

SECTION A. Project Title: IRC-602 West Parking Lot Replacement with Lighting & EV Chargers

SECTION B. Project Description and Purpose:
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Mission Need

Due to degrading asphalt and poor visibility in the IRC-602 parking lot it has been determined that the parking asphalt needs to be replaced, and light poles added to address safety concerns. Additionally, Electric Vehicle (EV) chargers are to be added for fleet vehicles in which there are no EV chargers in the parking lot to accommodate the electric vehicles.

Project Description

Remove and dispose of the existing asphalt in the IRC 602 West Parking Lot and IRC 605 Laydown Yard, install 9 light poles in IRC 602 West Parking Lot, install 6 Electrical Vehicle (EV) Charging Stations in IRC 602 West Parking Lot, backfill and compact, pave the IRC 602 West Parking Lot and the IRC 605 Laydown Yard with two lifts of asphalt to achieve 4" thick covering, and re-paint stripes for parking and pedestrian traffic in parking lot area.

Construction Activities:

- Demo and dispose of 11,938 square yards (sy) of asphalt and 137sy of curb & gutter from IRC-602 West Parking Lot and IRC-605 Laydown Yard
- Remove IRC-605 Laydown Yard fence and retain for re-installation
- Grub unpaved IRC-605 Laydown Yard area and prep for asphalt
- Excavate necessary trenches for routing conduits in IRC-602 West Parking Lot
- Install nine 25' poles with 10 cubic yards of concrete for bases and 2 fixtures on each pole with independent photo-controllers.
- Install 6 dual port EV chargers at the northeast corner of the IRC- 602 West Parking Lot to provide 12 EV parking spaces.
- Install electrical infrastructure and tie into Northeast exterior utility transformer of IRC-602 Parking Lot.
- 2 each 400A 208/120V Panels
- 2 each 225A 3 Pole Breakers
- 12 each 100A 2 Pole Breakers
- 8 each 20A 1 Pole Breakers
- 3 each 15A 1 Pole Breakers
- 40 each 1 5/8" Framing Channels
- 10 each Unistrut Brackets
- 2 each 4-Hole Post Bases
- 8 each Concrete Anchors
- 1200 liner feet of 1" PVC Conduit and wire
- 1200 liner feet of 1 ½" PVC Conduit and wire
- 350 liner feet of 3" EMT Conduit and wire
- Backfill and compact trenches in IRC-602 West Parking Lot
- Install 192 liner feet of 6" concrete curb and 150 liner feet of concrete sidewalk at IRC-602 West Parking Lot
- Pave IRC-602 West Parking Lot and IRC-605 Laydown Yard area with two lifts of asphalt to achieve 4" thick covering
- Paint stripes and pedestrian traffic lines for IRC-602 West Parking Lot
- Re-install IRC-605 Laydown Yard area fence

SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions

Project excavation activities have the potential for generating fugitive dust.

Discharging to Surface-, Storm-, or Ground Water

The IRC facility is located within an area that has potential to discharge to waters of the United States.

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.

Cultural: A Section 106 review for the IRC-602 West Parking Lot Replacement with Lighting & EV Chargers was completed under CRMO project number BEA-25-055 and resulted in no historic properties affected.

Generating and Managing Waste

Non-hazardous debris waste such as asphalt, concrete, soil, rock, RCRA empty striping paint containers and marking paint cans may be generated on the project.

Releasing Contaminants

Typical construction chemicals such as asphalt, oil, fuels, striping paint, lubricants, etc. will be used during the project. Spills may occur from these chemicals.

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.

Environmental Justice

NA

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: B1.3 "Routine maintenance", B2.5 "Facility safety and environmental improvements", B5.23 "Electric vehicle charging stations"

Justification: Based on the purpose and need and description of the proposed action and potential environmental impacts, the proposed action fits within the class of actions that is listed in Appendix B CX B1.3, B2.5 and B5.23. There are no extraordinary circumstances related to the proposed action that may affect the significance of the environmental effects of the proposal (10 CFR 1021.410(b)(2)). The proposed action has not been segmented to meet the definition of a categorical exclusion (10 CFR 1021.410(b)(3)). This proposal is not connected to other actions with potentially significant impacts, is not related to other actions with individually insignificant but cumulatively significant impacts, and is not precluded by 10 CFR 1021.211 concerning limitations on actions during preparation of an environmental impact statement (10 CFR 1021.410(b)(3)).

DOE-ID NEPA CX DETERMINATION
Idaho National Laboratory

Page 3 of 3

CX Posting No.: DOE-ID-INL-25-016

Authorizing the proposed action will not (1) threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, including DOE and/or Executive orders; (2) require siting of new facilities or expansion of existing facilities; (3) disturb hazardous substances, pollutants, or contaminants; (4) adversely affect environmentally sensitive resources; or (5) involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species.

B1.3 Routine maintenance. Routine maintenance activities and custodial services for buildings, structures, rights-of-way, infrastructures (including, but not limited to, pathways, roads, and railroads), vehicles and equipment, and localized vegetation and pest control, during which operations may be suspended and resumed, provided that the activities would be conducted in a manner in accordance with applicable requirements. Custodial services are activities to preserve facility appearance, working conditions, and sanitation (such as cleaning, window washing, lawn mowing, trash collection, painting, and snow removal). Routine maintenance activities, corrective (that is, repair), preventive, and predictive, are required to maintain and preserve buildings, structures, infrastructures, and equipment in a condition suitable for a facility to be used for its designated purpose. Such maintenance may occur as a result of severe weather (such as hurricanes, floods, and tornados), wildfires, and other such events. Routine maintenance may result in replacement to the extent that replacement is in-kind and is not a substantial upgrade or improvement. In-kind replacement includes installation of new components to replace outmoded components, provided that the replacement does not result in a significant change in the expected useful life, design capacity, or function of the facility. Routine maintenance does not include replacement of a major component that significantly extends the originally intended useful life of a facility (for example, it does not include the replacement of a reactor vessel near the end of its useful life). Routine maintenance activities include, but are not limited to: (a) Repair or replacement of facility equipment, such as lathes, mills, pumps, and presses; (b) Door and window repair or replacement; (c) Wall, ceiling, or floor repair or replacement; (d) Reroofing; (e) Plumbing, electrical utility, lighting, and telephone service repair or replacement; (f) Routine replacement of high-efficiency particulate air filters; (g) Inspection and/or treatment of currently installed utility poles; (h) Repair of road embankments; (i) Repair or replacement of fire protection sprinkler systems; (j) Road and parking area resurfacing, including construction of temporary access to facilitate resurfacing, and scraping and grading of unpaved surfaces; (k) Erosion control and soil stabilization measures (such as reseeded, gabions, grading, and revegetation); (l) Surveillance and maintenance of surplus facilities in accordance with DOE Order 435.1, "Radioactive Waste Management," or its successor; (m) Repair and maintenance of transmission facilities, such as replacement of conductors of the same nominal voltage, poles, circuit breakers, transformers, capacitors, crossarms, insulators, and downed powerlines, in accordance, where appropriate, with 40 CFR part 761 (Polychlorinated Biphenyls Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions) or its successor; (n) Routine testing and calibration of facility components, subsystems, or portable equipment (such as control valves, in-core monitoring devices, transformers, capacitors, monitoring wells, lysimeters, weather stations, and flumes); (o) Routine decontamination of the surfaces of equipment, rooms, hot cells, or other interior surfaces of buildings (by such activities as wiping with rags, using strippable latex, and minor vacuuming), and removal of contaminated intact equipment and other material (not including spent nuclear fuel or special nuclear material in nuclear reactors); and (p) Removal of debris.

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).

B5.23 Electric vehicle charging stations. The installation, modification, operation, and removal of electric vehicle charging stations, using commercially available technology, within a previously disturbed or developed area. Covered actions are limited to areas where access and parking are in accordance with applicable requirements (such as local land use and zoning requirements) in the proposed project area and would incorporate appropriate control technologies and best management practices.

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

Approved by Robert Douglas Herzog, DOE-ID NEPA Compliance Officer on: 4/29/2025