

Electric Cooperative

Norwalk, Ohio

INSPECTION DATE:

January 25, 2025

COMPANY CONTACT:

Mr. Joe Smith

ADDRESS:

2214 Main Street

Norwalk, Ohio 44857

STANDARDS USED:

N.E.T.A. National Electrical Testing Association

INSPECTION BY:



INVIZIONS, Inc.
Predictive Maintenance Services

2519 State Route 61 South

Norwalk, OH 44857

Phone: 419-663-8621

WWW.INVIZIONSINC.COM



FOREWORD

This report provides complete documentation of the exceptions (abnormally warm or cool equipment) found during the infrared inspection of your equipment. It uses a variety of data and ratings to help prioritize your repairs and give you the greatest return from your maintenance efforts.

This inspection and report have been performed and prepared by ***Austin J Scott, a Level II Certified Infrared Thermographer***. To earn this certification, the candidate must complete coursework and pass an examinations administered by the Infrasppection Institute.

This report fully meets the requirements of the Infrasppection Institute's "Guidelines for Infrared Inspection of Electrical and Mechanical Systems." It also references, incorporates and exceeds all other published guidelines and standards pertaining to the infrared inspection of electrical and mechanical systems.

REPAIR PRIORITY RATINGS

Temperature Severity Ratings are objective and based on temperatures measured by the thermographer. The exception and other reference temperatures are compared to industry standards and guidelines to produce an objective Temperature Severity Rating. We have used the following temperature criteria to assign Temperature Severity Ratings to the exceptions:

NETA Priority Criteria for ELECTRICAL & MECHANICAL Exceptions

#1 (0 to 18F deg)	Possible deficiency and warrants investigation.
#2 (18 to 36F deg)	Indicates probable deficiency; repair as time permits.
#3 (36 to 72F deg)	Monitor continuously until corrective measures can be accomplished.
#4 (72 to above F deg)	Indicates major discrepancy; repair immediately.

INSPECTION LIST

Abbreviations for status are as follows:

OK No problem found

N/O Not Operating.

EX Exception/potential problem.

BL Baseline Only.

NA No access possible/permitted.

TO Tagged out.

2024 Jan.	2025 Jan.	2026 Date	ITEM No.	EQUIPMENT DESCRIPTION	LOCATION
OK	OK		001	All Overhead Connections on Poles	Union-Shelby Rd
OK	OK		002	All Overhead Connections on Poles	Hetzler Rd
OK	EX-1		003	All Overhead Connections on Poles	St. Rt. 589
OK	OK		004	All Overhead Connections on Poles	Miami River Rd
OK	OK		005	Regulator Bank	E. Lockington Rd
OK	OK		006	All Overhead Connections on Poles	Lindsey Rd
OK	OK		007	All Overhead Connections on Poles	Fairview Rd
EX-3	OK		008	All Overhead Connections on Poles	Snyder Rd
EX-1,2	OK		009	All Overhead Connections on Poles	Coddington Rd
OK	EX-2		010	All Overhead Connections on Poles	St. Rt. 55
OK	EX-3		011	All Overhead Connections on Poles	Pisgah Rd
OK	OK		012	All Overhead Connections on Poles	Possum Hollow Rd
OK	OK		013	All Overhead Connections on Poles	Grandview Heights Rd
OK	OK		014	All Overhead Connections on Poles	Putnam Rd
OK	OK		015	All Overhead Connections on Poles	Lostcreek-Shelby Rd
OK	EX-4		016	All Overhead Connections on Poles	Neil Pearson Rd.
OK	OK		017	All Overhead Connections on Poles	Peterson Rd
OK	EX-5		018	All Overhead Connections on Poles	Johnson Rd
OK	OK		019	Regulator Bank	Casstown-Sidney Rd
OK	OK		020	All Overhead Connections on Poles	Loy Rd
OK	OK		021	Regulator Bank	Loy Rd
OK	OK		022	All Overhead Connections on Poles	Piqua-Troy Rd
			023		
			024		
			025		
			026		
			027		
			028		
			029		
			030		

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PRIORITY

3

Exception: #1

CONTACT: Mr. Joe Smith

LOCATION: State Route 589.

EQUIPMENT: C-phase bypass switch on device 4515.

FINDINGS: Suspect possible poor switch connection.

RECOMMENDATIONS: Disassemble, inspect, clean switch connection and check for proper tension .

EXCEPTION TEMP. (Area 1): 87F

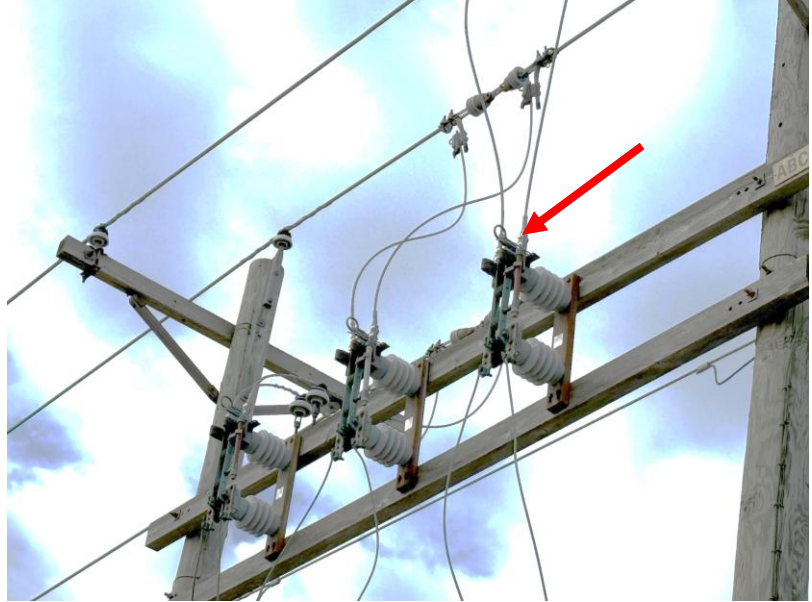
REFERENCE TEMP. (Area 2): 44F

DELTA-T: 43F

PRIORITY RATING: (NETA STANDARDS)

Monitor continuously until corrective measures can be accomplished.

PRIORITY 3



Visual Control Photo



Thermal Infrared Exception Image

Notes:

Electric Cooperative

James, Ohio

PRIORITY

3

Exception: #2

CONTACT: Mr. Joe Smith

LOCATION: State Route 55.

EQUIPMENT: Bottom switch connection on north phase cut out switch on pole 82947.

FINDINGS: Suspect possible poor switch connection.

RECOMMENDATIONS: Disassemble, inspect, clean switch connection and check for proper tension .

EXCEPTION TEMP. (Area 1): 71F

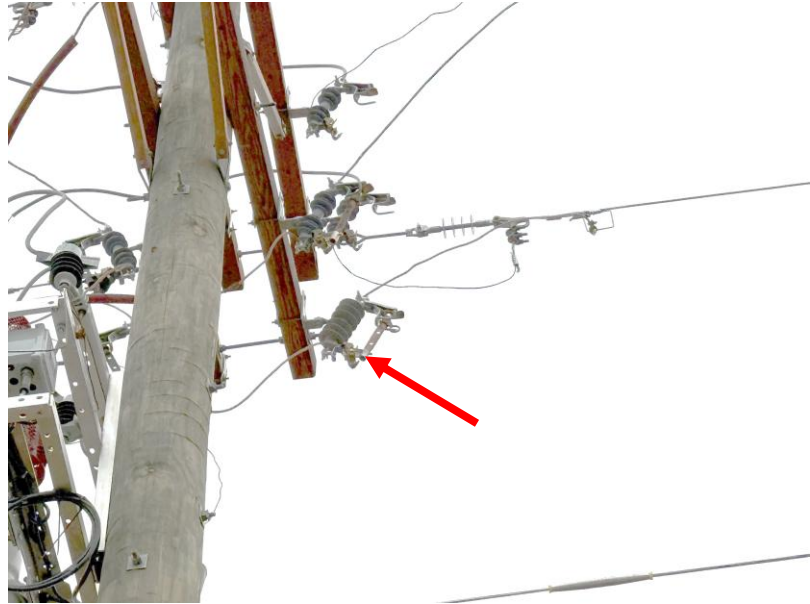
REFERENCE TEMP. (Area 2): 25F

DELTA-T: 46F

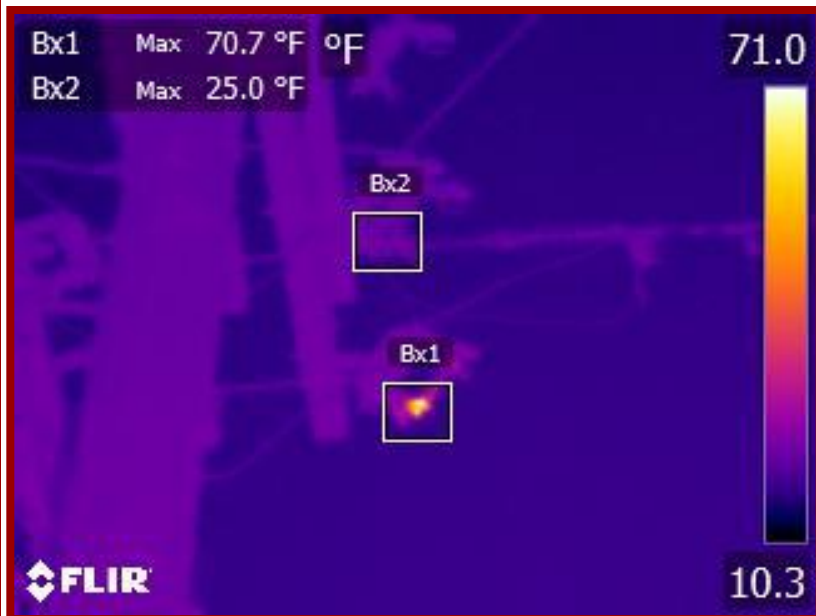
PRIORITY RATING: (NETA STANDARDS)

Monitor continuously until corrective measures can be accomplished.

PRIORITY 3



Visual Control Photo



Thermal Infrared Exception Image

Notes:

Electric Cooperative

James, Ohio

PRIORITY

2

Exception: #3

CONTACT: Mr. Joe Smith

LOCATION: Pisgah Road.

EQUIPMENT: Center phase lightning arrestor on pole 49096.

FINDINGS: Suspect possible damaged and/or cracked lightning arrestor.

RECOMMENDATIONS: Inspect for cause of heating and correct as required.

EXCEPTION TEMP. (Area 1): 49F

REFERENCE TEMP. (Area 2): 29F

DELTA-T: 20F

PRIORITY RATING: (NETA STANDARDS)

Indicates probable deficiency; repair as time permits.

PRIORITY 2



Visual Control Photo



Thermal Infrared Exception Image

Notes:

Electric Cooperative

James, Ohio

PRIORITY

3

Exception: #4

CONTACT: Mr. Joe Smith

LOCATION: Neil Pearson Road.

EQUIPMENT: Top C-phase cut out switch on middle cross arm on east side of pole 18824.

FINDINGS: Suspect possible poor switch connection.

RECOMMENDATIONS: Disassemble, inspect, clean switch connection and check for proper tension .

EXCEPTION TEMP. (Area 1): 82F

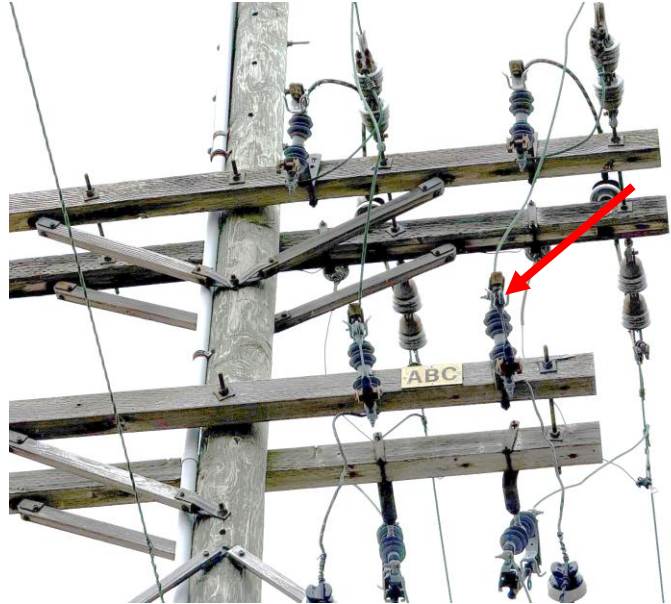
REFERENCE TEMP. (Area 2): 32F

DELTA-T: 50F

PRIORITY RATING: (NETA STANDARDS)

Monitor continuously until corrective measures can be accomplished.

PRIORITY 3



Visual Control Photo



Thermal Infrared Exception Image

Notes:

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PRIORITY

2

Exception: #5

CONTACT: Mr. Joe Smith

LOCATION: Johnston Road.

EQUIPMENT: Bottom switch connection on north phase cut out switch on pole 36204.

FINDINGS: Suspect possible poor switch connection.

RECOMMENDATIONS: Disassemble, inspect, clean switch connection and check for proper tension .

EXCEPTION TEMP. (Area 1): 80F

REFERENCE TEMP. (Area 2): 50F

DELTA-T: 30F

PRIORITY RATING: (NETA STANDARDS)

Indicates probable deficiency; repair as time permits.

PRIORITY 2



Visual Control Photo



Thermal Infrared Exception Image

Notes:

2025 Thermographic/Infrared Analysis

DATA LOG AND EQUIPMENT

INFORMATION

Certified Thermographer: Austin J Scott

Certification Level: I,II

Certification Number: 5811

Equipment Manufacturer: FLIR

Model Number: T400

Software: FLIR Quick Report 1.2 (Power Point Compatible)

Accuracy: +/- 2%

Calibration: Annual (1-15-2025)

Wave Band: Long Wave (8-14)

Lens: FOL18

Temperature Measurement Units: Fahrenheit

Distance Units: Feet

Ambient Air Temp. 10-38F

Wind Speed:

Wind Direction: N/A

Sky Conditions:

Inspection Size: 1-Day.

Type Of Inspection: Industrial Electrical/Mechanical