

# DOE-ID NEPA CX DETERMINATION

## Idaho National Laboratory

### SECTION A. Project Title: Materials and Fuels Complex (MFC) Protective Force Security Building

### SECTION B. Project Description and Purpose:

**Background:** Building MFC-714 is the current Materials and Fuels Complex (MFC) security building. It is a temporary modular office acquired in 1992 and generally considered to be in poor condition. A new MFC security building is a required priority to replace the existing building MFC-714 to house necessary female and male security personnel at MFC. The project will and replace the MFC-714 building.

The current security building is a converted temporary office building never intended to house security personnel overnight. It is less than 700 square feet and not suited for the security mission at MFC as operations increase and the test bed continues to grow and mature. This can impact the effectiveness of security personnel at MFC.

**Project Scope:** Per the House of Representatives Appropriations Act, 2020, dated January 2020, a new Protective Force Security Building is being constructed at MFC. The current security building is MFC-714 and is located on the north end of MFC. As a required action of project planning, a siting study performed and concluded the optimal location for the new MFC Protective Force Security Building is in the current location of the MFC-714 trailer. As a result, MFC-714 will be excised in preparation for the construction of the new building and is required to be part of the Total Project Cost (TPC).

This project will construct a building to meet the needs for expanded protective force and security operations at the MFC campus at Idaho National Laboratory (INL). This new building will provide the rooms and facilities required to house and support personnel and equipment for effective Protective Force and Security operations. The building will include showers, locker rooms, storage room, vault, muster/classroom, secure conference room, sleeping quarters, kitchen, weight room, office spaces, and the required building communications, utilities, and facility access.

The new building will include both female and male sleeping quarters, showers, and locker rooms, solving the existing condition wherein facilities of equal quality and access are not available to female Pro Force personnel.

- The new building will provide for full time staff of 140 personnel, with a nominal occupancy of 35, assuming a 90% to 10% male to female ratio.
- The new building will be a 14,000 ft<sup>2</sup> facility calculated from outside wall dimensions.
- The classified conference/storage room to accommodate 120 seated personnel meeting the requirements of an exclusion area, vault type room as defined in DOE Order 473.3A.

The proposed action connects to or constructs the following utility or building systems:

- Fire Alarm System, Emergency Communications, telecommunications, and data systems
- Lightning protection, power system grounding, data, and communication system grounding
- Normal and emergency lighting including lighting controls
- Electrical power distribution equipment including transformers, feeders, panels, and safety switches
- Fire suppression systems and fire water supply
- Potable water service connection
- Sanitary sewer service connection.

Excavation includes removal and disposal of pavement, underground components and utilities, and soil. The activities listed are performed as part of trench excavation for pipelines, structures, and other features:

- Backfill excavation for slabs and sidewalks
- Backfill trenches including pipe bedding
- Install locator ribbon above utilities
- Install tracer wire on plastic (all non-metallic) piping
- Place aggregate material
- Compact backfill and subgrade

- Rough grade and finish grade for surface drainage

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

#### Air Emissions

Construction activities include temporary emissions from heavy equipment and vehicle operations and ground disturbance.

#### Discharging to Surface-, Storm-, or Ground Water

It is anticipated that existing potable water and sewer lines to MFC-714 will be utilized. Modifications to both the existing potable water and sewer lines will be made to supply the new building as needed.

The potable water supply to the new building must have appropriate backflow prevention.

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### Disturbing Cultural or Biological Resources

There are no known cultural resources in the project area. However, if at any time during project implementation cultural resources (i.e., bones, flakes of obsidian, "arrowheads" or other stone tools, bottles, tin cans, etc.) are discovered, all work in the area must cease until a Cultural Resource Management Office (CRMO) Archaeologist evaluates the resources. A full viewshed analysis for effects to historic properties is required (see hold point).

### Generating and Managing Waste

Industrial waste such as concrete, asphalt, scrap wood, scrap metal, packaging material, rags, insulation, wire, pipe scrap, etc., will be generated during the project.

Asbestos and/or PCB waste may be generated during the removal of MFC-714. Contact WGS for proper dispositioning and labeling of asbestos or PCB waste.

Hazardous waste generation is not anticipated, although paint waste, adhesive waste, and spill material have the potential for being hazardous.

### Releasing Contaminants

Vehicles and heavy equipment could release hazardous substances (primarily petroleum-based products) to the ground. Typical construction chemicals such as fuels, lubricants, adhesives, paints, concrete, concrete cure, asphalt, refrigerants, etc., will be used on the project. Although not anticipated, there is a potential for spills when using chemicals or fueling equipment. In the event of a spill, notify facility PEL. If the PEL cannot be contacted, report the release to the Spill Notification Team (208-241-6400). Clean up the spill and turn over spill cleanup materials to WGS.

### Using, Reusing, and Conserving Natural Resources

Recycled materials will be used to the greatest extent practicable in the selection of building materials. The new security building will be constructed to comply with the 2016 Guiding Principles for Sustainable Federal Buildings (Guiding Principles).

**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:** The scope of this project is consistent with 10 CFR 1021, Appendix B to Subpart D, Item CX B1.15, "Support Buildings".

**Justification:** B1.15 Support buildings. Siting, construction or modification, and operation of support buildings and support structures (including, but not limited to, trailers and prefabricated and modular buildings) within or contiguous to an already developed area (where active utilities and currently used roads are readily accessible). Covered support buildings and structures include, but are not limited to, those for office purposes; parking; cafeteria services; education and training; visitor reception; computer and data processing services; health services or recreation activities; routine maintenance activities; storage of supplies and equipment for administrative services and routine maintenance activities; security (such as security posts); fire protection; small-scale fabrication (such as machine shop activities), assembly, and testing of non-nuclear equipment or components; and similar support purposes, but exclude facilities for nuclear weapons activities and waste storage activities, such as activities covered in B1.10, B1.29, B1.35, B2.6, B6.2, B6.4, B6.5, B6.6, and B6.10 of this appendix.

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: 09/29/2021