

**HSS Independent Activity Report - Rev. 0****Report Number:** HIAR PTX-2011-10-28**Site:** Pantex Plant**Subject:** Office of Enforcement and Oversight's Office of Safety and Emergency Management Evaluations Activity Report for the Operational Awareness Site Visit to the Pantex Plant**Dates of Activity:** 10/24/2011 - 10/28/2011**Report Preparer**

William Macon

**Activity Description/Purpose:**

The purpose of this Office of Health, Safety and Security (HSS) operational awareness site visit was for the Pantex Plant site lead to discuss the design/construction of the new high explosives pressing facility (HEPF) and the scheduling of fiscal year (FY) 2012 independent oversight activities.

**Result:**

The HSS site lead attended daily Integrated Plan of the Day meetings and met with numerous Pantex Site Office (PXSO) and B&W Pantex contractor staff to tour facilities and discuss ongoing and upcoming activities, as summarized below:

- Discussed Implementation Verification Review (IVR) and the scope of the HSS IVR assessment planned for mid-January 2012. B&W Pantex has a work instruction for a technical safety requirements IVR process that has been used and improved upon since 2008.
- Discussed the review plan and progress to date of the Documented Safety Analysis Upgrade Initiative (DSAUGI). PXSO approved the contractor's DSAUGI project plan on May 2011. The scope of the effort includes improving DSA content of most all DSAs, which is projected to continue through 2015. Upgrades for the nuclear material/special nuclear material component requalification facility (NM/SNMCRF) and linear accelerator (LINAC) safety analysis reports (SARs) have been submitted and are currently under review. HSS intends to shadow PXSO's assessment of the DSAUGI project's management systems and processes planned for fourth quarter FY 2012.
- Toured the training bays and discussed the new B83 tooling being upgraded as part of the ongoing Seamless Safety 21st Century (SS-21) initiative. The SS-21 design is intended to reduce transportation, eliminate 70 hoist lifts, eliminate hydraulic tooling, reduce contamination areas, and reduce unit processing time from approximately 20 days to 10 days. HSS intends to shadow the National Nuclear Security Administration /PXSO readiness assessment (RA) for the B83 tooling upgrade planned for February 2012. Following completion of this RA, HSS will perform an independent assessment of PXSO's compliance with Department of Energy Order 425.1D, *Verification of Readiness to Start Up or Restart Nuclear Facilities*, tentatively planned for April 2012.
- Toured the LINAC and SNMCRF with the PXSO facility representative. HSS intends to shadow PXSO's assessment of the pit requalification program planned for third quarter FY 2012.
- Toured the current HEPF and machining facilities and discussed the design of the new HEPF, currently under construction and scheduled for completion in early 2013. The new facility with state-of-the-art hydraulic pressing machines will be outside Zone 12 and separated from nuclear operations for enhanced safety. The enhanced efficiency of the new facility with existing high explosive pressing and rough machining consolidated from seven buildings into one is expected to improve production from approximately 300 components per year to more than 900.
- Discussed the progress of the ongoing high pressure fire loop upgrade in Zone 12 South to replace approximately 14,000 linear feet of ductile iron pipe with high density polyethylene pipe, replace associated valves and fire hydrants, and install new water storage tanks. This project is on track for completion in FY 2012, with many parts of the safety class HPFL already upgraded and in service.

**HSS Participants****References**

1. William Macon

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

- None.