

DOE-ID NEPA CX DETERMINATION

Idaho National Laboratory

SECTION A. Project Title: CFA Live Fire Range Shoot House and Power/Data Installation Rev 2

SECTION B. Project Description and Purpose:

Revision 2

The purpose of this revision is to update project scope to correct the location of the trench for fiber optic cable and power. The buried conduit will not be located within the graveled area mentioned in the original EC, but will be placed about 6-10 ft. east of the graveled edge of the road and ditch. The conduit will then be direct buried from B21-608 (not B8-601 as stated in the original EC) through a series of handholes to the SE corner of range 6.

The trench for the power and communication is anticipated to be about 2-3 ft. wide and 2-3 ft. deep. The trench passes through an historic canal. The canal feature is considered a linear historic site that dates between 1902 and 1920 and has not yet been evaluated for eligibility to the National Register of Historic Places. However, the proposed project activity will not affect the site's eligibility (if it were eligible or not). The gun range (and other facilities/roads) has already impacted the site to the point that the trench and other project activities, within the prescribed area, will not have any effect on eligibility.

Revision 1

The purpose of this revision is to correct the amount of undisturbed ground that will be cleared for construction of the new shoot house. The original EC stated that construction of the new shoot house would require clearing approximately 10,000 square feet of undisturbed ground, but this figure underestimated the total amount of disturbance. Construction will require clearing approximately 25,000 square feet or more, but will be less than 1 acre.

The work activities and environmental aspects of the proposed action remain the same as in the original EC.

Original Project Scope:

The Central Facilities Area (CFA) Live Fire Range provides an area for firearms and tactical training protective force personnel at Idaho National Laboratory (INL). The live fire range is also used by other DOE and DOE-contractor personnel, and other federal, state, and local law enforcement and military personnel for training, testing, qualification, and competition. Additionally, other approved organizations use the live fire ranges to conduct testing and evaluation of different products and equipment, and to provide training. The shoot house at the CFA Live Fire Range is not large enough to support the configurations needed for training purposes, and the solar power system for data and magazine alarm systems is unreliable. The proposed action is to construct a new 8,000 to 9,000 square foot open-air steel Live Fire Shoot House and update the solar power system so that data and magazine alarm systems are more effective.

Construction of the new Live Fire Shoot House includes a steel canopy cover for all-weather access and use. The facility will also include a catwalk, 12 ft.-tall interior walls and will be constructed with rifle grade steel and multiple door types, including Ram, Pry, Ballistic and Explosive. Lighting and power will be supplied by direct buried cable. The new shoot house will be located east of the existing shoot house.

A 480 V underground power feed, disconnects, 240/120 V mini power zone security raceways, and fiber optic cable to the magazine storage areas including cargo containers and buried magazine storage areas will be installed. Conduit and National Electrical Manufacturers Association (NEMA) enclosures will be installed on the south side exterior of B8-601 and along cargo container ceilings on the north side of B8-601. The conduit will then be direct buried from B8-601 to a handhole assembly at the SE corner of range 6, direct buried power will be trenched over to the new shoot house and down along the road on the east side of range 6 to the buried storage magazines. Trenching for the direct buried conduit will be in previously disturbed areas void of vegetation (mostly gravel).

SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions

Fugitive Dust may be generated when clearing, grubbing, and trenching work is taking place.

Disturbing Cultural or Biological Resources

Excavation activities could disturb cultural artifacts, nesting birds, and sagebrush. The shoot house height may have cultural implications and will need to be approved.

Generating and Managing Waste

Typical construction debris waste such as scrap metal, packaging material, paint rollers/brushes, weld rod stubs, excess soil, etc. will be generated during the project. Hazardous waste is not anticipated.

Releasing Contaminants

Typical construction chemicals such as fuels, lubricants, paints, adhesives, caulks, etc. will be used on the project. In the event of a spill, notify facility PEL. If the PEL 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.

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CERCLA sites ORD-03 and ORD-06 may be disturbed during excavation activities.

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: 10 CFR 1021, Appendix B to subpart D, items B1.15 "Support buildings," B2.2 "Building and equipment instrumentation," and B4.7 "Fiber optic cable.'

Justification: B4.7 "Project activities described in this EC are consistent with 10 CFR 1021, Appendix B to Subpart D, items B1.15 "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 covered in B1.10, B1.29, B1.35, B2.6, B6.2, B6.5, B6.6, and B6.10 of this appendix;"

B2.2 "Installation of, or improvements to, building and equipment instrumentation (including, but not limited to, remote control panels, remote monitoring capability, alarm and surveillance systems, control systems to provide automatic shutdown, fire detection and protection systems, water consumption monitors and flow control systems, announcement and emergency warning systems, criticality and radiation monitors and alarms, and safeguards and security equipment)," and

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."

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

Approved by Jason Sturm, DOE-ID NEPA Compliance Officer on: 5/07/2018