

PMC-ND
(1.08.09.13)

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



RECIPIENT: UCLA

STATE: CA

PROJECT TITLE: Clean Energy Smart Manufacturing Innovation Institute (CESMII)

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0001263	DE-EE0007613	GFO-0007613-BP4	GO7613

Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Policy 451.1), 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 funding to the Clean Energy Smart Manufacturing Innovation Institute (CESMII) for DOE's third Manufacturing Innovation Institute under the Clean Energy Manufacturing Initiative. The purpose of the Clean Energy Manufacturing Initiative is to strengthen U.S. clean energy manufacturing competitiveness and to increase U.S. manufacturing competitiveness across the board by boosting energy productivity and leveraging low-cost domestic energy resources as fuels and feedstocks. CESMII is funded under a Cooperative Agreement with the DOE and with participation from numerous sub-recipients working as a distributed network of Smart Manufacturing Innovation Centers (SMICs). These SMICs would develop an integrated system of advanced sensors, controls, platforms, and modeling across a diverse portfolio to drive technology, manufacturing practice, and technical projects and services to achieve wide spread Smart Manufacturing and industry driven transformation.

This project has five budget periods but only project activities within budget periods 1, 2, 3 and 4 (BP1, BP2, BP3 and BP4) have been defined. This NEPA Determination is specific to BP4 only. DOE completed previous NEPA Determinations (GFO-0007613-001 on 12/07/2016; A9, A11, B1.31, B2.1 and GFO-0007613-BP2 on 3/6/2018; A9, A11, B1.31, B2.1 and GFO-0007613-BP3 on 2/3/2020; A9, A11, B1.31, B3.6) for BP1, BP2 and BP3 activities. Further NEPA review will be required for the remaining budget period once those activities have been defined and negotiated.

Each task/subtask in BP4 will be completed by either the prime recipient or one of the sub-recipients. The prime recipient and the sub-recipients are listed in the document "0-MOD0019 BP4 added NEPA - CESMII Prime Subs BP4

update V2” attached in the Project Management Center rather than the 2b table in the EQ1. The scope of work for proposed activities in BP4 are generally intellectual, academic and analytical activities with research and development limited to five areas: management and operations; technology research and development including evaluation and analysis; education and workforce development; CESMII sustainability; and communications and outreach.

Smart Manufacturing Innovation Center projects selected under Subtask 1.8 and selected Roadmap Projects under Subtask 2.3 (Innovation Projects) include activities limited to modeling, simulations, data analytics, testbed development and implementation (i.e., integrating sensors onto existing manufacturing assets located within existing facilities), technical assistance and analytical efforts. Budgets for each project would not exceed \$200,000 in total costs. These activities do not require an Environmental Questionnaire submission, but the Recipient will include these projects in their spreadsheet of projects and activities for DOE. All projects must be of the same nature and scale of activities that DOE authorized in this DOE NEPA Determination. Any proposed work that requires the construction of new facilities, modifies existing facilities, increases the output or scale of current activities, or changes the type of activities that occur at an existing facility will be required to submit additional information to the DOE and may undergo additional NEPA review and written authorization from the Contracting Officer.

The location of facilities and a description of proposed activities for the prime recipient and each sub-recipient is detailed within the attached document “0-MOD0019 BP4 added NEPA - CESMII Prime Subs BP4 update V2”. Initially, entries include only those projects approved by the contracting officer at the start of BP4. Additional entries in the document may be incorporated as new sub-recipients are brought into the CESMII project and specific sites are identified as long as the activities of the new sub-recipients conform to the rationale and CXs applied in this NEPA Determination. New sub-recipients or sites that do not fit the above description of activities will be required to submit separate EQ1s for further review, including a new facility for CESMII offices, since the previously identified location is no longer under consideration.

None of the activities occurring at any of the listed facilities would require any new permits, licenses or authorizations for BP4 activities. All listed facilities would conduct activities consistent with current operations and would not be expanded or modified beyond small, nonstructural improvements for equipment installation. Manufacturing activities at some locations would require the use of various hazardous materials, including metals and industrial solvents with requirements for high temperatures. All storage, handling, and disposal of hazardous materials and protocols for high temperature activities would be in accordance with federal, state, and local regulations, as well as health and safety policies and procedures at each facility.

NEPA PROVISION

DOE has made a conditional NEPA determination.

The NEPA Determination applies to the following Topic Areas, Budget Periods, and/or tasks:

Budget Period 1, 2, and 4 activities
Budget Period 3 activities (excluding Subtask 2.1.17)

The NEPA Determination does not apply to the following Topic Area, Budget Periods, and/or tasks:

Budget Period 3 Subtask 2.1.17 – Baxter: Advanced Wireless Sensor PAT for Pharmaceutical Lyophilization
Budget Period 5 activities

Include the following condition in the financial assistance agreement:

The Recipient is required to consult with the DOE Project Officer and NEPA Specialist regarding any activities that would result in:

- *changes to existing use of 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.

Notes:

This NEPA Determination requires a tailored NEPA provision.
Advanced Manufacturing Office

Diana Heyder 02/11/2021

FOR CATEGORICAL EXCLUSION DETERMINATIONS

The proposed action (or the part of the proposal defined in the Rationale above) fits within a class of actions that is listed in Appendix A or B to 10 CFR Part 1021, Subpart D. To fit within the classes of actions listed in 10 CFR Part 1021, Subpart D, Appendix B, a proposal must be one that would not: (1) threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, or similar requirements of DOE or Executive Orders; (2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities (including incinerators), but the proposal may include categorically excluded waste storage, disposal, recovery, or treatment actions or facilities; (3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that preexist in the environment such that there would be uncontrolled or unpermitted releases; (4) have the potential to cause significant impacts on environmentally sensitive resources, including, but not limited to, those listed in paragraph B(4) of 10 CFR Part 1021, Subpart D, Appendix B; (5) involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species, unless the proposed activity would be contained or confined in a manner designed and operated to prevent unauthorized release into the environment and conducted in accordance with applicable requirements, such as those listed in paragraph B(5) of 10 CFR Part 1021, Subpart D, Appendix B.

There are no extraordinary circumstances related to the proposed action that may affect the significance of the environmental effects of the proposal.

The proposed action has not been segmented to meet the definition of a categorical exclusion. This proposal is not connected to other actions with potentially significant impacts (40 CFR 1508.25(a)(1)), is not related to other actions with individually insignificant but cumulatively significant impacts (40 CFR 1508.27(b)(7)), and is not precluded by 40 CFR 1506.1 or 10 CFR 1021.211 concerning limitations on actions during preparation of an environmental impact statement.

A portion of the proposed action is categorically excluded from further NEPA review. The NEPA Provision identifies Topic Areas, Budget Periods, tasks, and/or subtasks that are subject to additional NEPA review.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____



Casey Strickland

NEPA Compliance Officer

Date: 2/12/2021

FIELD OFFICE MANAGER DETERMINATION

- Field Office Manager review not required
 Field Office Manager review required

BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO :

Field Office Manager's Signature: _____

Field Office Manager

Date: _____