

Fostering A Community Of Practice Through Collaboration And Knowledge Sharing; Applying Scientific Analysis To Improve Emergency Planning And Response Activities/Efforts For Hazardous Material Threats Throughout The DOE Enterprise

# WHAT WE DO

- Apply science to examine the hazards at DOE and NNSA sites, determine the potential emergencies (especially hazardous material emergencies), identify the extent of negative effects, how the site would recognize them, and the response necessary.
- Conduct analysis in methods to assess hazards and atmospheric dispersions involving toxic chemical, radiological, and biological materials.

### **2024 ACCOMPLISHMENTS**

Successful in-person meeting at Lawrence Berkeley National Laboratory with a classified DBT WG discussion at Lawrence Livermore National Laboratory in August 2024. Included 29 attendees.

#### Five courses launched on Learning Nucleus with STARS SME participation:

- EMG-120DE: All-Hazards Survey
- EMG-200DE: EPHA
- EMG-205DE: Technical Planning
- EMG-210DE: Consequence Assessment
- EMG-220DE: Source Term

NFPA/GHS task group established in November 2024 Created white paper: Comparing GHS and NFPA for Hazardous Material Screening

## **TERM OBJECTIVES**

- 1. Support new technical analysts by developing a network of mentor/mentee relationships between new analysts and veteran analysts
- 2. Support NA-41 in the implementation of DOE O 151.1E, facilitating discussions of best practices and lessons learned for order compliance
- 3. Schedule and host one benchmarking forum over the next 12 months to conduct continuous professional development training and discuss best practices and lessons learned for dissemination during the 2025 Annual Meeting.
- 4. Create a new working group or task group to benchmark and share best practices for modeling scenarios in EPHA analysis



STARS SMEs participated in the development and review of DOE O 151.1E and its associated Guide.

### **LEADERSHIP**

Nicolette Zukowski (LBNL) Chair Jeremy Graves (UCOR) **Vice Chair** Ivy Hidalgo-Olberding (Y-12) **Steering Committee Advisor** Susana Herrera (NA-41) **DOE** Advisor