

DOE-ID NEPA CX DETERMINATION

Idaho National Laboratory

SECTION A. Project Title: Fiscal Year (FY)-14 Wireless Test Bed Fiber Optic Cable to Gate 1 and Experimental Breeder Reactor-I (EBR-I) Cell Sites

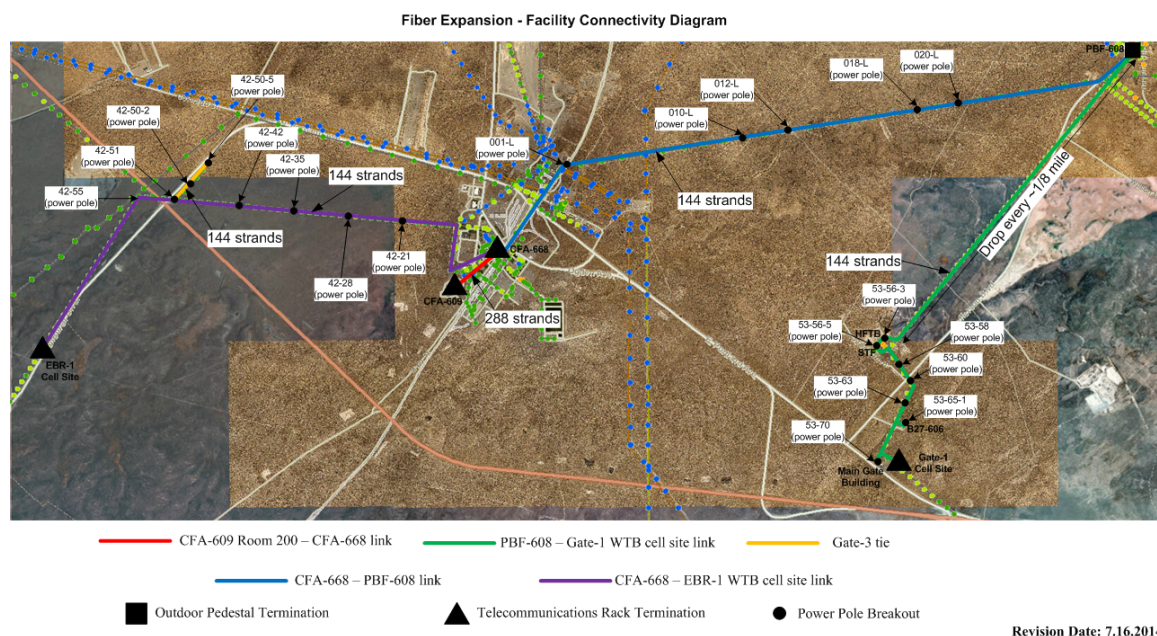
SECTION B. Project Description:

The purpose of this work is to install new fiber optic cable to support new wireless technology (4G) which will not work as well on existing microwave backhaul technology. Future projects using the new cable will be separately documented.

New fiber optic cables would be installed between the Idaho National Laboratory (INL) Gate 1 Cell Site and Central Facilities Area (CFA)-668 (via Critical Infrastructure Test Range Complex [CITRC]), EBR-I Cell Site and CFA-668, and CFA-609 and CFA-668. The cables would be routed on existing power poles from outlying areas to the CFA area and then use existing underground raceway through the CFA area. Cables would be terminated at the buildings and at intermediate patch panels mounted on power poles. Additional pole guy anchors and cables may be necessary for the existing poles. Minor conduit installation may be necessary to connect to existing underground raceways. Installation of new power poles is not anticipated but may be required.

This would be concluded by the end of FY-14 at a cost of about \$1M.

A map showing the proposed route is shown below:



SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions - Minor amounts of air emissions from mobile and portable sources such as vehicles and portable electrical generators are anticipated. It is unlikely, but possible the work may generate fugitive road dust. Steps taken to control fugitive dust, such as water spray, will be documented in project records in accordance with Title V Air Permit requirements.

Disturbing Biological or Cultural Resources - Trucks used during cable deployment and installation will be operated under the power lines within the generally-observed right-of-way. In addition, installation of additional guy-wires and anchors may require vehicle travel outside of the power line footprint. Areas which may be disturbed by vehicles or subject to ground disturbance from guy wire or anchor installation will be subject to both cultural and biological reviews prior to disturbance. Recommendations made by cultural and biological personnel will be implemented and cultural resource monitoring may be necessary in the CITRC area during ground disturbance. Disturbed area may require revegetation which can be a multi-year commitment.

Generating and Managing Waste - Small amounts of industrial waste are anticipated. Waste streams may include scrap cable, adhesives, and related material. Scrap metal, such as conduit, will be recycled. All Solid Waste will be managed by Waste Generator Services (WGS).

Using, Reusing, and Conserving Natural Resources - All applicable waste will be diverted from disposal in the landfill when possible. Project personnel will use every opportunity to recycle, reuse, and recover materials and divert waste from the landfill when possible. The project will practice sustainable acquisition, as appropriate and practicable, by procuring construction materials that are energy efficient, water efficient, are bio-based in content, environmentally preferable, non-ozone depleting, have recycled content, and are non-toxic or less-toxic alternatives. New equipment will meet either the Energy Star or Significant New Alternatives Policy (SNAP) requirements as appropriate (see <http://www.sftool.gov/GreenProcurement/ProductCategory/14>).

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SECTION D. Determine the Recommended Level of Environmental Review (or Documentation) and Reference(s): Identify the applicable categorical exclusion from 10 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 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 Code of Federal Regulations (CFR) 1021, Appendix B, B4.7 Fiber optic cable and B4.6 Additions and modifications to transmission facilities

Justification: Project activities are consistent with CX B4.7--"Adding fiber optic cables to transmission facilities or burying fiber optic cable in existing powerline or pipeline rights-of-way. Covered actions may include associated vaults and pulling and tensioning sites outside of rights-of-way in nearby previously disturbed or developed areas" and CX B4.6, "Additions or modifications to electric power transmission facilities within a previously disturbed or developed facility area. Covered activities include, but are not limited to, switchyard rock grounding upgrades, secondary containment projects, paving projects, seismic upgrading, tower modifications, load shaping projects (such as the installation and use of flywheels and battery arrays), changing insulators, and replacment of poles, circuit breakers, conductors, transformers, and crossarms."

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: 8/4/2014