

Electrical Service and Maintenance

Electri Council Room Session
3/25/24



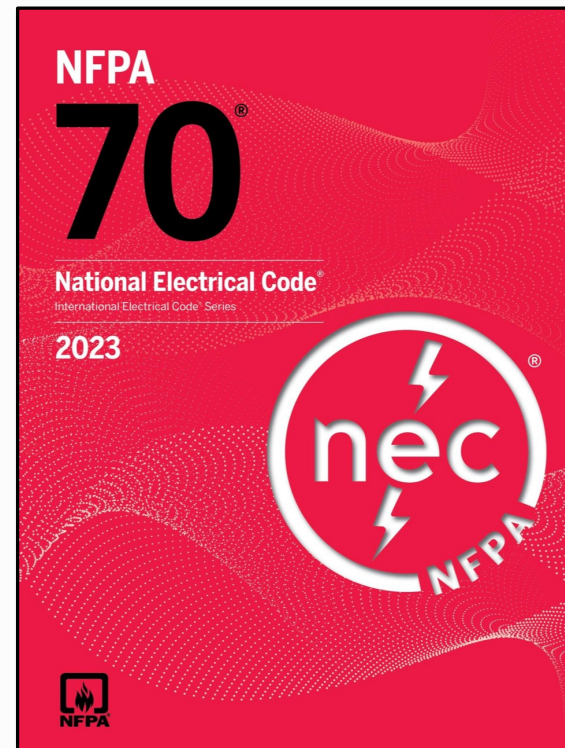


KYLE KRUEGER

NECA-Executive Director
Codes & Standards



The National Electrical Code



KEY ELEMENTS OF NEW 110.17

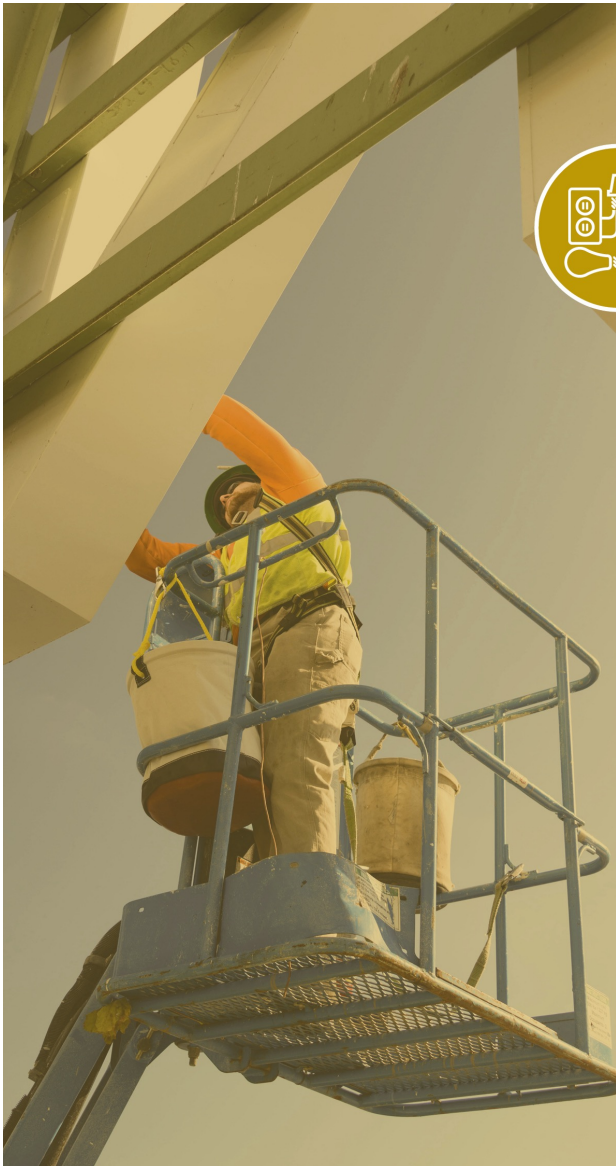
Who and How:

- Qualified Persons trained in Service and Maintenance
- In accordance with OEM:
 - Instructions and information
 - Product listing information
 - Applicable industry Standards (NFPA 70B)
 - As approved by the AHJ

Replacement Parts:

- Must use identified replacement parts verified under applicable product standards.
- Replacement parts must comply with one of these:
 - Provided by OEM
 - Designed by an experienced engineer.
 - Approved by AHJ (See 110.3)



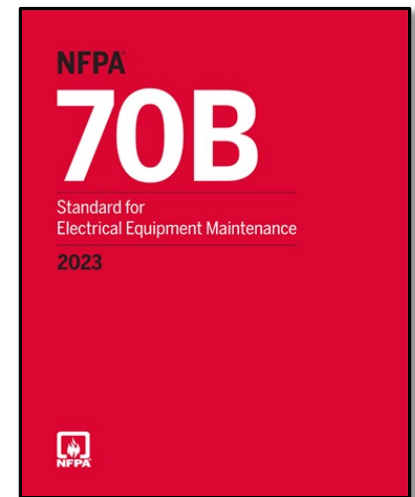


NFPA 70B, *Standards for Electrical Equipment Maintenance*



How has NFPA 70B evolved?

- NFPA 70B was escalated to a Standard in 2023.
 - Same development process as all NFPA documents
 - Technical Committee with balanced Membership Classifications
- Provisions written in mandatory text
 - SHALL instead of SHOULD.
- Industry Interest was high!
 - 707 Public Comments for 2023; <10 PCs for 2019 Edition

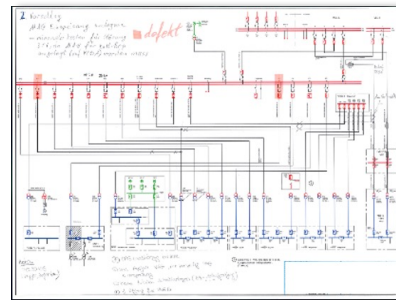


The Focus of NFPA 70B

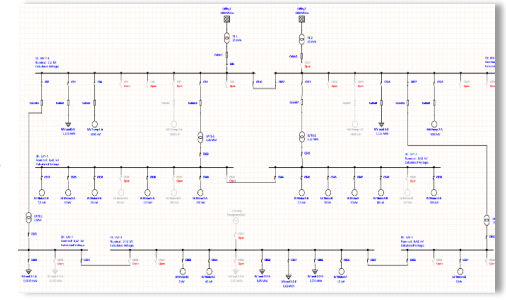
- Primary Focal Points:

- Documentation
 - Electrical Maintenance Program
- Maintenance Procedures
 - Equipment based
- Training
 - Qualified Workers
- Safety
 - Condition of Maintenance is part of 70E Electrical Safety Program

Maybe time to move from paper



...to an Electrical Digital Twin



Calendar Frequency



Good

Continuous Monitoring



Better

Predictive Techniques

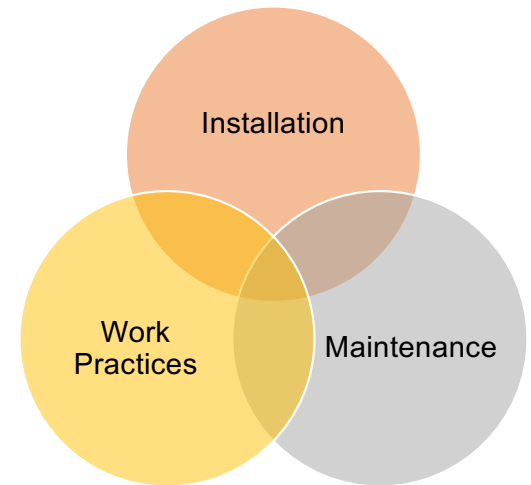


Best



NECA

ELECTRICAL SAFETY



Installation

NEC, NEIS
NRTL
Certification
Manufacturers
Instructions



Work Practices

NFPA 70E, NEIS
Electrical
Safety Program
Instructions
and Safety
Messages



Maintenance

NFPA 70B, NEIS
Electrical
Maintenance
Program
Manufacturers
Instructions



Safety

All the above



Questions

- AHJ involvement?
- Qualified Persons?
- Insurance Industries?
- Manufacturers?
- Customers?

Opportunities

- Business Development
- NECA Resources
- Certification Programs
- Technology







NECA Resources

- NECA 91, *Recommended Practice for Maintaining Electrical Equipment*
- NECA Emerge Conference
- Educational Webinars on Service and Maintenance

Electrical Service and Maintenance

THANK YOU!





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