U.S. Department of Energy
Categorical Exclusion Determination Form

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Proposed Action Title: NEPA 4752, Depleted Uranium Technology Testing for the Uranium Processing Facility (UPF)

Program or Field Office: Y-12 National Security Complex, NNSA Production Office

Location(s) (City/County/State): Oak Ridge / Anderson / Tennessee

Proposed Action Description:

The purpose of this project is to perform testing of Depleted Uranium (DU) technology for the Uranium Processing Facility (UPF) Project. Advancing the technology requires testing with DU after the enhanced factory testing phase at the vendor's site in Huntsville. The execution of this project requires the use of a specialized casting demonstration facility. An off-site facility will be leased to perform the needed DU testing for a one year term with four one year options to allow for completion of this testing. UPF is not demonstrating that this technology would be suitable for commercial deployment. The project will not be relocating the equipment to the UPF after the demonstration phase is complete. It will not be "commercially deployed".

Teledyne Brown Engineering, as the lease holder and testing subcontractor, will acquire a state issued radioactive material license for the test activities. RCRA requirements will apply for any hazardous waste generated and managed at the leased facility and Air permits or exemptions will be obtained if required. Control equipment / administrative controls will be used to mitigate airborne emissions. The leased testing facility will be required to meet the following environment, safety and health requirements:

a). Waste stream management systems;
b). HEPA filtration system and monitoring (as air permit requires) for exhaust gases;

Categorical Exclusion(s) Applied:

B3.6 - Small-scale research and development, laboratory operations, and pilot projects

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, 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: Jack Zanger

Digitally signed by Jack Zanger
DN: c=US, o=U.S. Government, ou=Department of Energy, ou=Y-12 National Security Complex, ou=CAs, ou=Pantex People, cn=Jack Zanger
Date: 2016.04.28 14:50:08 -05'00'

Date Determined: 04/28/2016

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