



*Engineering Planning and Management, Inc.*

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## **EPM Risk Services Division**

EPM has been serving the nuclear industry with engineering expertise primarily in the areas of safe shutdown systems analysis and fire protection for over 35 years while developing a solid reputation for delivering quality products consistent with the customer's schedule and cost requirements. However, EPM also offers the PRA expertise needed to support many of today's risk informed applications, making EPM an efficient contributor to NFPA 805 transition projects and associated Fire PRA development.

Leadership within EPM's Risk Service Division (RSD) has over 100 combined years of industry experience developing and applying PRA for nearly all areas commonly needed by typical nuclear utilities, with specific expertise using EPRI's R&R software suite. EPM PRA expertise includes extensive experience in all phases of PRA analysis, as well as applied experience in both BWR and PWR commercial nuclear power plants. EPM PRA personnel have led and participated in the development of multiple internal events, flood, fire, and external events PRAs, and have been active participants in several industry groups, including both PWR and BWR Owners Groups, NEI, and EPRI. Additionally, EPM PRA personnel are involved with the organization committees and writing groups responsible for the development and maintenance of the ANS/ASME PRA Standards, as well as participated in many plant PRA peer reviews to these standards.

### ***An overview of EPM's PRA support is as follows:***

- PRA Applications – Develop and support various risk informed applications such as Maintenance Rule, MSPI, NFPA-805 and Technical Specification AOT extensions.
  - PRA Model Development – Create efficiencies with regards to the functionality and readability of the current PRA models including implementing a consistent basic event naming scheme across a fleet of plants, or removing unnecessary modeling asymmetry.
  - PRA Updates – Support for periodic updates to current PRA models, including incorporating plant changes and updating component and event data for internal events and fire PRA.
  - Fire PRA Model Development – Provide the complete scope of Fire PRA development in accordance with current industry methods and practices.
  - Human Reliability Analysis – Provide human reliability analysis for internal events and fire risk analysis.
  - Walkdowns – Support site information gathering efforts ranging from extensive fire, flooding, and seismic walkdowns to specific analysis validation efforts.
  - Peer Reviews – Support/Lead focused scope peer review efforts in accordance with the ASME/ANS PRA standard.
  - Thermal Hydraulic Analysis – Provide thermal hydraulic analysis services to support PRA success criteria and operator action timing.
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