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U.S. Department of Energy Categorical Exclusion Determination Form

Proposed Action Title: NEPA 4642, Calciner Project (addendum)

<u>Programor Field Office</u>: NNSA Production Office - Y-12 National Security Complex (Y-12)

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

Proposed Action Description:

The Y-12 National Security Complex's (Y-12) provides critical and specialized processing, manufacturing, and storage capabilities. In 2013, Y-12 proposed to design, procure, install, test, and operate a calciner. A calciner is a thermal treatment process of a queous feed material to solid form; the majority of material exiting as gas and vapor (off-gas collection and scrubber system is part of the design). As a new technology this process continues to evolve. The purpose of this project is to install, test, and operate a calciner and appurtenant equipment in order to convert low equity (impurities present) solutions into a reduced, dry, and flowable solid for long term storage. Solid products are collected and stored. This project provides an alternative method to the current operations. The NEPA 4642 categorical exclusion determination was originally issued in 2015 and was re-issued in 2019 (not publicly available) on the revised US DOE Categorical Exclusion Determination form (changed as a result of US District Court ruling). This purpose of this addendum to NEPA 4642 is to make publicly available a version of the 2019 issued CX.

Categorical Exclusion(s) Applied:

B1.31 – Installation or relocation of machinery and equipment

| B1.3 – Routine maintenance | | | | |
|----------------------------|---|--|--|--|
| | E National Environmental Policy Act regulations regarding categorical exclusions, including the full text of each , see Subpart D of 10 CFR Part 1021. | | | |
| Regulatory Requirem | nents in 10 CFR 1021.410(b): | | | |
| | ts within a class of actions that is listed in Appendix A or B to 10 CFR Part 1021, Subpart D. See paragraph above for rical exclusion(s) applied. | | | |
| actions which m | actions listed in 10 CFR Part 1021, Subpart D, Appendix B include conditions that are integral elements of the class of ust be satisfied in order to determine that a proposal is categorically excluded under Appendix B. Specifically, a see 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: | | | |
| | (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); | | | |

Environmental Review Requirements: Definitions," or its successor);

(iii) Floodplains and wetlands (as defined in 10 CFR 1022.4, "Compliance with Floodplain and Wetland

| | | | (iv) Areas having a special designation such as Federally- and state-designated wilderness areas, national parks, national monuments, national natural landmarks, wild and scenic rivers, state and Federal wildlife refuges, scenic areas (such as National Scenic and Historic Trails or National Scenic Areas), and marine sanctuaries; |
|--------|--|-------------------------------------|---|
| | | | (v) Prime or unique farmland, or other farmland of statewide or local importance, as defined at 7 CFR 658.2(a), "Farmland Protection Policy Act: Definitions," or its successor; |
| | | | (vi) Special sources of water (such as sole-source aquifers, wellhead protection areas, and other water sources that are vital in a region); and |
| | | | (vii) Tundra, coral reefs, or rain forests; |
| | | inv pre | involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or as ive species, unless the proposed activity would be contained or confined in a manner designed and operated to vent unauthorized release into the environment and conducted in accordance with applicable requirements, such hose listed in paragraph B(5) of 10 CFR Part 1021, Subpart D, Appendix B. |
| | of the propo to, scientific | sal. E conti | ordinary circumstances related to the proposal that may affect the significance of the environmental effects extraordinary circumstances are unique situations presented by specific proposals, including, but not limited roversy about the environmental effects of the proposal; uncertain effects or effects involving unique or ad unresolved conflicts concerning alternative uses of available resources. |
| | broken down include the co potentially s cumulatively | n into consic ignific sign | not been segmented to meet the definition of a categorical exclusion. Segmentation can occur when a proposal is small parts in order to avoid the appearance of significance of the total action. The scope of a proposal must leration of connected and cumulative actions, that is, the proposal is not connected to other actions with cant impacts (40 CFR 1508.25(a)(1)), is not related to other actions with individually insignificant but ificant impacts (40 CFR 1508.27(b)(7)), and is not precluded by 40 CFR 1506.1 or §1021.211 of this part cions on actions during EIS preparation. |
| he pro | posed action f | its wi | e proposed action, as NEPA Compliance Officer (as authorized under DOE Order 451.1B), I have determined that thin the specified class(es) of action, the other regulatory requirements set forth above are met, and the proposed ally excluded from further NEPA review. |
| NEPA | Compliance C | Office | Date Determined: |

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