

EERE-2011-001

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



RECIPIENT: Princeton Power Systems

STATE: NJ

PROJECT TITLE : Marine High-Voltage Power Conditioning and Transmission System with Integrated Energy Storage

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000293	DE-EE0003640	GFO-0003640-001	GO0

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 (including, but not limited to, literature surveys, inventories, audits), data analysis (including computer modeling), document preparation (such as conceptual design or feasibility studies, analytical energy supply and demand studies), and dissemination (including, but not limited to, document mailings, publication, and distribution; and classroom training and informational programs), but not including site characterization or environmental monitoring.
- B3.6** Siting, construction (or modification), operation, and decommissioning of facilities for indoor bench-scale research projects and conventional laboratory operations (for example, preparation of chemical standards and sample analysis); small-scale research and development projects; and small-scale pilot projects (generally less than two years) conducted to verify a concept before demonstration actions. Construction (or modification) will be within or contiguous to an already developed area (where active utilities and currently used roads are readily accessible).

Rational for determination:

Princeton Power Systems, Inc is proposing to use DOE funding to further develop and test a marine high-voltage power conditioning and transmission system. The objective is to advance a power converter which will be efficient, compact and light weight for interfacing Marine Hydrokinetic energy source to HVDC power delivery system.

Princeton Power Systems will develop, design, and test this proposed technology at their headquarters facilities in Princeton, NJ. This is a 10,000 sq.ft facility designed for the development, testing, and manufacturing of high-power electronics systems. This is a fully licensed facility with established safety and chemical handling protocols. All activities meet OSHA standards and the site is monitored and audited by OSHA, TUV, CSA, Township and the Sarnoff Corporation (Landlord). A GO R&D/Facility questionnaire has been fully filled out providing additional details on safety, chemical handling and disposal protocols.

Based on the above discussion DOE has determined that the impacts related to the proposed project are anticipated to have negligible or no effects on the human and natural environment. The proposed project is consistent with actions outlined in A9 (information gathering) and B3.6 (indoor bench-scale research projects and conventional laboratory operations) 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:

Note to Specialist :

Laura Margason 2.24.2011

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____

Date: _____

3/1/11