

DOE-ID NEPA CX DETERMINATION

Idaho National Laboratory

SECTION A. Project Title: MFC-752 Casting Laboratory Glovebox Deactivation & Decommissioning (D&D)

SECTION B. Project Description and Purpose:

The Casting Laboratory Glovebox located in MFC-752 is obsolete and no longer meets INL mission needs. Therefore, this glovebox will be removed to reduce the environmental and radiological liability and risk(s) associated with having an unused glovebox in the facility. At this time, there is no equipment replacing the glovebox, and there are no future plans for space. The work will be performed by a subcontractor at the ARL. The glovebox is currently in a negative atmosphere. The glovebox will be removed from the negative atmosphere once the interior of the glovebox is sprayed with a solution to isolate the contamination. There is a possibility that TRU waste will be generated due to the material and processes that were housed in the glovebox. The facility will manage all waste through existing procedures and work with WGS in dispositioning the waste. The following engineering inputs are associated with this project:

1. Make any final glovebox and associated equipment isolation of systems that remained active, following initial isolation, as safety/contamination control measures.
2. Remove glovebox, support stands, and all isolated support equipment.
3. Remove section of abandoned utilities (mechanical, I&C, and electrical) on the glovebox side of air gaps/isolation points
4. Remove remaining raised concrete equipment pads from the floor in B-35 without compromising the safety significant building structure.
 - a. Repair the floor following pad removal to match surrounding floor finish.
5. Repair all remaining unused piping penetration in walls, floor, etc. following D&D of system.
6. Make final isolation of B-35 HEPA bank, plenum, fans, and associated ductwork from active exhaust system.
7. Remove abandoned HEPA Bank, plenum, fans, and associated components.
8. Cut anchors flush with floor and repair any damage to floor walls, ceiling, or other equipment caused by D&D effort.

SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions

NA

Discharging to Surface-, Storm-, or Ground Water

NA

Disturbing Cultural or Biological Resources

Cultural: Pursuant to the 2023 Programmatic Agreement, this federal undertaking is excluded from Section 106 review as the proposed activity has little to no potential to cause effects to historic properties.

Generating and Managing Waste

When waste is generated, how it is disposed can adversely affect the environment. Managing wastes appropriately and responsibly and implementing recycling or reuse practices, where feasible, during project activities can reduce the potential impact on the environment.

Polychlorinated Biphenyl (PCB) waste could be generated when performing maintenance on, replacing, or performing D&D on equipment manufactured before 1982. Such equipment and associated materials include but are not limited to capacitors, lubricants/dielectric fluids, transformers and bushings, light fixtures, electric motors, pumps, voltage regulators, other equipment/components that contain oil, and oil associated with electrical conduit/cable.

Polychlorinated Biphenyl (PCB) waste could be generated when work activities involve structures or buildings built before 1982 (e.g., painted surfaces, caulking, adhesives, rubber gaskets, joint sealer, cable/wire insulation, ventilation duct gaskets or insulation).

Releasing Contaminants

NA

Using, Reusing, and Conserving Natural Resources

NA

Environmental Justice (describe potential impacts):

According to the CEQ Climate and Economic Justice Screening Tool, the INL site as well as the Research and Education Campus in Idaho Falls, ID are in U.S. Census tracts that are identified as disadvantaged communities. Census tracts identified as disadvantaged meet or exceed socioeconomic, environmental, health, or demographic thresholds identified by CEQ. Given that activities analyzed in this document will happen within the boundaries of existing DOE/INL land and/or facilities where there are no permanent residents, any impacts to Environmental Justice in surrounding communities are anticipated to be negligible.

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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:

B1.23 "Demolition and disposal of buildings"

Justification:

B1.23 Demolition and disposal of buildings. Demolition and subsequent disposal of buildings, equipment, and support structures (including, but not limited to, smokestacks and parking lot surfaces), provided that there would be no potential for release of substances at a level, or in a form, that could pose a threat to public health or the environment.

Is the project funded by the American Recovery and Reinvestment Act of 2009 (Recovery Act) Yes No

Approved by Jason L. Anderson, DOE-ID NEPA Compliance Officer on: 11/15/2023