

DOE-ID NEPA CX DETERMINATION

Idaho National Laboratory

SECTION A. Project Title: Install Face Velocity Monitors on ATR Fume Hoods

SECTION B. Project Description and Purpose:

The proposed action will install face velocity monitors on fume hoods within the Advanced Test Reactor (ATR; building TRA-670) to verify compliance with National Fire Protection Association (NFPA) 45 and Idaho National Laboratory (INL) laboratory wide procedures. The monitors consist of two main components, a flow detection probe mounted in the fume hood air exhaust and a 24V sensor module to convert the probe input to a local display and provide alarms. A 24V power supply will be added to a 120V circuit on each hood to provide 24VAC power to the sensor module and touch screen display. One monitor and power supply will be installed in each of the following fume hoods:

- 670-HOOD-593, the east hood in the front Chem Lab, Rm 103
- 670-HOOD-594, the west hood in the front Chem Lab, Rm 103
- 670-HOOD-595, Process Chem lab Hood, Rm 124
- 670-HOOD-601, ATRC Chem Lab Hood, Rm 131

Project Start Date: April 2017

Project End Date: May 2017

Estimated Cost: Approximately \$15,000.00

SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions

While the face velocity monitors monitor air, the proposed action would not involve air emissions.

Disturbing Cultural or Biological Resources

ATR (TRA-670) 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 proposed action as described is exempt and may proceed as described without further cultural resource review. The described project activities fall under exemptions 2 (routine maintenance activities) and 6 (safety systems) listed in Table 2 (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 51).

Generating and Managing Waste

Project activities may generate a variety of typical maintenance wastes such as boxes, wood, wiring, paper, insulation, and some metals.

Releasing Contaminants

There is the potential to release small amounts of contaminants to the environment during maintenance activities.

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.

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: National Environmental Policy Act (NEPA) Implementing Procedures, Final Rule, 10 CFR 1021, Appendix B to Subpart D, Categorical Exclusion B2.3 "Personnel safety and health equipment."

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Justification: : The proposed activities are consistent with 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 Jason Sturm, DOE-ID NEPA Compliance Officer on: 2/14/2017