

# RISK ASSESSMENT STANDARDIZATION PROJECT (RASP) PROGRAM STATUS SUMMARY

September 2007

## **Background**

**Program Goal:** Provide consistent guidance (e.g., methods, models, and procedures) for the risk analysis of operating events (e.g., SDP - Phase 3, ASP, MD 8.3)

**Program Objectives:**

- Ensure consistency in results of analysis of similar events by various NRC offices
- Reduce the duplication of efforts by various NRC programs performing risk analysis of operating events or licensee performance deficiencies
- Reduce the time to perform a risk analysis of operating events
- Improve internal and external risk communications
- Resolve technical issues involved with the risk assessment of operating events (e.g., procedures, methods and models)

**RASP Program Elements:**

- SPAR Model Development and Maintenance
- SAPHIRE Code Development and Maintenance
- Parameter Updates (Failure Probabilities and Initiating Event Frequencies)
- Risk Analysis Methods Development and Enhancements
- Risk Analysis Guidelines (RASP Handbook) Maintenance
- Provide On-call Technical Assistance to SDP (Methods, SPAR model, SAPHIRE/GEM, SDP Phase 3 analyses)

**User Needs:**

- NRR-2002-010 (SPAR Model Development)
- NRR-2004-005 (Guidelines and SPAR Model Enhancements)
- NRR-2004-005 Supplement (SPAR Model Enhancements)

## **Recent Accomplishments (FY 2007)**

- Issue revised RASP handbook Vol.1 – Internal Events Analysis
- Issue revised RASP handbook Vol. 2 – External Events Analysis
- Issue new RASP handbook Vol. 3 – SPAR Model Reviews (OIG commitment on PRA quality audit)
- Provided ongoing support to regional and HQ senior resident analysts (SRA) (about 2 to 3 calls a week)
- Provided support for technical briefings at SRA counterpart meeting at INL (Oct 2006)
- See program briefings on SPAR model and SAPHIRE development for additional accomplishments

## **Future Plans**

- Issue an integrated RASP handbook with new guides
- Issue tutorials and guides on common cause failure (CCF), parameter estimations, uncertainty analysis, SPAR-H method, convolution fail to run parameters
- Continue to provide support to SRAs in SDP Phase 3 analyses (methods, SPAR model, SAPHIRE/GEM, semiannual SRA counterpart meetings)
- Continue SPAR model and SAPHIRE/GEM updates

## **Resource/Budget/Contract**

- RASP includes the following programs:
  - SPAR model development and maintenance (internal events, external events, LP/SD, & LERF)
  - SAPHIRE/GEM development and maintenance
  - Handbook development and maintenance (internal events, external events, LP/SD, & LERF)
  - Technical support (methods, models, analyses, SDP peer reviews)

# Risk Assessment Standardization Project (RASP) Overview

