

DOE-ID NEPA CX DETERMINATION

Idaho National Laboratory

SECTION A. Project Title: Replacement of HVAC System in TRA-628

SECTION B. Project Description and Purpose:

The HVAC system in TRA 628 has exceeded design life and experiences routine operational failures. The pumps use around 25 million gallons of water per year and are difficult to service due to location. The system needs to be replaced.

The proposed work action removes six units and associated electrical components and conduit from the ceiling of TRA-628. The project installs five replacements on new concrete pads outside TRA-628. The five outdoor replacements tie into ducting already routed inside the facility. The project locates a sixth unit inside that is ducted and set up for the server room.

SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions

Project activities have the potential to contribute to air emissions through the following:

- Distributing, excessing or disposing of appliances containing refrigerants
- Maintaining, servicing or repairing stationary heating, ventilation, air conditioning and refrigeration equipment
- Acquiring and dispositioning chemicals.

Generating and Managing Waste

Project activities have the potential to generate waste from the following activities:

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- PCB waste could be generated when modifying buildings or structures built before 1982 or working with pre-1982 equipment/materials (e.g., capacitors, motors, other electrical equipment/components, lubricants, painted surfaces, light fixtures, caulking, joint sealer, and ventilation duct gaskets or insulation)
- Disposing asbestos-containing material
- Disturbing asbestos or removing asbestos-containing material
- Other construction activities that generate waste.

Releasing Contaminants

Activities addressed by this EC have the potential to release contaminants through the following:

- Acquiring, using, storing and dispositioning chemicals
- Managing and dispositioning excess property and materials.

Using, Reusing, and Conserving Natural Resources

Activities addressed by this EC have the potential for use, reuse and conservation of natural resources related to the following:

- Building energy use
- Generating landfill waste or construction and demolition wastes
- Generating recyclable materials
- Engaging in sustainable acquisition practices.

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, B1.4 "Air conditioning systems for existing equipment" and B2.1 "Workplace enhancements"

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Justification: Project activities are consistent with 10 CFR 1021, Appendix B, B1.4 "Installation or modification of air conditioning systems required for temperature control for operation of existing equipment;" and

B2.1 "Modifications within or contiguous to an existing structure, in a previously disturbed or developed area, to enhance workplace habitability (including, but not limited to, installation or improvements to lighting, radiation shielding, or heating/ventilating/air conditioning and its instrumentation, and noise reduction."

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: 7/12/2018