

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

**SECTION A. Project Title:** Modifying the Gauges and Nitrogen Valve Assembly on 774-E-1 and 774-E-2

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

Transformers 774-E-1 and 774-E-2 are the original transformers and have their original gauges. The gauges are old and not functioning well. The proposed work scope is to replace the original gauges with a transformer monitoring unit. The transformer monitoring unit will be installed on the side of the transformer in a location that is accessible while the transformer is energized. The existing pressure, oil level and oil temperature gauges will be replaced with transducers that will be fed into the monitoring unit. The cooling fans will also be modified to be controlled by the monitoring unit. Additionally, there is currently no access to fill the nitrogen on the transformer while it is energized. The valve assembly will be relocated to a location that is accessible while the transformer is energized.

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

**Generating and Managing Waste**

The proposed action may generate a variety of waste. It is anticipated that the following types of waste could be generated:

- Industrial (non-hazardous, non-radioactive) waste includes typical maintenance wastes such as boxes, wood, wiring, paper, insulation, and some metals.
- Hazardous wastes have the potential to be generated during maintenance operations on systems or equipment containing hazardous chemicals, or by using hazardous chemicals to clean or decontaminate equipment and systems. Hazardous metal waste (e.g., lead, electronics, brass, metal containing paints, etc.) may also be generated during maintenance work or by replacement of outdated equipment.
- PCB contaminated waste.

**Releasing Contaminants**

All chemicals typically used in construction/maintenance, if used, will be managed in accordance with laboratory procedures.

Polychlorinated biphenyls (PCBs) could be present in pre-1982 materials such as painted surfaces, wire pulling lubricant, light ballasts, and other fluids and components.

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

All materials would be reused and/or recycled where economically practicable. All applicable waste would be diverted from disposal in the landfill where conditions allow. The project would practice sustainable acquisition.

**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, B2.2 "Building and equipment instrumentation"

**Justification:** Project activities are consistent with 10 CFR 1021, Appendix B, B2.2 "Installation of, or improvements to, building and equipment instrumentation (including, but not limited to, remote control panels, remote monitoring capability, alarm and surveillance systems, control systems to provide automatic shutdown, fire detection and protection systems, water consumption monitors and flow control systems, announcement and emergency warning systems, criticality and radiation monitors and alarms, and safeguards and security equipment)."

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: 05/15/2017