



Office of Environmental Management  
U.S. Department of Energy  
Categorical Exclusion Determination Form

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Proposed Action Title: Materials Test Facility (MTF) 234-7H Exhaust Ventilation System

Program or Field Office: Savannah River Site

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

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Proposed Action Description:

Confinement ventilation in the Materials Test Facility (MTF) building 234-7H is maintained by the existing H-Area Old Manufacturing (HAOM) building 234-H exhaust ventilation system and a supply air system that operates in conjunction with the exhaust system to control building differential pressures. The exhaust system is a once through system. This project will provide a new exhaust system (2 Fans), a small electrical building, a stack, and a new diesel generator for 234-7H and will blank off the existing ductwork connection to the 234-H exhaust system. This modification also requires site preparation for modifying the access road behind 249-H, and for the installation of concrete pads for the new systems as well as supports for the ductwork.

Rev.4 of this EEC takes into account design resulting from MT-TRI-2021-00033, Design Input for Electrical Distribution Changes for New 234-7H Exhaust Ventilation System Building 253-7H, Electrical Equipment Building. This MT provides design input for the design changes to the electrical distribution system installed under Project Y788. Currently, the electrical distribution system for the new 234-7H exhaust ventilation system does not incorporate a second substation feed, and electrical building HVAC loads are included on a distribution panel with exhaust ventilation system process instrumentation and equipment. Changes to the electrical distribution system are needed to improve the new 234-7H exhaust ventilation system availability and reliability.

Rev 7: M-DCF-H-14087 is a change to M-DCP-H-19023 materials list to account for the addition of a new safety shower and a change to M-M6-H-10283 to show the new domestic water line (DW-L-002), isolation valve (DW-V-002), and safety shower (DW-SHR-002). The new safety shower is for the battery rack on the north side of the diesel generator pad.

Rev. 9 extends the activity end date and provides the necessary information required with the new database.

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Categorical Exclusion(s) Applied:

B1.31 INSTALLATION OR RELOCATION OF MACHINERY AND EQUIPMENT

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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: 09/11/2023

Comments: EEC No: OBU-H-2019-0194 Rev No: 9