

DOE-ID NEPA CX DETERMINATION

Idaho National Laboratory

SECTION A. Project Title: Hot Fuel Examination Facility (HFEF) High Bay Crane Refurbishment

SECTION B. Project Description and Purpose:

The 40-ton crane located in the highbay of the Hot Fuels Examination Facility (HFEF) at the Materials and Fuels Complex (MFC) building MFC-785 has reached the end of its useful life. Replacement of the crane is needed to continue facility operations and for placement and removal of items in and out of the hot cell. The proposed action would remove and replace the crane runway rails, clips, bolts and splices. The end trucks and drive gearing with end trucks that have a variable frequency drive system would also be replaced. A runway fall protection system would be installed along the length of each rail along with fall protection the length of the crane bridge. A horizontal lifeline system, access ladder, and platform gate would also be installed along the west wall catwalk. The old trolley system would also be replaced with a single capstan arrangement that would not require a spreader bar to obtain the full 40 ton capacity of the crane and would have a new 5 ton aux hoist. To eliminate intermittent operational problems, the control system for the crane would be replaced with a new independent recovery system. Following installation, the crane components would be inspected for damage and to identify any deficiencies and corrective actions.

Oil in the old crane is a Texaco 80-90W and has been replaced within the last 10 to 15 years. Analysis of the oil does not indicate the presence of polychlorinated biphenyls (PCBs).

SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions

The project has the potential to disturb asbestos containing materials.

Disturbing Cultural or Biological Resources

HFEF (MFC-785) is considered a Category 2 historic property and is eligible for nomination to the National Register of Historic Places. Project activities have the potential to impact historical characteristics of the facility; however, the activities as described are exempt and may proceed as described without further cultural resource review (Idaho National Laboratory Cultural Resource Management Office. Idaho National Laboratory Cultural Resource Management Plan. DOE/ID10997, revision 5, Idaho Falls, Idaho: U.S. Department of Energy, Idaho Operations Office, 2013; pg 53, Table 2, Exemptions 2 and 6).

Generating and Managing Waste

Industrial waste may include typical waste such as scrap metal. PCB bulk product waste may be generated from suspect PCB paint that is on the existing facility components.

Releasing Contaminants

All chemicals typically used in construction/maintenance, if used, will be managed in accordance with laboratory procedures. There is the potential for possible disturbance of suspect PCB paint. Approved work controls will be in place to ensure that no releases occur during project activities.

Using, Reusing, and Conserving Natural Resources

All material generated from this project would be reused and recycled where economically practicable. All applicable waste would be diverted from disposal in the landfill when possible. 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: 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."

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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: 2/24/2016