DOE-ID NEPA CX DETERMINATION
Idaho National Laboratory

CX Posting No.: DOE-ID-INL-14-049

SECTION A. Project Title: Process Demonstration Unit (PDU) Fueling Station

SECTION B. Project Description:

The purpose of this work is to install a fuel storage unit adjacent to the Energy Systems Laboratory (ESL) in support of Process Demonstration Unit (PDU) operations.

Routine PDU operations include operation of fork lifts and tele-handlers. This equipment uses both gasoline and diesel fuels. Historically, a local fuel retailer has fueled the equipment directly on a periodic basis. The pace of operations has increased, making it more economical to store a small quantity of fuel on-hand. Two 55-gallon drums will be acquired and placed on a pallet with an integral spill catchment basin. The capacity of the catchment basin is more than sufficient to retain the contents of one full drum. One drum will contain gasoline; one will contain diesel fuel. The drums may be housed in a fire cabinet. The fuel storage location will be east of the ESL, on an asphalt base. Fuel will be transferred from the delivery truck to the appropriate drum. A hand pump will be used to transfer fuel from the drum to the PDU support equipment.

The asphalt at the fuel storage location drains to the north, away from the street and any sewer manholes. Small spills, if any, would likely be retained on the asphalt. A small quantity of spill control materials will be maintained on-hand.

The total amount of petroleum product stored at the ESL is less than 1320 gallons; no Spill Prevention, Control, and Countermeasures (SPCC) Plan is required for this proposed fuel storage.

SECTION C. Environmental Aspects or Potential Sources of Impact:

Generating and Managing Waste - Fuel-laden rags may be used to wipe up occasional small drips during fueling operations. All waste generated from this activity will be managed in accordance with laboratory procedures. Pollution prevention/waste minimization will be implemented where economically practicable to reduce the volume and/or toxicity of waste generated. All waste generated will be transferred to Waste Generator Services (WGS) for appropriate disposition. All waste generated from these activities will have an identified disposition path prior to it being generated.

Releasing Contaminants - Releases of fuel to the environment is not planned, but a spill may occur. Spilled material will be removed and disposed in accordance with Battelle Energy Alliance, LLC (BEA) procedures.

Using, Reusing, and Conserving Natural Resources - All materials would be reused and/or recycled where economically practicable and as accepted by the customer. All applicable waste would be diverted from disposal in the landfill where conditions allow. In addition, the project would practice sustainable acquisition, as appropriate and practicable, by procuring construction materials that are energy efficient, water efficient, are bio-based in content, environmentally preferable, non-ozone depleting, have recycled content, or are non-toxic or less-toxic alternatives.

SECTION D. Determine the Recommended Level of Environmental Review (or Documentation) and Reference(s): Identify the applicable categorical exclusion from 10 Code of Federal Regulations (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 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 to Subpart D, Categorical Exclusion B1.31

Justification: Project activities described in this Environmental Checklist (EC) are consistent with 10 CFR 1021, Appendix B to Subpart D, item 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 on: 11/12/2014