

Date Fri, 12 Nov 1999 083736 -0700
From Meredith Brown racer@lanl.gov
Subject: Green Alert- Activity-Based Startup Review
Project Hanford Lessons Learned

Title: Green Alert-Activity Based Startup Review Highly Successful

Date October 27, 1999 Identifier 1999-RL-HNF-0041

Lessons Learned Statement- The key to a successful startup readiness verification is to have the facility indeed ready at the start of the verification process. Concurrent oversight review is an effective application of the graded approach. DOE Order 425.1A provides flexibility in applying a graded approach for startup verification.

Discussion of Activities- Verification of readiness to restart the Prototype Vertical Denitration Calciner at the Plutonium Finishing Plant (PFP) at Hanford was conducted using an Activity Based Startup Review process. This process utilized a checklist, modeled after Integrated Safety Management System (ISMS) core functions, that identified those items needing to be completed for safe activity startup. The verification team reviewed those items on the checklist. Senior managers not directly responsible for the project conducted the independent verification of readiness to proceed, with concurrent oversight by the integrating contractor and DOE-RL. Approval of a change to the Authorization Basis and a waiver of the requirement to conduct an ORR were worked concurrently through effective teamwork of all concerned.

Analysis- Normally an Operational Readiness Review (ORR) under DOE Order 425.1A is required to restart a complex system after being modified to the extent that its authorization basis requires changes. In this case, significant efficiencies were achieved by performing an activity based startup review instead of a full ORR. Further efficiency was achieved by performing the DOE-RL review concurrently with the contractor review.

Recommended Actions- N/A

Estimated Savings/Cost Avoidance- \$250,000 and six weeks time based on recent history of ORR's of similar scope

Priority Descriptor GREEN/Good Work Practice

Functional Categories (DOE) Operations

Functional Categories (Hanford specific) N/A

Originator Fluor Daniel Hanford, Inc. Submitted by Jim Carey, (509)373-2504

Contact Project Hanford Lessons Learned Coordinator; (509) 373-7664; FAX 376-5243; e-mail PHMC_Lessons_Learned@rl.gov

Authorized Derivative Classifier Roger Terry (509) 372-3343

Reviewing Official John Bickford

Keyword(s) restart, readiness, ORR

References DOE 425.1A, Startup and Restart of Nuclear Facilities