

# DOE-ID NEPA CX DETERMINATION

## Idaho National Laboratory

**SECTION A. Project Title:** B27-601 and B8-601 Emergency Generator Replacement

**SECTION B. Project Description and Purpose:**

The emergency generators located in buildings B27-601 (near Guard Gate #1) and B8-601 (near Guard Gate #4) are no longer operating and need to be replaced. Both generators are O'Brien model OB 30K-DW61 generators with 61 horsepower Cummins model 4B-3.9 diesel engines. The generator in building B27-601 has not operated since the 2007 timeframe, and the B8-601 generator was reactivated in 2014; however, it recently stopped working, and repairs are not practical. These generators supply power to the nearby guardhouses (B27-602 and B8-602) during loss of commercial power. The proposed project would replace the generators with two Cummins C30 D6, 30kW, 60HZ, diesel gensets powered by Cummins model 4BT3.3-G5 (50 hp full standby) diesel engines. The new generators would be wired to the distribution system, tie into the stacks and use the current diesel tanks for fuel storage and supply. The proposed action would take place during spring and summer 2016. Approximate Cost is \$50,000.

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

### Air Emissions

The new emergency generator engines are stationary sources that will emit combustion air pollutants (NO<sub>x</sub>, CO, SO<sub>2</sub>, PM, PM<sub>10</sub>, Ozone [VOC's]) when operating. These engines will be considered emergency engines because they will provide backup power to the guard houses (B27-602 and B8-602) when there is a loss of commercial power. These engines will also run during maintenance checks and readiness testing. An Air Permitting Applicability Determination (APAD) will be prepared for these engines documenting permitting exemptions and operational requirements.

### Generating and Managing Waste

Non-hazardous waste such as packaging material, scrap metal, rags, scrap wire, etc., will be generated while installing the generators. The old generators will be sent to Excess Property. Scrap metal/wire will be separated for recycle where practical.

### Releasing Contaminants

Air pollutants will be released while the emergency generators operate (See Air Emissions above). The generators will burn ultra-low-sulfur diesel fuel (ULSD) which will be obtained through the Idaho National Laboratory (INL's) fuel contract. The B27-601 generator fuel tank will need to be filled due to lack of use but the B8-601 tank currently has ULSD in it. Lubricants, fuels, engine maintenance products, etc., will be used and tracked through the INL Comply Plus Chemical Management System.

### Using, Reusing, and Conserving Natural Resources

Scrap metal/wire will be separated for recycle where practical.

**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 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:** 10 CFR 1021, Appendix B to Subpart D, B1.31 "Installation or relocation of machinery and equipment."

**Justification:** The proposed action is consistent with categorical exclusion B1.31 "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 the 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."

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

Approved by Jack Depperschmidt, DOE-ID NEPA Compliance Officer on: 3/2/2016