ABS Group provides nuclear power plants with customized and comprehensive PRA services

1. Nuclear Power Plant Baseline Probabilistic Risk Assessment (PRA)
   For All Hazards and All Operating Modes (At-Power and Shutdown) Applying Current Industry Standards (e.g., Regulatory Guide 1.200, ASME/ANS RA S-2008+, etc.):
   • Internal Events
   • Fire
   • Internal Flood
   • Seismic
   • Tsunami
   • Other External Events (High Winds, Hurricanes, Tornadoes, External Floods, etc.)

2. All PRA Element Disciplines
   • Initiating Events Analysis
   • Event Sequence Modeling
   • System Modeling
   • Data Analysis
   • Quantification (Including All Common PRA Software; e.g., RISKMAN, CAFTA, RiskSpectrum, WinNUPRA, etc.)
   • Documentation (To meet or exceed industry standards)

3. PRA Updates
   Living PRAs including application of EPRI and other customized Living PRA databases

4. Fire PRA
   Using NUREG/CR-6850 Methodology

5. Seismic PRA
   Using EPRI TR-1002989 Methodology, Including GI-199 Resolution and 50.54(f) Letter Solutions

6. PRA Peer Review and Comment Resolution

7. Maintenance Rule (10 CFR 50.65 (a)(4)) Implementation Support

8. Mitigating Systems Performance Indicator (MSPI) Support

9. Reactor Oversight Process (ROP) Support

10. Risk-Informed Applications
    • Applications Infrastructure Support (Develop Procedures and Databases)
    • Industry Initiative 4B – Risk-Managed Technical Specifications (RMTS) Programs
    • Industry Initiative 5B – Risk-Informed Surveillance Frequency (Ri-SFCP) Control Programs
    • 10 CFR 50.69 – Risk-Informed Graded Quality Assurance (RI-GQA) Programs
    • Risk-Informed In-Service Inspection (RI-ISI) Programs (e.g., for piping)
    • Risk-Informed In-Service Testing (RI-IST) Programs
    • Risk-Informed Containment Integrated and Local Leak Rate Testing
    • Risk-Informed Fire Protection Programs (e.g., NFPA 805 Implementation)
    • GSI-191 (Containment Sump) Resolution Support
    • Risk-Informed Plant Security
Questions?

Contact us for more information on how ABS Group can help improve the safety, risk and reliability of your nuclear plant operations

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