

## ACCIDENT ANALYSIS SUBGROUP

**Mission:** Improve nuclear safety, manage operational risk, and achieve better and more consistent understanding of residual risks for nuclear operations through consistent implementation of accident analysis (AA)

**Activities:** Develop AA guidance based on lessons learned, identify and resolve AA-related issues, collect and share AA information, and conduct AA training through the following:

- AA Subgroup meetings and AA training sessions at Safety Analysis Working Group Workshops
- Annual SB Workshops in Albuquerque, NM
- Teleconferences
- Energy Facility Contractors Group (EFCOG) Internet Discussion Forum

**Accomplishments:** Used interest and task groups to:

- Support the development of Department of Energy Standard (DOE-STD)-1189, *Integration of Safety into the Design Process*, relative to the role of accident analysis
- Issue Los Alamos National Laboratory paper, *Role of Active Ventilation at DOE Facilities*, to address Defense Nuclear Facility Safety Board Recommendation 2004-2 concerns on active confinement systems
- Co-lead development of new DOE Standard on *Preparation of Safety Basis Documentation for Transuranic Waste Facilities*
- Complete and document comparison of EPI and ALOHA chemical dispersion computer codes
- Develop supplemental guidance for DOE-STD-1027, *Hazard Categorization & Accident Analysis Techniques for Compliance with DOE O 5480.23*
- Provide guidance on the integration of Fire Hazard Analysis and Documented Safety Analysis
- Provide support to DOE HQ/DS on evaluation of computer codes such as MELCOR, IMBA, and HOTSPOT

**Current Topics:** Near-term activities will focus on the following:

- Guidance on explosion analysis methodology
- Accident Analysis Guidebook

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