PMC-ND
(1.08.09.13)

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

RECIPIENT: Collaborative Composite Solutions (CCS) Corporation **STATE:** TN

PROJECT TITLE : Institute for Advanced Composites Manufacturing Innovation

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
FOA-0000977	DE-EE0006926	GFO-0006926-002	GO6926

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.)
A11 Technical advice and assistance to organizations	Technical advice and planning assistance to international, national, state, and local organizations.
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.
B3.6 Small-scale research and development, laboratory operations, 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) 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.

Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide federal funding to Collaborative Composite Solutions Corporation for the Institute for Advanced Composites Manufacturing Innovation (IACMI) project. The Institute is planned as a consortium established under a Cooperative Agreement with the DOE with participation from sub-recipients of the award, private companies, universities and other educational institutions, as well as other state and federal government agencies and research organizations. IACMI's technology development and demonstration programs would focus on reducing technical risk and developing a robust supply chain to support growing applications of advanced composites in vehicles, wind energy and compressed gas storage. Participating states would engage their economic development and education programs to encourage new business formation and develop a capable workforce to serve the composites industry. This project has five budget periods but only project activities within budget period 1 and 2 (BP1 and BP2) have been defined. BP1 was reviewed in a previous NEPA Determination (GFO-0006926-001; 06/04/2015). This NEPA Determination is specific to BP2 only. Further NEPA review will be required for the remaining budget periods once those activities have been defined and negotiated.

Each task/subtask in BP2 would be completed by either the prime recipient or one of the project partners. For the project partners listed in question 2b of the completed EQ1, the scope of work for proposed activities in BP2 are generally laboratory scale operations; equipment installation; data analysis and modeling; or educational, managerial, and reporting activities. The location of the facilities and description of proposed activities for the prime recipient and each partner are detailed within question 2b of the completed EQ1 for the project. Initially, entries detailed in question

2b include only those projects approved by the contracting officer at the start of BP2. Additional entries in question 2b may be incorporated as new partners are brought into the IACMI project and specific sites are identified as long as these additional entries conform to the rationale and CXs applied in this NEPA Determination. Any new partners that do not fit the above will be required to submit separate EQ1s for further review.

All facilities would conduct activities consistent with current operations and expansion or modification of facilities is not expected to occur in BP2. None of the activities occurring at any of the listed facilities would require any new permits, licenses or authorizations for BP2 activities. No new waste streams or effluents would be produced as a result of the proposed activities in BP2. Vanderbilt University would expand on the development and the capabilities of the mobile NDE laboratory started in BP1 for transport to other IACMI sites and industry partners for performing non-destructive evaluation. This equipment would include only sensors, transducers, measurement devices (both optical and electrical) and associated software for performing the analysis. Any work proposed to be conducted at a DOE laboratory may be subject to additional NEPA review by the cognizant DOE NEPA Compliance Officer for the specific DOE laboratory prior to initiating such work. Further, any work conducted at a DOE laboratory must meet the laboratory's health and safety requirements.

Based on review of the project information, DOE has determined the proposed activities in BP2 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," A11 "Technical advice and assistance to organizations," B1.31 "installation or relocation of machinery and equipment," 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 conditional NEPA determination for this award, and funding for certain tasks under this award is contingent upon the final NEPA determination.

Insert the following language in the award:

You are restricted from taking any action using federal funds, which would have an adverse affect on the environment or limit the choice of reasonable alternatives prior to DOE/NNSA providing either a NEPA clearance or a final NEPA decision regarding the project.

Prohibited actions include:
Budget Periods 3 through 5 activities
This restriction does not preclude you from:
Budget Periods 1 and 2 activities
If you move forward with activities that are not authorized for federal funding by the DOE Contracting Officer in advance of the final NEPA decision, you are doing so at risk of not receiving federal funding and such costs may not be recognized as allowable cost share.

Insert the following language in the award:

You are required to:
Any work proposed to be conducted at a DOE laboratory may be subject to additional NEPA review by the cognizant DOE NEPA Compliance Officer for the specific DOE laboratory prior to initiating such work. Further, any work conducted at a DOE laboratory must meet the laboratory's health and safety requirements.

The recipient is required to consult with the DOE Project Officer and NEPA Specialist regarding any project that would result in:
• changes in function, use, or operation of existing facilities, and/or
• modifications to existing facilities, and/or
• ground disturbing or new construction activities
prior to initiating any of these activities in order to determine whether additional NEPA review is required.

Note to Specialist :

This NEPA Determination requires a tailored NEPA provision.
Advanced Manufacturing Office
Casey Strickland 01/22/16

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____ Date: 1/26/2016
NEPA Compliance Officer

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