

PMC-EF2a

(2.0402)

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



RECIPIENT: Technology 2020

STATE: TN

PROJECT TITLE : AMP! Advanced Manufacturing and Prototyping Center of East Tennessee

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
JAC2012AM	DE-EE0006032	GFO-0006032-001	

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:

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.
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.

Rational for determination:

The U.S. Department of Energy (DOE) is proposing to provide federal funding to Technology 2020 to promote growth of advanced manufacturing throughout a twenty-county region in eastern Tennessee. Through this project, Technology 2020 would create a network/consortium of regional manufacturing firms and manufacturing resources including technical experts at the DOE Oak Ridge National Laboratory's (ORNL) Manufacturing Demonstration Facility. The Technology 2020 consortium, called the AMP! Consortium (Advanced Manufacturing and Prototype), would allow manufacturers to collaborate on advancing commercialization of advanced and additive manufacturing processes and technologies with technical experts and develop a regional advanced manufacturing workforce.

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 applies only to the tasks identified in the DOE award.

DOE funding would be used for project management and information gathering, analysis and dissemination activities associated with the marketing, development and management of the AMP! Consortium. Funding would also be used to implement a "Co-lab" concept for advanced manufacturing research and development (R&D) by establishing two Co-lab locations for regional manufacturers to co-locate with technical experts to execute approximately 15 advanced manufacturing R&D projects over the three year budget period of this DOE award. The scope of work for these R&D projects is unknown at this time.

One of the two "Co-lab" locations would be located at the DOE ORNL Manufacturing Demonstration Facility in Oak Ridge, Tennessee. ORNL is a key partner and sub-recipient to Technology 2020 and would provide technical advice and access to laboratories at the ORNL Manufacturing Demonstration Facility. All proposed R&D projects that would be completed at the DOE ORNL facility may be subject to additional NEPA review by the appropriate DOE NEPA Compliance Officer at ORNL.

The second "Co-lab" location would be a Technology 2020 incubator facility located at the Oak Ridge Entrepreneurial Center, 1010 Commerce Park Drive, Oak Ridge, Tennessee. Technology 2020 completed a R&D questionnaire addressing the protocols in place for laboratory safety, risk management, chemical handling and hazardous/non-

hazardous waste disposal at its incubator facility. At this time the facility is not equipped with laboratory equipment and does not have any permits or laboratory safety protocols established. The facility is equipped with fire extinguishers, fire alarms, sprinklers systems, theft and intruder alarm systems, fire doors and basic utilities.

Activities to be conducted at the Technology 2020 incubator facility include information gathering, data analysis, document preparation, information dissemination, technical advice and advanced manufacturing R&D projects. However, due to the undefined work scope of the R&D advanced manufacturing projects any activities that would involve facility modifications and/or R&D laboratory work would need to undergo further NEPA review. In addition, appropriate permits would need to be obtained and laboratory safety equipment and protocols would need to be established.

This NEPA determination covers project management activities associated with the marketing, development and management of this project and the AMP! Consortium; advanced manufacturing R&D activities at the ORNL MDC facility; and advanced manufacturing technology information gathering, analysis activities at the Technology 2020 facility that do not involve work in a laboratory and/or any facility modifications. The Technology 2020 facility is not currently equipped with facilities to perform laboratory R&D activities and these potential activities are unknown at this time; therefore, potential impacts of these activities cannot be evaluated and a NEPA determination cannot be completed at this time. Any activities associated with advanced manufacturing R&D projects in a laboratory at the Technology 2020 facility and/or any facility modifications at the Technology 2020 facility are subject to further NEPA review and approval before expenditure of any funds associated with these activities.

Based on review of the project information and the above analysis, DOE has determined the proposed project management activities associated with the marketing, development and management of this project and the AMP! Consortium; advanced manufacturing R&D activities at the ORNL MDC facility; and information gathering, analysis activities at the Technology 2020 facility that do not involve work in a laboratory and/or facility modifications would not have a significant individual or cumulative impact to human health and/or environment. R&D activities to be completed at ORNL may be subject to additional NEPA review by the appropriate DOE NEPA Compliance Officer at ORNL. 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," 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:

Activities associated with advanced manufacturing research and development (R&D) projects in a laboratory at the Technology 2020 facility and/or facility modifications at the Technology 2020 facility.

This restriction does not preclude you from:

Activities associated with the marketing, development and management of this project and the AMP! Consortium; information gathering, analysis activities at the Technology 2020 facility that do not involve work in a laboratory and/or facility modifications; and advanced manufacturing R&D activities at the ORNL MDC facility. R&D activities to be completed at ORNL may be subject to additional NEPA review by the appropriate DOE NEPA Compliance Officer at ORNL.

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:

Submit an additional EF1 and project information for activities associated with advanced manufacturing research and development (R&D) projects in a laboratory at the Technology 2020 facility and/or facility modifications at the Technology 2020 facility for NEPA review.

Note to Specialist :

This project has a NEPA hold on activities associated with advanced manufacturing research and development (R&D) projects in a laboratory at the Technology 2020 facility and/or any facility modifications at the Technology 2020 facility and will require an additional NEPA review and approval prior to expenditure of funds for these activities.

Obadiah Broughton 12/20/2012

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

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: Electronically Signed By: Lori Gray *Lori Gray* Date: 12/20/2012
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