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# U.S. Department of Energy Categorical Exclusion Determination Form

Project Title: Design and Procurement of 233-H GS-PLC Conversion to DeltaV Platform

Program or Field Office: Savannah River Site

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

Proposed Action or Project Description:

The General Services - Programmable Logic Controller (GS-PLC) is used to control the operations of the 233-H HVAC system and provide alarm information upon abnormal operating conditions or equipment failure. This PLC is obsolete and needs replacement. The existing GS PLC and two remote I/O drops (2 and 3) require upgrading to the latest Emerson DeltaV control system hardware/software to implement SRTE's ongoing strategy to standardize and integrate process control using the Emerson DeltaV platform. The H Area New Manufacturing (HANM) GS (General Services) PLC (Programmable Logic Controller) is obsolete and needs replacement. This project will upgrade the existing GS PLC and two remote I/O drops with latest Emerson DeltaV control system hardware/software, in alignment with SRTE's ongoing strategy to standardize and integrate process control using the Emerson DeltaV platform. The HANM Ventilation System Simulator will also be modified, as required, to support Operator training. Scope includes replacing obsolete PLC hardware such as Controllers, IO, Power supplies, etc. with latest DeltaV components. The existing GS PLC has a network connection to the Unclassified HANM (UHANM) DCS for remote monitoring, which will also be modified/updated for this project as determined during conceptual design. Plan is to reuse existing cabinets due to space constraints, and subcontract design and fabrication of new cabinet subpanels to the Emerson DeltaV regional distributor, Robert E Mason Company (REM). REM will also design/fabricate jumper assemblies/harnesses to connect the new subpanel I/O components to existing field wiring terminations—  
~~eliminating the need to lift/ladd field wiring~~

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](#).

- There are no extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal.
- This 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 § 1021.211 concerning limitations on actions during preparation of an environmental impact statement.
- All of the conditions that are integral elements of the classes of actions in Appendix B to Subpart D of 10 CFR Part 1021 would be met. This proposal would not threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, or similar requirements of DOE or Executive Orders; 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; 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; have the potential to cause significant impacts on environmentally sensitive resources, including, but not limited to, those listed in paragraph B(4) of Appendix B to Subpart D of 10 CFR Part 1021; 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.

Based on my review of information conveyed to me and in my possession (or attached) concerning the proposed action, as NEPA Compliance Officer (as authorized under DOE Order 451.1B), 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:

**Tracy Williams**

Digitally signed by Tracy Williams  
Date: 2021.07.01 09:26:05 -04'00'

Date Determined: 06/09/2021

Comments: OBU-H-2021-0050, Rev. 0