



Maracor, now a division of ENERCON, has been providing PRA and reliability analysis services to the US utility industry since early 2003. The staff of Maracor consists of proven technical specialists with a solid reputation in the industry for on-time, on-budget project performance. Our services include PRA/PSA, Configuration Risk Management and Maintenance Rule Support, Risk-Informed Applications, Reliability Analysis, Cost-Benefit Analysis, Software Development, and Maintenance Optimization Analysis.

Since Maracor began providing risk and reliability consulting services in 2003, we have demonstrated consistent annual growth in staff size and capability, satisfied clientele, and revenue. With our November 2013 acquisition by ENERCON, we currently provide more than 25,000 man-hours of consulting services annually with a staff that averages nearly 20 years of risk analysis experience.

To date, Maracor has provided direct PRA or reliability consulting support to over 50% of all US nuclear power plants, giving us a broad perspective on design and operating philosophy. In addition to nuclear power generation, we have experience in both fossil generation and power delivery. We also provide ongoing consulting support to various clients outside the US.

Maracor staff members have significant experience in a number of technical areas, including Level 1, Level 2, Level 3, internal flooding, internal fire, and external events PRA. Maracor offers a wide variety of risk and reliability analysis services. Specific examples include:

- Level 1 and Level 2 PRA Development and Update
- Risk-Informed Applications
- Major and Specialized PRA Upgrade Projects
- PRA Peer Reviews and Independent Assessments
- New Plant PRAs
- Fire, Flooding and Seismic Risk Assessments
- Low Power and Shutdown Modes PRA and Qualitative Shutdown Risk Assessment
- Configuration Risk Management
- Maintenance Optimization Analysis
- Training Services
- Risk and Reliability Software Development



Maracor has performed a variety of PRA-related projects for many US utilities. A sampling of our experience includes:

Major PRA Development/Upgrade Projects

- Complete turn-key Level 1 PRA upgrades for North Anna, Monticello, and Ginna stations
- Turn-key Level 2 PRA upgrades for Millstone 3, Wolf Creek, and Harris
- Design Certification PRA (all modes, all hazards) for B&W mPower™ and APR1400

Fire, Flooding and Seismic PRA Projects

- Complete flooding PRAs for Millstone 2 & 3, Hatch, Columbia, Monticello, and Prairie Island stations
- Fire PRA support for Point Beach, Prairie Island, San Onofre, and Brunswick
- Seismic PRA support for Vogtle, Hatch, and Farley

Low Power and Shutdown PRA Projects

- Transition Modes PRA for Millstone 2 & 3 and San Onofre stations
- Qualitative Defense-in Depth Shutdown for STP, Farley, Vogtle, D.C. Cook, Hatch, and Callaway

Risk-Informed Applications

- Risk-Informed Technical Specifications Initiative 4B support for Vogtle, Farley, and Hatch
- Fire Maintenance Rule (a)(4) support for Monticello, Prairie Island, Farley, Hatch, and Vogtle
- Significance Determination Process (SDP) PRA for Kewaunee, Prairie Island, Hatch, and Columbia
- Severe Accident Mitigation Alternatives studies for Millstone 3, Columbia, Cook, and Beaver Valley



ENERCON is an employee-owned firm with multi-discipline engineering capabilities, providing complete mechanical, electrical, structure designs and site implementation support. Our unparalleled staff of experienced engineers, a proven track record in cutting-edge technology and cost-saving applications helps provide complete solutions for our clients.

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