



U.S. Department of Energy

Categorical Exclusion Determination Form

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Proposed Action Title: Y12-NEPA-003-SB&E, Rev 0, Support Buildings for Temporary Housing and Storage, Building Modifications, and Machinery and Equipment Installations, CY 2022 to CY 2024.

Program or Field Office: NNSA Production Office - Y-12 National Security Complex (Y-12), other NNSA-owned and contractor operated facilities, and ancillary areas associated with Y-12, but does not apply to the Pantex Plant

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

Proposed Action Description:

National Nuclear Security Administration (NNSA)'s proposed action is to 1) create temporary housing for occupancy 2) provide non-occupancy space for general storage and outdoor use, 2) modify, repair, or refurbish existing facilities and infrastructure, and 3) install, relocate, repair, and remove machinery, equipment, and other mission critical equipment to meet NNSA's mission at the Y-12 National Security Complex (Y-12). This Umbrella Categorical Exclusion Determination (UCXD) comprises the recurring and necessary activities to support Y-12 Project Management, Y-12 Construction Management, NNSA's on-going modernization efforts, and current operations. The proposed action would occur at Y-12, 113-C Union Valley Rd, 103 Palladium Way, 350 Centrifuge Drive, and other NNSA owned properties for calendar year (CY) 2022 thru CY 2024. Such actions involve <5,000 sq. ft. of total housing space (or five 1,000 sq. ft. units) to be located on previously disturbed land and that is contiguous to existing industrial space, would not involve the disturbance of >1 acre of land, cost < \$1 million for the units, and the housing would not exceed the manufacturer's recommended life expectancy. Additional details are described in NEPA Review Form "Y12-NEPA-0621-003, Rev 0".

This UCXD **does not include proposed actions** involving new construction of permanent facilities/buildings (including siting or site prep); significant modifications/renovations, or building additions, to existing facilities; or temporary buildings/structures for the purposes of nuclear weapon production or waste storage activities (please see Y12-NEPA-0621-006, Rev 0). In addition, capital asset projects conducted under DOE O 413.3b, *Programs and Project Management for the Acquisition of Capital Assets* **are excluded** from this UCXD and will be appropriately documented through the National Environmental Policy Act (NEPA) process. This single categorical exclusion determination (i.e. UCXD) has considered the aggregate impacts of the proposed action, as authorized by §1021.410(f), and documented in the associated NEPA Review form.

The scope of this UCXD includes:

- 1) Provide temporary housing for human occupancy for the purposes of administrative office space, meeting/conference space, field preparation areas, light lab space, personnel staging areas, Donning/Doffing stations, security posts, general maintenance space, restrooms, breakroom, change-houses, showers, and general supplies. This includes the following:
 - a. Siting, installation, modification, repair, replacement, or removal of the following: prefabricated buildings, modular buildings/trailers, mobile trailers, large storage/shipping containers, pre-fabricated storage buildings, or other pre-fabricated mobile structures.
 - b. Installation, repair, modification, or removal of associated infrastructure (i.e. utility hook-ups/connections, concrete foundations/pads/pedestals, bollards) and ancillary structures (stairs, platforms, heating/HVAC units, skirts, anchors and tie-downs, lightning protection, and connectors).
 - c. Siting and site preparation (excavation, clearing, etc.), access roads, parking, lighting, fencing and other ancillary structures.
- 2) Provide temporary structures/buildings for non-occupancy, including general storage (supply chain and stores), non-nuclear equipment or instrumentation (utility controls, communication, data processing, pumps and valves controls, fire deluge and suppression equipment, alarm systems, and other miscellaneous equipment); storage for materials, containers, outdoor supplies, and tools; and storage/housing for outdoor equipment, mowing equipment, vehicles, and construction equipment/vehicles. This would include the necessary actions listed under 1a, 1b, and 1c. This Umbrella document does NOT apply to storage of waste, waste containers, or waste material as described in Y12-NEPA-0621-006, Rev 0. Also, this document does not apply to facilities for the purpose of nuclear weapon production or development activities.



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- 3) Refurbishment and modifications to (includes, minor construction, demolition, repair, replacement, and refurbishment) to existing Y-12 facilities for the stated purpose;
- Interior: walls, windows, ceiling, doors, hoist/cranes, alarm systems, stairways, flooring, elevators, and bathrooms;
 - Exterior: structural support, walls, siding, roofs, sidewalks, ladders, lighting, signage, canopies, and painting; and
 - Support infrastructure: utilities (electrical, water, air, gases, etc.), sprinkler and fire water systems, alarm systems and controllers, hoods/exhaust systems, Heating, ventilation, and air-conditioning (HVAC) systems, docks, motor control centers, transformers, switchgear, generators, air handlers, and cooling towers;
 - Installation of new furniture; and
 - Equipment and machinery installation or replacements consistent with the general missions of the receiving structure.
- 4) Installation, relocation, removal, refurbishment, and operation of machinery and equipment (including mission critical machinery) in existing facilities, where the uses of the relocated items would be similar to their former uses and consistent with the general missions of the receiving structure.

These activities would be performed in accordance applicable laws, regulations, permits, and stipulations and controls as stated in Y12-NEPA-0621-003, Rev 0. Documentation of NEPA reviews for individual projects/programs/activities will provide greater detail, state the applied control/stipulation, and will be tiered from the appropriate Categorical Exclusion Determination.

Any proposed maintenance action in regards to building modifications and refurbishments must be considered: 1) routine in nature; 2) preventive, predictive, or corrective maintenance to preserve infrastructure, including roads, right-of-ways, vehicles, building structures, and equipment; 3) a custodial service to preserve facilities appearance, working conditions, and sanitation; 4) an action to maintain the structure/infrastructure/equipment in a condition suitable for a facility to be used for its intended purpose; and 5) an in-kind replacement, such that it is a "like for like replacement" and is not considered a substantial upgrade or improvement, but replaces outmoded components.

Various types of construction, packaging, excess equipment, excess machines, demolition wastes, and recyclables would be generated as a result of the above actions depending on the mission of the organization; however, these wastes are typically generated and disposed of in existing facilities according to established regulations and procedures. Solid and liquid waste of any type generated during installation, construction, remodeling, demolition, and excess/removal would require a Waste Management Plan and be recycled or disposed of according to well-defined and established procedures addressing each characteristic waste stream (See Y12-NEPA-0621-006, rev 0, *Waste Management, Waste Minimization, Energy Conservation, Sustainability, and Pollution Prevention Activities*).

The proposed support actions listed above would take place on the Oak Ridge Reservation (ORR) have been reviewed in accordance with the Cultural Resource Management Plan (CRMP) or applicable sections in a Programmatic Agreement and would not result in an adverse effect to historic properties included or eligible for inclusion in the National Register of Historic Places (National Register). If the proposed ORR actions would have an adverse effect on properties included or eligible for inclusion in the National Register, NNSA would consult with the State Historic Preservation Officer (SHPO) and initiate actions specified in procedures set forth in the Advisory Council's regulations in 36 CFR Part 800.

To ensure that sensitive resources are protected, existing maps and surveys/studies on threatened and endangered species, wetlands and floodplains, and historically sensitive areas would be used to locate these areas. In addition, personnel responsible for identifying these resources would be consulted and, if warranted, additional surveys and walkovers would be conducted to confirm or update available information.

Although an action might fall under the category of "**Support Buildings for Temporary Housing and Storage, Building Modification, and Machinery and Equipment Installations**" a separate NEPA review would be performed and documented should the action, or aggregate impacts of the action, have the potential to result in an unusual or significant impact to the environment.

Categorical Exclusion(s) Applied:

- B1.3, Routine maintenance**
- B1.4, Air conditioning systems for existing equipment**
- B1.6, Tank and equipment to control runoff and spills**
- B1.7, Electronic equipment**



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- B1.11, Fencing**
- B1.13, Pathways, short access roads, and rail lines**
- B1.15, Support buildings**
- B1.16, Asbestos removal**
- B1.17, Polychlorinated biphenyl (PCB) removal**
- B1.22, Relocation of buildings**
- B1.31, Installation or relocation of machinery and equipment**
- B1.33, Stormwater runoff control**
- B2.2, Building and equipment instrumentation**
- B2.5, Facility safety and environmental improvements**
- B5.2, Modifications to pumps and piping**

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):

- 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;
 - (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);
 - (iii) Floodplains and wetlands (as defined in 10 CFR 1022.4, "Compliance with Floodplain and Wetland Environmental Review Requirements: Definitions," or its successor);
 - (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



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- (vii) Tundra, coral reefs, or rain forests; or
- 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 the Department of Agriculture, the Environmental Protection Agency, and the National Institute of Health.

There are no extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal. Extraordinary circumstances are unique situations presented by specific proposals, including, but not limited to, scientific controversy about the environmental effects of the proposal; uncertain effects or effects involving unique or unknown risks; and unresolved conflicts concerning alternative uses of available resources.

The proposal has not been segmented to meet the definition of a categorical exclusion. Segmentation can occur when a proposal is broken down into small parts in order to avoid the appearance of significance of the total action. The scope of a proposal must include the consideration of connected and cumulative actions, that is, the 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 of this part concerning limitations on actions during EIS preparation.

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:

Date Determined:

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