

**DOE-ID NEPA CX DETERMINATION
Idaho National Laboratory**

SECTION A. Project Title: TRA-679 Fire Alarm System Modification

SECTION B. Project Description and Purpose:

The fire alarm system in TRA 679 is in need of an upgrade. The scope of this work will involve the removal of three (3) existing duct mounted smoke detectors and associated remote testing stations and replacing them with three (3) new Xtralis aspirating duct smoke detectors. Additionally, the new smoke detectors will require installation of a new Notifier power supply as well as new Notifier monitoring and relay modules.

SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions

Activities during the removal of the three duct mounted smoke detectors has the potential to generate fugitive emissions from cutting or grinding. This activity does not involve construction of a new stationary emission source.

Discharging to Surface-, Storm-, or Ground Water

N/A

Disturbing Cultural or Biological Resources

N/A

Generating and Managing Waste

Removing the three duct mounted smoke detectors and associated remote testing stations and installing new components has the potential to generate industrial waste (non-hazardous and non-radioactive) such as boxes, wood, wiring, insulation, and some metals. Potential waste materials will be evaluated for waste minimization prior to generation, and industrial waste generated during project activities would be evaluated for recycling opportunities prior to disposal at the INL Landfill Complex.

Hazardous wastes have the potential to be generated during the use of hazardous chemicals to clean or decontaminate equipment and systems. Hazardous metal waste (e.g., lead, electronics, brass, metal containing paints, etc.) may also be generated.

All waste will be characterized and disposed at the direction of Waste Generator Services (WGS).

Releasing Contaminants

Releasing Contaminants (Describe Impact): Typical construction chemicals such as fuels, lubricants, adhesives, paints, etc., will be used and will be submitted to chemical inventory lists with associated Safety Data Sheets (SDSs) for approval in the vendor data system prior to use. The facility Chemical Coordinator will enter these chemicals into the INL Chemical Management Database. All chemicals will be managed in accordance with laboratory procedures. When dispositioning surplus chemicals, project personnel must contact the facility Chemical Coordinator for disposition instructions.

Although not anticipated, there is a potential for spills when using chemicals or fueling equipment. In the event of a spill, notify facility Environmental Staff. If the Environmental Staff cannot be contacted, report the release to the Spill Notification Team (208-241-6400). Clean up the spill and turn over spill cleanup materials to WGS.

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 to Subpart D Item B2.2 "Building and Equipment Instrumentation"

Justification: B2.2 Building and equipment instrumentation 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: 10/27/2020