



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

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Proposed Action Title: Replace Glovebox Panametrics or Delta F O2 Analyzers with Rosemount O2 Analyzers

Program or Field Office: Savannah River Site

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

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Proposed Action Description:

Rev 0 covered the upgrade of glovebox oxygen monitoring system with a Delta F analyzer and a Delta F oxygen sensor.

Rev. 1 expands the cope to include gloveboxes with a Panametrics analyzer and a Delta F oxygen sensor. The environment impact is very similar to upgrade of the Delta F analyzer and sensor system to a Rosemount system.

Rev. 2 extends the Activity End date to 3/31/2025. The proposed activity is schedule to complete in 2025 with all gloveboxes converted to new oxygen monitoring system. Each glovebox modification will be covered by a modification traveler. The facility has two types of existing glovebox oxygen monitors: Delta F O2 cell with a Delta F analyzer and a Delta F o2 cell with a Panametrics analyzer. Summary: This EEC covers several projects with the scope to upgrade existing glovebox oxygen monitoring systems to Rosemount analyzers. Most gloveboxes have a Delta F analyzer with a Delta F oxygen sensor. The remaining gloveboxes have a Panametrics analyzer with a Delta F oxygen sensor. In each case, the upgrade eliminates the Delta F oxygen sensor. The global scope is defined in J-TC-H-00031. A specific modification traveler (MT-TRI-2014-00011 - Replace Gas Blend Delta F glovebox oxygen monitor with a Rosemount oxygen analyzer) is an example of upgrading a Delta F analyzer & Delta F O2 sensor system to a Rosemount system, and it is included for reference purposes. MT-TRI-2015-00027 (Install Replacement Glovebox Oxygen Monitor for HANM Load Line 6 Glovebox) is an example of upgrading a Panametrics analyzer & Delta F oxygen sensor system to a Rosemount system. There will be multiple projects and modification travelers, but each will meet the scope defined in J-TC-H-00031.

Rev. 3 extends the Activity End date to 12/31/2025.

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Categorical Exclusion(s) Applied:

B2.2 BUILDING AND EQUIPMENT INSTRUMENTATION

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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: 08/20/2024

Comments: EEC No: OBU-H-2015-0052 Rev No: 3