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 (1.08.09.13)

**U.S. DEPARTMENT OF ENERGY
 OFFICE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY
 NEPA DETERMINATION**



RECIPIENT: FedEx Express Corporation

STATE: TN

PROJECT TITLE : FedEx Express Hydrogen Fuel Cell Extended-Range Battery Electric Vehicles

Funding Opportunity Announcement Number DE-FOA-0000828	Procurement Instrument Number DE-EE0006522	NEPA Control Number GFO-0006522-001	CID Number
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Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Order 451.1A), I have made the following determination:

CX, EA, EIS APPENDIX AND NUMBER:

Description:

- A9 Information gathering, analysis, and dissemination** Information gathering (including, but not limited to, literature surveys, inventories, site visits, and audits), data analysis (including, but not limited to, computer modeling), document preparation (including, but not limited to, conceptual design, feasibility studies, and analytical energy supply and demand studies), and information dissemination (including, but not limited to, document publication and distribution, and classroom training and informational programs), but not including site characterization or environmental monitoring. (See also B3.1 of appendix B to this subpart.)
- B5.15 Small-scale renewable energy research and development and pilot projects** Small-scale renewable energy research and development projects and small-scale pilot projects, provided that the projects are located within a previously disturbed or developed area. Covered actions would be in accordance with applicable requirements (such as local land use and zoning requirements) in the proposed project area and would incorporate appropriate control technologies and best management practices.

Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide federal funding to FedEx Express Corporation to integrate hydrogen fuel cell technology into an electric parcel delivery truck in an effort to achieve extended range through an optimum combination of fuel cell and battery power while producing zero emissions.

The proposed project activities would include designing and optimizing a fuel cell and hydrogen storage for integration into electric delivery trucks; building and testing the fuel cell unit before installation in the electric delivery trucks; installing the fuel cell unit in the electric delivery trucks; and deploying and testing the fuel cell/electric hybrid delivery trucks in the real world. The proposed project would deploy a total of 20 trucks for a duration of three years. FedEx Express would partner with Plug Power and Smith Electric to complete project objectives. The truck traffic increase would be minimal and would occur along established delivery routes. The fuel cell/electric hybrid delivery trucks would refuel at existing hydrogen fueling stations. Any permitting that is required for the operation of the fuel cell in the fuel cell/electric hybrid delivery trucks would be obtained to enable the validation of the truck in a real-world application. Existing corporate health and safety policies and procedures at each facility would be followed including employee training, proper protective equipment, engineering controls, monitoring, and internal assessments. A safety plan would be developed in accordance with National Fire Protection Association (NFPA) regulations with the program partners which would include: an overview and description of all hydrogen equipment; failure analysis; risk analysis; storage risks identified; refueling risks identified; and hydrogen storage and refueling station safety devices.

Based on a review of the project information and the above analysis, DOE has determined that the proposed project would not have significant individual or cumulative impact to human health and/or environment. DOE has determined that the work outlined is consistent with the actions identified in categorical exclusion A9, "information gathering," and B5.15 "small-scale renewable energy research and development and pilot projects," and is categorically excluded from further NEPA review.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

If you intend to make changes to the scope or objective of your project you are required to contact the Project Officer identified in Block 11 of the Notice of Financial Assistance Award before proceeding. You must receive notification of approval from the DOE Contracting Officer prior to commencing with work beyond that currently approved.

Note to Specialist :

Review completed by Logan Sholar on 09/04/2014.

This NEPA determination does not require a tailored NEPA provision.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature:  Date: 9/4/2014
NEPA Compliance Officer

FIELD OFFICE MANAGER DETERMINATION

Field Office Manager review required

NCO REQUESTS THE FIELD OFFICE MANAGER REVIEW FOR THE FOLLOWING REASON:

- Proposed action fits within a categorical exclusion but involves a high profile or controversial issue that warrants Field Office Manager's attention.
- Proposed action falls within an EA or EIS category and therefore requires Field Office Manager's review and determination.

BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO :

Field Office Manager's Signature: _____ Date: _____
Field Office Manager