



Office of Environmental Management

U.S. Department of Energy

Categorical Exclusion Determination Form

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

Proposed Action Description:

The glovebox oxygen monitoring systems in 233-H will be replaced with a Delta F analyzer and a Delta F oxygen sensor.

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.

This scope of work was previously evaluated under EEC OBU-H-2015-0052. Since a revision was required and the EEC database no longer uses the previous business unit "OBU", a new EEC, SRTE-H-2025-00012, was created.

While this is the initial revision of this EEC, the previous EEC (OBU-H-2015-0052) was revised multiple times due to the following reasons:

Rev. 1 of OBU-H-2015-0052 expands the scope 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 of OBU-H-2015-0052 extends the Activity End date to 3/31/2025. The proposed activity is scheduled 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.

Categorical Exclusion(s) Applied:

B2.2 BUILDING AND EQUIPMENT INSTRUMENTATION

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.

*The DOE is aware of the November 12, 2024 decision in *Marin Audubon Society v. Federal Aviation Administration*, No. 23-1067 (D.C. Cir. Nov. 12, 2024). To the extent that a court may conclude that the CEQ regulations implementing NEPA are not judicially enforceable or binding on this agency, the DOE has nonetheless elected to follow those regulations at 40 CFR Parts 1500-1508, in addition to the DOE's procedures/regulations implementing NEPA 10 CFR 1021, to meet the agency's obligations under NEPA, 42 U.S.C. §§ 4321 et seq.

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: 04/24/2025

Comments: EEC No: SRTE-H-2025-00012 Rev No: 0