



# ***Briefing on NFPA 805 Fire Protection***

***December 13, 2011***

***Office of Nuclear Reactor Regulation  
Region II***

# ***Presenters***

***Marty Virgilio, Deputy Executive Director for Reactor and Preparedness Programs***

***Jack Grobe, Deputy Director for Engineering and Corporate Support***

***Alex Klein, Chief NRR Fire Protection – Lessons Learned from Pilots***

***Donnie Harrison, Chief NRR Probabilistic Risk Assessment – Fire PRA Lessons Learned***

***Rebecca Nease, Chief RII Engineering Branch 1 –NFPA 805 Inspection Program***

# ***Lessons Learned from Pilots***

- ***Positive impact on nuclear safety***
- ***Successful Frequently Asked Question process***
- ***LAR template development***
- ***Multi-disciplinary resources***

# ***License Amendment Requests***

- ***Staggered schedule***
  - ***Effective use of resources***
- ***Routine work***
- ***Continuous improvement***

# ***Acceptance Reviews***

- ***7 NFPA 805 LARs submitted***
  - ***3 formally accepted***
  - ***4 under acceptance review***
- ***Consistent look with LAR template***
- ***Spectrum of modification scope***

# ***Plants Remain Safe***

- ***Safety enhancements***
- ***Compensatory measures during enforcement discretion***
- ***Inspections continue***

# ***Fire PRA Lessons Learned***

- ***Revised RG 1.205***
- ***Incorporated PRA FAQs into supplement of NUREG/CR-6850***
- ***Developed/conducted training on NFPA 805 and Fire PRA***
- ***Continuing lessons with non-pilots***
  - ***More detailed fire modeling***
  - ***New/refined fire PRA methods***

# ***Safety Enhancements***

- ***Plant procedure and physical modifications***
  - ***Address fire risks***
    - ***Incipient detectors***
    - ***Re-routing cables***
  - ***Improve overall plant safety***
    - ***RCP shutdown seals/alternate seal injection***
    - ***Protected service water***
- ***Safety perspective improvements***

# ***NFPA 805 Inspection Program***

- ***Nuclear Safety Fire Protection Inspections***
  - ***Tiered approach (quarterly, annual, triennial)***
  - ***Newly issued procedure “Fire Protection–NFPA 805 (Triennial)”***
  - ***Consistency and predictability***
- ***Successful Harris Inspection***
  - ***Training***
  - ***Team make-up***
  - ***Report issued and available on the public website***

# ***NFPA 805 Inspection Program***

- ***Lessons learned from first inspection***
  - ***Inspection procedure guidance***
  - ***Regulatory clarity***
  - ***Inspection focus***
  - ***Fire risk expertise***
- ***Path forward***
  - ***Oconee TFPI***
  - ***No significant revisions to the program***
  - ***Efficiency/effectiveness***

# ***Summary and Conclusions***

- ***Enhancements to safety***
- ***Predictable, consistent process***
- ***Efficient and effective work process***

# ***Abbreviations***

***LAR - License Amendment Request***

***NCV- Non-Cited Violation***

***NFPA- National Fire Protection Association***

***NRR- Nuclear Reactor Regulation***

***PRA - Probabilistic Risk Assessment***

***RG- Regulatory Guide***

***TFPI- Triennial Fire Protection Inspection***