

MARACOR Update

Issue No. 16

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Fukushima Impacts

Welcome to the current issue of Maracor Update. The lessons learned from the tsunami and accident at Fukushima Daiichi will need to be incorporated at plants around the world. External events protective measures, site self-sufficiency, and station blackout survivability are all likely areas to be examined in the coming months.

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 is leading the fire PSA for Southern's Hatch plant. We also continue to support fire PSA activities for Brunswick, Prairie Island, Point Beach, San Onofre and the Korea Electric Power Research Institute.

For Xcel Energy, we supported the SDP evaluation of a battery charger issue at Prairie Island. Work also continues on the update of the Monticello internal events PRA and the flooding PSA update for Prairie Island.

Maracor is also assisting Southern in the preparations to

implement Risk-Informed Tech Specs Initiative 4B. Tasks include comparisons of Tech Spec and PRA functions, identification of required process and procedure changes, and support for EOOS™ enhancements needed to support the Southern implementation.

At Columbia, Maracor continues to assist in responding to RAls for the Severe Accident Mitigation Analysis (SAMA).

New Plant PSA

Maracor's support of the design certification PRA for the B&W *mPower*™ small modular reactor continued with the finalization of the accident sequence

analysis and the development of system models/notebooks for key front line systems.

Maracor led a formal assessment of the Korean Shin Kori 3&4 PRA (APR-1400 design) against the ASME/ANS PSA Standard. Consulting support is also being provided for the APR-1400 plants being built in the United Arab Emirates.

Maracor also continues to support the North Anna 3 SAMDA evaluation.

Other Items

Maracor performed specialized PRA training for Southern PRA staff, including training in SDP evaluations, MSPI, and PWR risk insights.

Maracor personnel authored or co-authored a number of papers for the recently-completed PSA 2011 conference. Subjects included new plant PRA, flooding PRA, human reliability analysis, and support system initiator modeling. Contact us for copies of any papers of interest to you.

performance for substation and distribution equipment.

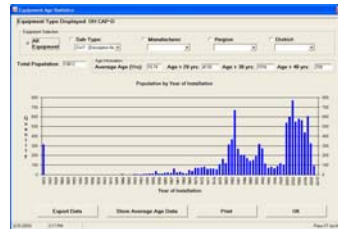
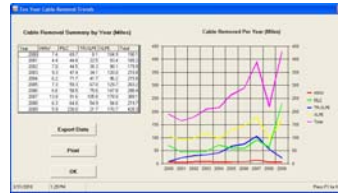
Other Maracor-developed software tools include:

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

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.

In 2011, Maracor continues to enhance the “Living Database” system that it developed for SCE’s Power Delivery group to analyze and trend equipment



Living Database Displays

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.

An Upcoming Course You May Want to Attend...

Dr. Ross Anderson, who recently retired after many years of PRA support at Dominion, has been developing a series of PRA training courses as a member of the faculty at Virginia Commonwealth University. As its latest offering, VCU has assembled a team of industry PRA veterans to present a course on common PRA Applications. The course will be taught May 16-20, 2011 in Richmond, Virginia. Details are available at <http://www.egr.vcu.edu/Page.aspx?id=248> or contact Ross at RCAnderson@VCU.edu.

How to Contact Us

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