

## DEFENSE NUCLEAR FACILITIES SAFETY BOARD

November 11, 2011

**MEMORANDUM FOR:** T. J. Dwyer, Technical Director  
**FROM:** B.P. Broderick and R.T. Davis  
**SUBJECT:** Los Alamos Report for Week Ending November 11, 2011

The Board staff held a conference call with site office and LANL personnel this week to discuss the status and safety strategy for the Transuranic Waste Facility, which will provide an enduring laboratory capability to stage and ship transuranic solid waste after Area G closure.

**Federal Oversight:** The Performance Evaluation Plan (PEP) is a key tool used by the site office to incentivize contractor performance. The Fiscal Year 2012 PEP includes roughly \$45M in at-risk fee for subjective and objective performance measures with approximately 80%, 10% and 10% identified for essential, stretch and multi-site incentives, respectively.

The award term incentive, which would extend the contract period, includes a mandatory measure for the improvement and integration of formality of operations at the Plutonium Facility (PF-4). Other measures associated with the award term are 1) reduction in the safety basis offsite dose consequence to less than 25 rem for all PF-4 accident scenarios; 2) meeting national security mission requirements; 3) sustaining LANL's science and technology leadership; and 4) meeting goals related to detection and characterization of nuclear and radiological signatures. LANL must achieve success in the mandatory measure and 3 of the 4 other measures in order to meet the criteria for the award term incentive.

The PEP also includes the following performance incentives and measures (this is only a partial list of Fiscal Year 2012 incentives):

- Capability Sustainment and Transition – relocation of sample management from the Chemistry and Metallurgy Research (CMR) building to PF-4; improvements in disposition of newly generated waste
- Capability Risk Reduction – materials disposition and PF-4 vault work-off; Integrated Nuclear Planning for waste operation continuity
- Environmental Management Mission – disposition of newly generated and legacy transuranic waste; environmental planning and execution
- Project Management Performance – CMR Replacement and site-wide project execution performance
- High Hazard Operations – integrate and execute mission and safety commitments (including PF-4 seismic upgrades and criticality safety improvements); formality of operations implementation; nuclear safety improvements (including submittal of safety basis documents); correct fire protection deficiencies; execution of confinement vessel disposition activities at CMR; mature conduct of operations
- Emergency Operations – implement emergency accountability system; improve emergency operations center facility and communication systems
- Excellence in Operations – conduct of operations, safety basis, operational readiness for facility startup and restart, credited safety management programs and vital safety system program improvements