



U.S. Department of Energy

Categorical Exclusion Determination Form

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Proposed Action Title: Non-Comprehensive Environmental Response, Compensation, and Liability Act Facility and Structure Demolition and General Site Clean-up at Oak Oak Ridge National Laboratory (CX-ORR-566)

Program or Field Office: Oak Ridge Office of Environmental Management

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

Proposed Action Description:

The U.S. Department of Energy (DOE) proposes to demolish non-Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) facilities and structures remaining at the Oak Ridge National Laboratory (ORNL) and conduct a general site cleanup to eliminate operational and maintenance costs, reduce environmental risk from aging facilities, and to allow repurposing of the real estate.

As one of the three primary installations on the DOE Oak Ridge Reservation (ORR), ORNL was established in 1943 as part of the World War II Manhattan Project. Then known as X-10, its early focus was on chemical technology and reactor development. Today, ORNL's research and development portfolio has broadened to include programs supporting DOE's missions in scientific discovery and innovation, clean energy, materials sciences, biological and environmental systems, and nuclear security. There is also ongoing characterization and deactivation of former reactors and isotope production facilities; remediation to support future brownfield redevelopment; and management of inactive waste disposal sites, structures, and buildings. Modernization continues at ORNL as old, energy inefficient buildings are demolished to make way for the construction of high-performance buildings. Much of the demolition of excess facilities and cleanup of legacy environmental contamination is being completed under CERCLA, and the National Environmental Policy Act (NEPA) documentation was included as part of the CERCLA documentation.

Categorical Exclusion(s) Applied:

B1.16 - Asbestos removal

B1.23 - Demolition and disposal of buildings

B1.27 - Disconnection of utilities

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: **ELIZABETH PHILLIPS** Digitally signed by ELIZABETH PHILLIPS
Date: 2022.08.17 12:09:08 -04'00'

Date Determined:

Proposed Action Description for CX-ORR-566

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The proposed action would be to remove old and inefficient facilities and structures (including, but not limited to, sprinkler vault houses, conex and Sealand storage boxes, electrical transformers and substations, trailers, Rubb Tents, portals, storage tanks, communication towers, pumphouses, and small buildings) that do not fall under the existing CERCLA decision documents and conduct general site cleanup activities. The facilities and structures would be managed through several avenues, including movement to another location for continued use, vendor returns, property sales, or demolition for recycling and/or disposal. The general site cleanup would include, but not be limited to, removal of remaining storage tanks, fences, debris piles, bollards, fire hydrants, concrete slabs, stanchions, and asphalt; and disposition of excess equipment.

A DOE contractor would complete the proposed action, which would include: (1) removing and dispositioning materials and equipment from the structures, (2) removing and dispositioning all known hazardous materials, (3) disconnecting utility services, (4) demolishing the buildings by conventional methods (e.g., shears, grapples, and front-end loaders), and (5) removing debris from the site for recycle or disposal. In the event that regulated materials are discovered during the course of demolition, or if it proves infeasible to remove all regulated material prior to demolition, the proposed action would include the proper segregation and disposal of any such materials in accordance with existing DOE contractor procedures prior to disposal of the remaining debris as recycle material or sanitary/industrial waste. At the conclusion of demolition and waste removal, disturbed soil areas would be stabilized utilizing best management practices (BMPs) described in the Tennessee Erosion & Sediment Control Handbook.

A Notification of Asbestos Demolition and/or Renovation would be submitted to the Tennessee Division of Air Pollution Control for any applicable asbestos renovation or structure demolition.

Appropriate spill prevention, spill response materials, and stormwater pollution controls would be installed and inspected prior to beginning demolition activities. Water spray would be utilized to control airborne dust emissions, and runoff would be monitored and regulated to prevent uncontrolled non-stormwater discharges to storm drains and/or waters of the state.

In the event a specific project disturbs an acre or more through demolition, a Notice of Intent (NOI) for Construction Activity and a site-specific Storm Water Pollution Prevention Plan would be developed and submitted to the Tennessee Division of Water Resources.

All excavation would be done in compliance with the Tennessee Underground Utility Damage Prevention Act (July 2021, Tenn. Code Ann. Title 65, Chapter 31). An excavation/penetration permit would be obtained prior to performing any excavating work. Excavation activities would be limited to the minimum amount necessary to accomplish the goals of the proposed action. All demolition operations in the vicinity of existing utilities would be performed with great care to prevent damage to these utilities. Prior to demolition activities, excavators would verify the location of any marked utilities.

The proposed action would generate a variety of recyclable material and demolition waste that may include, but not be limited to: (1) asbestos-containing materials (ACMs), including insulation, floor tile, mastic, and transite (ACM wastes would be disposed of under the special waste provisions of the Oak Ridge Reservation Landfill); (2) limited quantities of universal wastes and hazardous wastes may remain in place until demolition, and the wastes would be segregated and recycled or disposed, as appropriate, through existing DOE contractor waste management systems; (3) any radiological-contaminated materials that could not be accessed prior to demolition would be removed and managed in accordance with existing procedures; (4) materials with painted surfaces would be characterized for potential lead and/or polychlorinated biphenyl (PCB) content prior to demolition to confirm that resulting waste streams would meet waste acceptance criteria for the receiving facility; and (5) all nonhazardous and nonradioactive waste material that is not appropriate for recycling actions would be disposed at an approved sanitary landfill site. The DOE contractor involvement in the disposal of hazardous waste would include characterizing, packaging, and certifying the waste to ensure that it meets the acceptance requirements of the receiving organization. Prior to demolition activities, the facilities would undergo characterization to determine compliant waste disposition.

The remaining non-CERCLA buildings and structures at the Y-12 National Security Complex (Y-12) that would be candidates for the proposed action are not eligible for inclusion in the U.S. Department of Interior's National Register of Historic Places, and therefore do not require further National Historic Preservation Act of 1966 (NHPA), Section 106 consultation in accordance with the Cultural Resource Management Plan, DOE Oak Ridge Reservation, Anderson and Roane Counties, Tennessee (2001, DOE/ORO-2085), Section 5.1.1.3.A.1, "Determination of Extent of Section 106 Review Responsibilities."

This document has been reviewed and confirmed to be UNCLASSIFIED and contains no UCNI.

Name: Gerald Boroughs

Date: 08/17/2022

UCOR eDC/RO ID: 27449