

# DOE-ID NEPA CX DETERMINATION

## Idaho National Laboratory

### SECTION A. Project Title: Central Facility (CF)-615 Sustainability Upgrades

### SECTION B. Project Description and Purpose:

In order to meet sustainability goals and reduce energy consumption, modifications to building CF-615 at the Central Facilities Area (CFA) are needed. The proposed action is to perform the following:

- Remove interior and exterior light fixtures (approximately 123 light sets) and replace with high efficiency light-emitting diode (LED) fixtures
- Remove building windows and window frames (20), and replace with new energy efficient windows
- Install new Energy Star Northern Climate Certified interior window blinds on all windows (20)
- Perform test and balance of airflows in the building and fix any infiltration issues.
- Install metal-faced insulating board on exterior of building foundation
- Install expandable foam insulation at each exterior corner

The metal-faced insulating board to be installed on the facility foundation is approximately 2 feet wide and installation will require excavation. This insulation would also be installed on the foundation of CF-1606.

### SECTION C. Environmental Aspects or Potential Sources of Impact:

#### Air Emissions

Emissions from construction activities are expected to be minimal. No asbestos work is anticipated. Emissions/fumes from common construction adhesives are anticipated.

#### Disturbing Cultural or Biological Resources

Maintenance activities would be conducted within facility boundaries and may involve soil disturbance activities that could impact cultural and biological resources (e.g., such as arrowheads, bone fragments, or any other cultural artifact).

#### Generating and Managing Waste

Industrial waste, in the form of common construction debris, is expected. All Solid Waste would be managed by Waste Generator Services (WGS).

#### Releasing Contaminants

Typical construction chemicals such as lubricants, paints, adhesives, etc., will be used during the project.

#### Using, Reusing, and Conserving Natural Resources

All applicable waste would be diverted from disposal in the landfill when possible.

### 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.

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 B5.1, "Actions to conserve energy or water"

**Justification:** Project activities are consistent with 10 CFR 1021, Appendix B to Subpart D item B5.1 "(a) Actions to conserve energy or water, demonstrate potential energy or water conservation, and promote energy efficiency that would not have the potential to cause significant changes in the indoor or outdoor concentrations of potentially harmful substances. These actions may involve financial and technical assistance to individuals (such as builders, owners, consultants, manufacturers, and designers), organizations (such as utilities), and governments (such as state, local, and tribal). Covered actions include, but are not limited to, weatherization (such as insulation and replacing windows and doors); programmed lowering of thermostat settings; placement of timers on hot water heaters;

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

installation or replacement of energy efficient lighting, low-flow plumbing fixtures (such as faucets, toilets, and showerheads), heating, ventilation, and air conditioning systems, and appliances; installation of drip-irrigation systems; improvements in generator efficiency and appliance efficiency ratings; efficiency improvements for vehicles and transportation (such as fleet changeout); power storage (such as flywheels and batteries, generally less than 10 megawatt equivalent); transportation management systems (such as traffic signal control systems, car navigation, speed cameras, and automatic plate number recognition); development of energy-efficient manufacturing, industrial, or building practices; and small-scale energy efficiency and conservation research and development and small-scale pilot projects. Covered actions include building renovations or new structures, provided that they occur in a previously disturbed or developed area. Covered actions could involve commercial, residential, agricultural, academic, institutional, or industrial sectors. Covered actions do not include rulemakings, standard-settings, or proposed DOE legislation, except for those actions listed in B5.1(b) of this appendix.

(b) Covered actions include rulemakings that establish energy conservation standards for consumer products and industrial equipment, provided that the actions would not: (1) Have the potential to cause a significant change in manufacturing infrastructure (such as construction of new manufacturing plants with considerable associated ground disturbance); (2) involve significant unresolved conflicts concerning alternative uses of available resources (such as rare or limited raw materials); (3) have the potential to result in a significant increase in the disposal of materials posing significant risks to human health and the environment (such as RCRA hazardous wastes); or (4) have the potential to cause a significant increase in energy consumption in a state or region."

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: 5/16/2016