



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

- Fire protection staff
- PFSSD training
- Inspections
- Findings
- Inspection procedure changes

Fire Protection Staff

- EB3 inspectors
 - Alan Dahbur, Jasmine Gilliam, Jessie Hafeez, George Hausman, Irfan Khan, John Robbins, Atif Shaikh, Dariusz Szwarc
- DRP inspectors
- DRS inspectors

Post Fire Safe Shutdown Training

- IMC 1245, Appendix C-7
- NRR, RES, Region III, BNL, Sandia
- Completed
- NRC inspectors
- NUREG Handbook

2016 and 2017 Inspections

- DC Cook 2016009
- Point Beach 2016008
- Davis-Besse 2016009
- Dresden 2017007
- Clinton 2017008
- Monticello 2017007
- Fermi 2017010

Upcoming Inspections

- 2017
 - LaSalle
- 2018
 - Duane Arnold (NFPA 805)
 - Palisades (NFPA 805)
 - Braidwood
 - Perry

Recent Findings and Violations

- FHAR Error (Davis-Besse)
- Fire barrier inspections (Clinton)
- Inadequate alt comp measure (Mont.)
- Double-break circuit design (DC Cook)
- Availability of detection and suppression (Point Beach licensee ID)
- Pre-fire plan (Dresden)
- Cold shutdown repairs (Dresden)

FHAR Error

- Davis-Besse 2016009
- Two rooms without detection
- Not continuously staffed
- FHAR did not require fire watch as comp measure
 - Stated that rooms were occupied

Failure to Perform Fire Damper Surveillances

- Clinton 2017008
- Surveillance required every 48 months
- Surveillance was extended to five years

Inadequate Alternate Comp Measures

- Monticello 2017007
- Non-conforming fire barrier
- Identified during 2014 inspection
- Replenishment of diesel fuel
- Requirement for continuous fire watch

Inadequate Resolution of Double-Break Circuits Design

- DC Cook 2016009 (NFPA 805)
- Spurious operation of pressurizer PORVs
- Used deterministic rather than performance-based approach
- Potential spurious operation due to inter-cable shorting

Availability of Detection and Suppression

- Point Beach 2016008 (NFPA 805)
- Licensee identified
- Required fire protection system and features credited in fire PRA
- Availability assumptions in fire PRA
- Potential failure to maintain systems

Inadequate Pre-fire Plans

- Dresden 2017007
- Incorrect location of compressed gas cylinders
- “Hazards in Area” section of pre-fire plan
- Could complicate fire fighting activities

Cold Shutdown Repair

- Dresden 2017007
- Inadequate repair instructions
- Could result in MOVs rotating backwards
 - Shutdown cooling and recirculation
- Could damage MOVs
- Delay in achieving cold shutdown

Clinton MSO URI Closure

- Clinton 2017008
- MSOs are a requirement
- Licensee dispositioned identified MSOs
- Analysis not limited to four components
- SSD path components

Failure to Implement Alternate Shutdown Capability

- LaSalle IR 2016007 (CDBI)
- Need to consider fire-induced hot shorts
- RCIC valves must be protected
- NCV upheld

Potential IP Changes

- Triennial versus quadrennial
- Self-assessments
- Reduction in resources
- FP as a program inspection
- 2018 decision

Summary

- Fire protection staff
- PFSSD training
- Inspections
- Findings
- Inspection procedure changes

Thank You

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Questions?