

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

Bettis Atomic Power Laboratory

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

Bettis CMOSS Switchgear Electrical Power Upgrade and BMOSS Refeed Project

REFERENCE

10 CFR Part 1021, Department of Energy National Environmental Policy Act Implementation Procedures, Subpart D. Typical Classes of Actions.

PROJECT SCOPE DISCUSSION

The existing distribution system powering the Bettis site is a network of 13.2kV loops. The hub of this network is the 13.2kV switchgear (breakers) at the MOSS (Main Outdoor Substation) with some limited additional distribution at the BMOSS (B Main Outdoor Substation) switchgear and LCTF (Large Component Test Facility) switchgear. This system was designed in 1999 based on existing site conditions and building configurations with some room for expansion. However, the site has developed, and future development plans require an upgrade to the existing system. Some of the changes to the site power distribution system include installing switchgear at the CMOSS (C Area Main Outdoor Substation) and increasing the feeder size from CMOSS to BMOSS to make the site's power system more efficient and flexible to accommodate future site development. This project will also increase the capacity of the existing air switches in CMOSS which will simplify the replacement of the CMOSS transformers in the future.

The CMOSS Switchgear Electrical Power Upgrade and BMOSS Refeed Project supports shifting electrical loads due to current construction activities, future electrical capacity expansions, and upgrades various aspects of the power distribution system. The power distribution upgrades are made up of various projects to improve the Bettis electrical power distribution system so that additional loads and load shifts may be adequately supported. These upgrades support not only site modifications, but also provide additional operational and technical advantages. The project scope is planned to be phased in separate projects based on timing needs and funding availability. This specific portion of the upgrade scope includes modifications of the CMOSS and the BMOSS as well as select poles, feeders, switches and installation pathways. Two new medium voltage switch gear enclosures will be installed at the CMOSS which will require minor fence adjustments to encompass all newly installed equipment. Demolition and replacement of overhead conductors between CMOSS and BMOSS along with replacement of two tower mounted air switches.

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.

The 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 Bettis CMOSS Switchgear Electrical Power Upgrade and BMOSS Refeed Project is categorically excluded from additional NEPA documentation under 10 CFR 1021 Subpart D, Appendix B, B1.15, B1.23, B1.31, B4.11, and B4.13. The categorical exclusions that apply are the following:

B1.15 Support Buildings

Siting, construction or modification, and operation of support buildings and support structures (including, but not limited to, trailers and prefabricated and modular buildings) within or contiguous to an already developed area (where active utilities and currently used roads are readily accessible). Covered support buildings and structures include, but not limited to, those for office purposes; parking, cafeteria services; education and training; visitor reception; computer and data processing services; health services or recreational activities; routine maintenance activities; storage of supplies and equipment for administrative services and routine maintenance activities; security (such as security posts); fire protection; small-scale fabrication (such as machine shop activities), assembly, and testing of non-nuclear equipment or components; and similar support purposes, but exclude facilities for nuclear weapons activities and waste storage activities, such as activities covered in B1.10, B1.29, B1.35, B2.6, B6.2, B6.4, B6.5, B6.6, and B6.10 of this appendix.

B1.23 Demolition and Disposal of Buildings

Demolition and subsequent disposal of buildings, equipment, and support structures (including, but not limited to, smoke stacks and parking lot surfaces), provided that there would be no potential for release of substances at a level, or in a form, that could pose a threat to public health or the environment.

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.

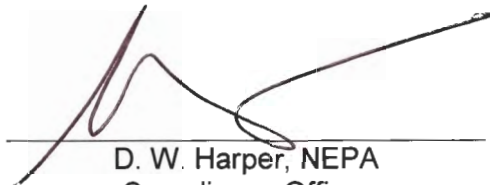
B4.11 Electric Power Substations and Interconnection Facilities

Construction or modification of electric power substations or interconnection facilities (including, but not limited to, switching stations and support facilities).

B4.13 Upgrading and Rebuilding Existing Powerlines

Upgrading or rebuilding existing electric powerlines, which may involve relocations of small segments of the powerlines within an existing powerline right-of-way or within otherwise previously disturbed or developed lands (as discussed at 10 CFR 1021.410(g)(1)). Upgrading or rebuilding existing electric powerlines also may involve widening an existing powerline right-of-way to meet current electrical standards if the widening remains within previously disturbed or developed lands and only extends into a small area beyond such lands as needed to comply with applicable electrical standards. Covered actions would be in accordance with applicable requirements, including the integral elements listed at the start of appendix B of this part; and would incorporate appropriate design and construction standards, control technologies, and best management practices. This categorical exclusion does not apply to underwater powerlines. As used in this categorical exclusion, "small" has the meaning discussed at 10 CFR 1021.410(g)(2).

NRLFO Approval:



D. W. Harper, NEPA
Compliance Officer

Date:

12/13/2024

CX Determination Date