

DOE-ID NEPA CX DETERMINATION

Idaho National Laboratory

SECTION A. Project Title: Materials and Fuels Complex (MFC)-703 Fire Alarm Replacement

SECTION B. Project Description:

The Sodium Storage Facility at MFC, building MFC-703, is a designated Hazardous Waste Management Act/ Resource Conservation and Recovery Act (HWMA/RCRA) Treatment, Storage and Disposal Facility permitted for storing reactive and ignitable hazardous waste and mixed waste. The building does not contain a fixed fire suppression system. The building does have a fire detection system consisting of smoke detectors and manual pull stations. However, the current detection system does not satisfy the listing requirements for operation below 32°, and, therefore, the fire detection system needs to be replaced.

The proposed action would remove 9 smoke detector heads in MFC-703 and relocate the electronic modules from three manual fire alarm pull boxes to cabinet SLC 1A. Wiring from the fire alarm system would be disconnected prior to start of electrical work, smoke detector heads would be mounted, and wiring to the fire alarm system would be reconnected after completion of work. Two 12-foot floor mounted support poles would be assembled and installed. A new all-weather smoke detector would be installed on the floor mounted poles. A heater and thermostat would be installed in cabinet SLC 1A. A Lockout/Tagout would be installed then wiring pulled from LP-003 through spare existing conduit for 120 Vac power to SLC 1A for the heater. Removed detectors would be saved and used as spares. The panel directory would be updated and entered into the MFC electrical panel database at the completion of the job.

SECTION C. Environmental Aspects or Potential Sources of Impact:

Generating and Managing Waste: Typical construction debris waste such as wood, wire, scrap metal piping/conduit, packaging material, etc., would be generated during the project. Hazardous waste is not anticipated, however there is a potential for generating hazardous waste from adhesives, paints or chemical spills. All waste would be characterized and dispositioned at the direction of Waste Generator Services (WGS).

Releasing Contaminants: Typical Construction chemicals such as adhesives, lubricants, paints, etc., would be used on the project. All chemicals would be tracked in the Idaho National Laboratory (INL) Comply Plus Chemical Management System. Chemical use has a potential for small amounts of air emission and spills. Any spills that occur from these chemicals would be reported to the Spill Notification Team.

Using, Reusing, and Conserving Natural Resources: All materials would be reused and recycled where economically practicable. All applicable waste would be diverted from disposal in the landfill where conditions allow. New equipment would meet either the Energy Star or Significant New Alternatives Policy (SNAP) requirements as appropriate (see <http://www.sftool.gov/GreenProcurement/ProductCategory/14>). In addition, the project will practice sustainable acquisition, as appropriate and practicable, by procuring construction materials that are energy efficient, water efficient, are bio-based in content, environmentally preferable, non-ozone depleting, have recycled content, or are non-toxic or less-toxic alternatives.

SECTION D. Determine the Recommended Level of Environmental Review (or Documentation) and Reference(s): Identify the applicable categorical exclusion from 10 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 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 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: Categorical exclusion applicable to 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 Jack Depperschmidt, DOE-ID NEPA Compliance Officer on: 8/7/2014