

DEFENSE NUCLEAR FACILITIES SAFETY BOARD

January 20, 2006

MEMORANDUM FOR: J. K. Fortenberry, Technical Director
FROM: Michael J. Merritt, DNFSB Site Representative
SUBJECT: Lawrence Livermore National Laboratory (LLNL)
Report for Week Ending January 20, 2006

LLNL Nuclear Safety Management Plan: LLNL recently submitted its Compliance Management Plan to the Livermore Site Office (LSO) to document the status of LLNL nuclear facilities relative to the requirements contained in Title 10, Part 830, Subpart B of the Code of Federal Regulations (10CFR830), *Nuclear Safety Management*. According to the semiannual plan, all LLNL nuclear facilities have submitted a 10CFR830-compliant Documented Safety Analysis (DSA) and Technical Safety Requirements (TSR) or the facility inventory of radioactive materials has been brought below the threshold quantities for a Hazard Category 3 nuclear facility per DOE-STD- 1027-92, *Hazard Categorization and Accident Analysis Techniques for Compliance with DOE Order 5480.23, Nuclear Safety Analysis Reports*.

The safe harbor methodologies described in 10CFR830, Subpart B, Appendix A, Table 2, were used to prepare the DSAs for LLNL Hazard Category 2 and 3 nuclear facilities. The Plutonium Facility continues to operate under its existing Safety Basis as required by 10CFR830.207 (see weekly report dated December 23, 2005). LSO is currently reviewing the Plutonium Facility DSA and TSRs and is expected to issue a Safety Evaluation Report in late February 2006. LLNL is developing an implementation plan for phasing in the new DSA and TSRs. The LLNL facilities covered by the Compliance Management Plan and the implementation methodology are shown in the table below:

| Facility/Activity | Hazard Category / Methodology |
|--|---|
| Radiography Facility | Category 3 / DOE-STD-3009 CN 01 |
| Tritium Facility | Category 3 / DOE-STD-3009 CN 01 |
| Plutonium Facility | Category 2 / DOE-STD-3009 CN 01 |
| Hardened Engineering Test Building | Category 3 / DOE-STD-3009 CN 01 |
| Building 695 Segment of DWTF (including Building 696S) | Category 3 / DOE-STD-3009 CN 01 |
| Building 693 and Area 612 (including Building 625) | Category 2 / DOE-STD-3009 CN 01 |
| Building 696R | Category 2 / DOE-STD-3009 CN 01 |
| Transportation Operations | Safe harbor methodology specified in schedule exemption request |

The Heavy Element Facility (formerly a Hazard Category 2 nuclear facility) was downgraded to a Radiological Facility in April 2005 (see weekly report dated April 15, 2005). The plan also commits to updating the methodologies for the DSAs to be consistent with DOE-STD-3009 CN 02 which invokes more conservative requirements for worker protection.