

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

SECTION A. Project Title: Energy Innovation Laboratory (EIL) Laboratory B209 Fume Hoods Installation

SECTION B. Project Description and Purpose:

The proposed action would install and test two chemical fume hoods in the Energy Innovation Laboratory (EIL), building Idaho Falls (IF)-688, in laboratory B209 to support research and development (R&D) activities that utilize aqueous separations. Air emissions from on-going R&D activities are expected to remain within the limits established in Air Permitting Applicability Determination (APAD) Idaho National Laboratory (INL)-13-007.

The project would include the following actions:

1. Demolish two 6-ft and two 4-ft work tables and remove attached electrical connections
2. Demolish approximately 100-ft of 8-in., 12-in., and 14-in. exhaust overhead duct and remove exhaust control valve to the main exhaust system
3. Install two fume hoods
4. Install 1/2-in. copper compressed air, argon gas, and vacuum lines (approximately 100-ft of piping and valves) from overhead utility lines to new hoods
5. Install approximately 25-ft of 16-in. diameter exhaust duct with manual dampers and automatic control dampers from each hood to the nearby exhaust air duct
6. Install gas bottle storage and racks on the south end of each hood
7. Install 120 VAC power to each hood
8. Install fume hood flow controls
9. Modify lab ventilation controls to accommodate the two hoods.

Estimated cost of work is \$59K.

Work is expected to take place between June and August 2016.

SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions

Project activities have the potential to generate small amounts of fugitive dust and emissions from welding and other construction activities.

Air emissions from operations are expected to remain within the limits established in APAD INL-13-007.

Generating and Managing Waste

Industrial waste (non-hazardous, non-radioactive) and construction debris would be generated by the project.

Releasing Contaminants

Although not expected, small spills (e.g., paint) may occur. Releases would be cleaned up, and notifications to the Facility Manager, Spill Notification Team, and Environmental Support would be made.

Using, Reusing, and Conserving Natural Resources

Efforts to reuse, recycle, and divert waste from the landfill (e.g., recycle scrap metal) would be made to the extent practical.

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, CX B2.3 "Personnel safety and health equipment"

Justification: Activities are consistent with 10 CFR 1021, Appendix B, CX B2.3, "Installation of, or improvements to, equipment for personnel safety and health (including, but not limited to, eye washes, safety showers, radiation monitoring devices, fumehoods, and associated collection and exhaust systems), provided that the covered actions would not have the potential to cause a significant increase in emissions."

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: 6/16/2016