

MARACOR Update

Issue No. 12

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Tightening Budgets...

Welcome to the current issue of Maracor Update. The current economic slowdown is impacting the budgets available for PSA upgrade work. However, NRC requirements for enhanced PSAs continue to increase (e.g., R.G. 1.200 Rev. 2). Maracor's experienced staff and cost-effective business approach can assist in getting the most done within available budgets.

MARACOR Software & Engineering, Inc. provides engineering consulting services and technical software development, primarily for the electric utility industry.

Our staff consists of experienced engineers with proven track records of technical capability, customer service, and on-time product delivery. Our service areas include Probabilistic Safety Assessment (PSA), Configuration Risk Management/Maintenance Rule support, PSA applications, reliability analysis, maintenance optimization, software applications, and cost-benefit analysis. We hope you consider **MARACOR** to support your technical consulting needs.

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 assisting the Hatch plant in preparing its PSA for a future peer review. Current tasks include the update of the system notebooks and the initiating events analysis. Support is also being provided to enhance the accident sequence analysis for several key initiators.

Maracor is continuing to assist San Onofre in preparing its PSA/ configuration risk management models for future implementation of Risk Managed Tech Specs (RITS Initiative 4B). Recent activities included parametric and modeling uncertainties analyses

(including 4B-specific uncertainties), creation of updated master fault tree models for CDF and LERF calculations, and improved documentation.

Maracor continues to support FPL's Point Beach plant in its license application for an Extended Power Uprate (EPU). We are also providing PSA support for the EPU application for Progress Energy's Crystal River plant.

Maracor staff is supporting various internal events and fire PSA peer reviews conducted by the BWROG and PWROG.

Our staff also recently converted the North Anna models to the CAFTA™ PSA software suite and

assisted in the Kewaunee model CAFTA conversion.

Other PSA enhancement activities underway include the following:

- Continuing assistance to Dominion in the upgrade of their PSAs to meet Reg. Guide 1.200 requirements (recent tasks included Internal Flooding, Data and Success Criteria updates)
- Update of the Columbia PSA's Internal Flooding Analysis, as well as quantification of the entire internal events PRA model
- Continuing support for the NFPA-805 transition for Prairie Island and Monticello for Xcel Energy

Configuration Risk Management (CRM)

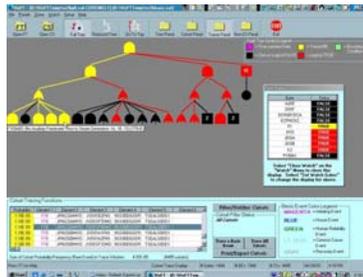
Maracor assisted in developing industry guidance (TR-1016744) for risk evaluation of heavy load lift activities for EPRI's Configuration Risk Management Forum (CRMF). This year's CRMF research will focus on the evaluation of external events risk (e.g., fires) within Maintenance Rule a(4) programs.

Training

Maracor conducted a series of seminars last fall for Japanese utility and regulatory personnel and Chinese university and plant staff on on-line maintenance practices. A second seminar was recently held in Japan on engineering change package and engineering training qualification processes used in the US.

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.



VisFT™ Main Display

Duke Energy became the eighth utility licensee of our VisFT™ fault tree diagnostic tool. VisFT allows PSA analysts to rapidly debug master fault tree models developed in CAFTA™ and WinNUPRA™.

Other Maracor-developed software tools include:

- **SM-UNCERT™ (Enhanced Uncertainty Analysis)**
- **OPTIC™ (Reliability and Cost-Benefit Analysis for Power Delivery)**

Our tools can interface with many of the industry's PSA software suites. A paper about the use of SM-UNCERT at San Onofre was recently presented at the PSA'08 topical meeting, and this paper can be provided on request.

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.

How to Contact Us

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