

PMC-ND

(1.08.09.13)

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



RECIPIENT: Ivys Inc.

STATE: MA

PROJECT TITLE : Advancing Hydrogen Dispenser Technology by Using Innovative Intelligent Networks

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0001224	DE-EE0007273	GFO-0007273-001	GO7273

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.)
- B3.6 Small-scale research and development, laboratory operations, and pilot projects** Siting, construction, modification, operation, and decommissioning of facilities for smallscale research and development projects; conventional laboratory operations (such as preparation of chemical standards and sample analysis); and small-scale pilot projects (generally less than 2 years) frequently conducted to verify a concept before demonstration actions, provided that construction or modification would be within or contiguous to a previously disturbed or developed area (where active utilities and currently used roads are readily accessible). Not included in this category are demonstration actions, meaning actions that are undertaken at a scale to show whether a technology would be viable on a larger scale and suitable for commercial deployment.
- B5.22 Alternative fuel vehicle fueling stations** The installation, modification, operation, and removal of alternative fuel vehicle fueling stations (such as for compressed natural gas, hydrogen, ethanol and other commercially available biofuels) on the site of a current or former fueling station, or within a previously disturbed or developed area within the boundaries of a facility managed by the owners of a vehicle fleet. 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:

Ivys Inc. (Ivys) would utilize DOE and cost share funding for the design, development, fabrication and field testing of a hydrogen dispensing system that uses modern communication standards and data-driven integrated system controls. Proposed project activities include the design, development, and testing of the dispensing system. Component design, development, fabrication and testing would occur at laboratory facilities of Ivys in Somerville, Massachusetts and the sub-recipient in Odelzhausen, Germany. Prototype system verification testing would occur at the National Renewable Energy Laboratory in Golden, Colorado and subsequently at an existing retail alternative fuels gas station located in Los Angeles, California.

All handling of pressurized hydrogen gas would occur in only approved (by Fire-Marshall or equivalent) facilities/locations with verified safety controls (per NFPA codes) and by staff trained and experienced in the safe use and handling of hydrogen and pressurized gases. Existing corporate health and safety policies and procedures would be followed including employee training, proper protective equipment, engineering controls, monitoring, and job hazard assessments. Additional policies and procedures would be implemented as necessary as new health and safety risks are identified. Other than minor building modifications to store, use and handle pressurized bottled hydrogen cylinders at the Massachusetts location, there would be no change in the use, mission, or operation of existing facilities. Equipment would be installed outdoors at both the Golden, CO and Los Angeles, CA locations. Both of these locations already have test platform accommodations to accept the temporary siting of prototype equipment. No ground disturbing activities would occur at any of the locations.

Any work proposed to be conducted at a DOE laboratory may be subject to additional NEPA review by the cognizant DOE NEPA Compliance Officer for the specific DOE laboratory prior to initiating such work. Further, any work

conducted at a DOE laboratory must meet the laboratory's health and safety requirements.

Based on review of the project information, DOE has determined that the proposed project activities would not have a significant individual or cumulative impact to human health and/or environment. DOE has determined that these activities are consistent with actions contained in DOE categorical exclusions A9 "Information gathering, analysis, and dissemination," B3.6 "Small-scale research and development, laboratory operations, and pilot projects," and B5.22 "Alternative fuel vehicle fueling stations," and are 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.

Insert the following language in the award:

You are required to:

Any work proposed to be conducted at a DOE laboratory may be subject to additional NEPA review by the cognizant DOE NEPA Compliance Officer for the specific DOE laboratory prior to initiating such work. Further, any work conducted at a DOE laboratory must meet the laboratory's health and safety requirements.

Note to Specialist :

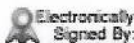
Fuel Cell Technologies Office

This NEPA determination requires a tailored NEPA provision. Please see above.

Casey Strickland 12/17/15

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____



Signed By: Kristin Kerwin

NEPA Compliance Officer

Date: 12/22/2015

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: _____

Field Office Manager

Date: _____