

DOE-ID NEPA CX DETERMINATION

Idaho National Laboratory

SECTION A. Project Title: MATERIALS AND FUELS COMPLEX (MFC)-782 POTABLE WATER CHECK VALVE REPLACEMENT

SECTION B. Project Description and Purpose:

The proposed action would upgrade equipment cooling lines and install backflow prevention devices in the Materials and Fuels Complex (MFC) Machine Shop, building MFC-782, in order to meet standard requirements and allow the use of potable water for machine cooling. The proposed action would replace the 1-inch check valve in the weld bay with a ¾-inch reduced pressure (RP) watts backflow preventer. The potable water line would be capped where the 1-inch check valve is removed. All of the equipment cooling lines would be re-plumbed from upstream of the 1-inch check valve to the downstream side of the RP watts backflow preventer. Three hose bibs with vacuum breaks would be installed at various points in the machine shop to obtain potable water for equipment use. An abandoned 1 ¼-inch drain line would be removed, and the wastewater opening for the abandoned line would be capped. All water lines downstream of the new (RP) watts backflow preventer would be labeled "Industrial Water," and all water lines upstream from the removed 1-inch check valve would be labeled "Potable Water."

The new backflow preventer would be added to the cross connection control database for tracking and would be tested at installation and yearly thereafter.

SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions

The project has the potential to disturb asbestos containing materials.

Disturbing Cultural or Biological Resources

MFC-782 is eligible for nomination to the National Register of Historic Places and is considered a Category 3 historic property. Removal and/or changes of original features may adversely impact this historic property; however, the project activities as described are exempt (Idaho National Laboratory Cultural Resource Management Office. Idaho National Laboratory Cultural Resource Management Plan. DOE/ID10997, revision 5, Idaho Falls, Idaho: U.S. Department of Energy, Idaho Operations Office, 2013; pg 53, Table 2, Exemption 2). As such, the project may proceed as described without further cultural resource review.

Generating and Managing Waste

Maintenance activities will generate industrial waste such as cast iron pipe. All solid waste will be disposed of through Waste Generator Services.

Releasing Contaminants

Typical plumbing chemicals such as pipe lubricants would be used during the modification project.

Using, Reusing, and Conserving Natural Resources

All materials would be reused and/or recycled where economically practicable. All applicable waste would 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: National Environmental Policy Act (NEPA) Implementing Procedures, Final Rule, 10 CFR 1021, Appendix B to Subpart D, Categorical Exclusion B1.31 "Installation or relocation of machinery and equipment."

Justification: The proposed activities are consistent with CX B1.31 "Installation or relocation and operation of machinery and equipment (including, but not limited to, laboratory equipment, electronic hardware, manufacturing machinery, maintenance equipment, and health and safety equipment), provided that uses of the installed or relocated items are consistent with the general missions of the

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receiving structure. Covered actions include modifications to an existing building, within or contiguous to a previously disturbed or developed area, that are necessary for equipment installation and relocation. Such modifications would not appreciably increase the footprint or height of the existing building or have the potential to cause significant changes to the type and magnitude of environmental impacts."

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: 3/15/2016