

MARACOR Update

Issue No. 15

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Fire Risk & (a)(4)

Welcome to the current issue of Maracor Update. NEI and NRC are negotiating how to best incorporate fire risk insights into the Maintenance Rule (a)(4) process. We are supporting, through the EPRI CRMF, NEI and a group of pilot plants in developing guidance to cost-effectively do this. If you are interested in learning more about this issue, please contact us.

MARACOR Software & Engineering, Inc. provides analytical consulting services and technical software development, primarily for the electric utility industry. Over the past eight years, we have provided high-quality products and services to over one-half of the nuclear power stations in the US, and various foreign companies.

Our experienced staff has a proven track record of technical capability, customer service, and on-time product delivery. We provide Probabilistic Safety Assessment (PSA), Configuration Risk Management, PSA applications, reliability analysis, maintenance optimization, software applications, and cost-benefit analysis services.

Recent Activities

For more information about any of these projects, please see the contact information provided at the end of this newsletter

PSA Enhancement and Applications

Maracor continues to support Southern Nuclear's internal events PSAs, including peer review F&O resolution, ISLOCA analysis, and flood modeling. We are also performing fire PSA tasks for the Hatch plant.

Maracor is performing fire PSA tasks for Progress Energy's Brunswick station. Our staff is also assisting the Korea Electric Power Research Institute's fire PSA program.

For Xcel Energy, we continue to support the completion of internal

events PSA updates for the Monticello and Prairie Island plants. We are also performing a whole-plant flooding PSA update for Prairie Island, following recent work to support SDP evaluations of high-energy line break-induced flooding issues in the turbine building.

Maracor is performing a complete Level 2 PSA update for Davis-Besse.

At Columbia, Maracor is assisting in responding to RAIs for the Severe Accident Mitigation Analysis (SAMA).

Our personnel also continue to support PWR and BWR Owners Group internal events and fire PSA peer reviews, and

are leading the Korean KPR-1400 reactor internal events PSA independent review.

Configuration Risk Management (CRM)

Maracor is developing EOOS™-based shutdown DID models for Southern's Vogtle station after successfully completing similar models for Farley. Our staff also is providing input to support fleet-standard process development for shutdown risk assessment at all Southern Nuclear plants.

Maracor is also assisting EPRI in a pilot EOOS™ Generation Risk Assessment project for a coal-fired generating plant.

New Plant PSA

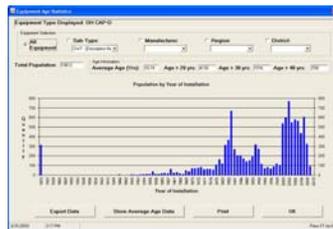
Maracor continues to support the development of the design certification PRA for the B&W *mPower*[™] small modular reactor. In addition to internal events accident sequence analysis, we recently developed risk insights training to assist the engineering staff in implementing reliability improvements during the systems design process.

Software Tools

Maracor develops and enhances software tools for PC Windows[®] desktop & Web-enabled uses. We can also develop custom tools to meet specific needs.

Maracor continues to enhance the “Living Database” system that it developed for SCE’s Power

Delivery group. The ability to analyze and trend substation equipment is being added to the functions already implemented to evaluate distribution infrastructure equipment.



Living Database Displays

Other Maracor-developed software tools include:

- **VisFT[™] (Advanced Fault Tree Diagnostics).**
- **SM-UNCERT[™] (Enhanced Uncertainty Analysis)**

Our tools can interface with many of the industry’s PSA software suites.

Please contact us for more information about any of these products, or any plant-specific software development needs you may have.

Please visit our Web Site, www.maracor.com, to obtain additional information about our products and services. On our Web Site, you can also review our most recent news releases and product announcements. Additional copies of **MARACOR Update** (including previous issues) are also available there for downloading.

New Addition to our Staff...

We are pleased to announce the recent addition of Mr. **Young In** to our staff. Young has more than twenty years of PSA experience as both an industry consultant and as a senior member of a utility’s PSA staff, providing day-to-day plant support. His experience includes internal events PSA, external events PSA, and risk-informed applications. Young has also provided PSA consulting support to several utilities and research institutions outside the US.

How to Contact Us

MARACOR operates from three primary office locations, with additional personnel located in Delaware, Pennsylvania, Tennessee, Washington, and Wisconsin. Please contact the office nearest to you for information about our capabilities and services:

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