

## DEFENSE NUCLEAR FACILITIES SAFETY BOARD

May 27, 2011

**TO:** T. J. Dwyer, Technical Director  
**FROM:** W. Linzau and R. Quirk, Hanford Site Representatives  
**SUBJECT:** Hanford Activity Report for the Week Ending May 27, 2011

W. Linzau was off-site this week.

Waste Treatment Plant (WTP): A new contractor management review group, the Facility Safety Committee (FSC), approved a Justification for Continued Design, Procurement, and Installation (JCDPI) for allowing the use of emergency turbine generators (ETGs), rather than the traditional reciprocating emergency diesel generators (EDGs), as the safety-class emergency power supply. The engineer who presented the JCDPI to the FSC noted that the start time for the ETG will likely be significantly longer than the currently specified 12 seconds for the EDGs and, if necessary, safety-class batteries would supply power between the time when power is needed for safety-class loads and when the ETGs are ready for loading. The various FSC members, including nuclear safety, engineering, and operations managers, were actively involved. Representatives from the Office of River Protection (ORP) Nuclear Safety Division, who will need to concur with the JCDPI, and the ORP WTP Project Office were also present.

The contractor also held an integrated safety meeting to discuss proposed changes to the tailoring of IEEE STD-387, *Standard Criteria for Diesel-Generator Units Applied as Standby Power Supplies for Nuclear Power Generating Systems*, that will be required if ETGs are used. The proposed changes were based on NRC interim staff guidance for using ETGs in commercial nuclear power plants. A number of changes to the proposed tailoring were raised by meeting attendees, especially the startup organization. Many of these comments were related to the qualification testing that will be required by the ETG supplier.

Plutonium Finishing Plant: The contractor determined that Building 2736-ZB is “Operationally Clean.” This condition vacates requirements in the TSR for the fire protection and ventilation systems, although the contractor plans to continue the active ventilation of the facility.

Cold Vacuum Drying Facility (CVDF): The contractor replaced the control room operator interface system for the Monitoring and Control System (MCS), with updated hardware and software. The facility manager noted that the changes should be transparent to the operators, and they plan to validate that the system operates as expected next week. The site rep was told that there were no changes to the Safety Class Instrumentation and Control (SCIC) system (a safety-significant system) and the SCIC system should not be impacted by the changes to the MCS. During discussions with the responsible engineers, the site rep was informed that they are no longer maintaining the System Design Description (SDD) for the SCIC system.

Facility Representatives (FRs): G. Reed passed his final board for qualification as a FR for the WTP Low Activity Waste Facility, Analytical Laboratory, and Balance of Facilities. Three others DOE employees are expected to complete their initial FR qualifications in the next few months – one each for the WTP High Level Waste facility, the Tank Farms, and the River Corridor Closure Project. Current and planned reassignments of FRs have also created at least four more FR vacancies that will need to be filled in the near future. Despite this turnover, the site rep has observed that FR coverage of activities has generally been good.