PMC-EF2a

2.04.025

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



RECIPIENT:National Center for Manufacturing Sciences

STATE: MI

PROJECT

Innovation Realization: Building and Supporting an Advanced Contract Manufacturing Cluster in

TITLE:

Southeast Michigan

Funding Opportunity Announcement Number Procurement Instrument Number NEPA Control Number CID Number JIAC2102AM

DE-EE0006030

GFO-0006030-001

GO6030

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, 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) laboratory operations, 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.

Rational for determination:

The U.S. Department of Energy (DOE) is proposing to provide federal funding to the National Center for Manufacturing Sciences (NCMS) to fund the development and deployment of Advanced Modeling and Simulation (AM&S) online tools to validate cost-effective, high-strength materials technologies and to identify energy-efficient manufacturing processes. Funding would also be used for research and development activities to analyze automated composite manufacturing processes and lightweight carbon fiber materials. Online access to both training materials and AM&S tools would be available to allow technical information to be disseminated to small and medium-sized manufacturers.

This DOE award is part of a multi-agency Federal Funding Opportunity partnership titled the Advanced Manufacturing Jobs and Innovation Accelerator Challenge (Advanced Manufacturing Jobs Accelerator). This NEPA Determination is for the DOE award.

The development and deployment of online tools for advanced modeling and simulation would take place over three budget periods. NCMS would develop a technical requirements roadmap for the online tools. NCMS would collaborate with software vendors, software integration partners and end-users to identify and document key requirements for the tools. Each budget period, a new "version" would be developed based on gathered information, feedback, issues, and opportunities to improve the online environment.

Research and development laboratory activities to analyze automated composite manufacturing processes and lightweight carbon fiber materials would occur at two General Electric (GE) advanced manufacturing research and development facilities; GE Advanced Manufacturing and Software Technology Center, 1 Village Center Drive, Van Buren Twp., Michigan, 48111 and GE Aviation Belleville, 41965 Ecorse Rd, Van Buren Twp., Michigan, 48111.

GE completed a R&D questionnaire addressing the protocols in place for laboratory safety, risk management, chemical handling and hazardous/non-hazardous waste disposal at both of its research and development facilities. GE has an established Environmental, Health and Safety (EHS) program and complies with standard environmental and safety procedures and frameworks. All handling and disposal of gases, chemicals, effluents and hazardous wastes comply with all appropriate regulations. All standard safety equipment is in place at the facilities. The facilities operate under all applicable permits. GMOs would not be used during this project.

Based on review of the project information and the above analysis, DOE has determined the proposed development

and deployment of online tools and the proposed research and development activities would not have a significant individual or cumulative impact to human health and/or environment. DOE has determined the proposed activities are consistent with actions contained in DOE categorical exclusions A9 "information gathering, analysis and dissemination," and B3.6 "small-scale research and development, laboratory operations and pilot projects," and are 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:

Obadiah Broughton 12/13/2012

DOE funding: \$450,000 Cost share: \$112,500 Total Project Cost: \$562,500

SIGNATURE	OF THIS MEMOR	ANDIM CONSTITUTES A	RECORD OF THIS DECISION

NE	PA Compliance Officer Signature:	Signed By: Lori Gray	y Lay Date:	12/13/2012		
		NEPA Compliance Officer				
FIE	LD OFFICE MANAGER DETERMINATION	N .				
	Field Office Manager review required					
NC	O REQUESTS THE FIELD OFFICE MANAGE	GER REVIEW FOR THE FOLLO	OWING 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.					
BA	SED ON MY REVIEW I CONCUR WITH TH	HE DETERMINATION OF THE	NCO:			
Fiel	d Office Manager's Signature:	Date:				
	AT 6	Field Office Manager				