

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

**SECTION A. Project Title:** Multimedia Gateway Hardware and Software Upgrade

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

This project upgrades the current Multimedia Gateway (MGW) to Open MGW Rel 1 in the Wireless Test Bed (WTB). This includes both hardware (HW) and software (SW) changes of the MGW. The luCS interface of the Radio Network Controller (RNC) also changes to Internet Protocol (IP) from Asynchronous Transfer Mode (ATM). The upgrade will replace one electronic rack and associated software with a new, improved rack and updated software.

luCS is the interface from the MGW to the Radio network for the 3rd Generation Universal Mobile Telecommunications System (UMTS) Wireless Network.

The upgrade is necessary because the current product is no longer supported. The new Hardware (HW) and Software (SW) provides parity to functionality which the existing HW/SW provides. After the upgrade, the old equipment will be removed by working with Waste Generator Services (WGS).

Schedule:

August 8-19: Install New MGW Equipment and IP interface for the luCS at the RNC

August 22-26 : Commission New Equipment

August 27- August 30: Cutover to New MGW and Integrate

August 31-23 : Acceptance Testing and completion of project

Facilities and Test Locations: The MGW is located at Central Facilities Area (CFA) 609-200. The RNC is located at Gate 1 Shelter 3.

Cost: The budget till completion is \$864,962 which includes the cost of the Equipment, Deployment, and Acceptance.

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

**Generating and Managing Waste**

The electronic racks will be removed and recycled as scrap material or as Resource Conservation and Recovery Act (RCRA) scrap metal to the extent practicable. Other Solid Waste will be managed by WGS.

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

The electronic racks which will be removed will be recycled either as electronic material or as RCRA scrap metal to the extent practicable.

**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"

**Justification:** Project activities are consistent with 10 CFR 1021, Appendix B to Subpart D, B1.7 "Acquisition, installation, operation, modification, and removal of...communication systems, data processing equipment, and similar electronic equipment."

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: 8/2/2016