2 Years	Monitor 3 Years	Minor	Supervisor Comment
544	24	CENTER RD				X	
541	23A	Center Rd				X	
539	21	Center Rd				X	
569	7	West Loop Rd				X	
526	5	Hiller Rd				X	
606	10	East Loop Rd				X	
588	19A	East Loop Rd				X	
601	12	East Loop Rd				X	
603	11	EAST LOOP RD				X	
608	9	East Loop Rd				X	
529	17A	Center Rd				X	

City of Salamanca Board of Public Utilites

Over-Head Pole Inspection Summary Report for 2017

There were 6 instances of Trees_Needs_Trimming found:

Map ID	Pole No.	Location	Critical 1 Year	Serious 2 Years	Monitor 3 Years	Minor	Supervisor Comment
1580	4	PIMLICO AVE				X	repaired
585	1	West Loop Rd				X	repaired
610	8	EAST LOOP RD				X	repaired
611	7	East Loop Rd				X	repaired
587	2B					X	Repaired
490	2B	CENTER RD				X	Repaired

There were 1 instances of Trees_Danger_Trees found:

Map ID	Pole No.	Location	Critical 1 Year	Serious 2 Years	Monitor 3 Years	Minor	Supervisor Comment
1574	10	FRONT AVE		X			trimmed and removed

There were 2 instances of Trees_Vines found:

Map ID	Pole No.	Location	Critical 1 Year	Serious 2 Years	Monitor 3 Years	Minor	Supervisor Comment
1713	25I	Front Ave Ext				X	repaired
560	31B	Center Rd				X	Repaired