

FIRE PROTECTION LESSONS LEARNED FROM SHEARON HARRIS

November 3, 2009

Agenda

- Closure Plan Progress
 - Jack Grobe, NRR
- NFPA 805 Activities
 - Alex Klein, NRR
- Update on Fire PRA
 - Donnie Harrison, NRR
- Fire Research Mark Salley, RES
- Summary Jack Grobe, NRR

Fire Protection Closure Plan Progress

- Accomplishments and status
 - Completed Tasks
 - On-going Tasks
 - Operator manual actions
 - Multiple spurious actuations

- Regulatory Infrastructure
 - RG 1.205, Rev. 1 (Jan. 2010)
 - Standard Review Plan 9.5.1.2 (Jan. 2010)
 - Safety Evaluation template (2Q CY 2010)
 - Preparations for inspections

- NFPA 805 pilot plant license amendment request reviews
 - Status
 - Challenges
 - Schedule

- NFPA 805 pilot plant lessons learned
 - Safety benefits
 - Communication
 - Planning

- NFPA 805 non-pilot plant license amendment requests
 - Early to mid-2010 requests
 - Fall 2010 requests

Fire PRA Infrastructure

- 10 CFR 50.48(c) (2004)
 - NFPA 805 (2001)
- RG 1.205, Rev. 1 (Jan. 2010)
 - RG 1.174, Rev. 1 (Nov. 2002)
 - RG 1.200, Rev. 2 (Mar. 2009)
 - NUREG/CR-6850 (Sept. 2005)

Fire PRA Lessons Learned

- Frequently Asked Question process
- Testing needed to address some uncertainties

Key Focus of Fire Research Activities

- Support User Office
 - User Need Requests
- Collaboration with Technical Partners
 - Electric Power Research Institute
 - National Institute of Standards and Technology
 - National Laboratories

Key Focus of Fire Research Activities

- Fire Modeling
- Fire PRA
- Experimental Activities
 - Cable Functionality Testing
 - Cable Combustibility Testing
- Knowledge Management

Acronyms

- CFR Code of Federal Regulations
- NFPA National Fire Protection Association
- NRC Nuclear Regulatory Commission
- NRR Office of Nuclear Reactor Regulation

Acronyms

- PRA Probabilistic Risk Assessment
- RES Office of Nuclear Regulatory Research
- RG Regulatory Guide