

DOE-ID NEPA CX DETERMINATION
IDAHO NATIONAL LABORATORY

SECTION A. Project Title: M-10 Emergency Pump Backup Power

SECTION B. Project Description:

The proposed action would add a manually controlled electric power transfer switch and power inlet receptacle to the M-10 emergency coolant pump electrical power feed to power the M-10 pump to address safety issues that could arise with a complete loss of power on the Advanced Test Reactor (ATR)-670-E-15 diesel/commercial bus. The transfer switch and receptacle would be located outside the west wall of the ATR building (Test Reactor Area [TRA]-670) so a portable diesel generator, procured by the project, could be used to power the M-10 pump in the event of a power loss. New conduit would be routed as needed to accommodate the insertion of the transfer switch and receptacle into the existing conduit path between the M-10 pump and the 670-E-15 diesel/commercial bus. A diesel generator with an 80 gallon tank, and extension cords, will be used to supply emergency power to both the M-10 pump and the In-vessel Post Accident Monitoring System (IVPAMS). The diesel generator will be dedicated specifically to the M-10 pump and IVPAMS.

Projected start date: August of 2012
Projected end date: September of 2012
Estimated cost: Approximately \$250,000

SECTION C. Environmental Aspects / Potential Sources of Impact

Air Emissions: the proposed project would generate air emissions from the operation of the emergency generator purchased. The generator set would be dedicated specifically to the M-10 pump and the IVPAMS and, therefore, considered a stationary air emissions source independent of being skid or trailer mounted. An Air Permitting Applicability Determination (APAD) would be required before purchasing the diesel generator. The APAD would specify emission standards and operating restrictions for the stationary diesel generator, if applicable. The generator set engine will be a Tier 3 certified engine or greater provided the engine horsepower rating is greater than or equal to 50 hp and less than or equal to 100 hp.

Disturbing Cultural/Biological Resources: TRA-670 is eligible for nomination to the National Register of Historic Places. The activity, as described, is exempted from cultural resource review and may proceed without a cultural resource clearance.

Generating and Managing Waste: waste would include construction waste from running conduit and mounting a cabinet on the outside of the west side of ATR. All waste generated would be transferred to Waste Generator Services for proper disposition. Pollution prevention/waste minimization would be implemented where economically practicable to reduce the volume and/or toxicity of waste generated.

Releasing Contaminants: all chemicals utilized by this activity would be managed in accordance with company procedure.

Using, Reusing, and Conserving Natural Resources: all materials will be reused and recycled where economically practicable. All applicable waste will be diverted from disposal in the landfill where conditions allow.

SECTION D. Recommended Level of Environmental Review (or Documentation) and Reference(s): Identify the applicable categorical exclusion from 10 CFR 1021, Appendix B, give the appropriate justification, and the approval date.

Note: 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, including requirements of DOE orders; 2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities; 3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that pre-exist in the environment such that there would be uncontrolled or unpermitted releases; 4) adversely affect environmentally sensitive resources. In addition, no extraordinary circumstances related to the proposal exist which would affect the significance of the action, and the action is not "connected" nor "related" (40 CFR 1508.25(a)(1) and (2), respectively) to other actions with potentially or cumulatively significant impacts.

References: National Environmental Policy Act (NEPA) Implementing Procedures, Final Rule, "10 CFR 1021, Appendix B to Subpart D, Categorical Exclusion B2.5 "Facility safety and environmental improvements," effective November 14, 2011.

Justification: The purpose of this project is to provide backup power to the M-10 coolant pump in the event of a power loss and is consistent with 10 CFR 1021 Appendix B to Subpart D B2.5 "Safety and environmental improvements of a facility (including, but not limited to, replacement and upgrade of facility components) that do not result in a significant change in the expected useful life, design capacity, or function of the facility and during which operations may be suspended and then resumed."

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: 6/7/2012