Orange and Rockland Utilities, Inc.

STRAY VOLTAGE TESTS
AND
FACILITY INSPECTIONS

Report on the results of stray voltage tests and facility inspections for the year ended December 31, 2021

February 15, 2022

Pearl River, New York

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I. Background

The New York State Public Service Commission's ("PSC" or "Commission") Electric Safety Standards issued on January 5, 2005 (with subsequent revisions issued on July 21, 2005, December 15, 2008, March 22, 2013 and January 13, 2015) ("Safety Standards"),[1] require electric utilities in New York State to stray voltage test their publicly accessible underground electric facilities annually, including but not limited to, manholes, service boxes, and transformer vaults. Stray voltage testing shall be conducted on the exposed surfaces of the facilities. Annual stray voltage testing shall also be conducted on utility and non-utility owned, publicly accessible, metallic street light and traffic signal poles located in public thoroughfares in an electric utility's service territory. The Safety Standards require an electric utility to stray voltage test overhead distribution facilities, underground residential distribution facilities, overhead and underground transmission facilities, and substation fences concurrently with the facility five-year inspections required by the Safety Standards.

This Stray Voltage Tests and Facility Inspections Report ("Report") describes the stray voltage detection program and equipment inspection program Orange and Rockland Utilities, Inc. ("O&R" or the "Company") conducted in 2021.

II. Company Overview

O&R is an investor-owned utility that provides electric service to approximately 234,000 customers in a service area of approximately 1,000 square miles within Rockland County and parts of Orange and Sullivan Counties, New York. The Company operates an electric transmission and distribution ("T&D") system that includes 216 distribution circuits with approximately 3,129 overhead circuit miles and 1,641 conductor miles of underground cable, nearly 458 transmission circuit miles, 44 distribution substations, 7 transmission substations, 5 transmission/distribution substations, 8 transition structures located in 6 transition yards and 5 transmission switchyards. The Company also owns the transmission interconnections to 8 substations for individual industrial customers.

III. Stray Voltage Testing Program

- Testing personnel

  O&R conducted separate stray voltage test programs for its transmission system and its distribution system. Non-Company labor (*i.e.*, contractors), selected through O&R's bid selection process, was used to perform the test work associated with each program.

[1] Case 04-M-0159 – *Proceeding on Motion of the Commission to Examine the Safety of Electric Transmission and Distribution Systems*, Order Instituting Safety Standards (issued January 5, 2005), Order on Petitions for Rehearing and Waiver (issued July 21, 2005), Order Adopting Changes to Electric Safety Standards (issued December 15, 2008),Order Adopting Changes to Electric Safety Standards (issued March 22, 2013), and Order Granting a Petition to Modify Electric Safety Standards (issued January 13, 2015).

- Equipment

  To test for stray voltage, the contractor's inspectors used HD Electric Company LV-S-5 Direct Contact Low Voltage Detectors. This HD device is an independently certified low voltage AC test probe.[2] These probes were used to detect AC voltage on publicly accessible, conductive equipment or apparatus.

- Training

  O&R trains the contractor personnel on the contact voltage testing and program requirements. The participants include the contractor's planners, field supervisors and administrative staff assigned to O&R's project. Subsequently, the contractor is required to train new personnel. Prior to the start of annual testing, all contractor personnel are required to attend a one-day refresher course, conducted by the Company. Both the initial two-day training program and refresher course include a review of:

  - The Safety Standards;
  - Company policies and procedures;
  - Personal protective equipment;
  - Scope of the work for stray voltage testing;
  - Completing the testing form;
  - Data entry process; and
  - Hand-held devices and laptop requirements.

- Stray Voltage Testing

  During the annual period ended December 31, 2021, O&R conducted stray voltage testing of its overhead distribution facilities and underground distribution facilities, concurrently with the facility five-year inspections required by the Safety Standards. O&R also conducted annual stray voltage testing on Company and non-Company owned, publicly accessible, metallic street light and traffic signal poles located in public thoroughfares in the Company's service territory.

  In accordance with the Safety Standards, O&R:

  a. Immediately safeguarded and /or mitigated 4 voltage findings ≥ 1.0 volt identified in 2021. Permanent repairs were made within 45 days; and,
  b. Tested all publicly accessible structures and sidewalks within a 30-foot radius of the electric facility where there was a stray voltage finding ≥ 1. 0 volt.

  There are 180,325 structures that comprise O&R's T&D system and 2,752 metallic street light and traffic signal poles. Among the Company-owned structures, there are structures that did not require stray voltage testing for one or more of the following reasons:

[2] The HD device is certified to detect AC voltage within a range of 5 volts to 600 volts.

- Wood poles that have no attached appurtenances capable of conducting electricity;
- Wood poles with electrically conductive appurtenances that are not accessible to the public (pre-wired wood);
- Facilities that are enclosed in fiberglass (non-conductive materials);
- Facilities that are de-energized; and/or
- Facilities that are deemed inaccessible to the public.

Inaccessible facilities include:

a. Locked Gate/Fence – Poles behind locked gates and fences that are not accessible to the public, *e.g.*, facilities located in fenced areas owned by other utilities, such as, water companies.
b. Dangerous Grades – Poles located on cliffs and other dangerous grades that are generally inaccessible to Company personnel and the public and are approached only under urgent circumstances. The performance of stray voltage testing would constitute an unacceptable risk to Company personnel and authorized contractors.
c. Company Property – Poles located on Company property, such as substations, are accessible only to Company personnel and authorized contractors.
d. Vaults - Structures located inside buildings. These structures are accessible only to Company and building maintenance personnel.
e. Limited Access Highway Facilities – Structures located on highways, exit and entrance highway ramps. These structures are generally inaccessible to the public. The performance of stray voltage testing would constitute an unacceptable risk to Company personnel and authorized contractors .

In accordance with the Commission's June 23, 2011 Order,[3] O&R was not required to perform mobile testing during the annual period ended December 31, 2021 because there is no city with a population of at least 50,000 located in the Company's service area and the Company does not have an underground network system where mobile testing is effective.

[3] Case 10-E-0271 - *Proceeding on Motion of the Commission to Examine the Mobile Testing Requirements of the Safety Standards,* Order Requiring Additional Mobile Stray Voltage Testing (issued June 23, 2011)

IV. Facility Visual Inspection Program

Contractors performed all the Company's stray voltage tests and visual inspections.

The Safety Standards require that O&R visually inspect approximately 20% of its facilities annually, resulting in 100% inspection of its electric facilities every five years.

O&R visually inspects its distribution system on a five-year cycle, as prescribed by the Safety Standards and inspects its transmission system annually.

- Training

  O&R trains the contractor personnel on the visual inspection program requirements. The participants include the contractor's planners, field supervisors and administrative staff assigned to O&R's project. Subsequently, the contractor is required to train new personnel. Prior to the start of annual testing, all contractor personnel are required to attend a one-day refresher course. Both the initial two-day training program and refresher course include a review of:

  - The Safety Standards;
  - Company policies and procedures;
  - Personal protective equipment;
  - Scope of the work for visual inspections;
  - Completing the visual inspection form;
  - Data entry process; and
  - Hand-held devices and laptop requirements.

- Inspection Findings

  In accordance with the Safety Standards, O&R classifies defects found on inspection by the following severity levels to establish priority for repairs and scheduling:

  - Level I – Repair as soon as possible but not longer than one week. A Level I deficiency is an actual or imminent safety hazard to the public or poses a serious and immediate threat to the delivery of power. Critical safety hazards present at the time of the inspection shall be guarded until the hazard is mitigated.
  - Level II – Repair within one year. A Level II deficiency is likely to fail prior to the next inspection cycle and represents a threat to safety and/or reliability should a failure occur prior to repair.
  - Level III – Repair within three years. A Level III deficiency does not present immediate safety or operational concerns and would likely have minimum impact on the safe and reliable delivery of power if it does fail prior to repair.

- Level IV – Condition found but repairs not needed at this time. Level IV is used to track atypical conditions that do not require repair within a five-year timeframe. This level should be used for future monitoring purposes and planning proactive maintenance activities.

Appendix 4, Summary of Deficiencies and Repair Activity Resulting from the Inspection Process, to this Report contains the following information:

- Deficiencies found to date;
- Permanent repair actions taken by year (2021-2024);
- Whether the repair was completed within the required timeframe; and
- The number of deficiencies awaiting repair.

The information is provided on an annual basis by priority level and by equipment groupings.

V. Program Facilities

- Structure Categories – There are 180,325 structures that comprise O&R's T&D system and 2,752 street lights/traffic signals. The Company facilities are sorted into the following four main categories:

- Distribution Overhead – There are 139,523 distribution pole structures in O&R's service territory. Twenty percent of the distribution overhead facilities are included in both the stray voltage and inspection programs. The stray voltage testing criteria are applied to all publicly accessible utility-owned or joint-use wooden poles with utility electrical facilities located on public thoroughfares or customer property, including backyards or alleys. Stray voltage tests are performed on all wooden poles with metallic attachments such as ground wires, ground rods, anchor guy wires, riser pipes, or any electrical equipment within reach of the general public.

- Underground Facilities – There are 33,773 underground facilities in O&R's service territory. Twenty percent of the facilities are included in both the stray voltage and inspection programs. The stray voltage testing criteria are applied to subsurface structures and above ground structures. Included in the above ground structures are pad mount transformers and switchgear enclosures. All subsurface structures include electric utility manhole covers, submersible transformer covers and electric utility metal hand hole covers.

- Street Lights and Traffic Signals – There are 2,752 metallic street light poles and traffic signals within O&R's service territory. 533 of the 2,752 are Company-owned street lights. All metallic street light and traffic signal poles are included in O&R's annual stray voltage testing program. The Company-owned streetlights are included in the facility inspection program. Privately owned street lighting is not included in

the stray voltage testing program, as per the Safety Standards.[4] The stray voltage testing criteria are applied to all metallic street light poles, traffic signals, and pedestrian crosswalk signals located on publicly accessible thoroughfares. The large majority of street lights in O&R's service area are mounted on wooden poles, and do not require stray voltage testing because their electrically conductive surfaces are not accessible to the public. All stray voltage testing of street lights is performed at night while the fixtures are energized.

- Substation Fences and Transmission Structures – There are 69 substation fences and approximately 6,960 individual poles and towers that comprise O&R's overhead transmission system. Transmission structures support circuit voltages of 34.5 kilovolts and greater. Transmission poles with distribution under build are included in this transmission category. O&R visually inspects its transmission system annually. The Company performed stray voltage testing on all transmission structures and substation fences in 2021. The stray voltage testing criteria are applied to all structures, guys, and down leads attached to the structures. Pursuant to the Safety Standards, stray voltage testing is required to be performed again in 2026.

VI. Annual Performance Targets

O&R performed the required stray voltage testing and facility inspections in accordance with the requirements and performance mechanism targets set forth in the Safety Standards.

In compliance with the Safety Standards, O&R has met the annual performance target for stray voltage testing for the annual period ended December 31, 2021. The structures tested and testing results are set forth in Appendix 1, Stray Voltage Testing Summary, of this Report.

The results are summarized in the tables set forth below.

Inspection Performance Summary

180,325 Total O&R Transmission and Distribution Structures

Inspection Year	Number of Transmission and Distribution Structures Inspected in 2021	% of Transmission and Distribution Structures Inspected in 2021	Cumulative % of Transmission and Distribution Structures Inspected During 5-Year Cycle 2020 - 2024
2021	**43,590**	**24.2%**	**49.2%**

[4] Pursuant to the Commission's direction, the Company continues to perform stray voltage testing on those street lights that it sells to municipalities. [*See*, Case 19-E-0505 - *Petition of Orange and Rockland Utilities, Inc. for Authority, Pursuant to Public Service Law Section 70, to Transfer Street Lighting Facilities to the Village of Florida*, Order Authorizing Property Transfer (issued December 13, 2019) (p. 5).]

139,523 Total Overhead Distribution Structures

Inspection Year	Number of Overhead Distribution Structures Inspected in 2021	% of Overhead Distribution Structures Inspected in 2021	Cumulative % of Overhead Distribution Structures Inspected During 5-Year Cycle 2020 - 2024
2021	**32,536**	**23.3%**	**45.6%**

7,029 Total Overhead Transmission Structures

Inspection Year	Number of Overhead Transmission Structures Inspected in 2021	% of Overhead Transmission Structures Inspected in 2021	% of Transmission Structures Inspected in 2021
2021	**6,859**	**97.6%**	**97.6%**

**97.6% due to Not Found and/or Inaccessible*

33,773 Total Underground Structures and Pad-Mounted Transformers

Inspection Year	Number of Underground Facilities and Pad-Mounted Transformers Inspected in 2021	% of Underground Facilities and Pad-Mounted Transformers Inspected in 2021	Cumulative % of Underground Facilities and Pad-Mounted Transformers Inspected During 5-Year Cycle 2020 - 2024
2021	**4,195**	**12.4%**	**33.7%**

****533 Total O&R Street Lights***

Inspection Year	Number of Street Lights Inspected in 2021	% of Street Lights Inspected in 2021	Cumulative % of Street Lights inspected during 5-Year Cycle (2020 - 2024)
2021	**0**	**0%**	***0%**

**Not due for inspection until 2024*

VII. Certifications

Pursuant to Section 7 of the Safety Standards, the president or officer of each utility with direct responsibility for overseeing stray voltage testing and facility inspections shall provide an annual certification to the Commission that the utility has, to the best of his or her knowledge, exercised due diligence in carrying out a plan, including quality assurance, that is designed to meet the stray voltage testing and inspection requirements, and that the utility has:

- Tested all its street lights and traffic signals within the service territory. Publicly accessible overhead distribution facilities, underground residential facilities were tested concurrently with the facility inspection required in Section 4 of the Electric Safety Standards, as referred to in the body of this Report; and
- Inspected the requisite number of electric facilities.

The certifications are attached as Exhibit 1of this Report.

VIII. Analysis of Causes of Findings and Stray Voltage

- Of the 180,325 electrical structures that comprise O&R's T&D system and 2752 streetlights,, 45,783 T&D structures were stray voltage tested, as part of the Company's stray voltage-testing program for 2021. O&R stray voltage tested its transmission system in 2021. Pursuant to the Safety Standards, the Company is required to perform stray voltage testing again on its transmission system in 2026.

The chart below describes all Findings ≥ 1.0 volt identified and mitigated.[5]

Structure Type	*Cause of Voltage*	*Voltages Found ≥ 1 Volt*
Pole Guy	Bond/Ground	1
Pole Ground	Broken Ground	2
Riser	Broken Ground	1

The Company identified four findings ≥ 1 volt. The Company immediately safeguarded and permanently mitigated them the same day.

[5] Section 1(f) of the Safety Standards defines a Finding as "[a]ny confirmed voltage reading on an electric facility or street light greater than or equal to 1 volt measured using a volt meter and 500 ohm shunt resistor." Section 1(c) defines Stray Voltage as "[v]oltage conditions on electric facilities that should not ordinarily exist. These conditions may be due to one or more factors, including, but not limited to, damaged cables, deteriorated, frayed, or missing insulation, improper maintenance, or improper installation."

O&R analyzed the testing results of 2021 and determined that the predominant cause of stray voltage findings was broken grounds. O&R continues its quality assurance and control measures by conducting field audits to verify that the system is built to engineering standards.

In accordance with the Safety Standards, when O&R identified a stray voltage finding on the electric facility during stray voltage testing, the Company stray voltage tested all publicly accessible structures and sidewalks within a minimum 30-foot radius of the electric facility. Regarding the four stray voltage findings referred to above, the Company identified no nearby structures with stray voltage.

IX. Inspections Results and Analysis

Of the 180,325 electrical structures due for inspection, O&R inspected 43,590 structures during 2021. The charts below summarize the results of these inspections.

Overhead Distribution Structures

Table of Locations with Deficiencies

Locations Inspected	*Locations w/ Deficiencies	% Locations w/ Deficiencies
32,536	2,288	7%

Breakdown of Deficiencies

Level Rating	Number of Deficiencies	% Deficiencies Found
1	52	2.3%
2	733	32%
3	1,503	65.7%
Total	**2,288**	**100%**

Overhead Transmission Structures

Table of Locations with Deficiencies

Locations Inspected	*Locations w/ Deficiencies	% Locations w/ Deficiencies
6,859	51	0.7%

Breakdown of Deficiencies

Level Rating	Number of Deficiencies	% Deficiencies Found
Level 1	0	0%
Level 2	3	5.9%
Level 3	48	94.1%
Total	**51**	**100%**

Underground Facilities and Pad-mounted Transformers

Table of Locations with Deficiencies

Locations Inspected	*Locations w/ Deficiencies	% Locations w/ Deficiencies
4,195	70	1.7%

Breakdown of Deficiencies

Level Rating	Number of Deficiencies	% Deficiencies Found
Level 1	25	35.7%
Level 2	7	10%
Level 3	38	54.3%
Total	**70**	**100%**

Street Lights

Table of Locations with Deficiencies

Locations Inspected	Locations w/ Deficiencies	% Locations w/ Deficiencies
0	0	0%

Breakdown of Deficiencies

Level Rating	Number of Deficiencies	% Deficiencies Found
Level 1	0	0%
Level 2	0	0%
Level 3	0	0%
Total	**0**	**0%**

- Level 1 Conditions

  In 2021, O&R visually inspected 43,590 structures and identified 77 Level 1 conditions on the Company's distribution system. The Level 1 conditions O&R identified on the overhead distribution system were primarily blown lightening arrestors, floating primary wires, tree limbs on the primary wire, and cracked insulators. The Level 1 conditions O&R identified on the underground distribution system were primarily damaged and/or leaking pad mount transformers, off base >3", and hand holes with damaged covers. O&R identified no Level 1 conditions on the Company's transmission system.

- Level 2 Conditions

  In 2021, O&R identified 743 Level 2 conditions on the T&D system. The majority of the Level 2 conditions on the overhead distribution system are broken cross arms, broken grounds, neutrals/secondary off pin, and vines. The majority of Level 2 conditions on the underground distribution are system hardware corrosion or damage. The Level 2 conditions on the transmission system consist of poles with large woodpecker holes, and one pole with cross arm rot.

- Level 3 Conditions

  In 2021, O&R identified 1,589 Level 3 conditions on the T&D system. The majority of Level 3 conditions on the transmission system are wood pole deficiencies, and grounding system conditions. The remaining conditions are related to anchors/guy wires, cross arms, right-of-way conditions and, insect/woodpecker damage. Of the Level 3 conditions identified on the overhead distribution system, the majority are anchors and guy wire conditions, tie wires, grounding conditions and conductor conditions. The majority of Level 3 conditions on the underground distribution system are unsecured hand hole covers.

  In an effort to reduce the Level 2 and Level 3 conditions, O&R continues to improve its quality assurance and control so that new construction is built to specification and the National Electrical Safety Code compliance. O&R's distribution line upgrades, capital improvements, defective pole replacement program and transmission and distribution system repair program (completing repairs on conditions identified during the inspection cycles) have resulted in an approximate 36.3% reduction in Level 2 and 3 conditions identified during the 2015 -2020 inspection cycle from the number of Level 2 and 3 conditions identified during 2010 through 2014. The Company will update this analysis in 2025 at the completion of the next five-year cycle.

X. Quality Assurance and Control

O&R's Quality Assurance and Compliance Department is responsible for the implementation of the Company's Electric Quality Assurance Program ("Electric QA Program"). In addition to verifying compliance with the requirements of the Safety Standards, the Company's Electric QA Program is designed to promote the health and safety of the public, the reliable and economical operation of the Company's electric system, compliance with applicable electric codes and regulations, and use of Company resources in an efficient manner.

The O&R Electric QA Program also includes a Corrective Action Documentation and Trending procedure.[6] The purpose of this procedure is to define the process by which Quality Assurance and Compliance maintains a corrective action database and trends discrepancies identified by the Electric QA Program. O&R personnel implementing the Electric QA Program are independent from the Electric Operations and Electric Engineering Groups and the Company personnel responsible for the implementation of the Stray Voltage Testing and Visual Inspection Programs.

Quality Assurance ("QA") personnel conducted a review of the Stray Voltage Testing and Visual Inspection programs during 2021. QA performed stray voltage testing and visual inspection on a selective sample of previously tested and inspected Company and municipal streetlights, overhead and underground distribution facilities to verify testing and inspection of equipment and the accuracy of data and records.

2021 Quality Assurance and Quality Control Results

The Company's Electric QA Program selectively sampled and retested 1,128 distribution structures. This statistically significant sample size exceeds the 500 units required by the latest version of ANSI Z1.4 (MIL-STD-105D) for the determination of a normal sample size for a unit population of 35,001 - 150,000. The sample selection was distributed across the various structure types, as noted in the table below.

1,128 Structures Sampled

Category	Number of Structures Sampled	Percentage of Sample Size
Overhead Distribution	514	46%
Underground Distribution	339	30%
Street Lights/Traffic Signals	275	24%
Total	**1,128**	**100%**

Of the 1,128 structures selected, QA identified no stray voltage conditions during retesting and the re-inspections verified the visual inspection results reported by the contractor.

XI. Other Pertinent Information

- Reports from the Public

  As set forth in Appendix 3 to this Report, during 2021, O&R received ten reports from customers regarding a stray voltage or shock hazard. In compliance with the

[6] Details on the O&R Electric QA Program and the Corrective Action Documentation were set forth in the Company's February 18, 2005 filing with the Commission in Case 04-M-0159.

Safety Standards, O&R responded, investigated, and mitigated positive findings of shock incidents reported by the public.

Of the ten incidents that were reported to O&R, seven were unsubstantiated and three substantiated. Of the three substantiated cases, the Company determined that the incident was caused by a secondary wire and mitigated such cause upon arrival.

- Temporary Repairs

In accordance with the Safety Standards, when a temporary repair is located during inspection or performed by the Company, the Company exercised its best efforts to make a permanent repair of the facility within 90 days. Identified temporary repairs that remain on the system for more than 90 days are generally due to extraordinary circumstances, *e.g*., storms that require extensive repair activity, equipment outage not available, or customer work required.

Appendix 1

Stray Voltage Testing Summary

Orange & Rockland Utilities, Inc. Data as of 12/31/21	2021 Total System Units	2021 System Units Tested	Percent Completed	Units with Voltage Found (>/= 1.0v)	Percent of Units Tested with Voltage (>/= 1.0v)	*Units Classified as Inaccessible /Not In Field
***Overhead Distribution Facilities	133,997	32,292	24.1%	4	0.01%	471
****Underground Distribution Facilities	33,773	4,143	12.3%	0	0%	526
Street Lights / Traffic Signals	2,752	2,678	100%	0	0%	74
**Substation Fences	69	69	100%	0	0%	0
**Transmission Facilities	6,960	6,601	94.8%	0	0%	0
TOTAL	177,551	45,783	25.8%	4	0.01%	1,071

** Structures classified as inaccessible/Not in Field are defined on page 4 of this Report. Facilities that are inaccessible are not considered in determining whether the target has been achieved.*
*** Substation fences and transmission structures were stray voltage tested in 2021. Stray voltage testing is required to be performed again in 2026.*
****5,526 Fiberglass and pre-wired wood facilities are deducted because the Company is not required to test them.*
*****2,823 Fiberglass handholes are deducted because the Company is not required to test them.*

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Appendix 2

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							
Ground	2			2	2		
Guy	1			1	1		
Riser		1		1	1		
Other							
Underground Facilities							
Service Box							
Manhole							
Padmount Switchgear							
Padmount Transformer							
Vault – Cover/Door							
Pedestal							
Other							
Street Lights / Traffic Signals							
Metal Street Light Pole							
Traffic Signal Pole							
Pedestrian Crossing Pole							
Traffic Control Box							
Other							
Substation Fences							
Fence							
Other							
Transmission (Total)							
Lattice Tower							
Pole							
Ground							
Guy							
Other							
Miscellaneous Facilities							
Sidewalk							
Gate/Fence/Awning							
Control Box							
Scaffolding							
Bus Shelter							
Fire Hydrant							
Phone Booth							
Control Box							
Water Pipe							
Riser							
Other							

Appendix 3

Summary of Shock Reports from the Public

	Quarterly Update	Yearly Total
I. Total Shock Calls Received:	**3**	**10**
Unsubstantiated	2	7
Normally Energized Equipment	1	3
Stray Voltage:		
Person	0	3
Animal	0	0
II. Injuries Sustained/Medical Attention Received:	**0**	**0**
Person	0	0
Animal	0	0
III. Stray Voltage Source:	**1**	**3**
Utility Responsibility (Total)	**0**	**1**
Overhead Distribution System	0	1
Underground Distribution System	0	0
Transmission System	0	0
Other Utility/Gov't Agency (Total)	**0**	**1**
Street Light	0	0
Other (Total)	0	1
Customer Responsibility (Total)	**1**	**1**
IV. Stray Voltage Range:	**1**	**3**
1.0V to 4.4V	0	0
4.5V to 24.9V	0	0
25V and above	0	0
Unknown	1	3

Appendix 4

Distribution

Orange & Rockland Utilities Inc.															
Summary of Deficiencies and Repair Activity Resulting from the Inspection Process - Distribution															
Overhead Facilities															
	2020			**2021**			**2022**			**2023**			**2024**		
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	0	113	0	0	148	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	113	0	0	30	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	118	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grounding System															
Number of Deficiencies	0	0	294	0	0	404	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	286	0	0	404	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Anchors/Guy Wire															
Number of Deficiencies	0	0	184	2	1	156	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	4	2	1	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	180	0	0	156	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cross Arm/Bracing															
Number of Deficiencies	1	237	8	1	417	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	1	237	1	1	2	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	7	0	415	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Riser															
Number of Deficiencies	0	0	115	0	0	74	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	115	0	0	74	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Orange & Rockland Utilities Inc.

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

Overhead Facilities

	2020			2021			2022			2023			2024		
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
Conductors															
Primary Wire/Broken Ties															
Number of Deficiencies	10	0	239	8	0	198	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	10	0	14	8	0	4	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	225	0	0	194	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Secondary Wire															
Number of Deficiencies	0	12	384	0	44	205	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	12	3	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	381	0	44	205	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neutral															
Number of Deficiencies	0	17	0	0	37	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Insulators															
Number of Deficiencies	8	0	0	3	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	8	0	0	3	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Orange & Rockland Utilities Inc.

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

Overhead Facilities

	2020			2021			2022			2023			2024		
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
Pole Equipment															
Transformers															
Number of Deficiencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cutouts															
Number of Deficiencies	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lightning Arrestors															
Number of Deficiencies	15	0	0	34	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	15	0	0	34	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Equipment															
Number of Deficiencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous															
Trimming Related															
Number of Deficiencies	6	120	783	3	86	466	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	6	120	11	3	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	772	0	86	466	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*** Other**															
Number of Deficiencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhead Facilities Total															
Total															
Number of Deficiencies	40	499	2007	52	733	1503	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	40	499	41	52	33	4	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	1966	0	700	1499	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Transmission

Orange & Rockland Utilities Inc.															
Summary of Deficiencies and Repair Activity Resulting from the Inspection Process - Transmission															
Transmission Facilities															
	2020			**2021**			**2022**			**2023**			**2024**		
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	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Poles															
Number of Deficiencies	0	3	12	0	0	14	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	11	0	0	13	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Anchors/Guy Wire															
Number of Deficiencies	0	0	3	0	0	1	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crossarm/Brace															
Number of Deficiencies	0	0	4	0	1	7	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	4	0	0	7	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grounding System															
Number of Deficiencies	0	0	7	0	0	3	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	2	0	0	3	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conductors															
Cable															
Number of Deficiencies	0	0	2	0	1	1	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Static/Neutral															
Number of Deficiencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Insulators															
Number of Deficiencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Orange & Rockland Utilities Inc.

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

Transmission Facilities

	2020			2021			2022			2023			2024		
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	0	0	10	0	0	11	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	8	0	0	11	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*** Other**															
Number of Deficiencies	0	0	7	0	1	9	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	6	0	0	8	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Transmission Facilities Total															
Total															
Number of Deficiencies	0	3	45	0	3	48	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	11	0	3	2	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	34	0	0	46	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0

Underground Facilities

Orange & Rockland Utilities Inc.															
Summary of Deficiencies and Repair Activity Resulting from the Inspection Process - Underground															
Underground Facilities															
	2020			**2021**			**2022**			**2023**			**2024**		
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	27	11	89	5	6	37	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	27	11	0	5	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	89	0	6	37	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Damaged Structure															
Number of Deficiencies	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Congested Structure															
Number of Deficiencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Damaged Equipment															
Number of Deficiencies	6	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	6	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conductors															
Primary Cable															
Number of Deficiencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Secondary Cable															
Number of Deficiencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neutral Cable															
Number of Deficiencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Racking Needed															
Number of Deficiencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Orange & Rockland Utilities Inc.

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

Underground Facilities

	2020			2021			2022			2023			2024		
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															
*** Other**															
Number of Deficiencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Underground Facilities Total															
Underground Facilities Total															
Number of Deficiencies	33	11	89	6	7	37	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	33	11	0	6	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	89	0	7	37	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Pad Mount Transformers

Orange & Rockland Utilities Inc.															
Summary of Deficiencies and Repair Activity Resulting from the Inspection Process - Transmission															
Transmission Facilities															
	2020			**2021**			**2022**			**2023**			**2024**		
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 Transformers															
Damaged Structure															
Number of Deficiencies	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Damaged Equipment															
Number of Deficiencies	45	0	0	11	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	45	0	0	11	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cable Condition															
Number of Deficiencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oil Leak															
Number of Deficiencies	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Off Pad															
Number of Deficiencies	23	0	0	8	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	23	0	0	8	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lock/Latch/Penta															
Number of Deficiencies	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous															
*** Other**															
Number of Deficiencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pad Mount Total															
Total															
Number of Deficiencies	73	0	2	19	0	1	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	73	0	1	19	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Street Lights

Orange & Rockland Utilities Inc.															
Summary of Deficiencies and Repair Activity Resulting from the Inspection Process - Streetlights															
Streetlight Facilities															
	2020			**2021**			**2022**			**2023**			**2024**		
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Handhole/Service Box															
Number of Deficiencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Service/Internal Wiring															
Number of Deficiencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Access Cover															
Number of Deficiencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous															
*** Other**															
Number of Deficiencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Streetlight Total															
Total															
Number of Deficiencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired in Time Frame	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Not Due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Repaired - Overdue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Level IV

Orange & Rockland Utilities Inc.										
Summary of Deficiencies and Repair Activity Resulting from the Inspection Process - Level IV Conditions										
Level IV Facilities										
	2020		**2021**		**2022**		**2023**		**2024**	
	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										
Poles										
Pole Condition	19821	62	11280	3	0	0	0	0	0	0
Grounding System	9255	73	9412	25	0	0	0	0	0	0
Anchors/Guy Wire	5180	14	6272	2	0	0	0	0	0	0
Cross Arm/Bracing	0	0	0	0	0	0	0	0	0	0
Riser	0	0	0	0	0	0	0	0	0	0
Conductors										
Primary Wire/Broken Ties	0	0	0	0	0	0	0	0	0	0
Secondary Wire	0	0	0	0	0	0	0	0	0	0
Neutral	0	0	0	0	0	0	0	0	0	0
Insulators	0	0	0	0	0	0	0	0	0	0
Conductors										
Transformers	0	0	0	0	0	0	0	0	0	0
Cutouts	0	0	0	0	0	0	0	0	0	0
Lightning Arrestors	0	0	0	0	0	0	0	0	0	0
Other Equipment	0	0	0	0	0	0	0	0	0	0
Miscellaneous										
Trimming Related	0	0	0	0	0	0	0	0	0	0
* Other	0	0	0	0	0	0	0	0	0	0
Overhead Facilities Total	34256	149	26964	30	0	0	0	0	0	0
Transmission Facilities										
Grounding System	0	0	8	1	0	0	0	0	0	0
Steel Towers	422	0	38	10	0	0	0	0	0	0
Poles	127	0	102	7	0	0	0	0	0	0
Anchors/Guy Wire	60	0	61	1	0	0	0	0	0	0
Crossarm/Brace	192	1	250	7	0	0	0	0	0	0
Conductors										
Cable	5	0	1	0	0	0	0	0	0	0
Static/Neutral	0	0	0	0	0	0	0	0	0	0
Insulators	1	0	0	0	0	0	0	0	0	0
Miscellaneous										
Right of Way Condition	49	4	65	4	0	0	0	0	0	0
* Other	0	0	0	14	0	0	0	0	0	0
Transmission Facilities Total	856	5	525	44	0	0	0	0	0	0

Orange & Rockland Utilities Inc.

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

Level IV Facilities

	2020		2021		2022		2023		2024	
	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
Underground Facilities										
Underground Structures										
Damaged Cover	0	0	0	0	0	0	0	0	0	0
Damaged Structure	11	0	5	0	0	0	0	0	0	0
Congested Structure	0	0	0	0	0	0	0	0	0	0
Damaged Equipment	0	0	0	0	0	0	0	0	0	0
Conductors										
Primary Cable	0	0	0	0	0	0	0	0	0	0
Racking Needed	0	0	0	0	0	0	0	0	0	0
Secondary Cable	0	0	0	0	0	0	0	0	0	0
Neutral Cable	0	0	0	0	0	0	0	0	0	0
Miscellaneous										
* Other	0	0	0	0	0	0	0	0	0	0
Underground Facilities Total	11	0	5	0	0	0	0	0	0	0
Pad Mount Transformers										
Pad Mount Transformers										
Damaged Structure	284	0	131	0	0	0	0	0	0	0
Damaged Equipment	0	0	0	0	0	0	0	0	0	0
Cable Condition	0	0	0	0	0	0	0	0	0	0
Oil Leak	0	0	0	0	0	0	0	0	0	0
Off Pad	0	0	0	0	0	0	0	0	0	0
Lock/Latch/Penta	0	0	1	0	0	0	0	0	0	0
Miscellaneous										
* Other	0	0	0	0	0	0	0	0	0	0
Pad Mount Transformer Total	284	0	132	0	0	0	0	0	0	0
Streetlights										
Streetlight										
Base/Standard/Light	0	0	0	0	0	0	0	0	0	0
Handhole/Service Box	0	0	0	0	0	0	0	0	0	0
Service/Internal Wiring	0	0	0	0	0	0	0	0	0	0
Access Cover	0	0	0	0	0	0	0	0	0	0
Miscellaneous										
* Other	0	0	0	0	0	0	0	0	0	0
Streetlight Total	0	0	0	0	0	0	0	0	0	0
Total Level IV Conditions										
Total										
Overall Total	35407	154	27621	74	0	0	0	0	0	0

Summary

Orange & Rockland Utilities Inc.

Summary of Deficiencies and Repair Activity Resulting from the Inspection Process

Year		Priority Level / Repair Expected	Deficiencies Found (Total)	Repaired- in Time Frame	Repaired - Overdue	Not Repaired - Not Due	Not Repaired - Overdue
2020	I	Within 1 week	146	146	0	0	0
	I I	Within 1 year	510	510	0	2	0
	I I I	Within 3 years	2099	42	0	2057	0
	I V	N/A	35407	154	0	0	0
2021	I	Within 1 week	77	77	0	0	0
	I I	Within 1 year	743	36	0	707	0
	I I I	Within 3 years	1589	6	0	1583	0
	I V	N/A	27621	74	0	0	0
2022	I	Within 1 week	0	0	0	0	0
	I I	Within 1 year	0	0	0	0	0
	I I I	Within 3 years	0	0	0	0	0
	I V	N/A	0	0	0	0	0
2023	I	Within 1 week	0	0	0	0	0
	I I	Within 1 year	0	0	0	0	0
	I I I	Within 3 years	0	0	0	0	0
	I V	N/A	0	0	0	0	0
2024	I	Within 1 week	0	0	0	0	0
	I I	Within 1 year	0	0	0	0	0
	I I I	Within 3 years	0	0	0	0	0
	I V	N/A	0	0	0	0	0

Exhibit 1

CERTIFICATION
STRAY VOLTAGE TESTING

STATE OF NEW YORK)
) ss.:
COUNTY OF ROCKLAND)

Orville Cocking, on this 15 day of February 2022, certifies as follows:

1. I am the Vice President, Operations of Orange and Rockland Utilities, Inc. ("the Company"), and in that capacity, I make this Certification for the annual period ended December 31, 2021 ("annual period") based on my knowledge of the testing program adopted by the Company in accordance with the Public Service Commission's Orders issued and effective January 5, 2005, July 21, 2005, December 15, 2008, March 22, 2013 and January 8, 2015 in Case 04-M-0159 (collectively the "Orders"), including the Quality Assurance Program filed by the Company with the Commission.

2. In accordance with the requirements of the Orders, the Company developed a program designed to test (i) all publicly accessible metallic street light and traffic signal poles located in public thoroughfares in the Company's service territory ("Street Lights"), and (ii) publicly accessible electric facilities owned by the Company ("Facilities") in conjunction with the facility five-year inspections, as identified through a good faith effort by the Company, for stray voltage ("Stray Voltage Testing Program").

3. I hereby certify that, to the best of my knowledge, information and belief, the Company has implemented and completed its Stray Voltage Testing Program for the annual period. Except for untested structures that are identified as inaccessible in the Company's Annual Report, submitted herewith, the Company is unaware of any Facilities or Street Lights that were not tested during the annual period.

4. I make this certification subject to the condition and acknowledgment that it is reasonably possible that, notwithstanding the Company's good faith implementation and completion of the Stray Voltage Testing Program, there may be Facilities and Street Lights that, inadvertently, may not have been tested or were not discovered or known after reasonable review of Company records and reasonable visual inspection of the areas of the service territory where Facilities and Street Lights were known to exist or reasonably expected to be found.

Orville O. Cocking, P.E.

Sworn to before me this 15 day of February, 2022

Notary Public:

DAVID H. BRAUNFOTEL
NOTARY PUBLIC-STATE OF NEW YORK
No. 01BR5019642
Qualified In Rockland County
My Commission Expires October 25, 2025

CERTIFICATION
FACILITY INSPECTIONS

STATE OF NEW YORK)
) ss.:
COUNTY OF ROCKLAND)

Orville Cocking, on this 15 day of February 2022, certifies as follows:

1. I am the Vice President, Operations of Orange and Rockland Utilities, Inc. ("the Company"), and in that capacity I make this Certification for the annual period ended December 31, 2021 based on my knowledge of the inspection program adopted by the Company in accordance the Public Service Commission's Orders issued and effective January 5, 2005, July 21, 2005, December 15, 2008, March 22, 2013 and January 13, 2015 in Case 04-M-0159 (collectively the "Orders"), including the Quality Assurance Program filed by the Company with the Commission.
2. The Company has an inspection program that is designed to inspect on a five-year inspection cycle all its electric facilities ("Facilities"), as identified through a good faith effort by the Company, in accordance with the requirements of the Orders (the "Facility Inspection Program").
3. I hereby certify that, to the best of my knowledge, information and belief, the Company has implemented and completed its Facility Inspection Program for the annual period. Except for structures that are identified as inaccessible in the Company's Annual Report, submitted herewith, the Company is unaware of any Facilities or Street Lights that were not inspected during the annual period.

Orville O. Cocking, P. E.

Sworn to before me this 15 day of February, 2022

Notary Public:

DAVID H. BRAUNFOTEL
NOTARY PUBLIC-STATE OF NEW YORK
No. 01BR5019642
Qualified in Rockland County
My Commission Expires October 25, 2025