

DOE-ID NEPA CX DETERMINATION Idaho National Laboratory

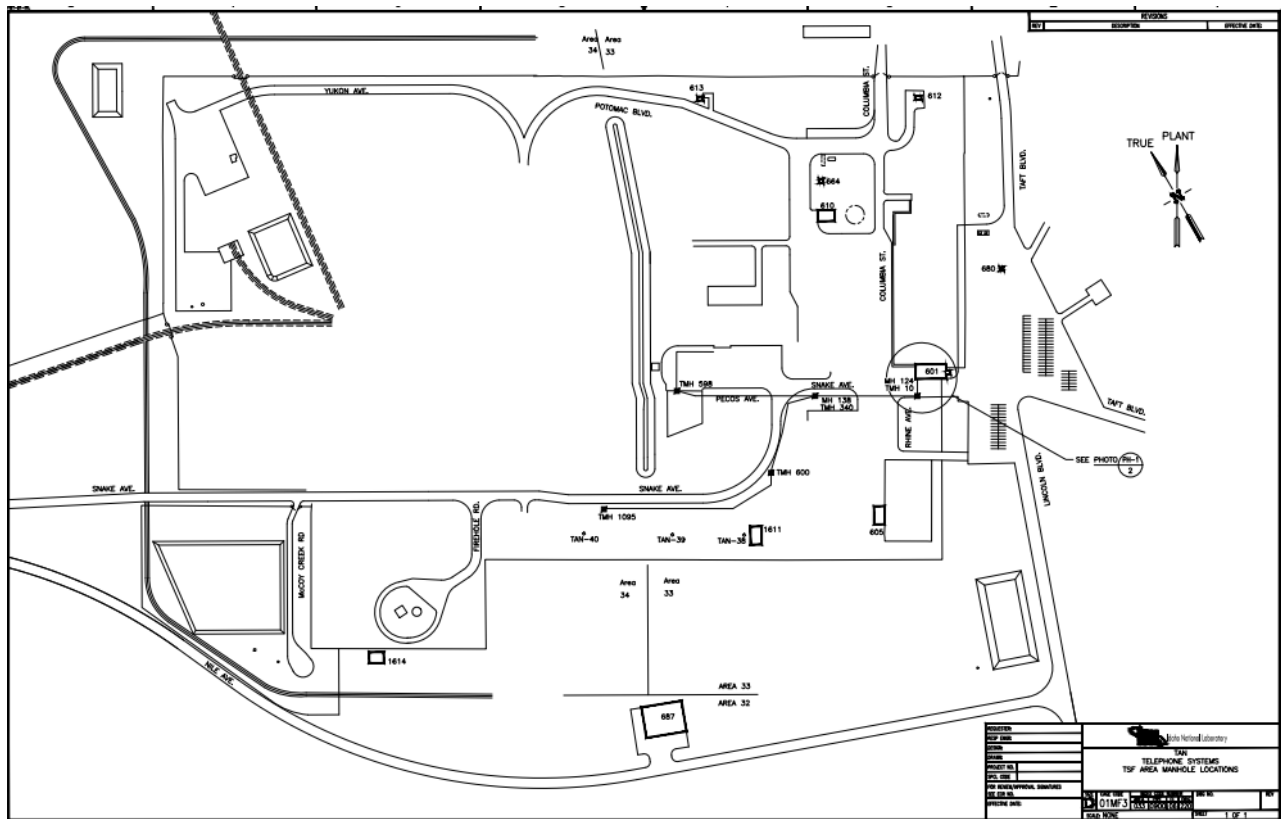
SECTION A. Project Title: INL Telecommunication Transport Services – TAN/SMC R1

SECTION B. Project Description and Purpose:

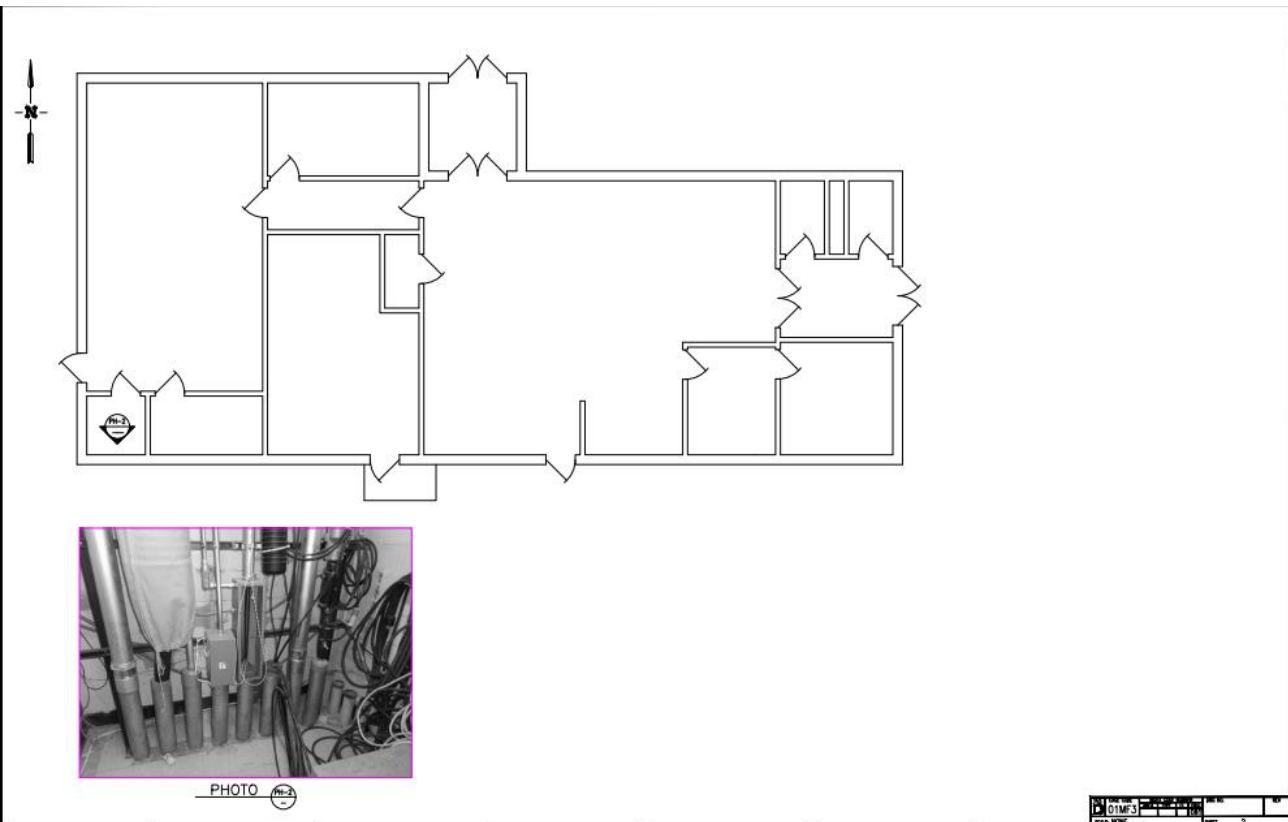
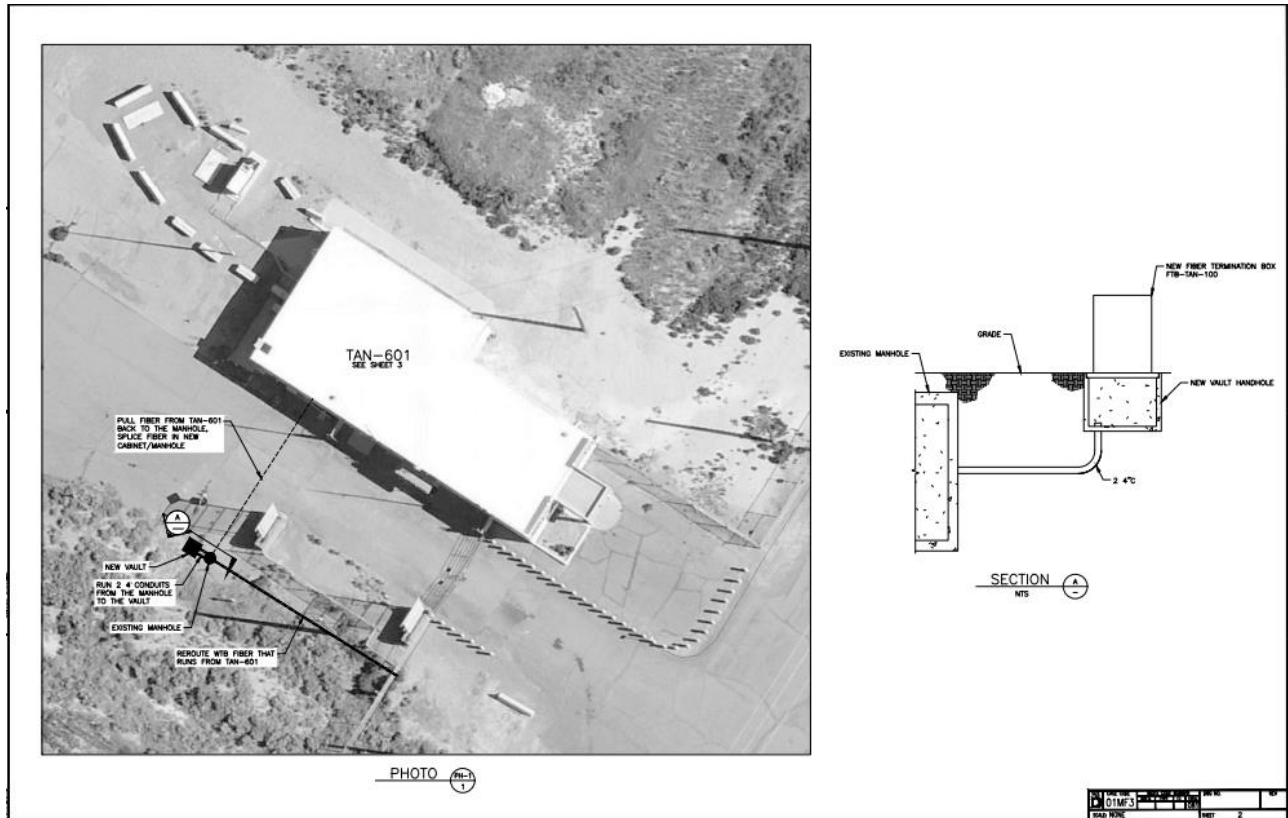
Revision 1

Building TAN-601 was used as the Guard House and is located near the intersection of Snake Ave and Lincoln Blvd at TAN. It was constructed in 1956. The fiber cables inside the building still service SMC. To complete previous fiber upgrades, the remaining fiber that runs through the building to support other areas, will be removed and spliced outside the building.

The scope of work will entail: Installing a new data cabinet/vault next to the TAN-124 manhole, core drilling 3 holes for 3-4" galvanized conduits in existing manhole to connect the new vault to the manhole, Pulling all of the existing fiber cables that run through TAN-601 out to the manhole and splicing them in the new data cabinet/vault, moving an existing Wireless Test Bed (WTB) fiber connection box from North of TAN-601 to an existing utility pole South of TAN-601, removal of conduit seals on pole #3 to allow re-routing of new WTB cables, installing new 24 single mode cables to the relocated/new WTB box, routing new 24 single mode fiber cables from the existing manhole to pole #3, mounting the remainder of the 24 single mode fiber cable overhead using utility poles, and installing guy wires where needed. See attached drawing below for details.




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REV	DESCRIPTION	ISSUE DATE




East Wall Facing TAN-601




East Wall



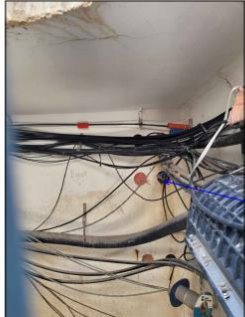
North Wall

REVISION: RFP ID: DATE: PROJECT NO: REV. DATE: FOR REVIEW/PROVAL SUBMIT: REV. DATE: ISSUE DATE:	 Idaho National Laboratory
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REV. DATE: 01MFC3 RFP ID: NONE DATE:	REV. 3 OF 1	
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South Wall




South Wall

Conduit stubs up at pole #3. Remove conduit seal at the pole to allow routing the new WTB cable. Install new 24 single mode cable to new WTB box located on pole #1



North Wall

Core drill 3 holes for 3-4" Galvanized conduits



Existing Man hole

3

Route new 24 single mode fiber cable from the manhole to pole #3 (where the conduit stubs up) using the existing underground conduit.

Mount the remainder of the 24 single mode fiber cable over head using the power poles as shown. Install guy wire where needed and use proper strain relief to protect the fiber cable.

Install the WTB box on the power pole approximately 5' above grade.

Note: WTB = Wireless Test Bed

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Original ECP

Idaho National Laboratory (INL) Telecommunications Transport Infrastructure includes 220 miles of DOE-owned fiber networks, 50 miles of leased fiber networks, and four Point of Presence dial rooms in buildings averaging 50 years old. Age and other factors make maintenance difficult. INL proposes to purchase telecommunication transport infrastructure operation and management activities from a service subcontractor (i.e., Syringa Wireless) to support connectivity at the Specific Manufacturing Capability (SMC). This service supplies managed telecommunication data transport using state-of-the-art infrastructure.

The proposed action establishes a contract with Syringa Wireless to supply telecommunication transport infrastructure and service at the Test Area North (TAN)/SMC area. The proposal also creates a Right-of-Way (ROW) running from TAN-601 (Telecommunications Manhole 10) and terminating near the new SMC Warehouse (TAN-1617, Figure 1). The route uses in-place conduit, manholes and power poles but requires the subcontractor to bore armored cable underground from TMH 1095 and tie it into the previously installed fiber pedestal box near power pole 9 on circuit 54 for about 400 feet. The buried fiber optic conduit ends near power pole 56-39-10A where the subcontractor will route fiber underground to the dial room as shown in Figure 2. The project then routes the fiber overhead from pole 56-39-11 to pole 56-39-15. The route from pole 56-39-15 to TAN-1617 will either be an overhead connection running from pole 56-39-15 to the east side of the roof of the warehouse or a trench (approx. 2 ft. x 2 ft. x 100 ft.) to the east side of the warehouse where the fiber would be routed through the wall and tied-in. If boring is not possible, fiber would be buried in a trench (2 ft deep for about 500 yds then backfilled). There are not any CERCLA or underground radioactive material area (URMA) concerns with the area between pole 56-39-15 and TAN-1617, and this area was disturbed during construction of the warehouse. The ROW and proposed soil disturbance are located in a previously disturbed area. The proposed action constructs concrete pads for the modular dial room and a back-up generator owned by Syringa. Following concrete work, INL will gravel the area for parking.

Figure 1. Location of proposed ROW between TAN-601 and TAN-1617.

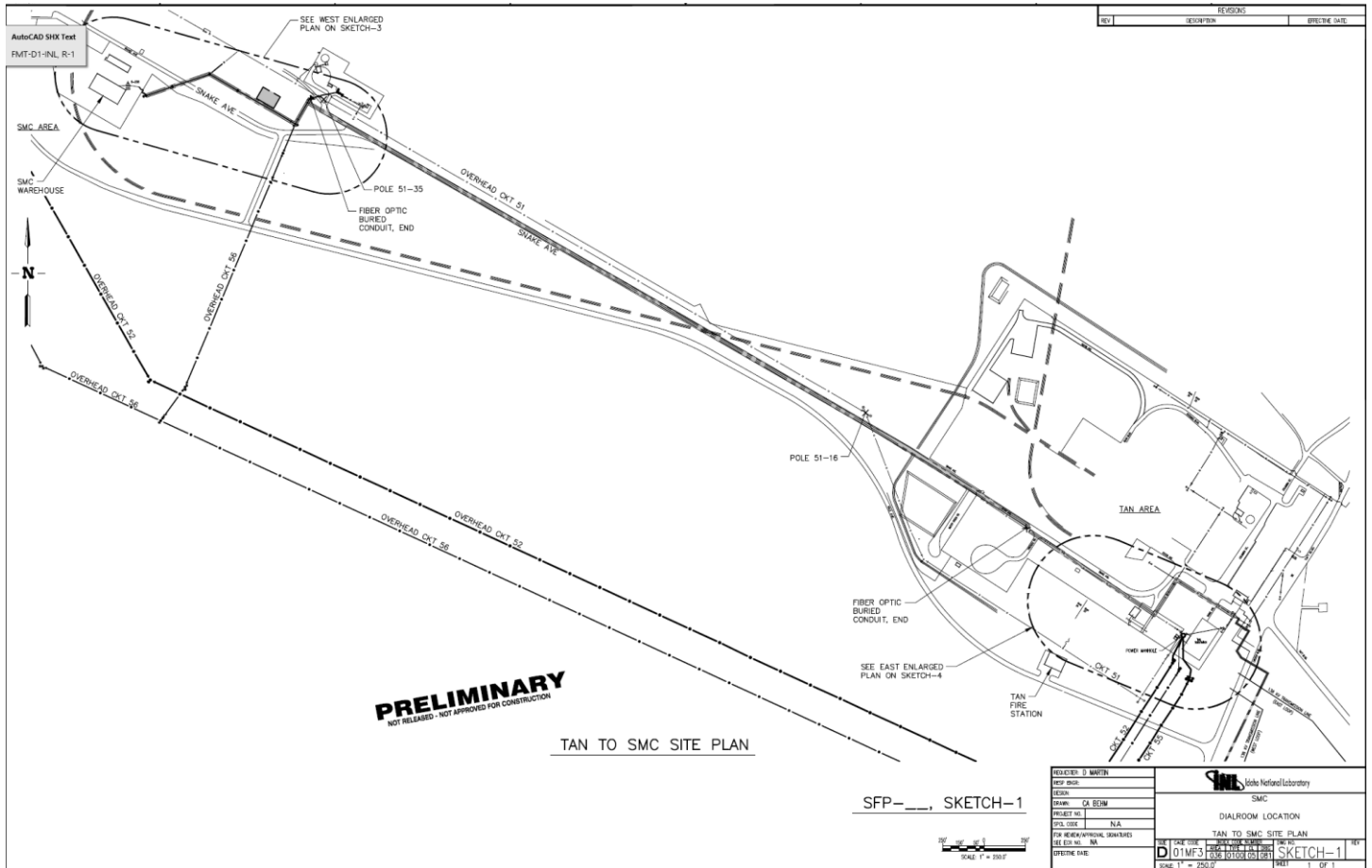
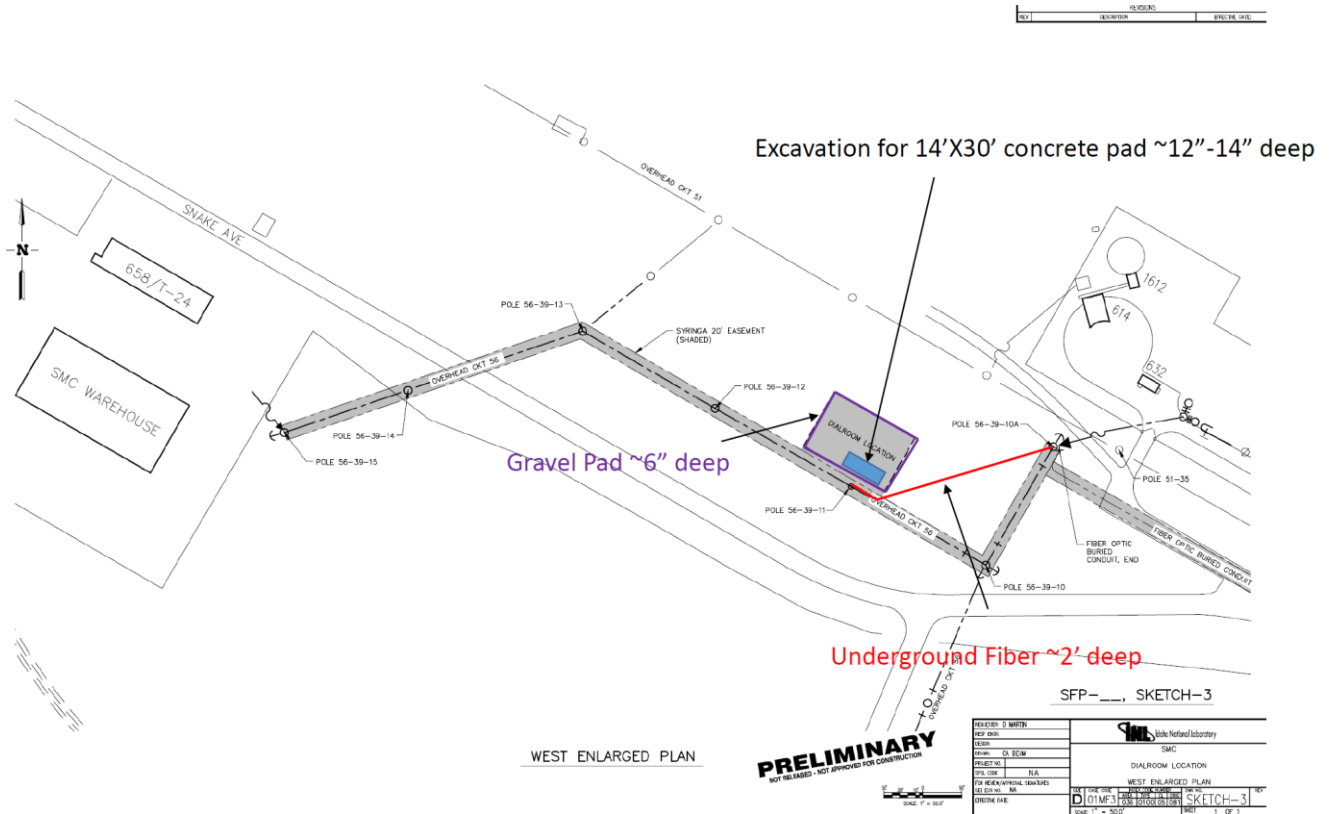


Figure 2. Boring location for armored underground cable.



SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions

Fugitive dust and emissions from mobile equipment may be generated during boring activities. All reasonable precautions will be taken to control fugitive dust. If control methods are needed, the subcontractor will document the method used in their daily logbooks. Syringa Wireless will be responsible for any pre-construction permits or permit exemption determinations, maintenance, operational requirements, recordkeeping and other regulatory requirements associated with the proposed emergency diesel generator.

Discharging to Surface-, Storm-, or Ground Water

Discharging to surface water, storm water, or ground water applies to activities that have the potential to contaminate waters of the U.S. or ground water

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.

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Generating and Managing Waste

Project activities are expected to generate only minor amounts of uncontaminated industrial waste. The small amount of waste that may be generated could include uncontaminated garbage such as plastic water bottles or other miscellaneous waste. "All applicable waste would be diverted from disposal in the landfill when possible. Project personnel would use every opportunity to recycle, reuse, and recover materials and divert waste from the landfill when possible. All waste generated would be transferred to WGS for appropriate disposition. All waste generated from an activity will have an identified disposition path prior to it being generated.

Releasing Contaminants

CERCLA areas are located near the project. Project personnel will notify the Fluor Idaho CERCLA NSD coordinator to have an NSD determination completed prior to starting work. Unexploded ordinance sites are not applicable to areas within the TAN/SMC boundary. Radiological control personnel will be onsite when boring activities (URMA area) occur, however contamination is not expected, and soil waste will be minimal. If contamination is discovered, stop work and contact the CERCLA NSD Coordinator or the CERCLA PEL for further instructions.

The project is not within the established INL storm water corridor and doesn't have potential to discharge to waters of the U.S.

A generator supply tank will be necessary to provide fuel to the emergency generator. This tank will be owned and operated by Syringa Wireless. Construction chemicals such as fuels, lubricants, adhesives, etc. will be used and owned by the Syringa Wireless during project activities.

Using, Reusing, and Conserving Natural Resources

Typical construction chemicals such as fuels, lubricants, adhesives, etc., will be used while installing the trailers and will be submitted to chemical inventory lists with associated Safety Data Sheets (SDSs) for approval in the vendor data system prior to use. The Facility Chemical Coordinator will enter these chemicals into the INL Chemical Management Database. All chemicals will be managed in accordance with laboratory procedures.

Although not anticipated, there is a potential for spills when using chemicals or fueling equipment. In the event of a spill, notify facility environmental staff. If environmental staff cannot be contacted, report the release to the Spill Notification Team (208-241-6400). Clean up the spill and turn over spill cleanup materials to WGS

Environmental Justice

According to the CEQ Climate and Economic Justice Screening Tool, the INL site as well as the Research and Education Campus in Idaho Falls, ID are located in U.S. Census tracts that are identified as disadvantaged communities. Census tracts identified as disadvantaged meet or exceed socioeconomic, environmental, health, or demographic thresholds identified by CEQ. Given that activities analyzed in this document will happen within the boundaries of existing DOE/INL land and/or facilities where there are no permanent residents, any impacts to Environmental Justice in surrounding communities are anticipated to be negligible

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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: B1.24 "Property transfers", B4.7 "Fiber optic cable"

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 B1.24 and B4.7. 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.

B1.24 Property transfers. Transfer, lease, disposition, or acquisition of interests in personal property (including, but not limited to, equipment and materials) or real property (including, but not limited to, permanent structures and land), provided that under reasonably foreseeable uses (1) there would be no potential for release of substances at a level, or in a form, that could pose a threat to public health or the environment and (2) the covered actions would not have the potential to cause a significant change in impacts from before the transfer, lease, disposition, or acquisition of interests.

B4.7 Fiber optic cable. 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/

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: 12/9/2024