

DEFENSE NUCLEAR FACILITIES SAFETY BOARD

February 3, 2012

MEMORANDUM FOR: Timothy Dwyer, Technical Director
FROM: Jonathan Plaue, DNFSB Site Representative
SUBJECT: LLNL Activity Report for Week Ending February 3, 2012

Emergency Management: This week, a team from the Department of Energy's (DOE) Office of Health, Safety and Security (HSS) conducted a scoping visit in support of future visits examining the drill program. The institutional Emergency Management Department Head reported to the HSS team progress achieving the first two milestones established in the contractual performance evaluation plan: (1) development and briefings on a guidance document for the drill program and (2) identification of facility drill coordinators and completion of training on the guidance document. The next milestone specifies establishment of a drill schedule to include at a minimum the Plutonium Facility, Tritium Facility, and a Waste Storage Facility. These drills are to be completed by the end of the fiscal year. For the nuclear facilities, the Nuclear Materials Technology Program (NMTP) reported progress developing a documented structure for their drill program by March 30, 2012. NMTP further indicated their intent to meet the required drills through performances during upcoming readiness assessments.

HSS intends to review the program documentation, sample drill packages, and potentially observe a drill. As a follow on, HSS intends to conduct a larger scope assessment of the overall emergency management program tentatively planned for the October 2012 time frame. The previous HSS assessment in this area was conducted in 2008.

Work Planning and Control: This week, NMTP issued a revision to the *Operational Safety Plan (OSP) Development and Implementation Guide*. The revision was intended to strengthen the content and codify some of the improvements taken in response to the concerns outlined in the Board letter dated June 14, 2010. Changes to the document included:

- Strengthened roles and responsibilities
- Enhanced discussion on developing scope of work and task breakdown
- Added expectations for the conduct of a hazard analysis, including establishing clearer linkages to the safety basis and technical safety requirements
- Provided an example chemical compatibility matrix
- Improved format and alignment with the *NMTP Work Planning and Control Manual*
- Added guidance for OSP training and development of exams

NMTP completed an initial revision to the OSPs last year. Following issuance of this new guide, NMTP intends to utilize an external support contractor to begin another round of revisions.

Safety Basis: In recent years, contractor personnel have developed and implemented the concept of Equipment Important to Safety (EITS) in the safety bases at LLNL. EITS is not currently a fully recognized concept in the DOE Directives System. This week, laboratory contractor personnel reported to the Livermore Site Office their intent to capture practices for EITS in the ongoing revision effort of DOE-STD-3009. Once the revision to DOE-STD-3009 is approved, the contractor intends to revise local procedures to ensure alignment and meet the commitment to the Livermore Site Office for expanded and consistent treatment of EITS (see weekly report dated November 4, 2011). Of note, laboratory contractor staff lead the revision effort for the portion of the standard relevant to EITS.