PMC-EF2a

(2,06,02)

ILS. DEPARTMENT OF ENERGY EERE PROJECT MANAGEMENT CENTER NEPA DETERMINATION



RECIPIENT:Columbia University

STATE: NY

PROJECT TITLE:

Integrated dc-dc conversion for energy-efficient multicore microprocessors

Funding Opportunity Announcement Number DE-FOA-0000107

DE-EE0002892

Procurement Instrument Number NEPA Control Number CID Number

GFO-10-236

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:

- 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:

Columbia University is proposing to use ARRA funding through DOE to research methods to reduce energy consumption in future servers by addressing the power issue at the processor chip level rather than the motherboard level. Development will include design and prototype fabrication of the technologies.

Research will take place at Columbia University and Cornell University laboratory facilities located on campus.

An R&D questionnaire has been filled out for both facilities which address their established safety protocols, chemical handling and waste stream disposal protocols applicable to this project work. Columbia and Cornell's laboratories are issued permits by the state Fire Departments to operate as non-production chemical laboratories.

This project comprises information gathering and conventional laboratory bench-scale research in established University facilities; therefore a CX A9 and B3.6 applies.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist:

None Given.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature

IEPA Compliance Officer

Date: 3/2/10

FIELD OFFICE MANAGER DETERMINATION

	Field Office Manager review requir	ed			
NC	O REQUESTS THE FIELD OFFIC	CE MANAGER REVIEW	FOR THE FOLLOWING	G REASON:	
	Proposed action fits within a catego Manager's attention. Proposed action falls within an EA				
BAS	SED ON MY REVIEW I CONCUR	WITH THE DETERMI	NATION OF THE NCO :		
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