

**HSS Independent Activity Report - Rev. 0****Report Number:** HIAR PTX-2012-07-19**Site:** Pantex Plant**Subject:** Office of Enforcement and Oversight's Office of Safety and Emergency Management Evaluations Activity Report for Operational Awareness Oversight of the Pantex Plant**Dates of Activity :** 07/16/2012-07/19/2012**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 primarily to review the status of the Babcock & Wilcox Technical Services Pantex, LLC (B&W Pantex) Documented Safety Analysis Upgrade Initiative (DSAUGI) project and the National Nuclear Security Administration (NNSA) response to recent Defense Nuclear Facilities Safety Board (DNFSB) concerns regarding nuclear explosive safety (NES) issues at the Pantex Plant, but also to monitor other ongoing site activities.

**Result:**

1. B&W Pantex Authorization Basis Department staff briefed the HSS site lead on the current progress of the DSAUGI project, a complete re-write of the DSA for consistency and quality. The first upgraded safety analysis report (SAR) is on track for issuance on 8/27/2012. The NNSA Production Office (NPO) should complete its safety evaluation report (SER) in September and then perform an assessment of the B&W Pantex DSA/Technical Safety Requirements (TSR) process, including the DSAUGI project.
2. The HSS site lead met with the NPO Senior Scientific Technical Advisor and NA-121.1 Nuclear Explosive Safety Division onsite staff to discuss NNSA's ongoing response to the DNFSB's letter of 11/07/2011 regarding NES issues. NNSA continues to work on resolving the issues as described in its 03/06/2012 response to the DNFSB.
3. The Pantex Plant continues to be challenged by weapon response (WR) changes issued from the design agencies (DAs). While onsite, the plant declared a potential inadequacy in the safety analysis related to the W87 weapon program due to a WR issued by Lawrence Livermore National Laboratory and Sandia National Laboratories. The site lead reviewed the WR and the B&W Pantex unreviewed safety question determination. The site response was adequate and in compliance with site processes and procedures.
4. The site lead also attended daily integrated plan-of-the-day meetings, reviewed a Fire Protection Program briefing, and met with the new DNFSB site representative to discuss the HSS site lead program.

**HSS Participants**

1 (lead). William Macon

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

1. Shadow the NNSA assessment of the B&W Pantex DSA/TSR development process, tentatively planned for 45 days following NPO's issuance of the first DSAUGI-related SER. All other DSA re-writes (~16) will use the first SAR as a template, so this assessment is critical to ensure that the DSAUGI project over the next few years complies with requirements and expectations.
2. Monitor the NNSA assessments of the DAs' implementation of DOE-NA-STD-3016-2006, *Hazard Analysis Reports for Nuclear Explosive Operations*, in preparing nuclear explosive operation hazard analysis reports at the Pantex Plant, and of B&W Pantex's NES change control process for compliance with DOE Manual 452.2-2, *Nuclear Explosive Safety Evaluation Processes*, per DOE Order 452.2D, *Nuclear Explosive Safety*.