PMC-ND

(1.08.09.13)

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



RECIPIENT:S-RAM Dynamics

STATE: TN

PROJECT TITLE:

Natural Refrigerant high performance heat pump for commercial applications

Funding Opportunity Announcement Number Procurement Instrument Number NEPA Control Number CID Number DE-FOA-0000823

DE-EE0006346

GFO-0006346-001

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:

B3.6 Small-scale research and development, laboratory 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 operations, and pilot 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:

S-Ram Dynamics is proposing to use DOE funding to design, fabricate and test an air source heat pump targeted for heating, ventilation, and air conditioning purposes. The proposed heat pump would utilize air as the working gas, thus eliminating the need for hydrofluorocarbon use.

S-Ram would use DOE funding to complete prototype design work and testing scenarios using computer modeling software. Once design work is complete the prototype would be fabricated and tested by three sub-contractors in established laboratory facilities. These include Purdue University, Oakridge National Laboratory and ReGen Power. Each facility would follow their respective safety and waste handling protocols, as governed by State and local agencies. No hazardous materials would be used for this project.

DOE has determined that this project is consistent with actions covered under DOE CX B3.6 (smallscale research and development projects and conventional laboratory operations); and therefore is 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.

Note to Specialist:

NEPA review completed by Laura Margason on August 28, 2013

This NEPA Determination does not require a tailored NEPA provision.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature:	© Electronically	Date:	8/28/2013
NET A Comphiance Officer Signature.	NEPA Compliance Officer	Date.	5/25/2010
FIELD OFFICE MANAGER DETERMINA	TION		
☐ Field Office Manager review required			
NCO REQUESTS THE FIELD OFFICE MA	ANAGER REVIEW FOR THE FOL	LOWING REASON:	
 □ Proposed action fits within a categorical extension. □ Proposed action falls within an EA or EIS 			
BASED ON MY REVIEW I CONCUR WIT	TH THE DETERMINATION OF TH	IE NCO:	
Field Office Manager's Signature:		Date: _	organization and
	Field Office Manager		

U.S. DOE: Office of Energy Efficiency and Renewable Energy - Environmental Question... Page 2 of 2