DOE-ID NEPA CX DETERMINATION
Idaho National Laboratory

CX Posting No.: DOE-ID-INL-16-042

SECTION A. Project Title: Test Reactor Area (TRA)-1627 Laboratory Water Supply Modifications

SECTION B. Project Description and Purpose:

The current raw water supply to the Radioanalytical Chemistry Laboratory (RaCL), building TRA-1627, at the Advanced Test Reactor Complex is not reliable due to poor condition of underground water lines along Marlin Avenue. Failure of the line causes safety issues that interrupt operations at RaCL for extended periods of time. The proposed action is needed to provide an uninterrupted supply of non-potable water to laboratories in TRA-1627. The proposed action would provide a connection to the fire water supply line in TRA-1627, so laboratory non-potable water needs can be supplied from either the raw water or fire water supplies. The project would involve piping modifications in Mechanical Room 119 in TRA-1627.

The expected waste streams are non-radioactive, non-hazardous piping, valves, and other water system components.
Projected Start: 4/1/16
Projected End Date: September, 2016
Estimated cost: $80,000.00

SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions

Emissions typical of cutting/grinding/welding are expected. The emissions from this activity are not considered construction of a new stationary emission source.

Generating and Managing Waste

Maintenance activity may generate industrial (non-hazardous, non-radioactive) waste such as boxes, wood, wiring, paper, insulation, and some metals. Potential waste materials would be evaluated for waste minimization prior to generation, and industrial waste generated during maintenance activities would be evaluated for recycling opportunities prior to disposal at the Idaho National Laboratory (INL) Landfill Complex.

Releasing Contaminants

Chemical use has a potential for small air emissions and spills.

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. The project would practice sustainable acquisition.

SECTION F. 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, B2.5 "Facility safety and environmental improvements"

Justification: Project activities are consistent with 10 CFR 1021, Appendix B, B2.5 "Safety and environmental improvements of a facility (including, but not limited to, replacement and upgrade of facility components) that do not result in a significant change in the expected useful life, design capacity, or function of the facility and during which operations may be suspended and then resumed. Improvements include, but are not limited to, replacement/upgrade of control valves, in-core monitoring devices, facility air filtration systems, or substation transformers or capacitors; addition of structural bracing to meet earthquake standards and/or sustain high wind loading; and replacement of aboveground and belowground tanks and related piping, provided that there is no evidence of leakage, based on testing in accordance with applicable requirements (such as 40 CFR part 265, "Interim Status Standards for Owners and Operators Hazardous Waste Treatment, Storage, and Disposal Facilities" and 40 CFR part 280, "Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks"). These actions do not include rebuilding or modifying substantial portions of a facility (such as replacing a reactor vessel)."

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

Approved by Jason Sturm for Jack Depperschmidt, DOE-ID NEPA Compliance Officer on: 5/3/2016