CODES AND STANDARDS UPDATE

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Overview
NFPA 70 (NEC)
NFPA 70B
NFPA 70E
CSA Z463
RIC
PEARL EERS
(Electrical Equipment Reconditioning Standard)

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Electrical Safety System

Additional Industry Publications
- NFPA 99, 101, 110
- NETA ATS-2017
- NETA MTS-2015
- PEARL Reconditioning
- NEMA
- IEEE
- UL
- ANSI

NFPA 70

NFPA 70B

NFPA 70E

NFPA 70 (NEC)

110.3.A.1
Informational Note
No. 1: Equipment may be new, reconditioned, refurbished, or remanufactured.

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NFPA 70 (NEC)

110.21.A.2
Reconditioned Equipment.
Reconditioned equipment shall be marked with the name, trademark, or other descriptive marking by which the organization responsible for reconditioning the electrical equipment can be identified, along with the date of the reconditioning.

• Key Items Required on Labels:
  – Reconditioned Equipment
  – Name and or Trademark
  – Date of Reconditioning
NFPA 70
(NEC)

Informational Note:
*Industry standards are available for application of reconditioned* and refurbished equipment. Normal servicing of equipment that remains within a facility should not be considered reconditioning or refurbishing.

NFPA 70E

Safety Related Maintenance Requirements
200.1(3)

*Repair or replacement of individual portions or parts of equipment shall* be permitted without requiring modification or replacement of other portions or parts that are in a safe condition.
NFPA 70B

8.6.3 Equipment can be reconditioned under rebuild programs, provided the reconditioning follows established guidelines.

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NFPA 70B

8.6.4 The rework, remanufacturing, or retrofitting process can be conducted by the original manufacturer or by another party with sufficient facilities, technical knowledge, and manufacturing skills (as evaluated by an accepted certification organization).

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NFPA 70B

8.6.5 Refurbished or remanufactured equipment should be marked to identify it as such.

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NFPA 70B

8.6.6 When repairing, rebuilding, and/or remanufacturing equipment, the work should be conducted by a qualified person or organization to assure that no changes are made to the equipment that might prevent the equipment from meeting the applicable performance and safety requirements used to list the equipment.

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NFPA 70B

8.6.7 The AHJ can assess the acceptability of modifications to determine if the modifications are significant enough to require re-evaluation of the modified product by the organization that listed the equipment.

CSA Z463

Proposed Changes:
2013 Edition was a guideline. The anticipated 2018 Edition will be a standard covered under the CSA definition of such.
CSA Z463

Proposed Language:
Equipment can be reconditioned provided the reconditioning follows established guidelines. The reconditioning process can be conducted by the original manufacturer or by another party with sufficient facilities, technical knowledge, and skills as evaluated by an accepted certification organization.

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CSA Z463

Proposed Language:
Reconditioned equipment shall be marked to identify it as such. Personnel performing reconditioning activities shall be qualified in such activities.

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RIC
Remanufacturing Industries Council
strategic alliance of businesses and academic institutions that works across industry sectors to support the entire remanufacturing industry through a combination of collaboration, education, advocacy and research.

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RIC
Remanufacturing Industries Council
Specification for the Process of Remanufacturing
This standard was developed by the Remanufacturing Industries Council (RIC) and approved by ANSI on February 2, 2017

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PEARL EERS

Changes/Additions:
1000 Standard Terms & Warranties
1010 Scope of the Standard
1020 Informational Label
1030 Reconditioning Test Label

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Changes/Additions:
1040 Test Reporting
1050 Qualified Technician Statement
1060 References
1070 PEARL Test Equipment and Calibration Standard
1080 Counterfeit Product Statement

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**PEARL EERS**

**Changes/Additions:**
Each equipment type is now a section
The entire compilation of sections is renamed to a standard
Specified voltage ranges vice LV and MV

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**PEARL EERS**

**Changes/Additions:**
One section removed entirely
Section 3110 Non-Refill Style Fuses
Cannot be internally inspected to determine damage or suitability for reconditioning.
Cannot be reconditioned

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Changes/Additions:
Reference to specific ANSI/NETA MTS sections for testing to be performed
Reference to specific ANSI/NETA MTS for evaluation of test results
Reference to manufacturers’ published data when available.

PEARL EERS

Progress:
resubmitted for 3rd round of public review and consensus body voting
Attempt to resolve any negative comments (15 Days)
Official voting submitted to ANSI
PEARL EERS

Progress:
ANSI review
ANSI declaration as an American National Standard
Publication of ANSI/PEARL EERS-2017 within 6 months

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Future:
5-year review required
Revise
Reaffirm
Withdraw

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Questions?