

Amber M. Kenney  
Chief Safety Officer

**ES&H Section**  
P.O. Box 500, MS 119  
Kirk Road and Pine Street  
Batavia, Illinois 60510-5011  
USA  
Office: 630.840.3511  
[tamber@fnal.gov](mailto:tamber@fnal.gov)

**Date:** May 22, 2019  
**To:** Kate Gregory, Chief Operating Officer  
**From:** Amber Kenney   
**Re:** FESHM 9170 – UNINTERRUPTIBLE ALTERNATING CURRENT POWER  
BACK-UP SYSTEMS

---

This chapter has been updated as detailed below and sent for labwide review:


FESHM 9170 – Uninterruptible Alternating Current Power Back-up Systems:

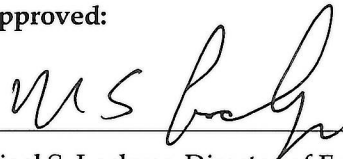
- 5-year review and update to 2017 NFPA 70 *National Electrical Code* and 2018 NFPA 70E *Standard for Electrical Safety in the Workplace* in section 2.0
- Added discussion of hazardous energy thresholds to section 4.0.
- Added requirements for battery locations to section 4.3.
- Added requirements for insulated tools, chemical protection, and maintenance items i to l in section 4.9

All comments received during the review period have been addressed by Subject Matter Experts and the updated chapter is ready for approval and release.

The chapter has been sent to you and Lisa Vega electronically. If a paper copy is required, you may either print one out or contact Lisa and she will provide one to you. After Directorate approval, please return this approval page to Kristy Gibson at MS119 for posting.

**Recommended for Approval:**

  
\_\_\_\_\_  
Katherine L. Gregory, Chief Operating Officer      5/28/19  
Date

**Approved:**  
  
\_\_\_\_\_  
Nigel S. Lockyer, Director of Fermilab      5/29/19  
Date