



**U.S. NRC**

UNITED STATES NUCLEAR REGULATORY COMMISSION

*Protecting People and the Environment*

# **Region III Fire Protection Utilities Group Meeting**

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# Topics

- PFSSD training
- Inspections
- NFPA 805
- Inspection Procedures

# Post Fire Safe Shutdown Training

- IMC 1245, Appendix C-7
- NRR, RES, Region III, BNL, Sandia
- Pilot
- Two offerings in 2016
- NRC inspectors
- NUREG Handbook

# 2014 Inspections

- Clinton 2014-007
- Monticello 2014-008
- Dresden 2014-008
- Fermi 2014-007
- LaSalle 2014-008

# 2015 Inspections

- Duane Arnold (NFPA 805) 2015-008
- Palisades (NFPA 805) 2015-008
- Braidwood 2015-007
- Perry 2015-008
- Quad Cities 2015-007

# 2016 Inspections

- Prairie Island 2016-008
- Byron - ongoing
- DC Cook (NFPA 805) August
- Point Beach (NFPA 805) Sep – Oct
- Davis-Besse Nov - Dec

# Status of NFPA 805

- License Amendments Issued
  - DC Cook, Duane Arnold, Palisades
- In Progress
  - Davis-Besse – extension granted
  - Point Beach – Summer 2016
  - Prairie Island – Fall 2016

# NFPA 805 Inspections

- Completed
  - Duane Arnold
  - Palisades
- 2016
  - DC Cook
  - Point Beach



# NFPA 805 Requirements

- 2.4.3 Fire Risk Evaluations
  - 2.4.3.2
    - *The PSA evaluation shall address the risk significant contribution associated with all potentially risk-significant fire scenarios.*
  - 2.4.3.3
    - *The PSA approach, methods, and data...shall be appropriate for the nature and scope of the change being evaluated, **be based on the as-built and as-operated and maintained plant**, and reflect the operating experience at the plant.*
- 3.4.3 Training and Drills (c)(3)
  - 3.4.3(c)(3)
    - ***Industrial fire brigade drills shall be conducted in various plant areas**, especially in those areas identified to be essential to plant operation and to contain significant fire hazards.*

# NFPA 805 Findings

- Duane Arnold
  - NFPA 805 Section 2.4.3.2
    - Failure to Identify and Evaluate the Effects of Vessel Overfill Scenario
- Palisades
  - NFPA 805 Section 2.4.3.3
    - Failure to Correctly Assess the Suppression System in the CSR in the PRA

# **NFPA 805 – Lessons Learned**

- Additional Resources
  - NRR
  - SRA
- New Requirements
- Minor vs More than Minor

# Inspection Procedures

- IP 71111.05T
  - 3 to 5 risk significant areas
- IP 71111.05XT
  - Minimum of two samples
    - One performance-based
    - One deterministic
    - One w/primary control station

# IP Differences

- IP 71111.05T
  - Review and documentation of FPP changes
  - Control of transient combustibles and ignition sources
- IP 71111.05XT
  - Radiological release
  - Non power operations
  - Monitoring program
  - Plant change evaluation

# Summary

- PFSSD Training
- Inspections
- NFPA 805
- Inspection Procedures



# Thank You

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