

Risk and Reliability (R&R) Workstation



The R&R Workstation is a comprehensive suite of integrated software modules that addresses a broad spectrum of probabilistic safety assessment (PSA) applications, needs and requirements. Using common system architecture in a seamless and integrated environment, the R&R Workstation is the answer to more than 20 years of PSA software development.

The typical R&R Workstation user includes U.S. and international utilities, the Aerospace community and Nuclear power plants around the globe.

Comprehensive Suite of Safety and Reliability tools

The list represents currently available products in the R&R Workstation Program. Various components of the entire suite are available to non-members as stand alone, such as CAFTA Fault Tree Analysis.

Reliability Modeling Tools

- CAFTA - Fault Tree /Event Tree Analysis
- ETA - Event Tree Analysis
- ePSA - Maintaining a PSA, particularly for many sites / models
- PRAQuant - Accident Sequence Quantification

O&M Support

- EOOS - On-line Risk Monitor
- TRIP – Monitor
- Transmission Grid Monitor

Analysis Tools

- UNCERT - Uncertainty Propagation
- BAYES - Bayesian Updating

Major Utility Programs

- BROWSER - Fault Tree Inspection
- ONE4ALL - Integrate PSA into Single Top
- SysImp - determine system / component importance

Fire / Flood Analysis

- FIVE - Fire Induced Vulnerability Evaluation Methodology
- FRANX - Fire/Flood/Seismic Methodology

Risk & Reliability (R&R) User Group

The Risk and Reliability User Group supports the R&R tools used for probabilistic safety analyses (PSA). The User Group is a community of more than 72 U.S and international utilities, and 8 vendor experts within the field of PRA. Application and experience from use of the (R&R) Workstation is shared among members. Code improvements and various issues are addressed in the user group. The newest in R&R projects supported by the group involves external events modeling (for example, fire and flooding) and Level 2 analyses.

Additional benefits of joining the User group

- Members only password protected Website
- Entire Suite of available R&R Software
- Free Training on software and/or PRA theory
- Access to Knowledgebase articles
- Scheduled Webinar/demonstrations
- Two annual regional meetings, and one international meeting
- Presentation materials from annual use group meetings
- Updated version of guidelines
- Updated version of all R&R Users Group software and accompanying documentation
- Standard technical support
- Results of technical investigation into emerging technical issues as directed by the membership
- Access to results of prior year R&R UG activities
- On-line and hot line technical consulting is provided to members

Quality Assurance

CAFTA (QA) and EOOS (QA) software were developed and are maintained by Electric Power Research Institute (EPRI) in a manner compliant with both Title 10 of the Code of Federal Regulations Part 50 (10 CFR 50) Appendix B Quality Assurance, and ISO 9001.

For further information about Risk and Reliability (R&R) Workstation go to the EPRI RRS website:

<http://teams.epri.com/RR/default.aspx>

For a list of the available software for non-R&R members or for general sales information on CAFTA and related products, please contact:

EPRI's Customer Assistance Center at 800.313.3774, e-mail askepri@epri.com or Marina Scofield, CAFTA Sales, 650.384.5693, e-mail Marina.Scofield@WorleyParsons.com