

DOE-ID NEPA CX DETERMINATION Idaho National Laboratory

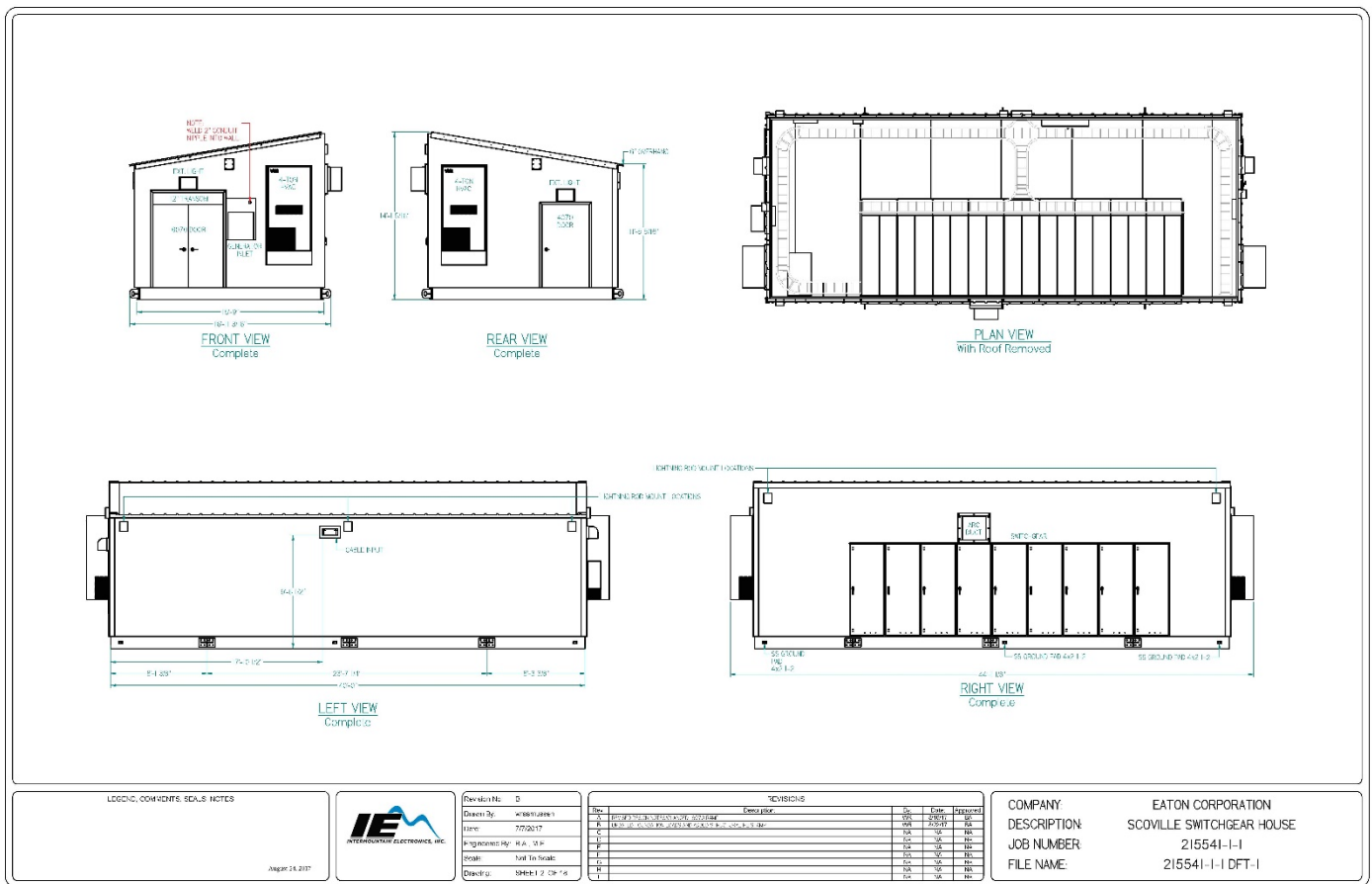
SECTION A. Project Title: New ATR Facility Outdoor Transformer Yard Switchgear Building

SECTION B. Project Description and Purpose:

To safely maintain the new outdoor transformer yard switchgear at the Advanced Test Reactor (ATR) Complex during inclement weather, the proposed action constructs a new facility to house the switchgear. The environmental impacts from constructing the new substation and yard were evaluated in environmental checklist (EC) INL-18-108. The proposed action requires a subsurface investigation prior to locating the building. The proposed Pre-Engineered Electrical Building (PEEB) will be than 640 ft² and house the 4.16kV switchgear, protective relays, Process Distributed Control System (PDCS) interface devices, and life safety systems for the ATR transformer yard. The switchgear vendor will engineer and design the building. Preliminary design includes a grounding study.

Figure 1 shows preliminary building dimensions.

Figure 1. Preliminary dimensions for proposed switchgear building at ATR Complex.



Approximate dimensions are listed below:
 Width: 16 feet
 Length: 40 feet
 Height: 14 feet.

Figure 2 depicts the location of the proposed switchgear building in the vicinity of building Test Reactor Area (TRA) 673, which was recently demolished. The top of Figure 2 is north.

Figure 2. Location of the proposed switchgear building at ATR Complex



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

The proposed facility will not be connected to utilities. Minimal amounts of stormwater may discharge to the ground from a run gutter.

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.

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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 and will be submitted to chemical inventory lists with associated Safety Data Sheets (SDSs) for approval in the vendor data system prior to use. The Facility Chemical Coordinator will enter these chemicals into the INL Chemical Management Database. All chemicals will be managed in accordance with laboratory procedures. When dispositioning surplus chemicals, project personnel must contact the facility Chemical Coordinator for disposition instructions.

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 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.

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: 11/05/2019