



U.S. Department of Energy

Categorical Exclusion Determination Form

Proposed Action Title: Building 510 Substation

Program or Field Office: SC-BHSO

Location(s) (City/County/State): Brookhaven National Laboratory (Upton, Suffolk County, New York)

Proposed Action Description:

This project is a continuation of the Building 510 upgrade to the electrical distribution system. This project involves the complete removal and upgrade of the existing Building 510 electrical substation equipment that feeds the newly replaced electrical distribution switchgear. It includes the removal of two medium voltage substation transformers, one medium voltage oil switch and medium voltage distribution cabling. The project also includes the installation of a new exterior substation with two new medium voltage transformers, one pad mounted medium voltage switchgear and medium voltage feeders in a new concrete encased duct bank. The new substation will be constructed in the north-loading dock parking lot, complete with new transformer and switchgear pads, grounding and crushed stone.

Completion of this project will greatly increase electric service reliability and resiliency, eliminating costly service interruptions and potential critical electrical system failures. It will minimize potential arc flash hazards and provide enhanced protection to operation and maintenance personnel.

Categorical Exclusion(s) Applied:

B1.16 – Asbestos removal

B1.17 – Polychlorinated biphenyl removal

B4.11 – Electric power substations and interconnection facilities

For the DOE procedures regarding categorical exclusions, including the full text of each categorical exclusion, see 10 CFR 1021.102 and Appendix B to [10 CFR Part 1021](#), and also Section 5.4 (Applying one or more categorical exclusions to a proposal) and Appendices B and C of [DOE's National Environmental Policy Act Implementing Procedures](#) (June 30, 2025).

Requirements and guidance in 10 CFR 1021.102 and DOE's NEPA Implementing Procedures: (See full text in regulation and in Implementing Procedures)

- ☒ The proposal fits within a class of actions that is listed in Appendix B to 10 CFR Part 1021 or Appendix B and C of DOE's NEPA Implementing Procedures (June 30, 2025).
To fit within the classes of actions listed in Appendix B to 10 CFR Part 1021, or Appendix B of DOE's NEPA Implementing Procedures, a proposal must satisfy the conditions that are integral elements of the classes of actions in Appendix B of both 10 CFR Part 1021 and DOE's NEPA Implementing Procedures.
- ☒ There are no extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal. DOE or an applicant may modify the proposal to avoid reasonably foreseeable adverse significant effects such that the categorical exclusion would apply.
- ☒ The proposal has not been segmented to meet the definition of a categorical exclusion.

[Note: For proposals that fit within the categorical exclusions listed in Appendix C of DOE's NEPA Implementing Procedures, see DOE's notice of adoption for the subject Appendix C categorical exclusion for additional considerations. DOE notices of adoption for other agency categorical exclusions may be found on [DOE's Section 109 webpage](#).]

Based on my review of the proposed action, as NEPA Compliance Officer, I have determined that the proposed action fits within the specified class(es) of action, the other requirements and guidance set forth above are met, and the proposed action is hereby categorically excluded from further NEPA review.

NEPA Compliance Officer:

Kathleen Green

Digitally signed by Kathleen Green
Date: 2026.09.24 13:25:36 -04'00'

Date Determined: 09/24/2026