

DOE-ID NEPA CX DETERMINATION

Idaho National Laboratory

SECTION A. Project Title: Street Lighting at NRF & INTEC Intersections with Lincoln Blvd

SECTION B. Project Description and Purpose:

Establish a set of streetlights at the intersections of Lincoln Road/INTEC entrance, and at the Lincoln Road/NRF "Y" that will provide sufficient illumination to drivers to help them better see the turnoffs. There will be two different types of streetlights.

The INTEC entrance will use streetlights on wooden poles that are powered by the electrical grid. For the NRF "Y," each individual solar streetlight will include a light pole that holds a battery, solar panel and light. Both sets of lights will improve safety at the intersections. Currently it is difficult to see the turnoff areas in the dark, especially in foggy conditions.

Various new energy system technologies are being proposed for demonstration at the INL, of which the solar streetlights are a part. The solar streetlights are a departure from the current streetlights which are connected to the National Laboratories drive to Net-Zero. Each solar light will be powered with a combination of solar panels and a battery array.

Utilize the existing wood poles at the INTEC entrance for new streetlights, plus two more (total of seven) and connect them to the electric grid. Two existing poles will be removed from the west side of the Lincoln/Cleveland intersection and placed to the north of the intersection. A Notice of Site Disturbance may be required for this portion of the project. The area the work will be done is within CERCLA Site Code: CPP-95.

Each of the solar lights at the NRF "Y," will be placed ~200' apart and will be self-supported with the battery equipment and solar panels controlling each individual light. Each solar unit is self-contained with a smart battery controller system in every battery array. This system controls the timing of the light, charge state of the batteries and maintains the condition of the batteries. 18 new solar street assemblies will be installed at the NRF "Y."

INTEC & Lincoln Boulevard



See above for light pole locations at INTEC & Boulevard (Pins indicate pole locations).

NRF "Y" with Lincoln Boulevard



See above for light pole locations at NRF "Y".

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

SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions

Generating fugitive dust or other fugitive emissions. Emissions from combustions engines

Discharging to Surface-, Storm-, or Ground Water

NA

Disturbing Cultural or Biological Resources

There is the potential for this work to impact vegetation and for project personnel to interact with various wildlife species. A Biological Resource Review will be arranged within two weeks prior to the initiation of any activities that might disturb soil or vegetation and again following completion of project activities. A nesting bird survey is included with the Biological Resource Review for actions occurring between April 1 - October 1 per compliance with the Migratory Bird Treaty Act. Bat surveys are also included with the Biological Resource Review in accordance with the INL Bat Protection Plan.

Please refer to CRR BEA-23-06 for guidance regarding cultural resources.

Generating and Managing Waste

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

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 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 to our natural resources.

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: 04/05/2023