



U.S. Department of Energy Categorical Exclusion Determination Form

Submit by E-mail

Project Title: M-DCF-H-13504 Redesign 233-H AHU Steam Supply and Condensate System

Program or Field Office: Savannah River Site

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

Proposed Action or Project Description:

The Proposed Activity (PA) is M-DCF-H-13504, Redesign 233-H AHU Steam Supply and Condensate System, and Work Order (WO) 1693883. The PA will modify the steam header and condensate lines on each of the three 233-H preheat steam coils and each of the three 233-H reheat steam coils. This modification is being implemented as a result of preheat and reheat steam coil failure from suspected water hammer. The current condensate system for the preheat and reheat steam coils was designed with the installation of the air handling unit (AHU) in approximately 1988, but has since been determined to be undersized, which contributed to the water hammer that damaged the steam coils. The current design reduces the condensate line at the outlet of the coils from 2" to 3/4," including the steam traps, for each coil. Steam experts recommend maintaining the same size lines and traps as the coil outlet connection. This PA will modify the steam condensate system at each coil by replacing the 3/4" lines and traps with 2" lines and traps, and will add strainers before each trap. This PA will also install an additional steam trap on each steam header at the inlet of the preheat and reheat coils, and will require the steam and condensate lines to be sloped towards the traps. Interim conditions include a steam outage during modification.

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 09:39:16 -04'00' Date Determined: 06/09/2021

Comments: OBU-H-2019-0130, Rev. 0