

NFPA 805
Lessons Learned
Shearon Harris Nuclear Plant

November 3, 2009

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NFPA 805 Lessons Learned Topics

- Plant Fire Protection Status
- Transition Results
- Insights Going Forward

Shearon Harris NFPA 805 Status

- RAI Responses/ Supplement 3, 10/9/09
- Program Implementation Mid 2010
- Modifications Complete by End of 2010



Progress Energy Fleet Status

- Incorporating Lessons Learned
 - ◆ Pilot Plant RAI Responses
 - ◆ RG 1.205, Rev 1 when issued
 - ◆ Pilot Plant SERs when issued
- Reassessing LAR Schedules

Shearon Harris Fire Protection Improvements

- 4000+ Fire Scenarios evaluated
- Reliance on Operator Manual Actions significantly reduced
- NFPA 805 Transition and modifications resulted in overall plant risk reduction
- Example Modifications Installed:
 - ◆ Hemyc/MT Fire Wrap barriers upgraded
 - ◆ Incipient detection / Alternate Seal Injection



Decision Making During and Post Transition

- Ensure Fire Defense-In-Depth Maintained
- Input from Various Sources:
 - ◆ Classical / Safe Shutdown / PRA / Others
- Risk Informed Post Transition Fire Plant Change Process

NRC Guidance Improvements

- Technical Adequacy of Fire PRA
 - ◆ Peer Review Process of RG 1.200
- Engineering Equivalency Evaluations
 - ◆ FAQ 06-008 Closure
- Clarifications of Scope of Recovery Actions Requiring Treatment in LAR

Stable Regulatory Environment

- Need to Pilot Inspection Process
- Consistent Application of NUREG 6850 and Related PRA Methods Needed
 - ◆ NFPA 805
 - ◆ Other Applications
 - ◆ Fire SDP Phase 3

Fire PRA Conservatism

- EPRI / NEI Ongoing Efforts to Address
 - ◆ Fire growth and Heat Release Rates in electrical cabinets is priority
- Inappropriate to treat Internal Events and Fire equally due to PRA realism differences

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Questions?

