

DOE-ID NEPA CX DETERMINATION

Idaho National Laboratory

SECTION A. Project Title: Flow Loop Test System Relocation

SECTION B. Project Description and Purpose:

The proposed action disassembles and relocates the Flow Loop Test System (FLTS) from Premier Technologies in Blackfoot to the Central Facilities Area (CFA) for future assembly and use.

The FLTS uses electrically heated elements and water and carbon dioxide coolant to test flow regimes and heat transfer. Idaho National Laboratory (INL) anticipates using the FLTS as a multi-use test bed coolant loop structure. Propylene glycol was used as a coolant outside the testing environmental to cool the system. The system will be drained prior to disassembly and transport to the INL Site, but trace amounts of propylene glycol may remain. Premier technologies will dispose of contents drained from the system according to applicable requirements and regulations.

INL will revise this EC to evaluate the environmental impacts of re-assembling and operating the FLTS if a use, funding, and location can be identified prior to 31 Dec 2021. If funding is not obtained by 31 Dec 2021, INL will recycle the components according to laboratory procedures.

SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions

The potential for air emissions exists through activities includes operation of heavy equipment and generating fugitive dust.

Generating and Managing Waste

Industrial (non-hazardous, non-radioactive) waste such as propylene glycol, wood, metal, scrap wire, non-asbestos insulation, etc. will be generated.

Releasing Contaminants

Although not anticipated, there is a potential for spills when using chemicals or fueling equipment. In the event of a spill, notify facility PEL. If the PEL cannot be contacted, report the release to the Spill Notification Team (208-241-6400). Clean up the spill and turn over spill cleanup materials to WGS.

Using, Reusing, and Conserving Natural Resources

Materials such as wood and metal generated by work activities would be reused and/or recycled as 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: National Environmental Policy Act (NEPA) Implementing Procedures, Final Rule, 10 CFR 1021, Appendix B to Subpart D, Categorical Exclusion B1.24 "Property transfers"

Justification: Project activities described in this EC are consistent with 10 CFR 1021, Appendix B to Subpart D, item B1.24 "Transfer, lease, disposition, or acquisition of interests in personal property (including, but not limited to, equipment and materials) or real property (including, but not limited to, permanent structures and land), provided that under reasonably foreseeable uses (1) there would be no potential for release of substances at a level, or in a form, that could pose a threat to public health or the environment and (2) the covered actions would not have the potential to cause a significant change in impacts from before the transfer, lease, disposition, or acquisition of interests."

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: 09/25/2019