

# DOE-ID NEPA CX DETERMINATION

## Idaho National Laboratory

### SECTION A. Project Title: TRA-679 Data Center A/C Replacement

### SECTION B. Project Description and Purpose:

Cooling equipment in building Test Reactor Area (TRA)-679, the Advanced Test Reactor (ATR) Complex Data Center needs replaced. The proposed action replaces 679-HVA-76 and 679-HVA-77. Parts to be replaced include the air handling units, evaporator coils, condensing coils, compressors, cooling fans, pumps, circuits, and humidifier. The 679-HVA-76 replacement uses R-407C refrigerant and glycol coolant. The 679-HVA-77 replacement is a standard dry cooler.

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

#### Air Emissions

Emissions typical of cutting / grinding / welding are expected. The emissions from this activity are not considered construction of a new stationary emission source.

Adhere to all best practices described in 40 Code of Federal Regulations (CFR) 82, summarized in LRD-8000 3.92 and LWP-8000 4.45, to prevent the release of ozone depleting substances or any other refrigerants to the atmosphere while servicing systems containing refrigerants

The project plans to do light prep work of the ground for a pre-poured concrete slab, but no air emissions are expected.

#### Generating and Managing Waste

All waste generated from this activity will be managed in accordance with laboratory procedures. Contact Waste Generator Services (WGS) prior to start of activity to begin waste identification, classification, and characterization. All wastes generated will be transferred to WGS for appropriate disposition.

#### Releasing Contaminants

Although unexpected, spills could occur during the use of chemicals typically used in construction. Chemicals such as fuels, lubricants, adhesives, paints, concrete, concrete cure, asphalt, refrigerants, etc., must 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 enters 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

All materials would be reused and / or recycled where economically practicable. All applicable waste would be diverted from disposal in the landfill where conditions allow. The project would practice sustainable acquisition. New equipment would meet either the Energy Star or Significant New Alternatives Policy (SNAP) requirements as appropriate. The project will procure construction materials and equipment that are energy efficient, water efficient, bio-based in content, environmentally preferable, non-ozone depleting, have recycled content, or are nontoxic / less-toxic.

### 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, item B1.4 "Air conditioning systems for existing equipment."

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**Justification:** Activities are consistent with 10 CFR 1021, Appendix B to Subpart D, item B1.4 "Installation or modification of air conditioning systems required for temperature control for operation of existing equipment."

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: 4/24/2019