

Saralyn Dwyer

Education

- B.S., Electrical Engineering, University of Alabama in Huntsville, 1992
- Specialized safety training including explosive materials safety, hazard recognition, evaluation and control, and other OSHA-sponsored courses.

Ms. Dwyer currently serves as Program Manager for THAAD system safety support, and provides a variety of engineering support services for test, system safety, software safety and environmental safety.

Experience

1992-Present: *APT Research, Inc., Huntsville, AL, Program Manager and Engineering Support.*

Providing engineering support for test, system safety, software safety, and environmental activities on the U.S. Army THAAD and GMD development programs.

Program Manager for the THAAD system safety effort at APT. Coordinate directly with the THAAD government system safety manager on management, technical, reporting, and contractual matters. Assisted in preparation of test plans and procedures, defined safety critical requirements, monitored testing of software, managed a hazard tracking system data base, helped resolve design and operational safety issues, prepared an explosive ordnance disposal (EOD) data report, prepared safety inputs to an environmental assessment, reviewed THAAD hazard analyses, and assisted in conduct of system safety working groups. Other experience includes the following:

- Reviewed numerous TMD safety program and technical documents. This review verified system safety for hardware, software, and RF hazard compliance. Detailed recommendations for clarification and revision were provided.
- Participated in safety-related range activities associated with siting of the THAAD system.
- Assisted in evaluating the safety software and determining which software requirements were safety critical and would require test cases to be defined to test compliance with the requirements.
- Evaluated hardware and software from a system safety perspective.
- Participated in RF studies for GBR and THAAD.
- Developed analytical tool on the PC to automate the method of calculating main beam power densities versus distance for use in verification of THAAD radar RF power density calculations.
- Provided Manprint support to the THAAD Project Office.
- Provided engineering support in preparing the Integrated System Safety Program Plan (ISSPP), the Preliminary Hazard Analysis (PHA), Subsystem Hazard Analysis (SSHA), System Hazard Analysis (SHA), Operations and Support Hazard Analysis (O&SHA) for the Hera system.

- Provided engineering support and analysis in preparing the Hera Failure Modes and Effects Criticality Analysis (FMECA) for the Flight Termination Module. This work included extensive, circuit analysis, fault tree analysis, and reliability calculations.

1990-1992: NASA, Marshall Space Flight Center, Huntsville AL, Co-op.

Participated in a work/study program focusing on the design and development of space hardware. Particular emphasis on the quality assurance and safety aspects of NASA Spacelab Missions and Payloads flown on the Shuttle Orbiter and experiments flown in the Shuttle or on Expendable Launch Vehicles. Responsible for implementation of the basic elements of institutional safety such as workplace hazards, facility inspections, and safety reviews.

Professional Activities

- System Safety Society

Awards

- System Safety Society Professional of the Year, 1998