

# NFPA 805 Transition Project



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## Nuclear Management Company NFPA 805 Transition Experience

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- Point Beach, Prairie Island and Monticello in process of transitioning to NFPA 805
- Primary tasks
  - Upgrade of Internal Events PRA to ASME Standard as endorsed by Reg Guide 1.200
  - Develop full Fire PRA using guidance contained NUREG 6850
  - Development of License Amendment Request using NEI 04-02 as endorsed by Reg Guide 1.205
  - Implementation phase of transition
    - Modifications if necessary
    - Programmatic changes
    - Procedural changes

- Benefits are driving the decision to transition
  - Resolution of issues using a risk informed methodology
    - Manual Actions
    - Multiple Spurious Operations
  - Clarification of licensing basis related to the issues driving the transition effort (e.g. method to evaluate spurious operations)
  - Ability to self-approve plant changes
  - Flexibility in change options
  - Future industry Fire Protection and Safe Shutdown issues and OE may be resolved in a risk-informed environment

- Transitions are being performed in parallel, though start dates for specific tasks are staggered.
  - Allows for incorporation of lessons learned
  - Reduces the burden on critical resources that have specific expertise

- Full time fleet Core Team that is supported by plant Fire Protection, Safe Shutdown and PRA Engineers.
  - 4 Core team members (full time)
    - Expertise in all areas needed for transition
  - Additional staff augmentation using contractors with expertise in the following areas:
    - PRA
    - Classical fire protection
    - Electrical circuit analysis
    - Fire Modeling
  - Site support (part time)
    - 1 Safe Shutdown Engineer (program owner)
    - 2 PRA Engineers
    - 1 Fire Protection Engineer

- Personnel
  - Availability of resources
  - Availability of expertise
    - PRA
    - Fire PRA and Fire Modeling
    - Safe Shutdown
- Plant Design
  - Cable type and location
  - Partial Automatic Suppression system coverage
  - Number and type of manual actions

- Personnel
  - Resources with key areas of expertise acquired
- Configuration Control
  - Integrated cable and Safe Shutdown database streamlines analysis and provides for easy configuration control
  - Development of a fleet-wide Sharepoint website allows for easy communication of information across sites and provides configuration control for in-process documentation
- Pre-job and Post-job briefs are performed for each task
- Project is currently on schedule