

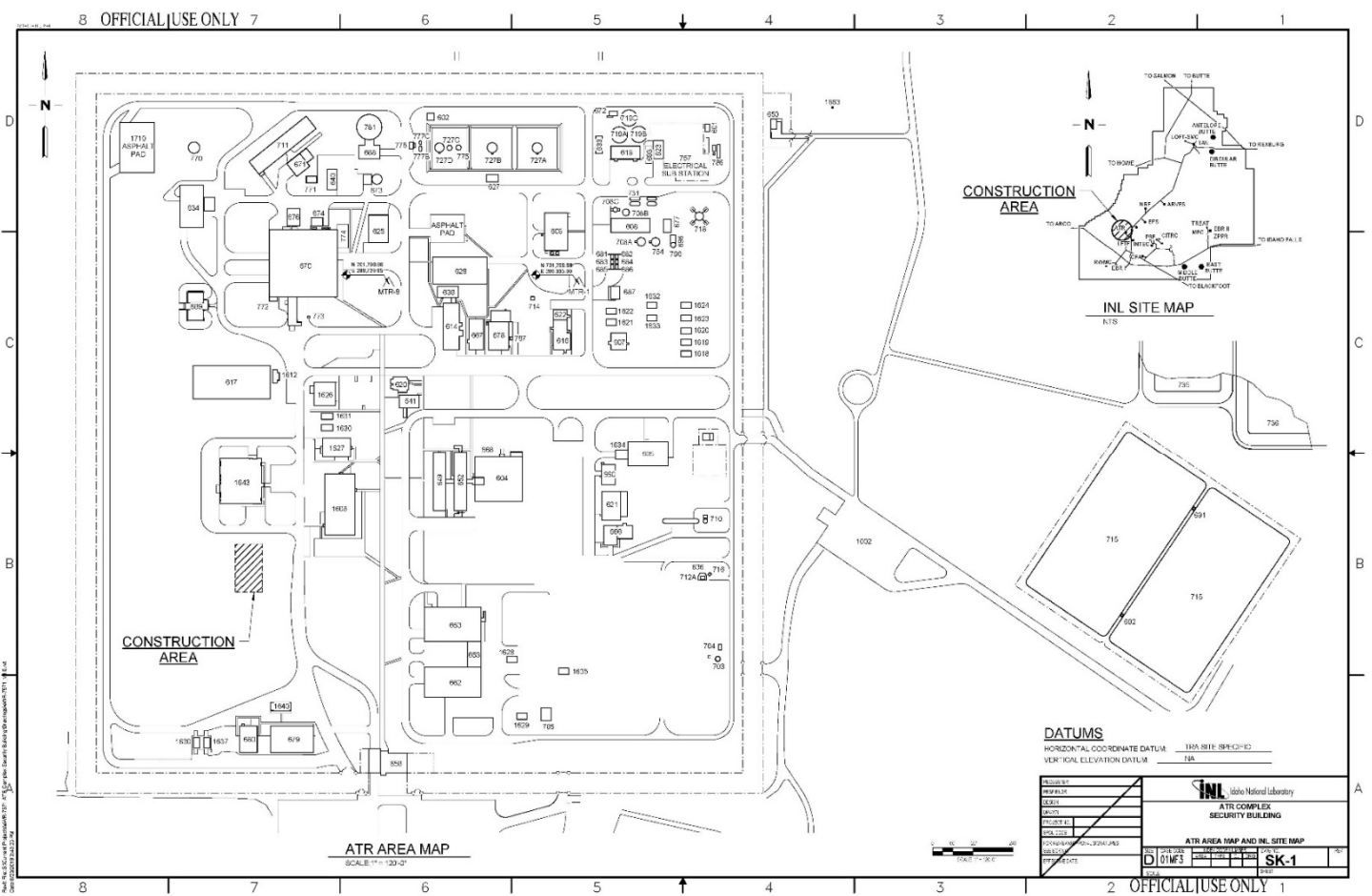
DOE-ID NEPA CX DETERMINATION Idaho National Laboratory

SECTION A. Project Title: Advanced Test Reactor Complex Security Building

SECTION B. Project Description and Purpose:

The purpose of the proposed action is to construct and operate a new 11,360 ft², single-story Security Support Building at the Advanced Test Reactor (ATR) Complex southwest of the TRA-1608 office building. The new Security Support Building will include a weight room, sleeping quarters, men's and women's locker rooms, office spaces, a kitchen area, classroom and meeting areas, storage rooms and utility rooms. Utilities will include a potable water line, fire water line, a sewage line and power and communication lines and will connect to the new ATR utility corridor. Sanitary sewer connects to the existing system. Figure 1 depicts the proposed location.

Figure 1. Proposed location for new ATR security building.



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

- A. Fire Alarm System, Emergency Communications, telecommunications, and data systems
- B. Lightning protection, power system grounding, data, and communication system grounding
- C. Normal and emergency lighting including lighting controls
- D. Electrical power distribution equipment including transformers, feeders, panels, and safety switches
- E. Fire suppression systems and fire water supply
- F. Potable water service connection
- G. 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:

- A. Backfill excavation for slabs and sidewalks
- B. Backfill trenches including pipe bedding
- C. Install locator ribbon above utilities

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- D. Install tracer wire on plastic (all non-metallic) piping
- E. Place aggregate material
- F. Compact backfill and subgrade
- G. Rough grade and finish grade for surface drainage
- H. Test compaction.

Asphalt and concrete repairs are required where excavation disturbs these surfaces. For repair, base material is removed and replaced, then compacted, and the concrete or asphalt is then replaced. Paving and concrete are seal coated as required. Parking areas will be restriped to match preconstruction conditions.

SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions

Construction activities include temporary emissions from backhoes, bulldozers, other heavy equipment, and vehicle operations and ground disturbance.

Temporary emissions include reactive organic gases, nitrogen oxides, and respirable particulate matter with an aerodynamic diameter of 10 micrometers or less (referred to as PM10) from construction equipment, construction employee commute trips, material transport (especially on unpaved surfaces), and other construction activities.

Discharging to Surface-, Storm-, or Ground Water

It is estimated that a 3-in. potable water branch line will be run from the nearest underground main located approximately 350 feet west of the building and come up into the facility to feed all plumbing demands. Below ground piping will be HDPE while the aboveground piping will be insulated, type L copper pipe. An estimated 400 linear feet of this piping will be needed from the connection point west of the building to the restroom/shower facilities. The connection method for the copper pipe will be a compression fitting.

Based on estimated drain fixture units, a 6-in ABS sewer line will be utilized. An estimated 125 linear feet of this piping will be needed from the connection point north of the building to the plumbing system within the facility. The connection method for the ABS piping will be glued fittings.

Where the potable water supply comes into the building, appropriate backflow prevention, water regulator, and a digitally automated water meter will be installed.

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.

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.

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).

The proposed action uses fossil fuels, metals, and other resources. Project personnel will use every opportunity to recycle, reuse, and recover materials and divert waste from the landfill when possible.

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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: 10 CFR 1021, Appendix B to Subpart D, items B1.15 "Support buildings"

Justification: Project activities described in this Environmental Checklist (EC) are consistent with 10 CFR 1021, Appendix B to Subpart D, items B1.15 "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 covered in B1.10, B1.29, B1.35, B2.6, B6.2, 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 Sturm, DOE-ID NEPA Compliance Officer on: June 18, 2019