



# Office of Environmental Management

## U.S. Department of Energy

### Categorical Exclusion Determination Form

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Proposed Action Title: 233-H HP-PLC Conversion to DeltaV Platform

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:

The Health Protection Programmable Logic Controller (HP-PLC) (controller, main frame) monitors and controls the H Area New Manufacturing (HANM) Air Monitoring (AM) System, which includes the Building 233-H Tritium Air Monitoring and Room Oxygen Monitors. This PLC also monitors Building 233-H Stack Flow and the EC PLC Environmental Conditioning (EC PLC). The operator interfaces with the HP PLC via the unclassified DCS operator control modules in the HANM Central Control Room (CCR) and the Radiation Protection (RPD) Office. Parameter indications and alarms for abnormal conditions are provided. The HP-PLC consists of 1 Controller, I/O signals, includes physically wired field devices and spans across 11 cabinets through the facility

The existing HP-PLC is obsolete and requires replacement. The existing HP-PLC and eleven remote I/O drops (I/O Cabinets, I/O Enclosures) (Drops 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 and 11) require upgrading to the latest Emerson DeltaV control system hardware/software to implement SRTes ongoing strategy to standardize and integrate process control using the Emerson DeltaV platform. The Air Monitoring System may be modified to support the upgraded hardware/software.

Rev. 1:

The Proposed Activity will implement the Tritium Process Controls Strategy to standardize and integrate Process Control.

The Proposed Activity, during time of Construction, will remove obsolete D/3 Distributed Control System (DCS) hardware from the 233-H HP-PLC (Health Protection-Programmable Logic Controller) and eleven Input/Output (I/O) Modules (Drops 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 and 11), UPS-PLC (Uninterruptible Power System) and I/O Modules, front end DCS, and, if needed, will remove designated Air Monitoring Simulator hardware.

The Proposed Activity will provide current DeltaV DCS Platform hardware by Emerson US to the 233-H HP-PLC and eleven I/O Modules (at Drops 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 and 11), UPS-PLC and I/O Modules, and front end DCS, and if needed, will provide designated Air Monitoring Simulator hardware.

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#### Categorical Exclusion(s) Applied:

B2.5 FACILITY SAFETY AND ENVIRONMENTAL IMPROVEMENTS

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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.

\*In accordance with Executive Order 14154, effective April 11, 2025, CEQ has removed the regulations implementing NEPA (40 CFR 1500-1508). DOE will continue to comply with the National Environmental Policy Act (NEPA) of 1969, as amended, (42 U.S.C. §§ 4321 et seq.) and DOE's NEPA Implementing Procedures (10 CFR 1021).

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: 07/08/2025

Comments: EEC No: SRTE-H-2024-00002 Rev No: 1