

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

**SECTION A. Project Title:** Reliability Testing of Electronic Devices

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

The proposed action will conduct component testing as part of a work for others effort. Reliability testing of components will take place indoors in the Security Systems Laboratory (UB3), and with outdoor testing may be conducted at the INL Site. Project activities are estimated to take 90-120 days of research and development with an initial cost of \$150K.

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

**Air Emissions**

The project could generate small amounts of air emissions. These emissions are covered in APAD INL-08-007.

**Disturbing Cultural or Biological Resources**

Proposed activities have the potential to disturb biological and cultural resources.

**Generating and Managing Waste**

Small amounts of common office trash are expected. In addition, discharges of potable water to the Idaho Falls sewer system would occur.

Industrial waste such as boxes, wiring, paper, insulation, and some metals would be generated from equipment packaging and testing.

Hazardous metal waste (e.g., electronics) have the potential to be generated.

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

Project personnel would use every opportunity to recycle, reuse, and recover materials and divert waste from the landfill when possible.

**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, B3.11 "Outdoor tests and experiments on materials and equipment components" .

**Justification:** Project activities are consistent with 10 CFR 1021, Appendix B, B3.11 "Outdoor tests and experiments for the development, quality assurance, or reliability of materials and equipment (including, but not limited to, weapon system components) under controlled conditions. Covered actions include, but are not limited to, burn tests (such as tests of electric cable fire resistance or the combustion characteristics of fuels), impact tests (such as pneumatic ejector tests using earthen embankments or concrete slabs designated and routinely used for that purpose), or drop, puncture, water immersion, or thermal tests. Covered actions would not involve source, special nuclear, or byproduct materials, except encapsulated sources manufactured to applicable standards that contain source, special nuclear, or byproduct materials may be used for nondestructive actions such as detector/sensor development and testing and first responder field training."

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: 6/14/2017