



Office of Environmental Management

U.S. Department of Energy

Categorical Exclusion Determination Form

Proposed Action Title: Building 234-H Room 26 HVAC System Replacement

Program or Field Office: Savannah River Site

Location(s) (City/County/State): Aiken/Aiken County/South Carolina

Proposed Action Description:

This project is being funded by Lawrence Livermore National Security as part of the NNSA Cooling and Heating Asset Management Program (CHAMP) for Building 234-H Room 26.

Room 26 is primarily office space. The existing air handling unit (AHU) serving Room 26, HQ-234000-HVAC-AHU-53.008, has reached the end of its useful life. In addition, it operates using R-22 refrigerant. SRNS is in the process of replacing all of the air conditioning and refrigeration equipment containing R-22.

The AHU provides environmental cooling to Room 26. The unit does not provide heating. This air handling unit is a split configuration. The 5 ton Lennox Model No. CBS18-65-3P is located inside Room 26 suspended above the office spaces. The condenser, HQ-234000-HVAC-CDU-53.008, is located outside the building on the east side. It is a Trane Model No. TTB060. Both units were installed in about 1988.

The two steam space heaters that serve the room have been mechanically disconnected from the steam system for many years but are still electrically connected. They were valved out and turned off.

The entire HVAC system and its controls are being demolished and removed. The replacement system is a different configuration. It is a variable refrigerant flow (VRF) design. The VRF heat pump located outside will provide heating and cooling by connection via refrigerant piping to the fan coil units (FCUs) suspended above the office spaces. A direct outside air system (DOAS) located outside will provide fresh air makeup to the room via short runs of supply and return ductwork (Reference B655777-000027). The new refrigerant for this system will be R-410A (Reference B655777-000011).

The existing air handling unit and condenser that will be demolished and removed will be excessed and sent to the Recycle / Reuse Program Department by SRNS. The R-22 refrigerant will be recovered by SRNS prior to disposal of the equipment. The R-22 will be recovered and recycled for use in other equipment. None of the components and structures being removed are contaminated.

Categorical Exclusion(s) Applied:

B2.1 WORKPLACE ENHANCEMENTS

For the complete DOE National Environmental Policy Act regulations regarding categorical exclusions, including the full text of each categorical exclusion, see Subpart D of [10 CFR Part 1021](#).

Regulatory Requirements in 10 CFR 1021.410(b): (See full text in regulation)

☒ The proposal fits within a class of actions that is listed in Appendix A or B to 10 CFR Part 1021, Subpart D. To fit within the classes of actions listed in 10 CFR Part 1021, Subpart D, Appendix B, a proposal must be one that would not: (1) threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, or similar requirements of DOE or Executive Orders; (2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities (including incinerators), but the proposal may include categorically excluded waste storage, disposal, recovery, or treatment actions or facilities; (3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that preexist in the environment such that there would be uncontrolled or unpermitted releases; (4) have the potential to cause significant impacts on environmentally sensitive resources, including, but not limited to, those listed in paragraph B(4) of 10 CFR Part 1021, Subpart D, Appendix B; (5) involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species, unless the proposed activity would be contained or confined in a manner designed and operated to prevent unauthorized release into the environment and conducted in accordance with applicable requirements, such as those listed in paragraph B(5) of 10 CFR Part 1021, Subpart D, Appendix B.

☒ There are no extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal.

☒ The proposal has not been segmented to meet the definition of a categorical exclusion. This proposal is not connected to other actions with potentially significant impacts (40 CFR 1508.25(a)(1)), is not related to other actions with individually insignificant but cumulatively significant impacts (40 CFR 1508.27(b)(7)), and is not precluded by 40 CFR 1506.1 or 10 CFR 1021.211 concerning limitations on actions during preparation of an environmental impact statement.

Based on my review of the proposed action, I have determined that the proposed action fits within the specified class(es) of action, the other regulatory requirements set forth above are met, and the proposed action is hereby categorically excluded from further NEPA review.

NEPA Compliance Officer:

Date Determined: 06/05/2023

Comments: EEC No: NNSA-H-2023-00011 Rev No: 0