



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

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Proposed Action Title: Design and Procurement of Building 233-H TCAP Product Bed C Replacement

Program or Field Office: Savannah River Site

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

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Proposed Action Description:

Thermal Cycle Absorption Process (TCAP) Product Storage Bed C is to be replaced by new components in-kind and add TCAP Product Storage Bed C relief line to DI relief header. The new components will conform to the new design pressures and functional classification. In addition to these major components, the Hot and Cold Nitrogen (HCN) system serving TCAP Product Bed C will be updated. All components, including penetrations, of the HCN system within and outside the Diffuser (DI) Glovebox (GB, T105-301-1) serving these components will be replaced as part of this modification.

Revision 1: remove regenerable bed with heater scope and add TCAP Product Storage Bed C relief line to DI relief header.

Revision 1 of OBU-H-2022-0079 is for the design and procurement portions of this modification, this EEC will need to be revised to include the facility modification portion prior to construction and installation. It is the responsibility of the Project Contact to track and revise this EEC prior to implementation of the design into the actual process.

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Categorical Exclusion(s) Applied:

B1.3 ROUTINE MAINTENANCE

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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: 01/03/2023

Comments: EEC No: OBU-H-2022-0079 Rev No: 1