PMC-ND

(1.08.09.13)

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



RECIPIENT: University of California, Berkeley			STATE: CA		
	Advanced Electrodes For Stable, High-Performance, Alkaline-Exchange-Membrane Electrolyzers Without Supporting Electrolyte				
Funding Opportunity Announcement Number DE-FOA-0002922		Procurement Instrument Number DE-EE0011322	NEPA Control Number GFO-0011322-001	CID Number GO11322	
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 A Description:	ND NUMBER:				
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.)				
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.				
B3.15 Small-scale indoor research and development projects using nanoscale materials	research and develop accordance with appli administrative regulati Construction and mod	uction, modification, operation, and decommissioning of facilities for indoor small-scale development projects and small-scale pilot projects using nanoscale materials in vith applicable requirements (such as engineering, worker safety, procedural, and e regulations) necessary to ensure the containment of any hazardous materials. and modification activities would be within or contiguous to a previously disturbed or ea (where active utilities and currently used roads are readily accessible).			

Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide federal funding to the University of California, Berkeley (Cal), for the development and testing of advanced electrodes used in membrane electrolyzers of fuel cells. Proposed project activities would consist of research, development, laboratory operations, and data collection and analysis. A community benefits plan would also be developed and implemented.

The proposed award activities would occur over three budget periods (BPs), with Go/No Go decision points between the BPs. Electrocatalysts and ionomers would be developed, interfaced, and tested at Cal in Berkeley, California. Pilot scale testing would occur at Versogen in Newark, Delaware. Commercial-scale fabrication of electrodes and fuel cell testing would occur at De Nora Tech in Concord, Ohio. The University of Delaware in Newark, Delaware, would assist with research and development.

All project activities would be completed in existing, purpose-built facilities. No ground disturbance or change in use, mission, or operation of facilities would be required. Potential hazards include working with electricity, solvents, and nanoparticles. Award recipients would adhere to established health and safety policies and procedures when performing project work, and would observe all applicable federal, state, and local health, safety, and environmental regulations. All nanoscale materials would be handled using proper engineering controls.

DOE has considered the scale, duration, and nature of proposed activities to determine potential impacts on resources, including those of an ecological, historical, cultural, and socioeconomic nature. DOE does not anticipate impacts on these resources which would be considered significant or require DOE to consult with other agencies or stakeholders.

DOE has made a final NEPA determination.

Notes:

Hydrogen and Fuel Cell Technologies Office NEPA review completed by Andrew McClellan, 28 June 2024

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.

The proposed action is categorically excluded from further NEPA review.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature:	Signed By: Melissa Parker	Date:	7/1/2024
-	NEPA Compliance Officer		

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:

Date:

Field Office Manager