Protecting Your Investment
Improving Life Safety

Specializing in Electrical System Safety & Reliability
Service . Products . Education

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Benefits Of Preventative Maintenance

Why we do it?

“Without an EPM (Electrical Preventive Maintenance) program, management assumes a much greater risk of serious electrical failure and its consequences.”

- National Fire Protection Association, NFPA-70B

How we do it?

Inspection by Certified Electricians
Infrared Thermography
Voltage & Current Analysis
Power Quality

Ultrasonic Services
Electronic Documentation
De-energized Services
NFPA 70E Compliance
Comprehensive Electronic Documentation
100% tracking, Electronic One-Line Tree View
User Friendly Customer Interface

Technician:
Location:

Recommendations For Repair

Overloaded Circuit

Deenergize circuit/device, inspect assembly for fatigue and wear, clean or replace as necessary ensuring hardware is torqued to proper specifications, return to service and rescan with IR camera to verify repairs.

"A" Phase loadside wire terminations have abnormal thermal patterns compared to "B" and "C" phase loadside termination under similar loads and millivolt measurements confirm an elevated resistance on the termination.

Variables

<table>
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<tr>
<th>Circuit Number</th>
<th>Voltage Drop (Volts)</th>
<th>THDC (%THD-F)</th>
<th>Current Draw (Amps)</th>
<th>Current Rating (Amps)</th>
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<td>50</td>
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Problem Description

Access to electrical equipment would be inhibited during an emergency and may present a fire hazard.

Consequences if Not Corrected

REMOTE CONTROL

Problem Corrected

Remove all material and debris and store in proper places.

Corrective Actions

Remove all material and debris and store in proper places.
Article 110 General Requirements for Electrical Safety-Related Work Practices

110.1 Electrical Safety Program

(A) General: The employer shall implement and document an overall safety program that directs activity appropriate to the risk associated with electrical hazards. The electrical safety program shall be implemented as part of the employer’s overall occupational health and safety management system, when one exists.

Risks Associated with noncompliance

- Increased liability for owners and managers
- Increased potential for injury and death
- Increased potential for expensive emergency repairs
- Increased potential for major business and production interruptions

6 Point Compliance Checklist

1. Maintain an updated NFPA 70E safety plan
2. Train and qualify employees in NFPA 70E compliance
3. Generate, update and post a single-line diagram
4. Perform Arc Flash Risk Assessment then apply Arc Flash labels
5. Provide employees with Personal Protective Equipment (PPE)
6. Electrical Predictive and Preventive Maintenance per NFPA 70B

OSHA’S General Duty Clause:

Section 5(a)(1) of the Occupational Safety and Health Act requires an employer to furnish to its employees: employment and a place of employment which are free from recognized hazards that are causing or likely to cause death or serious physical harm to its employees.