

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

**SECTION A. Project Title: FY19 Wireless Test Bed Hardware and Software Upgrades**

**SECTION B. Project Description and Purpose:**

Idaho National Laboratory operates "Carrier Grade" Global System for Mobile Communications, Universal Mobile Telecommunications Service, and Long Term Evolution (LTE) cellular networks that need to be upgraded. To improve system performance and add additional feature functionality to the Network(s), the Wireless Test Bed's (WTBs) One-Network Directory Server (NDS) and the LTE Home Subscriber Server software need to be upgraded, and Generation 10 TIAMS Blades for the Home Location Register need to be upgraded and added to the One-NDS Server. The Gen 10 blades are loaded and installed first. The software is then loaded and activated. Acceptance testing of the upgrades is then performed.

**SECTION C. Environmental Aspects or Potential Sources of Impact:**

**Generating and Managing Waste**

This work is expected to generate small amounts of common trash and construction-related waste such as scrap metal. All scrap metal will be recycled to the extent practicable. Two loaner blades will be uninstalled and returned to the owner.

**Using, Reusing, and Conserving Natural Resources**

Replacement of the old equipment will result in energy savings.

**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, B1.7 "Electronic equipment" and B1.31 "Installation or relocation of machinery and equipment."

**Justification:** Project activities are consistent with 10 CFR 1021, Appendix B to Subpart D, B1.7 "Acquisition, installation, operation, modification, and removal of electricity transmission control and monitoring devices for grid demand and response, communication systems, data processing equipment, and similar electronic equipment" and

B1.31 "Installation or relocation and operation of machinery and equipment (including, but not limited to, laboratory equipment, electronic hardware, manufacturing machinery, maintenance equipment, and health and safety equipment), provided that uses of the installed or relocated items are consistent with the general missions of the receiving structure. Covered actions include modifications to an existing building, within or contiguous to a previously disturbed or developed area, that are necessary for equipment installation and relocation. Such modifications would not appreciably increase the footprint or height of the existing building or have the potential to cause significant changes to the type and magnitude of environmental impacts."

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: 1/24/2019