

**U.S. Department of Energy  
Naval Reactors Laboratory Field Office**

**Knolls Laboratory**

National Environmental Policy Act (NEPA) Categorical Exclusion (CX)  
Determination Summary Form

**BUILDING Z10 EMERGENCY GENERATOR INSTALLATION PROJECT**

**REFERENCE**

10 CFR Part 1021, Department of Energy National Environmental Policy Act  
Implementing Procedures, Subpart D, Typical Classes of Actions, Appendices A and B

**PROJECT SCOPE DISCUSSION**

The scope of the General Plant Project funded Knolls Laboratory Building Z10 Emergency Generator Installation Project includes the design and installation of a backup electrical power source (Emergency Diesel Generator) and a life safety rated Uninterruptible Power Supply (UPS) for Building Z10.

Building Z10 requires a separate backup electrical power source to support communication systems and the building's emergency lighting system. A new life safety rated UPS will be installed to provide new backup power supply to the existing emergency lights within the building.

The project does not violate applicable regulatory requirements, require construction or major expansion of waste handling facilities, result in unpermitted releases of hazardous substances, or adversely affect environmentally sensitive resources, including wetlands. This project does not involve genetically engineered organisms or species. There are no extraordinary circumstances related to the proposed action. The project has not been segmented to meet the definition of a categorical exclusion and is not connected to other actions with potentially significant and/or cumulative impacts.

**CONCLUSION**

The Knolls Laboratory Building Z10 Emergency Generator Installation Project is categorically excluded from additional NEPA documentation under 10 CFR 1021 Subpart D, Appendix A, A12, and Appendix B, B1.7, B1.31, B2.5, and B4.6.

Specifically, the categorical exclusions that apply are the following:

## *A12 Emergency preparedness planning*

Emergency preparedness planning activities, including, but not limited to, the designation of onsite evacuation routes.

## *B1.7 Electronic equipment*

Acquisition, installation, operation, modification, and removal of electricity transmission control and monitoring devices for grid demand and response, communication systems, data processing equipment, and similar electronic equipment.

## *B1.31 Installation or relocation of machinery and equipment*

Installation or relocation and operation of machinery and equipment (including, but not limited to, laboratory equipment, electronic hardware, manufacturing machinery, maintenance equipment, and health and safety equipment), provided that uses of the installed or relocated items are consistent with the general missions of the receiving structure. Covered actions include modifications to an existing building, within or contiguous to a previously disturbed or developed area, that are necessary for equipment installation and relocation. Such modifications would not appreciably increase the footprint or height of the existing building or have the potential to cause significant changes to the type and magnitude of environmental impacts.

## *B2.5 Facility safety and environmental improvements*

Safety and environmental improvements of a facility (including, but not limited to, replacement and upgrade of facility components) that do not result in a significant change in the expected useful life, design capacity, or function of the facility and during which operations may be suspended and then resumed. Improvements include, but are not limited to, replacement/upgrade of control valves, in-core monitoring devices, facility air filtration systems, or substation transformers or capacitors; addition of structural bracing to meet earthquake standards and/or sustain high wind loading; and replacement of aboveground or belowground tanks and related piping, provided that there is no evidence of leakage, based on testing in accordance with applicable requirements (such as 40 CFR part 265, "Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities" and 40 CFR part 280, "Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks"). These actions do not include rebuilding or modifying substantial portions of a facility (such as replacing a reactor vessel).

*B4.6 Additions and modifications to transmission facilities*

Additions or modifications to electric power transmission facilities within a previously disturbed or developed facility area. Covered activities include, but are not limited to, switchyard rock grounding upgrades, secondary containment projects, paving projects, seismic upgrading, tower modifications, load shaping projects (such as the installation and use of flywheels and battery arrays), changing insulators, and replacement of poles, circuit breakers, conductors, transformers, and crossarms.

NRLFO Approval: 

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D. A. Delwiche

Date: 9 JAN 2020

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CX Determination Date