

MARACOR Update

Issue No. 6

March 2006

Three Years... and Counting!

Welcome to the latest semi-annual issue of **MARACOR Update**. Our 4th year of operation is well underway. We are proud to continue to add new clients to our roster of satisfied customers, as demand continues for PSA applications with new emphasis on Risk-Informed Fire Protection and compliance with RG 1.200.

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 Energy Northwest in upgrading the Columbia Fire PSA based on the comments from a 2004 peer review and in estimating resources needed for NFPA 805 implementation. MSPI support (various modeling and data upgrades) was also provided.

Following an extensive project last fall to assist in a flood-related SDP issue at Kewaunee, Maracor just completed a major update to the plant's internal flooding PSA.

As part of San Onofre's PSA Upgrade project to meet the

ASME Standard, we led the model quantification task, including identifying key uncertainties and performing the parametric uncertainty and sensitivity analyses for the model.

Other current/recent projects include the integration of seismic and other external events into the Surry PSA, and an update of Point Beach's pre-initiator human reliability analysis.

Configuration Risk Management (CRM)

Maracor is currently assisting Diablo Canyon personnel in the initial implementation of Safety Monitor™ for at-power & shutdown CRM, including

incorporation of the PSA models and Defense-in-Depth models. Staff training will be provided later this year. Also, various Oconee system models were enhanced to support Duke Power's Safety Monitor™ project.

Maracor continues to support the EPRI Configuration Risk Management Forum (CRMF) and its annual industry meeting. An external events evaluation guideline has been issued, and new CRM research projects for this year are now being finalized.

Training Services

A four-day Preventive Maintenance Optimization training class was recently held for a Japanese utility.

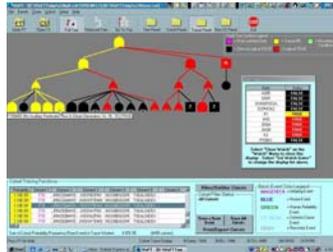
Software Tools

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

VisFT™ Version 2.5 has been released to the seven utilities that use our graphical fault tree diagnostic software. Interpreting the results of complex models is often challenging. Quickly debugging these models can save significant manpower and can help avoid regulatory issues.

VisFT includes the most complete set of fault tree diagnostic tools available for PSA applications. It is also the only software tool that can easily examine models from multiple PSA software tools (of particular benefit to utilities with models in several tools!)

Version 2.5 supports many “special gate” types (e.g., ‘A AND Not B’, NAND, XOR, etc.), further enhancing the support for CAFTA™, EOOS™, WinNUPRA™ and Safety Monitor™ models.



VisFT Cutset Trace Display

A demo version of the software is available. Contact us if you would like to try VisFT with your own PRA models.

Our **SM-UNCERT™** uncertainty analysis software package was used to perform a state-of-the-art parametric analysis for San Onofre’s recent PSA upgrade. It can use Bayesian-updated data histograms from the R-DAT™ analysis package and PSA models from both WinNUPRA™ and Safety Monitor™ software.

SM-UNCERT uses the NRC-developed LHS and TEMAC codes, and includes unique features such as uncertainty importance and flexibility in defining basic event groupings. SM-UNCERT can be modified to support other PSA software tools, as needed.

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** are also available there for downloading.

Office Location Change...

Our Illinois office recently moved to a new location in the suburban Chicago area. The address and phone number for the new office are noted below. As always, this office provides convenient support for clients in Illinois, Wisconsin, Michigan, and other upper Midwest states.

How to Contact Us

MARACOR operates from three primary office locations, with additional personnel located in Delaware, Pennsylvania, Tennessee, and Washington. On-site support can also be provided. Please contact the office nearest to you for information about our capabilities and services:

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