

DOE-ID NEPA CX DETERMINATION IDAHO NATIONAL LABORATORY

SECTION A. Project Title: ATR Complex Dial Room.

SECTION B. Project Description:

The proposed project is to construct and operate a new dial room at the Advanced Test Reactor Complex (ATR Complex) (formerly known as the Test Reactor Area [TRA]) in order to meet the U.S. Department of Energy Office of Nuclear Energy programmatic needs and to provide ongoing critical support at the Idaho National Laboratory (INL). The existing telecommunication and data systems located at the ATR Complex need to be updated to ensure the protection and continuity of telecommunications hardware and software property and provide reliability of communications and data connectivity.

The new modular dial room facility will replace existing telecommunications systems equipment (telephony, optical transport, and data network infrastructure equipment) that is located in TRA-614, with new telecommunications Private Branch Exchange (PBX), data network switches, and associated hardware and software. The existing dial room cable vault will be utilized for the necessary cabling splices and cabling conduit routing between the old and new dial rooms. The new dial room facility will provide for the long term viability of the telecommunications system at ATR Complex over the next 30 years. The facility will provide for all existing demands on the current systems and allow for all anticipated growth without requiring additional building footprint expansion.

The proposed site location is between buildings TRA-620 and TRA-1626. This area was previously occupied by building TRA-1613 and will require clearing the existing site, rerouting the existing utility lines, and the installation of new duct banks for communications and power. The facility will not have any potable water, fire water, or waste water demands. Existing service lines (potable and sewer) may need to be relocated outside the facility footprint. The new duct banks and manholes will be routed from the existing dial room vault under TRA-614 to the new dial room facility. All telecommunications services in TRA-614 will be replicated in the new dial room.

The building will be a commercially available concrete building that is pre-cast off-site into individual modules and assembled on-site. An emergency diesel generator will be required so that power is supplied to the telecommunications, data, and HVAC systems during loss of off-site power. The generator will draw fuel from a new above ground storage tank (AST) located at the site.

Estimated Start Date: 5/13/2013
Estimated Completion Date: 6/15/2014
Approximate Cost: \$10,000,000

SECTION C. Environmental Aspects / Potential Sources of Impact:

Air Emissions - Fugitive dust may be generated during excavation activities. All reasonable precautions (water, etc.) will be taken to control fugitive dust. If dust control methods are required, the subcontractor will record the type of method and frequency of application in their daily logbook. This logbook will be used to show compliance to section 2.2 of the INL Tier I Operating Permit. Non-road equipment such as welders, compressors, and generators will be used during the project. Various subcontractors will bring on these types of equipment for a duration of less than a year as is required by the Subcontractor Requirements Manual (SRM). This equipment will have to meet visible emissions requirements identified in the INL Tier I Operating Permit and IDAPA 58.01.01.625. Refrigerant will be used in the HVAC system. Certified Refrigeration Technicians will be used on the project when dealing with refrigerants. Class I Ozone Depleting Substances will not be used. The fire suppression system will be a gaseous clean agent system and will use NOVEC 1230, a non-ozone depleting substance halon replacement.

An emergency diesel generator will be required for backup power of the telecommunications, data, and HVAC systems. An Air Permitting Applicability Determination (APAD) will be prepared and approved prior to purchase, installation, and operation of the diesel engine. Contact Brad Griffith (533-4530) for assistance.

Generating and Managing Waste - Industrial waste will be generated in the form of typical construction debris such as concrete, scrap wire, non-RCRA scrap metal, packaging material, RCRA empty chemical containers, and office like waste. Hazardous waste is not anticipated but could potentially be generated from chemicals such as adhesives and paints. All waste will be characterized, stored, and disposed at the direction of Waste Generator Services. The facility will have a battery room with lead acid batteries. WGS will be contacted for disposal requirements associated with these batteries.

Releasing Contaminants - Typical construction chemicals such as adhesives, paints, fuels, lubricants, cleaners, weld rod, etc. will be used on the project. The subcontractor will be required to submit initial, quarterly, and final chemical inventory lists with associated MSDS's. The Construction Chemical Coordinator will track these chemicals in the INL Comply Plus Chemical Management System. The subcontractor will be required to have appropriate spill control equipment on site in case of a spill. Spills will be reported to the Spill Notification Team when required.

The emergency diesel generator will have air emissions when operating. Facility personnel must follow the requirements established in the APAD. This may include limits on hours of operation, fuel sulfur content requirements, recordkeeping requirements, visible emission requirements, etc. The generator will draw fuel from an above ground storage tank (AST). This tank must be entered into the INL Tank Database prior to use. The facility will also have a battery room that uses lead acid batteries.

Using, Reusing, and Conserving Natural Resources - The dial room facility will be a normally unoccupied facility and as such is not subject to the LEED requirements. However, sustainable building considerations per DOE G 413.3-6 and INL/EXT-05-00331 Rev 1 *INL Green Building Strategy* will be used to the extent practical.

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SECTION D. Determine the Level of Environmental Review (or Documentation) and Reference(s): Identify the applicable categorical exclusion from 10 CFR 1021, Appendix B, give the appropriate justification, and the approval date.

Note: 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, including requirements of DOE orders; 2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities; 3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that pre-exist in the environment such that there would be uncontrolled or unpermitted releases; 4) adversely affect environmentally sensitive resources. In addition, no extraordinary circumstances related to the proposal exist which would affect the significance of the action, and the action is not "connected" nor "related" (40 CFR 1508.25(a)(1) and (2), respectively) to other actions with potentially or cumulatively significant impacts.

References: 10 CFR 1021, Appendix B to Subpart D, B1.15

Justification: This new dial room facility is needed to ensure the protection and continuity of the ATR-Complex telecommunication and data systems over the next 30 years of operation. This project is appropriately covered under CX category B1.15 "Siting, construction (or modification) of support buildings..., including those for computer and data processing, administrative services, security; and similar support purposes..."

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

Approved by Jack Depperschmidt, DOE-I DNEPA Compliance Officer on 7/13/2010