PMC-ND

(1.08.09.13)

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



RECIPIENT: Dais Analytic Corporation

STATE: FL

PROJECT TITLE: Membrane Based Air Conditioning

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0001166	DE-EE0007041	GFO-0007041-001	GO7041

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:

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.)
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 Dais Analytic Corporation to develop and test a small (3 – 10 tons), commercial, remote terminal unit (RTU) demonstrating membrane-based heating, ventilation, and air conditioning (HVAC).

The proposed activities would include design, fabrication, assembly, and testing of a prototype rooftop HVAC system with a design capacity of 7.5 tons of refrigeration. Design and fabrication would be performed at the facilities of Dais Analytic in Odessa, FL, Oak Ridge National Lab (ORNL) in Oak Ridge, TN, and Xergy Inc. in Seaford, DE. Testing would be performed in existing labs at ORNL. All research and development activities would take place in existing facilities designed for this type of research; therefore, no modifications or new permits, additional licenses and/or authorizations would be necessary. The project would not require any new facilities to be constructed or any change in use, mission, or operation of existing facilities arising out of or resulting from work under the project.

The proposed activities would involve the use of common industrial adhesives, sealants, and solvents as well as rotating machinery. All machinery would be properly guarded and protected by safety interlocks and hazardous materials would be managed in accordance with federal, state, and local environmental regulations. For all work conducted at DOE laboratories, project activities may be subject to additional NEPA review by the cognizant NEPA Compliance Officer for the lab and will be required to meet the labs health and safety requirements. Waste resulting from this project would be non-hazardous and would be drained in accordance with federal, state, and local environmental regulations. Solid waste would include components made from common plastics, sheet metal, and garbage, all of which will be recycled/disposed of according to local, state and federal standards. No siting, construction or major expansion of waste storage, disposal, recovery, or treatment actions/facilities would be required.

Based on review of the project information and the above analysis, DOE has determined the proposed project would not have a significant individual or cumulative impact to human health and/or environment. DOE has determined that this project is consistent with actions outlined in DOE categorical exclusions A9 "Information gathering, analysis, and dissemination" and B3.6 "Small-scale research and development, laboratory operations, and pilot projects" and is

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therefore 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 :

Building Technologies Office This NEPA determination does not require a tailored NEPA provision. Review completed by Rebecca McCord on 05/19/2015

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature:

Compliance Officer

Date: 5/20/2015

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

https://www.eere-pmc.energy.gov/GONEPA/ND_Form.aspx?key=20755

Date: