

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-EEE0006926	GFO-0006926-003	

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; 06/04/15). A BP2 NEPA Determination was completed (GFO-0006926-002; 01/26/16) for project partners whose proposed activities were either strictly intellectual, academic, and analytical activities or would be conducted at facilities where the proposed activities were consistent with current operations and expansion or sizable modification of facilities were not expected to occur in BP2. Any partners with proposed activities that do not fit the above are required to submit separate EQ1s for further review. This NEPA Determination is specific to BP2 work

occurring as part of Michigan State University (MSU) activities related to the planned IACMI Scale-up Facility at 1400 Rosa Parks Blvd. in Detroit, Michigan.

This location for the IACMI Scale-up Facility was formerly an injection molding facility for a Tier 1 automotive supplier and is already zoned appropriately (Industrial) for the work proposed. The activities occurring at this location would include equipment installation, internal utility routing, erection of dividing walls, excavation/lining of an in-ground pit to accommodate a 4000 ton compression molding press, and parking lot modifications. Only the installation of the 4000 ton press would require building modifications. The press would require excavation and lining of a first floor pit approximately 26-feet by 40-feet by 16-feet deep. The height of the existing roof structure would not require modification although select areas of the roof deck may need to be removed to install parts of the new press. After installation the metal deck and roofing materials would be replaced. Parking lot modifications would require clearing of ornamental vegetation and would change the layout and number of parking spaces and the traffic flow pattern on site but connections from the parking lot to roadways would not be modified. Traffic flow along roadways would not be affected. The recipient will submit engineering designs and construction permits for the building and parking lot modifications to the DOE in advance of any related construction activity.

Once established, the facility would function as a laboratory to develop and demonstrate composite molding processes at full scale for the IACMI industrial member base. MSU's office of environmental, safety and health would be engaged to establish all necessary safety & health requirements and procedures. Laboratory technicians would be trained in the proper handling, use and disposal of laboratory materials and solvents. Proper safety procedures would be followed around full scale molding equipment to avoid injury and training would be provided to all project workers.

This facility location is near the Corktown Historic District but none of the proposed activities would have the potential to affect the district. None of the proposed activities would affect traffic flow or change the nature and use of the location or the area. DOE does not anticipate impacts to any resource of concern due to the proposed activities.

Based on review of the project information, DOE has determined MSU's proposed BP2 activities for the IACMI Scale-up Facility location 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 Period 3 through 5 activities

This restriction does not preclude you from:

Budget Period 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:

The recipient will submit engineering designs and construction permits for the building and parking lot modifications to the DOE Project Officer in advance of any related construction activity.


Note to Specialist :

This NEPA Determination requires a tailored NEPA provision.

Advanced Manufacturing Office

Casey Strickland 02/19/16

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: 
NEPA Compliance Officer

Date: 2/25/2016

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: _____
Field Office Manager

Date: _____