



Office of Environmental Management

U.S. Department of Energy

Categorical Exclusion Determination Form

Proposed Action Title: GB-500 Open Glovebox Maintenance

Program or Field Office: Savannah River Site

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

Proposed Action Description:

From the previous EEC: OBU-H-2022-0197

Open Glovebox Maintenance (OGM) to replace multiple valves in GB-500

Rev. 1 created to extend activity end date, updated EEC to new version of EEC database and add one additional valve. This Revision was also created to include the installation of spool pieces with Ultra High Purity Particulate Filters as shown on P-PI-H-7935 in GB-500. (See M-DCF-H-14254) This installation is planned to be completed during the OGM but may be worked independently if facility needs arise.

Rev. 2 (4/1/2024 - 4/1/2026) was created to include the any additional valves added due to the high failure rate in the glovebox.

New EEC: SRTE-H-2024-0004

New EEC was created due to site guidance. Starting October 1, 2024, revisions to EECs with deactivated prefixes (e.g., AM&DO, NNSA, OBU, and PBU) will require the EEC originator to create a new EEC using the correct prefix. This Revision was created to extend the time period required for the open glovebox maintenance and include additional information on the expected releases from post maintenance testing of the valves. The current plan is to send the gas from the PMT to the stack in a controlled manner. If for some reason that option is not feasible, the gas will be routed into GB-1 and then through the process. Additionally, a process line will need to be repaired which will create the need for tig welding in the box.

Categorical Exclusion(s) Applied:

B1.3 ROUTINE MAINTENANCE

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: 11/25/2024

Comments: EEC No: SRTE-H-2024-00004 Rev No: 0