

# DOE-ID NEPA CX DETERMINATION

## Idaho National Laboratory

### SECTION A. Project Title: FY-20 WTB Nokia Upgrades

### SECTION B. Project Description and Purpose:

#### Revision 1:

The latest upgrade requirement is to address the "End of Life" Milestone status of the Wireless Test Beds (WTBs) integrated Operation Mediation System (iOMS). The existing iOMS have reached End of Life and shall no longer be supported by Nokia's Care Program and will no longer be compatible with the newer Releases of Nokia SW. The iOMS will be upgraded to eUTRAN Base Transceiver Station (BTS) mediator which will be part of the NetAct platform. A new HP server will be added to the NetAct platform to support the virtual machine (VM) that will be used as EUTRAN BTS mediator.

Prior to the EUTRAN BTS Mediator upgrade, the NetAct Storage will be upgraded from EMC VNX to EMC Unity and the NetAct SW will be upgraded from NetAct SW18 to NetAct SW19B to support the HW & SW upgrade of the EUTRAN BTS Mediator.

During the implementation of the EUTRAN Mediator, Nokia shall physically install the HP server at Gate 1, Shelter 3. The connectivity between the eNodeB's and the EUTRAN BTS Mediator shall be reconfigured by Nokia.

#### Original EC:

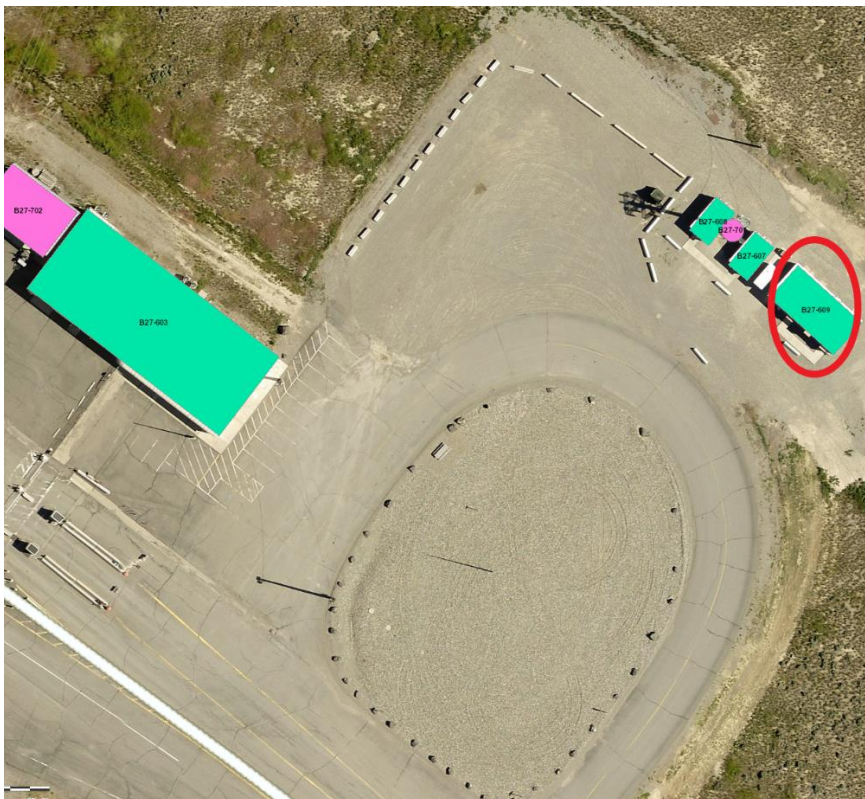
To meet the demands of the Contractor's customers, periodic upgrades are performed to improve system performance and add additional feature functionality to the Network(s). The latest upgrade requirement is to address the "End of Life" Milestone status of the Wireless Test Bed's (WTBs) UMTS Radio Network Controller (RNC) SW. The existing RNC SW Revision, Release 17, has reached "End of Life" Milestone Status, and shall no longer be supported by Nokia's Care Program and shall no longer be fully compatible with the newer Releases of Mobile Switching Center Server (MSS), Node B Software or the NetAct Software. This SW Release Bundle shall include the latest compatible RNC software, NodeB software and Operation and Management Server (OMS) HW & SW upgrade. Total Project cost is approx. \$1.2 M. It is estimated to be completed by the end of December 2020.

The latest upgrade requirement is to address the "End of Life" Milestone status of the Wireless Test Bed's (WTBs) UMTS Radio Network Controller (RNC) SW. The existing RNC SW Revision, Release 17, has reached "End of Life" Milestone Status, and shall no longer be supported by Nokia's Care Program and shall no longer be fully compatible with the newer Releases of Mobile Switching Center Server (MSS), Node B Software or the NetAct Software. This SW Release Bundle shall include the latest compatible RNC software, NodeB software and Operation and Management Server (OMS) HW & SW upgrade. The RNC is a software only upgrade, the OMS is an upgrade of the existing HP Gen 8 Blades to HP Gen 10 Blades.

Total Project cost is approx. \$400K.

It is also estimated to be completed by the end of Dec 2020.

The scope of these upgrades is located at INL Gate 1, Shelter 3 which is identified as B27-609 (see attached image).



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

**Air Emissions**

N/A

**Discharging to Surface-, Storm-, or Ground Water**

N/A

**Disturbing Cultural or Biological Resources**

N/A

**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.

**Releasing Contaminants**

Although not anticipated, there is a potential for spills when using chemicals. In the event of a spill, notify facility Environmental Staff. If the facility Environmental Staff cannot be contacted, report the release to the Spill Notification Team (208-241-6400).

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

Packaging Material from shipment (Cardboard, Plastic wrap). The existing Flexi NG and Flexi NS will be repurposed for another customer (USG 16) or will be excessed and recycled. The old HP Gen 8 blades will be excessed and recycled.

**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: 6/8/2020