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U.S. Department of Energy Categorical Exclusion Determination Form

Proposed Action Title: NEPA 4976, Aerojet Ordinance Tennessee Inc., Recycle Pilot Project

Program or Field Office: Location(s) (City/County/State): Y-12 National Security Complex / NNSA Production Office / Oak Ridge, TN

Proposed Action Description:

The Y-12 National Security Complex's proposed action is to contract Aerojet Ordinance Tennessee Inc. of Jonesborough, Tennessee(AOT) to purify Depleted Uranium (DU) to High Purity Depleted Uranium (HPDU) on a pilot scale - to further the research and mature the technology. As the national availability of clean DU and Natural Uranium (NU) declines for both the public and private sector, there is a need for a viable purification process to fabricate HPDU with stringent requirements. AOT would conduct a limited purification demonstration action to prove-in a previous bench scale process. DU/NU feed material would be provided from NNSA under a Memorandum of Understanding with the Department of Defense for their recycled munitions. AOT is currently licensed under the Nuclear Regulatory Commission for manufacturing, storage, and handling of DU. If viable, AOT development of this technology maybe evaluated as a potential "government furnished" supplier of HPDU feed material for NNSA (Y-12) or other federal agencies. AOT could supply material under the Work for other federal agencies program and within the bounds of the work scope. Demonstration actions undertaken at AOT are not for commercial deployment.

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 Requirement	ents in 10	CFR 1021.410(b):						
The proposal fits within a class of actions that is listed in Appendix A or B to 10 CFR Part 1021, Subpart D. See paragraph above for specific categorical exclusion(s) applied.								
The classes of actions listed in 10 CFR Part 1021, Subpart D, Appendix B include conditions that are integral elements of the class of actions which must be satisfied in order to determine that a proposal is categorically excluded under Appendix B. Specifically, 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;						
	(includir	ire siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities ng incinerators), but the proposal may include categorically excluded waste storage, disposal, recovery, or tactions 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 to:	the potential to cause significant impacts on environmentally sensitive resources, including, but not limited						
		(i) Property (such as sites, buildings, structures, and objects) of historic, archeological, or architectural significance designated by a Federal, state, or local government, Federally recognized Indian tribe, or Native Hawaiian organization, or property determined to be eligible for listing on the National Register of Historic Places;						
		(ii) Federally-listed threatened or endangered species or their habitat (including critical habitat) or Federally-proposed or candidate species or their habitat (Endangered Species Act); state-listed or state-proposed endangered or threatened species or their habitat; Federally-protected marine mammals and Essential Fish Habitat (Marine Mammal Protection Act; Magnuson-Stevens Fishery Conservation and Management Act); and otherwise Federally-protected species (such as the Bald and Golden Eagle Protection Act or the Migratory Bird Treaty Act);						
		(iii) Floodplains and wetlands (as defined in 10 CFR 1022.4, "Compliance with Floodplain and Wetland Environmental Review Requirements: Definitions," or its successor);						

			parks, national monumer	nts, national natural landmark	lly- and state-designated wild s, wild and scenic rivers, state toric Trails or National Sceni	and Federal wildlife	
				lland, or other farmland of sta tection Policy Act: Definition	tewide or local importance, as," or its successor;	s defined at 7 CFR	
		S	(vi) Special sources of w sources that are vital in a reg		ifers, wellhead protection are	as, and other water	
			(vii) Tundra, coral reefs,	or rain forests;			
		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.					
	of the propos to, scientific	al. Ext	traordinary circumstances ar versy about the environment	e unique situations presented	by specific proposals, includi- ertain effects or effects involvible resources.	ing, but not limited	
	broken down include the co potentially si cumulatively	into snonsider gnificates signifi	mall parts in order to avoid the ration of connected and cum- nt impacts (40 CFR 1508.25	the appearance of significance ulative actions, that is, the prof(a)(1)), is not related to other $27(b)(7)$), and is not preclude	xclusion. Segmentation can of the total action. The scope oposal is not connected to other actions with individually insided by 40 CFR 1506.1 or \$102.5	of a proposal must er actions with ignificant but	
he pro	posed action f	its with		action, the other regulatory re	zed under DOE Order 451.1E quirements set forth above ar		
NEPA Compliance Officer:					Date Determined:		
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