

DOE-ID NEPA CX DETERMINATION
Idaho National Laboratory

SECTION A. Project Title: IF-616/617/654 Fire Water PIV Replacements

SECTION B. Project Description and Purpose:

There are several fire water Post Indicator Valves (PIVs) outside of IF-616 (Willow Creek Building) and IF-617 (Willow Creek Mechanical Building) that need to be replaced because they do not seal when shut and are difficult to operate. In addition to the replacement PIVs, two new isolation valves need to be installed on the IF-616 fire water loop and one 8" PIV installed on the IF-654 (Engineering Research Office Building) fire water riser line so that maintenance can be performed while fire water is still supplied to the building.

The proposed project will replace three 8" PIVs and one 6" PIV at IF-616 and one 6" PIV at IF-617. A new 8" PIV and 8" curb box valve will also be installed at IF-616 and a fire hydrant will be removed from that location. Finally, the new 8" PIV will be installed on the north side of IF-654.

The underground fire water piping is at least six feet below ground level so the project will require excavation at each valve. Some asphalt and concrete will need to be removed and replaced along with the stairs on the east side of WCB near Fremont Ave.

The project will take place in FY2021.

SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions

The proposed project activity has the potential to generate fugitive dust during excavation activities.

Discharging to Surface-, Storm-, or Ground Water

N/A

Disturbing Cultural or Biological Resources

N/A

Generating and Managing Waste

Project activities may generate non-hazardous, non-radioactive waste such as concrete, asphalt, wood, scrap metal (piping), wire scrap, packaging material, RCRA empty containers, etc. PCB bulk product (painted items) waste may also be generated.

Releasing Contaminants

Project activities would use typical construction chemicals such as concrete additives, lubricants, fuels, paints, adhesives, etc. Subcontractors would submit chemical inventory lists along with associated SDS's for approval through the vendor data system and Chemical Coordinators would place these approved chemicals into the INL Comply Plus Chemical Management System for tracking purposes. Although not likely, spills of chemicals could occur during project activities.

Using, Reusing, and Conserving Natural Resources

Waste minimization practices and recycling would occur where practical.

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)).

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References: This EC references the Categorical Exclusion B2.2 "Building and equipment instrumentation."

Justification: Project activities in this EC are consistent with 10 CFR 1021 Appendix B to Subpart D, CX B2.2: Installation of, or improvements to, building and equipment instrumentation (including, but not limited to, remote control panels, remote monitoring capability, alarm and surveillance systems, control systems to provide automatic shutdown, fire detection and protection systems, water consumption monitors and flow control systems, announcement and emergency warning systems, criticality and radiation monitors and alarms, and safeguards and security equipment).

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

Approved by Jason Anderson, DOE-ID NEPA Compliance Officer on: 03/10/2021