

**SECTION A. Project Title:** Materials and Fuels Complex (MFC) Infrastructure Upgrades - Technical Support Building

**SECTION B. Project Description:**

**Materials and Fuels Complex (MFC) Infrastructure Upgrades - General**

The number of researchers and operators at the Materials and Fuels Complex has significantly increased, and is projected to increase further in the future to support the expanding research activities at the facility. These activities will require infrastructure upgrades (office space, potable water, wastewater treatment, communications, etc.) to accommodate the increasing number of personnel and work shifts.

The INL will prepare a separate environmental checklist (EC) and conduct the appropriate level of environmental review for each infrastructure improvement project.

**MFC Infrastructure Upgrades - Technical Support Building**

The INL must operate and maintain infrastructure and facilities to support the nuclear energy research, development, demonstration, and commercial application programs, including radiological facilities management and facilities management. The MFC is one of the consolidated campuses at INL that is constrained by insufficient office space for mission support.

The proposed project will help satisfy the need for office space by building a Technical Support Building (TSB) at the MFC. The building will be a 2- or 3-story steel-framed office building that will be approximately 30,000 square feet in size. This building will be classified as a non-hazardous, non-nuclear facility and will be owned and operated by Facilities and Site Services.

This office building will house a minimum of 100 employees and consist of reconfigurable cubicle space, hard wall offices, conference rooms, restrooms, a janitors closet, a kitchenette, a mechanical room, an electrical room, a communications room and entry vestibules.

The proposed building site will be to the south of MFC-752, north of MFC-710 and east of the MFC main gatehouse (MFC-701). The site is a mixture of previously disturbed gravel and existing asphalt pavement. Rock probing and soil sampling will be required in order to determine if the proposed site will be adequate. There are no known CERCLA sites, or previously remediated CERCLA sites, in the proposed building location.

The new building will tie into the existing MFC combined fire/potable water system, the existing sanitary system, and existing power. A sanitary sewer service line sits in the proposed building location and will need to be rerouted around the new building. The building will contain HVAC, electrical, sanitary sewer, potable water, communications, fire protection and alarm systems.

Estimated Start Date: September, 2010

Estimated Completion Date: October, 2011

Approximate Cost: \$9,000,000

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

**Air Emissions** - Fugitive dust may be generated during excavation activities. All reasonable precautions will be taken (water, chemical dust suppressants, etc.) to control fugitive dust. If dust control methods are required, the subcontractor will record the type of method and frequency of application in their daily logbook. This logbook will be used to show compliance to section 2.2 of the INL Tier I Operating Permit. Non-road portable equipment such as welders, compressors, and generators will be used during the project. Various subcontractors will bring this type of equipment on and off the construction site for a duration of less than one year as is required by the Subcontractor Requirements Manual (SRM). This equipment will be required to meet visible emission requirements identified in the INL Tier I Operating Permit and IDAPA 58.01.01.625. Refrigerant will be used in the HVAC system. Certified Refrigeration Technicians will be used on the project when dealing with refrigerant. Class I ozone depleting substances will not be used as system refrigerants.

**Generating and Managing Waste** - Industrial waste in the form of typical construction debris such as asphalt, concrete, grubbed soil, scrap metal, PVC pipe, insulation, packing material, RCRA empty containers, rags, and paper will be generated on the project. Hazardous waste is not anticipated, however, waste from chemicals such as adhesives, paints, fuels, etc., may be generated. All waste will be characterized, stored, and disposed at the direction of Waste Generator Services. Standard office waste (paper, plastic, food waste, etc.) will be generated when the facility is occupied.

**Releasing Contaminants** - Typical construction chemicals such as adhesives, paints, fuels, lubricants, weld rod, cleaners, etc., will be used on the project. The subcontractor will be required to submit initial, quarterly, and final chemical inventory lists with associated MSDS's in the vendor data system prior to bringing them on the job. The Construction Chemical Coordinator will enter these chemicals into the INL Comply Plus Chemical Management System so that they can be appropriately tracked. The subcontractor will be required to have spill control equipment on the construction site in case of a spill. Any spills would be reported to the the INL Spill Notification Team.

**Using, Reusing, and Conserving Natural Resources**- The facility will be designed for eventual LEED Gold certification in accordance with DOE O 430.2B, Departmental Energy, Renewable Energy and Transportation Management and must comply with the Guiding

**DOE-ID NEPA CX DETERMINATION  
IDAHO NATIONAL LABORATORY**

Principles for Sustainable New Construction and Major Renovations found in Executive Order 13423 - (i.e., water fixtures will consist of no-flow or low-flow fixtures with auto flush and automatic sensor faucets).

**SECTION D. Determine the 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. Note

References: 10 CFR 1021, Appendix B to Subpart D, B1.15

Justification: Construction of this new building is necessary to support the role of MFC as the location for expanded nuclear energy research programs and the increasing number of employees needed to conduct these programs. Construction of this facility is appropriately covered under CX category B1.15 "Construction and operation of support buildings and support structures ..."

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 5/28/2010