



U.S. Department of Energy Categorical Exclusion Determination Form

Proposed Action Title: Deactivation of Oak Ridge Electron Linear Accelerator located in Building 6010 at the Oak Ridge National Laboratory (3875X)

Program or Field Office: Office of Science - ORNL

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

Proposed Action Description:

The U.S. Department of Energy Oak Ridge National Laboratory Site Office (DOE-OSO) proposes to deactivate the Oak Ridge Electron Linear Accelerator (ORELA), located in Building 6010 at the Oak Ridge National Laboratory (ORNL) in order to significantly reduce operational and maintenance costs for this underutilized facility, and to facilitate repurposing of associated laboratory and office spaces. Research activities requiring operation of the ORELA were discontinued in 2008 due to changing programmatic priorities, and the associated staff re-assigned to support other lines of research. The facility, including the associated laboratory office spaces in building 6010 were eventually vacated, apart from maintenance and custodial staff engaged in efforts to clean out the building and the dispositioning of excess materials and equipment.

In recent years, efforts have been underway to revitalize the ORNL Campus by construction of new facilities, repurposing of suitable existing buildings, and demolition and removal of old structures and buildings no longer needed to support the Office of Science (SC) mission. The proposed action would reduce operational costs, enhance facility safety, and make existing laboratory and office space available for repurposing. Once the building clean out is completed, utilities would be disconnected and reconfigured in a manner to allow repurposing building 6010 while isolating ORELA, which would remain in surveillance and maintenance pending transfer to the DOE Office of Environmental Management. Specific tasks would include reconfiguring electrical power and control systems, process systems, HVAC and exhaust systems, and stabilization or removal of accelerator components and support systems.

The proposed action would stabilize, deactivate, perform some dismantlement and decommission ORELA for permanent shutdown to support long term surveillance and maintenance. These actions would include clean out and disposition of excess materials and equipment, disassembly and removal of particle accelerator components necessary to support clean out and stabilization actions, disposition of waste materials, some decontamination to minimize long term surveillance and maintenance requirements, isolation of utility and particle accelerator process systems to facilitate deactivation of the facility, and the development and implementation of a surveillance and maintenance plan to be executed until final transfer of the facility to DOE Environmental Management for D&D and/or disposition.

Non-hazardous waste deemed unsuitable for recycling will be disposed at the Oak Ridge Reservation centralized sanitary landfill. ORNL involvement in the disposal of hazardous waste, if any, would include characterizing, packaging, and certifying the waste to assure that it meets the acceptance requirements of the receiving organization. A waste management plan detailing the waste streams and disposition path will be developed as part of the project planning. The proposed actions would be in accordance with applicable requirements in the proposed project area and would incorporate appropriate control technologies and best management practices. The Tennessee Department of Environment and Conservation would be provided with advance notification (at least 10 days) of any major asbestos abatements or demolitions, in accordance with Tennessee Rule 1200-03-11-02: Asbestos. Appropriate storm water pollution controls would be installed and inspected prior to use of any outdoor staging areas. Stored materials would be managed so as to prevent uncontrolled non-storm water discharges to storm drains and/or waters of the state.

This action falls under Section 5.1.1.3.A. of the Cultural Resource Management Plan (DOE/ORO 2085, July 2001). This facility is not located within the ORNL Historic District, and has been surveyed in accordance with Section 106 of the National Historic Preservation Act. Building 6010 is not considered eligible for inclusion in the National Register of Historic Places.¹

¹Architectural/Historical Assessment of the Oak Ridge National Laboratory, Oak Ridge Reservation, Anderson and Roane Counties, Tennessee, ORNL/M-3244, January 1994.

Categorical Exclusion(s) Applied:

- B3.10 - Particle accelerators
- B1.16 - Asbestos removal
- B1.31 - Installation or relocation of machinery and equipment
- Choose an item.
- Choose an item.

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.

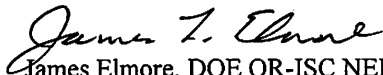
The proposal has not been segmented to meet the definition of a categorical exclusion. This proposal is not connected to other actions with potentially significant impacts (40 CFR 1508.25(a)(1)), is not related to other actions with individually insignificant but cumulatively significant impacts (40 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.

The above description accurately describes the proposed action, which reflects the requirements of the CX cited above. Therefore, I recommend that the proposed action be categorically excluded from further NEPA review and documentation.

Program Point of Contact: 
David L. Buhaly, DOE OSO, Program Manager

8/3/2015
Date Determined:

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: 
James Elmore, DOE OR-ISC NEPA Compliance Officer

Date Determined: Click here to enter a date.
8/4/15