

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

SECTION A. Project Title: Cell Site #6 Expansion, Revision 3

SECTION B. Project Description and Purpose:

Revision 3:

This Idaho National Laboratory (INL) project involves the purchase of three (3) items for the USG 130 sponsor. The items include: (1) Mobile Restroom Trailer, (1) Mobile Breakroom Trailer, and (1) Tier 4 Mobile Deisel Generator. These items will be used by the USG 130 sponsor to support their research and testing activities primarily at the Cell Site #6 Test Bed (ARA-751). The items will be owned by USG 130 and are subject to being relocated at their discretion, as deemed necessary by the sponsor.

Final specifications for the restroom and breakroom trailer are not known at this time; however, a range is provided:

- (1) Mobile Restroom Trailer will range from 12' to 24' Long.
- (2) Mobile Breakroom Trailer will range from 12' to 24' Long.
- (3) Mobile Generator shall be model #DCA150SSJU4F3. Figure 1, Rev 3: Example Mobile Restroom Trailer

Figure 1, Rev 3: Example Mobile Restroom Trailer



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Figure 2, Rev 3: Example Mobile Breakroom trailer



Revision 2:

This revision of the Idaho National Laboratory (INL) Cell Site 6 (CS6) expansion at the Critical Infrastructure Test Range (CITRC) includes the following installations:

- Two (2) 50' tall wooden power poles to the east of existing pole 56-46-23. The first pole will be placed approximately 35' to the east and the second pole approximately 85' to the east.
- A 10kva pole mount transformer will be installed at the top of pole 56-46-23 and triplex power conductors routed to the first power pole. A conduit mast and weather head will be fastened to this power pole and terminated to a 100-amp panel mounted at a comfortable working level near the base of the pole. Power pole 56-46-23 and the first new power pole to the east will each require back guys to support the tension caused from the overhead triplex.
- A single RGS conduit and associated conductors will be routed from the 100-amp panel to the second wooden pole. Concrete blocks will be used to support the conduit between the poles. The conduit will be terminated to a 4-plex outdoor rated 120V receptacle mounted at a comfortable working level near the base of the second pole. Sponsor owned communications equipment will be mounted to this wooden pole.

In an effort to fully utilize the CS6 test bed capabilities, additional Sponsor owned equipment will need to be installed north of the test bed as part of Sponsor research and development activities. BEA Power Management and a local subcontractor will install components per the design documents.

Waste may include typical construction chemicals such as fuels, lubricants, adhesives, paints, etc.

Figure 1, Rev 2: Location of new poles and transformer



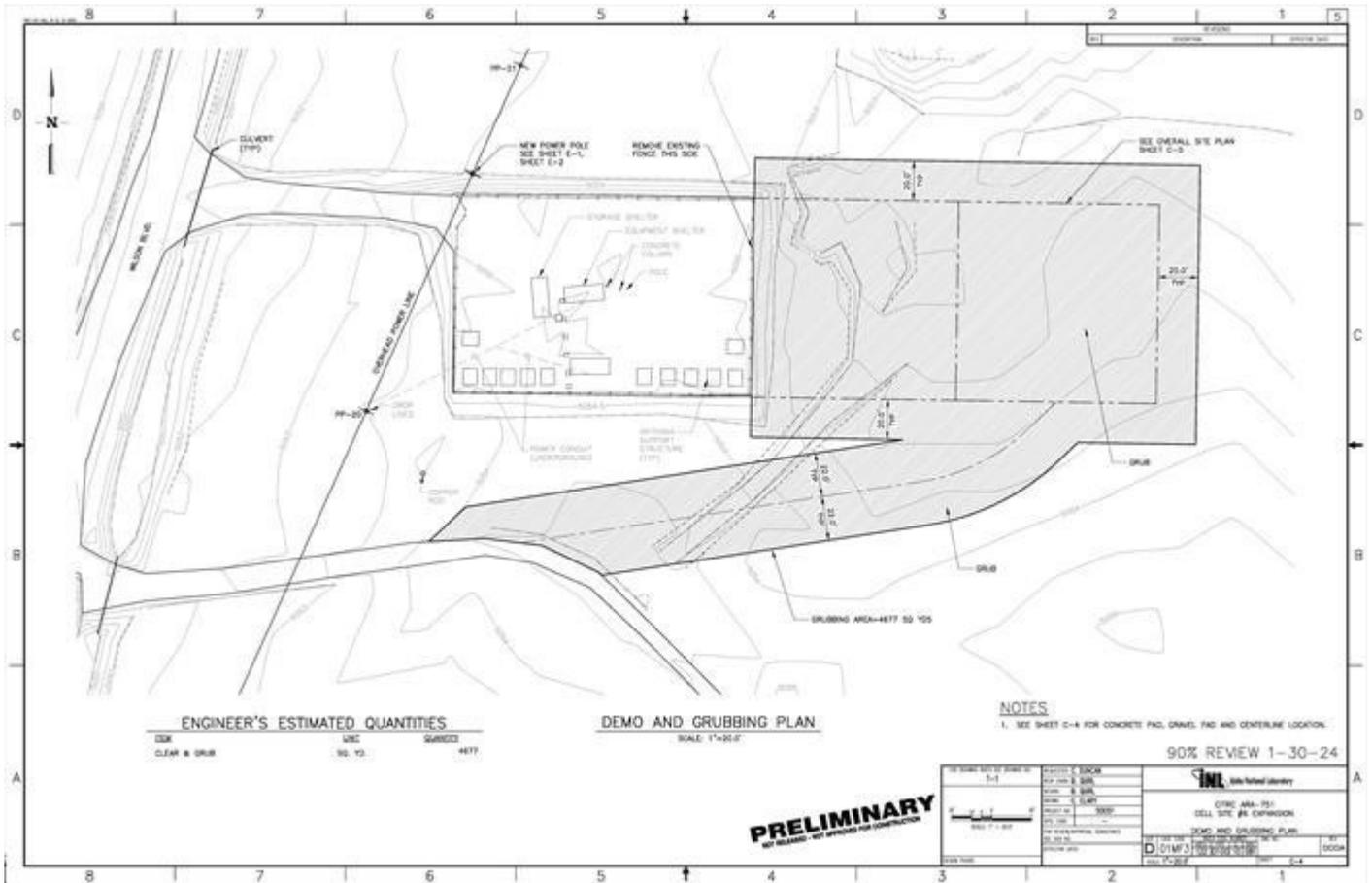
Revision 1:

This revision of the Idaho National Laboratory (INL) Cell Site 6 expansion at the Critical Infrastructure Test Range Complex (CITRC) includes an updated site layout for Cell Site 6 based on the 90% design review.

- The grubbing plan will include 20' around the 100' pad and 22' around the secondary road.
- Excavation trench for electrical (portion outside of existing gravel pad).
 - Clarification on additional gravel layout area 100' beyond the concrete pad/gravel area (Total 200' expansion + grade).

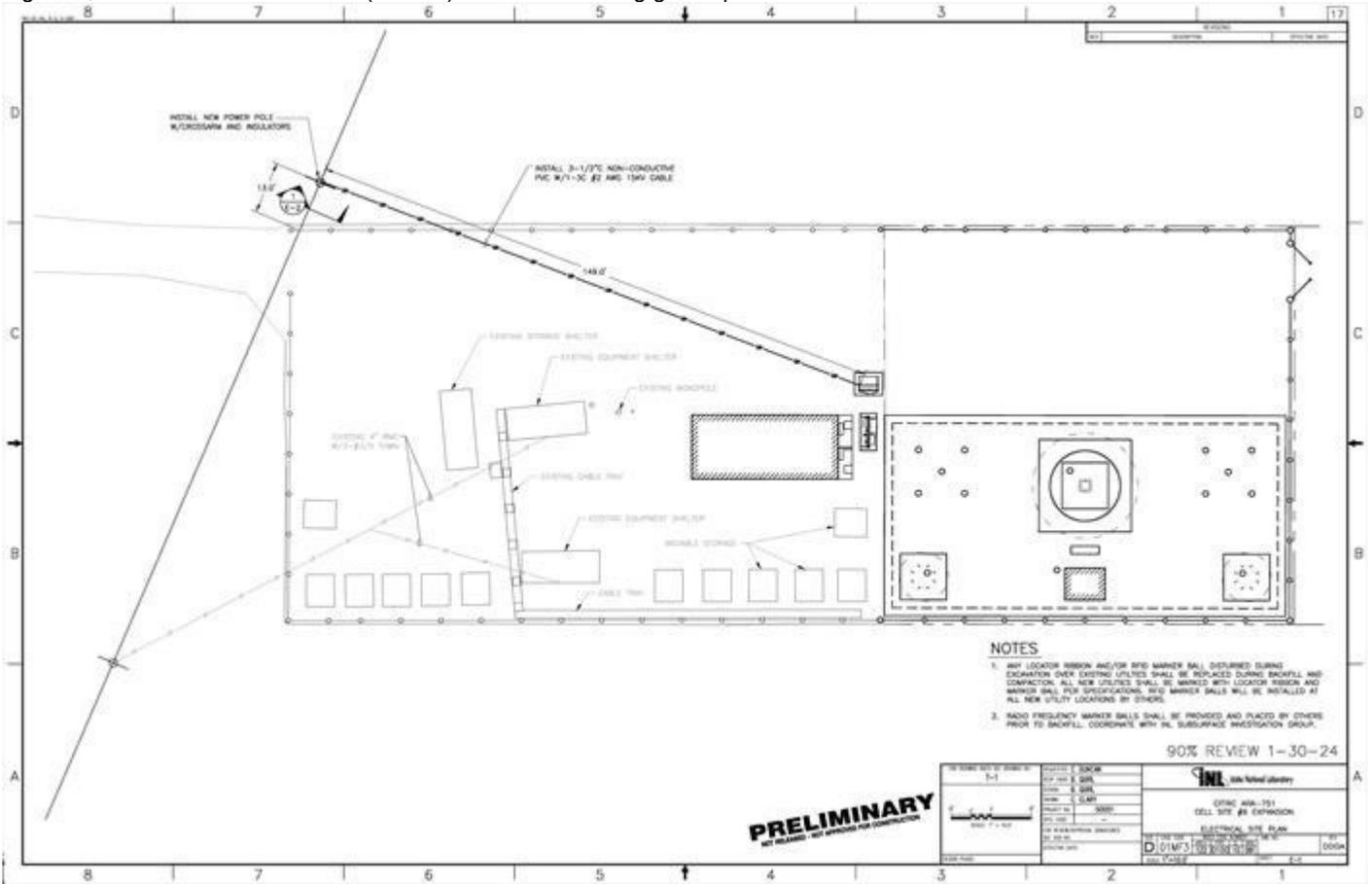
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Figure 1, Rev 1: Grubbing plan (additional 20' around the gravel area and 22' for the road).



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Figure 2, Rev 1: Excavation trench (electric) outside of existing gravel pad.



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Figure 3, Rev 1: Pad Section

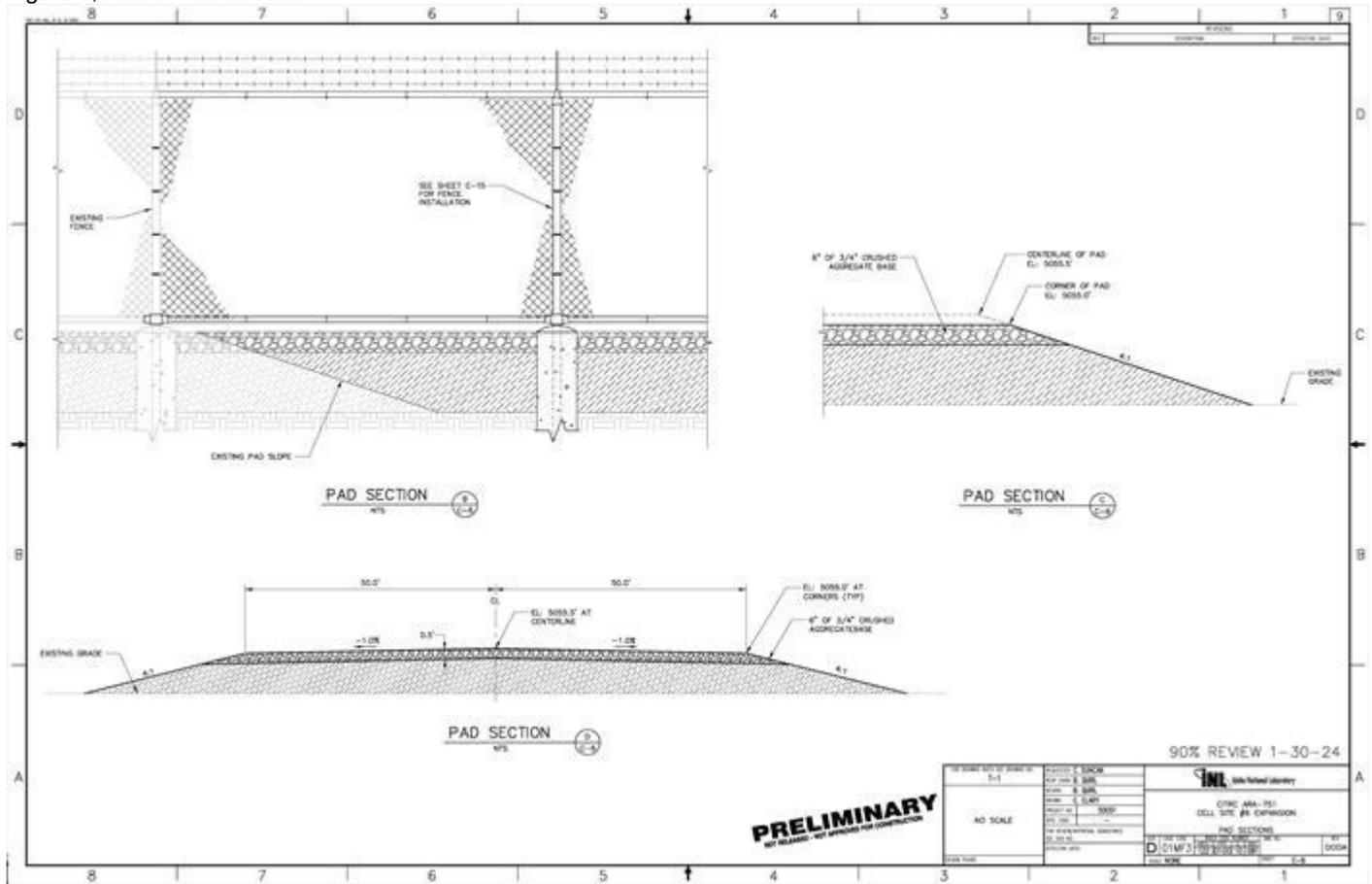


Figure 4, Rev. 1: Example of graded area



Original ECP:

An N&HS Sponsor requires a remote communications facility for testing and training at Cell Site 6 - INL/CITRC/ARA (43032'00"N 112049'50"W).

The work activity includes the following:

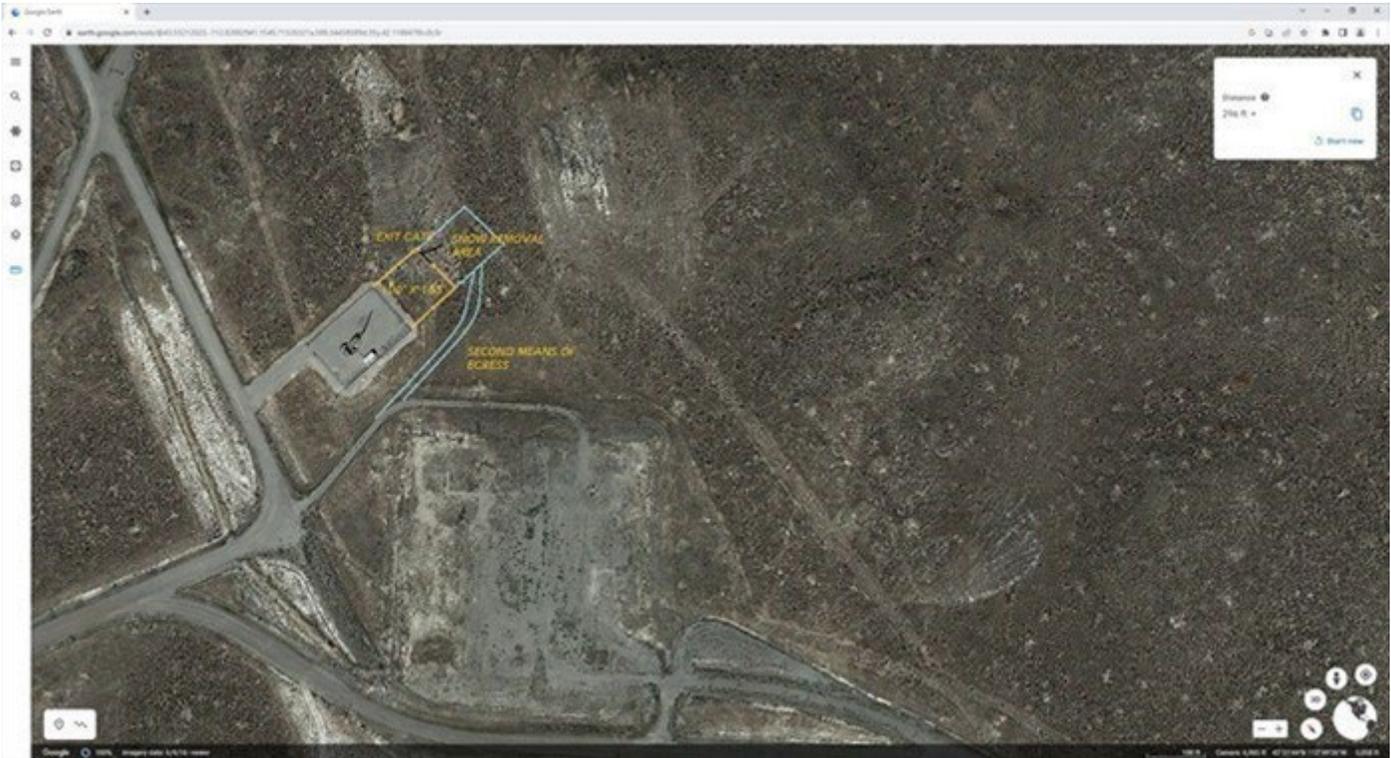
- Extend the existing gravel pad and security fence 100' to the East and provide a vehicle gate
- Install new concrete pads for communications equipment
- Provide electrical power to equipment, shelters, restrooms, and all necessary component
- Provide a portable restroom trailer
- Provide grounding for all new installations
- Provide communication and network connections
- Provide an ISO shelter approximately 16' x 40

Construction activities will have the potential to generate fugitive dust emissions.

Clearing & grubbing of vegetation east of the existing cell site will be required, along with extension of secondary road for egress. Two track roads will be utilized and extend the old ARA-III emergency access road for a secondary means of egress. Waste generation will include industrial waste including concrete and rebar demolition debris, scrap metal, and electronic components could be generated. Construction chemicals such as paint, fuels, lubricants, adhesives, etc., will be used during the project and for the emergency generator.

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Figure 1, Original: Expansion Area



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Figure 2, Original: CERCLA



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SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions

Rev 3: Fossil fuel combustion emissions are anticipated from the 150 kVA (~190HP) mobile generator.

Rev 0-2: Air Emissions – Construction activities will have the potential to generate fugitive dust.

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.

Cultural: Pursuant to the 2023 Programmatic Agreement, this federal undertaking is excluded from project specific SHPO consultation and the proposed activity results in no historic properties affected.

Generating and Managing Waste

Rev 3: No waste will be associated with this revision.

Rev 0-2: Construction chemicals such as paint, fuels, lubricants, adhesives, etc., will be used during the project.

Releasing Contaminants

Rev 3: No chemicals will be associated with this revision.

Rev 0-2: 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

NA

Environmental Justice

NA

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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: B1.15 "Support buildings", B3.6 "Small-scale research and development, laboratory operations, and pilot projects", B4.13 "Upgrading and rebuilding existing powerlines"

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 B1.15, B3.6 and B4.13. There are no extraordinary circumstances related to the proposed action that may affect the significance of the environmental effects of the proposal. The proposed action has not been segmented to meet the definition of a categorical exclusion. This proposal is not connected to other actions with potentially significant impacts (40 CFR 1508.25(a)(1)), is not related to other actions with individually insignificant but cumulatively significant impacts (40 CFR 1508.27(b)(7)) and is not precluded by 40 CFR 1506.1 or 10 CFR 1021.211 concerning limitations on actions during preparation of an environmental impact statement.

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.

B1.15 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 are not limited to, those for office purposes; parking; cafeteria services; education and training; visitor reception; computer and data processing services; health services or recreation 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.

B3.6 Small-scale research and development, laboratory operations, and pilot projects. Siting, construction, modification, operation, and decommissioning of facilities for small-scale research and development projects; conventional laboratory operations (such as preparation of chemical standards and sample analysis); and small-scale pilot projects (generally less than 2 years) frequently conducted to verify a concept before demonstration actions, provided that construction or modification would be within or contiguous to a previously disturbed or developed area (where active utilities and currently used roads are readily accessible). Not included in this category are demonstration actions, meaning actions that are undertaken at a scale to show whether a technology would be viable on a larger scale and suitable for commercial deployment.

B4.13 Upgrading and rebuilding existing powerlines. Upgrading or rebuilding approximately 20 miles in length or less of existing electric powerlines, which may involve minor relocations of small segments of the powerlines.

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: 02/14/2025