

DOE-ID NEPA CX DETERMINATION

Idaho National Laboratory

SECTION A. Project Title: Installation of Piping to Support Cooling Tower Chemical Injection Barrel

SECTION B. Project Description and Purpose:

The proposed action is to install a water line (approximately 15 to 20 feet in length) to support filling of a cooling tower chemical injection barrel located in area 005 of the Hot Fuel Examination Facility (HFEF) basement. The current operation for filling the chemical injection barrel is to connect a hose from an existing demineralized water line and running the hose over to the chemical injection barrel. The connection point for the hose is located in a radiological area and requires additional effort to enter. The newly installed water line will require a tie-in into the existing demineralized water line located in the basement of the HFEF in area 005 to allow installation of the new line. The new line will run from the tie-in of the demineralized water line across the area to where the chemical injection barrel is located. The new water line will provide a more efficient system for filling the chemical injection barrel and will remove the need to enter into a radiological area.

SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions

N/A

Discharging to Surface-, Storm-, or Ground Water

N/A

Disturbing Cultural or Biological Resources

HFEF is eligible for listing on the National Register of Historic Places (NRHP), and all project activities associated with the building must undergo cultural resource review (CRR).

Generating and Managing Waste

The proposed action will generate a variety of waste streams, including radioactive and non-radioactive wastes. Non-radioactive wastes would include trash and waste found at any industrial facility, including common trash, wastewater, hydraulic and lubricating fluids, scrap metal, and possibly small amounts of hazardous waste (e.g., electronic circuit boards, solvent contaminated wipes). Radioactive waste would include PPE involved in entering radiation areas. Type of radioactive waste generated will be LLW.

Releasing Contaminants

Chemicals will be used and will be submitted to chemical inventory lists with associated Safety Data Sheets (SDSs) for approval prior to use. The Facility Chemical Coordinator will enter these chemicals into the INL Chemical Management Database. All chemicals will be managed in accordance with laboratory procedures. When dispositioning surplus chemicals, project personnel must contact the facility Chemical Coordinator for disposition instructions.

Although not anticipated, there is a potential for spills when using chemicals or fueling equipment. In the event of a spill, notify facility environmental staff. If environmental staff cannot be contacted, report the release to the Spill Notification Team (208-241-6400). Clean up the spill and turn over spill cleanup materials to WGS.

Using, Reusing, and Conserving Natural Resources

All materials will be reused and recycled where economically practicable. All applicable waste will be diverted from disposal in the landfill where conditions allow.

SECTION D. Determine Recommended Level of Environmental Review, Identify Reference(s), and State Justification: Identify the applicable categorical exclusion from 10 Code of Federal Regulation (CFR) 1021, Appendix B, give the appropriate justification, and the approval date.

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, or similar requirements of Department of Energy (DOE) or Executive Orders; (2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment or facilities; (3) disturb hazardous substances, pollutants, contaminants, or Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)-excluded petroleum and natural gas products that pre-exist in the environment such that there would be uncontrolled or unpermitted releases; (4) have the potential to cause significant impacts on environmentally sensitive resources (see 10 CFR 1021). In addition, no extraordinary circumstances related to the proposal exist that would affect the significance of the action. In addition, the action is not "connected" to other action actions (40 CFR 1508.25(a)(1) and is not related to other actions with individually insignificant but cumulatively significant impacts (40 CFR 1608.27(b)(7)).

References: 10 CFR 1021, Appendix B to Subpart D item B1.5 "Existing steam plants and cooling water systems".

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Justification: The proposed activity is consistent with CX B1.5 "Minor improvements to existing steam plants and cooling water systems (including, but not limited to, modifications of existing cooling towers and ponds), provided that the improvements would not: (1) Create new sources of water or involve new receiving waters; (2) have the potential to significantly alter water withdrawal rates; (3) exceed the permitted temperature of discharged water; or (4) increase introductions of, or involve new introductions of, hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products."

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

Approved by Jason Sturm, DOE-ID NEPA Compliance Officer on: 4/28/2020