

HSS Independent Activity Report - Rev. 0**Report Number:** HIAR SNL-2012-09-13**Site:** Sandia National Laboratories**Subject:** Office of Enforcement and Oversight's Office of Safety and Emergency Management Evaluations Activity Report for Operational Awareness Oversight of Sandia National Laboratories**Dates of Activity :** 09/10/2012 - 09/13/2012**Report Preparer:** William Macon**Activity Description/Purpose:**

The purpose of this Office of Health, Safety and Security (HSS) activity was to perform an operational awareness site visit to the Sandia Site Office (SSO) and Sandia National Laboratories (SNL) operated by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corporation, primarily to discuss the Annular Core Research Reactor Facility (ACRRF) improvement plan developed by SNL in response to recent safety basis and software quality assurance concerns raised by the Defense Nuclear Facilities Safety Board (DNFSB).

Result:

1. SNL updated the ACRRF improvement plan to revision 1 on 07/02/12. Near-term actions have already administratively reduced facility experimental material at risk in response to DNFSB concerns. SNL will implement long-term corrective actions to update the safety basis, instrumentation and control systems, and quality assurance program over the next few years. ACRRF staff briefed the HSS site lead on these planned corrective actions. Overall, HSS concurs that the plan is comprehensive and adequately addresses the concerns raised by the DNFSB as well as other related issues.
2. The HSS site lead attended a video teleconference with personnel from Idaho National Laboratory (INL) and the Waste Isolation Pilot Plant (WIPP) to discuss a path forward related to the removal of spent fuel from SNL. The site lead also toured the Manzano Nuclear Facility (MNF) to observe some of the spent fuel storage containers, which will have to be moved to the Auxiliary Hot Cell Facility (AHCF) for repackaging the material into shipping containers for eventual transfer to INL and/or WIPP, tentatively planned for completion in 2013.
3. The HSS site lead (who also covers the Pantex Plant) met briefly with SNL design agency (DA) staff to discuss weapon response requirements and with National Nuclear Security Administration (NNSA) staff (NA-121.1) to discuss nuclear explosive safety requirements. These requirements impact the safety basis of activities at the Pantex Plant. NNSA is currently reviewing the DAs' processes for proper implementation of DOE-NA-STD-3016-2006, *Hazard Analysis Reports for Nuclear Explosive Operations*, and is planning a top-down review of the 452-series directives for nuclear explosive safety. Independent Oversight will continue to monitor these reviews as a separate follow-up item in fiscal year (FY) 2013.
4. The HSS site lead also toured the Z Pulsed Power Facility and the Microsystems and Engineering Sciences Application Facility as a general operational awareness activity of SNL non-nuclear operations.

HSS Participants

1 (lead). William Macon

ReferencesWere there any items for HSS follow up? Yes No**HSS Follow Up Items**

1. Independent Oversight will continue to monitor, as an operational awareness activity, SNL's responses and corrective actions to the DNFSB concerns, and shadow an SSO software quality assurance assessment in FY 2013.
2. Independent Oversight will continue to monitor, as an operational awareness activity, the disposition of material from MNF, and observe material movement from MNF to AHCF in FY 2013.