

PMC-EF2a

(10/02)

**U.S. DEPARTMENT OF ENERGY
EERE PROJECT MANAGEMENT CENTER
NEPA DETERMINATION**



RECIPIENT: Michigan Energy Office

STATE: MI

PROJECT TITLE : EERE Loan Program - Grid Logic II

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000052	DE-EE0000166	GFO-0000166-048	0

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:

B1.31 Installation or relocation of machinery and equipment

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.

Rational for determination:

The U.S. Department of Energy (DOE) provided funding to the Michigan Energy Office (MEO) under the DOE's American Recovery and Reinvestment Act of 2009 State Energy Program (SEP). MEO selected Grid Logic, Inc. to receive \$1,023,000 in SEP funding to partially fund its wind turbine manufacturing project (total project cost - \$1,323,000).

Grid Logic develops and manufactures power distribution, generation, and storage solutions. Grid Logic proposes to use SEP funding to manufacture "high field rotor pole magnets" for wind turbines from superconducting nano-composite materials.

Grid Logic received a NEPA determination (GFO-09-148-015) in June 2010 that categorically excluded the manufacture of advanced clean energy efficiency devices called Fault Current Limiters (FCLs), which are basically surge protectors.

Grid Logic now proposes to use SEP funds to purchase and install equipment and components needed to manufacture the high field rotor pole magnets (complete list attached). The end-use of the magnets would be for utility-scale wind turbines and would improve the turbine's efficiency. Manufacturing will take place at Grid Logic's existing facility, located at 1070 Clark Road, Lapeer, MI 48446. (Please note – the original NEPA determination referenced a facility located at 3287 Metamora Road, Oxford, Michigan 48371 – however, that was a temporary location and all manufacturing has and would continue to take place at its facility on Clark Rd.). Equipment installation would occur within Grid Logic's manufacturing facility and no facility expansion would be required. Minor ground disturbance would occur to span a causeway within the facility that has no foundation. The ground disturbance would be approximately 15 ft. wide by 15 ft. long and 4 ft. deep.

It is anticipated the proposed project will not require new or modified permits (the exception being any permits related to construction of the causeway). SEP funds will not be used to install wind turbines. Michigan's SHPO determined the proposed project was "exempt" from Section 106 (email attached). The DOE has determined the proposed project will have No Effect on any endangered or threatened species.

The proposed project is consistent with categorical exclusion B1.31, "installation of equipment" as it would install and operate manufacturing machinery that is consistent with the general missions of Grid Logic's facility.

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 :

SEP funding - \$1,023,000.
Total project cost - \$1,323,000.
EF2a prepared by Melissa Rossiter.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: *Justin Ker* NEPA Compliance Officer Date: 11/15/2011

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