

DOE-ID NEPA CX DETERMINATION

Idaho National Laboratory

SECTION A. Project Title: ATR/ATRC Security Upgrades

SECTION B. Project Description and Purpose:

The security infrastructure within facilities Test Reactor Area (TRA)-670, TRA-674, and TRA-676 needs to be upgraded. The proposed action includes installation and replacement of conduit, cable and enclosures. New enclosures will be installed on the Advanced Test Reactor (ATR) main floor, in the diesel generator room, and outside the facility. New conduit and cables will be routed between the new and existing security enclosures, and devices will be located within the buildings. A new fiber optic network, including patch panels, will be installed between the diesel generator room, the reactor main floor, and the enclosure located in the ATR 1st basement. In the ATR Critical (ATRC) facility, security devices will be relocated and new devices installed. Removal of old or abandoned conduit, cables, and enclosures is included in the work scope.

The proposed action is expected to cost \$200K and take 6-8 weeks to complete.

SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions

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

Disturbing Cultural or Biological Resources

TRA-670 (ATR Reactor Building) is eligible for nomination to the National Register of Historic Places and is considered a Category 1 historic property. Removal and/or changes of original features may adversely impact this historic property; however, the project activities are exempt and may proceed as described without further cultural resource review. The described project activities fall under exemption 2 (routine maintenance activities) and exemption 5 (security systems) listed in Table 2 of the CRMP (Idaho National Laboratory Cultural Resource Management Office. Idaho National Laboratory Cultural Resource Management Plan. DOE/ID-10997, revision 6, Idaho Falls, Idaho: U.S. Department of Energy, Idaho Operations Office, 2016, pg 51).

TRA-674 (Diesel Generator Building) is an exempt property type; as such, no further cultural review is required for the project activities as described (Idaho National Laboratory Cultural Resource Management Office. Idaho National Laboratory Cultural Resource Management Plan. DOE/ID10997, revision 6, Idaho Falls, Idaho: U.S. Department of Energy, Idaho Operations Office, 2016, pg. 49, 366).

TRA-676 (Waste Heat Recovery Building) is not eligible for listing on the National Register of historic Places; as such, no further cultural review is required for the project activities as described (Idaho National Laboratory Cultural Resource Management Office. Idaho National Laboratory Cultural Resource Management Plan. DOE/ID10997, revision 6, Idaho Falls, Idaho: U.S. Department of Energy, Idaho Operations Office, 2016, pg. 49, 366).

Generating and Managing Waste

Project activities have the potential to generate the following types of waste:

- Industrial (non-hazardous, non-radioactive) waste (boxes, wood, wiring, paper, insulation, and some metal)
- Hazardous wastes (construction chemicals, cleaning and decontamination chemicals, lead, electronics, brass, metal containing paints, etc.) .
- Note: Lead has been encountered very infrequently (e.g., shielded cables).
- Asbestos waste
- Polychlorinated Biphenyl (PCB) waste from pre-1982 equipment/materials such as capacitors, lubricants/dielectric fluids, transformers/bushings, painted surfaces and other electrical equipment/components.

Releasing Contaminants

Although not anticipated, 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 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.

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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, B2.2 "Building and equipment instrumentation"

Justification: Project activities are consistent with 10 CFR 1021, Appendix B, 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 Sturm, DOE-ID NEPA Compliance Officer on: 6/13/2017