

DOE-ID NEPA CX DETERMINATION

Idaho National Laboratory

SECTION A. Project Title: Test Area North (TAN)-614 Potable Water Pump Replacement

SECTION B. Project Description and Purpose:

The TAN-614 potable 75 hp water pump has become unreliable, fails on occasion and needs to be replaced. The proposed action would remove the old potable water pump, associated parts (motor, controller, starter, etc.) and the interlock between the potable water pump and fire pump and replace them with new components. Specifically this work will include the following:

- Remove the existing concrete pump platform and replace with a new concrete platform (1.5' X 3' X 7')
- Install a new pump package/skid that includes (2) 15 hp pumps, isolation valves, check valves, and (2) motor/variable frequency drives
- Install a new 6" X 8" reducer, (2) 6" 90-degree elbows, and (2) 6" flexible connections
- Install a new 34-gallon pressure tank and 10 feet of 1-1/4" schedule 40 pipe
- Install a new pump package control panel
- Install an interlock between the fire pump and the pump package control panel
- Install wire/raceway between the fusible bus plug and the pump package control panel
- Install wire/raceway between the pump package control panel and the motor/variable frequency drives.

Estimated Start Date: December 2015

Estimated End Date: April 2016

SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions

The black pipe wrap on the water line is non-friable asbestos containing material (ACM). The pipe is to be disconnected (unbolted), retained, and reattached after pump installation, so the ACM should not be disturbed. If there is a need to disturb this material or any other ACM, trained personnel must be used to complete the asbestos work using compliant removal methods.

Disturbing Cultural or Biological Resources

TAN-614 is an exempt building; as such the upcoming project does not need a cultural resource review as long as the project activity is confined to TAN-614.

Generating and Managing Waste

Scrap conduit, wire, controls, piping, concrete, existing pump, packaging material, etc., will be generated during the project and must be characterized appropriately to avoid improper disposal.

Releasing Contaminants

Typical construction chemicals such as lubricants, fuels, adhesives, paints, sealants, etc., will be used on the project and has a potential for small amounts of air emissions and spills.

The project will alter an existing drinking water system and has the potential to contaminate the system and not meet regulatory requirements if not performed correctly. Even though pump replacement is not considered an alteration of a drinking water system, Environmental Support and Services (ES&S) personnel contacted the Idaho Department of Environmental Quality regarding the proposed changes. DEQ wished to see a description of the proposed work with associated preliminary drawings.

Using, Reusing, and Conserving Natural Resources

Scrap metal such as conduit, wire, and electronics may be diverted from landfill disposal and recycled.

SECTION D. Determine Recommended Level of Environmental Review, Identify Reference(s), and State Justification: Identify the applicable specific 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: 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 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: 1/12/2016