

# DOE-ID NEPA CX DETERMINATION Idaho National Laboratory

## SECTION A. Project Title: M42 & M43 Diesel Generator Replacement Affecting the Area West of 609

## SECTION B. Project Description and Purpose:

As part of the ATR electrical system upgrades, the 670 -M-42 & M-43 Diesel Generators (50 yrs old) are to be replaced and relocated to the area west of 609. The equipment needs to be replaced due to age, wear, and eroding Original Equipment Manufacturing (OEM) support. These upgrades will allow for renewed maintenance and support.

- 34288 - Enterprise Backup Generators M-42 / M-43 - The M-42 & 43 Emergency Generators are over 30 years old needs to be replaced due to end of life. The new diesel generator systems will be installed on poured concrete foundations. These foundations will involve excavating, grading, grounding, and ductwork connections. Most likely the fuel tanks will be integral to the diesel unit unless the design firm finds in more beneficial to have exterior satellite tanks. If that is the case those tanks will also have concrete foundations. There will be new cabling and potentially new conduits ran from the designated area back to TRA-670.

The project will be affecting the area outlined in red. This included the buildings to house the diesel generator system and any conduit/vault excavations.



## SECTION C. Environmental Aspects or Potential Sources of Impact:

### Air Emissions

Project has the potential to create fugitive dust. Replacement of diesel generators will have been considered a modification to stationary source, but is consistent with the scope of the facility wide FEC-PTC, Per-152.

### Discharging to Surface-, Storm-, or Ground Water

Area is currently unpaved. the new structures could change discharge routes.

### Disturbing Cultural or Biological Resources

Biological: There is the potential for this work to impact vegetation and for project personnel to interact with various wildlife species. A nesting bird survey is required prior to the initiation of activities that might disturb soil or vegetation for activities taking place between April 1st and October 1st.

### Generating and Managing Waste

When waste is generated, how it is disposed of can adversely affect the environment. Managing waste appropriately and responsibly and implementing recycling or reuse practices, where feasible, during project activities can reduce the potential impact on the environment.

**DOE-ID NEPA CX DETERMINATION  
Idaho National Laboratory**

Polychlorinated Biphenyl (PCB) waste could be generated when performing maintenance on, replacing, or performing D&D on equipment manufactured before 1982. Such equipment and associated materials include but are not limited to capacitors, lubricants/dielectric fluids, transformers and bushings, light fixtures, electric motors, pumps, voltage regulators, other equipment/components that contain oil, and oil associated with electrical conduit/cable.

**Releasing Contaminants**

When chemicals are used during the project there is the potential for spills that could impact the environment (air, water, soil).

**Using, Reusing, and Conserving Natural Resources**

Project description indicates materials that will need to be purchased or used that require sourcing materials from the environment. Being conscientious about the types of materials used could reduce the impact on our natural resources.

**DOE-ID NEPA CX DETERMINATION**  
**Idaho National Laboratory**

**SECTION D. Determine Recommended Level of Environmental Review, Identify Reference(s), and State Justification:** Identify the applicable categorical exclusion from 10 Code of Federal Regulation (CFR) 1021, Appendix B, give the appropriate justification, and the approval date.

For Categorical Exclusions (CXs), the proposed action must not: (1) threaten a violation of applicable statutory, regulatory, or permit requirements for environmental, safety, and health, or similar requirements of Department of Energy (DOE) or Executive Orders; (2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment or facilities; (3) disturb hazardous substances, pollutants, contaminants, or Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)-excluded petroleum and natural gas products that pre-exist in the environment such that there would be uncontrolled or unpermitted releases; (4) have the potential to cause significant impacts on environmentally sensitive resources (see 10 CFR 1021). In addition, no extraordinary circumstances related to the proposal exist that would affect the significance of the action. In addition, the action is not "connected" to other action actions (40 CFR 1508.25(a)(1) and is not related to other actions with individually insignificant but cumulatively significant impacts (40 CFR 1608.27(b)(7)).

**References:**

B2.5 "Facility safety and environmental improvements"

**Justification:**

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).

Is the project funded by the American Recovery and Reinvestment Act of 2009 (Recovery Act)       Yes     No

Approved by Jason L. Anderson, DOE-ID NEPA Compliance Officer on: 9/25/2023