

PMC-ND

(1.08.09.13)

U.S. DEPARTMENT OF ENERGY

OFFICE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY

NEPA DETERMINATION



RECIPIENT: Calnetix Technologies LLC

STATE: CA

PROJECT TITLE: Medium Voltage Integrated Drive and Motor

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0001208	DE-EE0007251	GFO-0007251-001	GO7251

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.

Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide federal funding to Calnetix Technologies LLC to develop a medium-voltage motor and variable-speed drive (VSD) that will demonstrate the commercial viability of wide band gap power electronics for use with megawatt-class motors.

Activities associated with the proposed project include the design, development, fabrication and testing of a medium-voltage, megawatt (MW) VSD and high-speed, high-power motor at Calnetix's facility in Cerritos, CA, Florida State University (FSU) in Tallahassee, FL and Texas A&M University in College Station, TX. All research and development activities would take place in existing facilities designed for this type of research; therefore, no modifications, new permits, additional licenses and/or authorizations would be necessary.

The proposed project would involve the use and handling of a small amount of hazardous materials, including metals, magnets, bonding resins and catalyzers, and cooling liquids. All hazardous materials would be managed in accordance with federal, state, and local environmental regulations and health and safety policies and procedures would be followed including employee training, proper personal protective equipment, engineering controls, monitoring, and assessments. Power testing would include high-voltage power. Test equipment would be operated from a remote location, and observed using video equipment. The building in which the experimental equipment would be housed is interlocked so that if someone enters the experimental space through the doors during testing, power would automatically be removed from the equipment. Waste generated as a result of these proposed activities would be disposed of in accordance with local, state and federal standards.

Based on review of the project information and the above analysis, DOE has determined the proposed project would not have a significant individual or cumulative impact to human health and/or environment. DOE has determined that this project is consistent with actions outlined in DOE categorical exclusion A9 "Information gathering, analysis, and dissemination" and B3.6 "Small-scale research and development, laboratory operations, and pilot projects" and is therefore 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 the Recipient intends to make changes to the scope or objective of this project, the Recipient is required to contact the Project Officer, identified in Block 15 of the Assistance Agreement before proceeding. The Recipient must receive notification of approval from the DOE Contracting Officer prior to commencing with work beyond that currently approved. If the Recipient moves forward with activities that are not authorized for Federal funding by the DOE Contracting Officer in advance of a final NEPA decision, the Recipient is doing so at risk of not receiving Federal funding and such costs may not be recognized as allowable cost share.

Note to Specialist :

Advanced Manufacturing Offices

This NEPA determination does not require a tailored NEPA provision.

Review completed by Rebecca McCord, 03/30/2016

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____


NEPA Compliance Officer

Date: _____

7/9/2016

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: _____