

ENVIRONMENTAL CHECKLIST IDAHO NATIONAL LABORATORY

SECTION A. Project Title: TRA-609 Compressed Air System Drain Line Modification and Valve Replacement

SECTION B. Project Description:

Due to periods of insufficient water flow to the sewer ponds, the clay liners in the ponds can dry out and crack. This proposed action is to add an additional drain line, which will allow clean well water that has been used to cool compressors to then be drained into the sewer system ponds during low flow periods in order to maintain a higher, more consistent water level. There are no chemicals added to the water.

This project will replace the 1.5" compressor oil cooling water solenoid valves with ball valves on M-6, M-7 and M-8; replace the 2" compressor oil and air cooling system flow control valves on M-6, M-8 and M-9; install a new check valve in the compressed air system auxiliary compressor line; install a drain line tie-in from the compressor oil and air cooling system drain line to the sanitary sewer drain in room 104; and install a new block valve on the sanitary sewer drain line and a new block valve on the existing drain line.

The new valves are being installed to improve operability of the compressor cooling system.

Projected Start Date: April 2010
Projected Finish Date: April 2011
Estimated Cost: ~ \$150,000.

SECTION C. Environmental Aspects / Potential Sources of Impact:

Disturbing Cultural / Biological Resources - TRA-670 and ancillary facilities are eligible for nomination to the National Register of Historic Places and removal of original features will adversely impact this historic property. To mitigate the impact, the project will ensure that photographs are taken and engineering drawings are archived depicting the original configuration and equipment. See Section E. Conditions

Generating and Managing Waste - A small amount of construction type waste (including PCB suspect waste) will be generated from this activity. Pollution Prevention will be implemented wherever economically practicable to reduce the volume and/or toxicity of waste generated. All waste generated will be transferred to WGS for proper disposal.

Releasing Contaminants - The paint on some of the existing piping is coated with suspect PCB-containing paint. Any of these suspect surfaces scheduled to be cut/welded, must have the paint removed from the cutting area in accordance with the NACE (National Association of Corrosion Engineers) standard. All PCB suspect paint removed prior to cutting will be managed by Waste Generator Services (WGS). Following cutting and removal of piping with suspect PCB-containing paint, the removed piping will be transferred to WGS for management and disposal. See Section F. Project-Specific Instructions.

Using, Reusing, and Conserving Natural Resources - The clean waste water generated from compressor cooling will be reused to maintain the sewage pond liner integrity.

SECTION D. Determine the Level of Environmental Review (or Documentation) and Reference(s): Identify the applicable categorical exclusion from 10 CFR 1021, Appendix B, give the appropriate justification, and the approval date.

Note: For Categorical Exclusions (CXs) the proposed action must not: 1) threaten a violation of applicable statutory, regulatory, or permit requirements for environmental, safety, and health, including requirements of DOE orders; 2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities; 3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that pre-exist in the environment such that there would be uncontrolled or unpermitted releases; 4) adversely affect environmentally sensitive resources. In addition, no extraordinary circumstances related to the proposal exist which would affect the significance of the action, and the action is not "connected" nor "related" (40 CFR 1508.25(a)(1) and (2), respectively) to other actions with potentially or cumulatively significant impacts.

References: 10 CFR 1021, Appendix B to Subpart D, B2.5

Justification: The addition of a drain line from the compressor cooling system to the sewer ponds can not only provide a solution to the potential sewer pond liner cracking problem but also makes use of wastewater that might otherwise be unused. Work activities associated with this project are appropriately covered by CX B2.5 "Safety and environmental improvements of a facility ..."

Is the project funded by the American Recovery and Reinvestment Act of 2009 (Recovery Act) Yes No

Approved by Jack Depperschmidt, DOE-ID NEPA Compliance Officer on: 3/18/10