

DOE-ID NEPA CX DETERMINATION
Idaho National Laboratory

SECTION A. Project Title: Idaho Falls (IF)-675 Majestic Park Portable Isotopic Neutron Spectroscopy (PINS) Laboratory (MPPL) Environmental Chamber Installation

SECTION B. Project Description and Purpose:

The proposed action would install and test a Cincinnati Sub-Zero (CSZ) Model ZPH-8-2-H/AC Temperature/Humidity Test Chamber at the IF-675 Majestic Park PINS Laboratory (MPPL) located at 2752 E. 14th N. Idaho Falls, Idaho. The chamber unit is approximately 3 ft X 5 ft X 6 ft high.

The CSZ Model ZPH-8-2-H/AC Temperature/Humidity Test Chamber is capable of simulating a variety of temperature and humidity conditions for environmental testing of various test articles. The chamber can also be used for basic thermal cycling and/or accelerated stress testing. The project would also include the routing of a 240V circuit, 25 psi water supply, back-flow preventer, condensate drainage, and venting of the chamber relief valve.

This Environmental Checklist (EC) covers only activities related to installation and testing. Each project using the Chamber will require a separate project-specific EC.

Estimated Start Date: December, 2015

Approximate Cost: \$21,000

SECTION C. Environmental Aspects or Potential Sources of Impact:

Generating and Managing Waste

Installation and testing are expected to generate small amounts of construction waste such as scrap wire and metal. Testing and operation are expected to result in routine waste such as a cartridge demineralizer cartridge and discharge of small amounts of condensed water to the Idaho Falls sewer.

Releasing Contaminants

Typical construction chemicals such as grout, sealer, and lubricants will be used during the project.

Using, Reusing, and Conserving Natural Resources

Scrap wire and metal will be recycled when practical. All applicable waste will be diverted from disposal in 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: National Environmental Policy Act (NEPA) Implementing Procedures, Final Rule, 10 CFR 1021, Appendix B to Subpart D, Categorical Exclusion B1.31 "Installation or relocation of machinery and equipment."

Justification: The proposed activities are consistent with CX 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 Jack Depperschmidt, DOE-ID NEPA Compliance Officer on: 12/1/2015