PMC-ND

(1.08.09.13)

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

A BULLET
STOTES

RECIPIENT:	SCIPIENT: Penn State University			STATE: PA	
PROJECT TI	TTLE : Develop	ment of Functional Electrolytes for Li-S Battery Cells			
Funding Opportunity Announcement Number DE-FOA-0002420			Procurement Instrument Number DE-EE0009647	NEPA Control Number	CID Number
Based on my	review of the information conce	rning the proposed action, as NEPA Compliance Officer (author	orized under DOE Policy 451.1), I have made the following	ng determination:	
CX, EA, EIS Description:	APPENDIX AND 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.)			
dev	B3.6 Small-scale research and development, laboratory operations, and pilot projects (conventional laboratory operations, and pilot projects) (conventional advance) and sample analysis); and small-scale pilot projects (generally less than 2 years) frequently conducted to verify a concept before demonstration construction or modification would be within or contiguous to a previously disturbed or developed area (where active utilities and currently used roads are readily and being or modification), meaning actions that are undertaken at a scale to show whether a technology would be viable on a larger scale and suitat deployment.		actions, provided that ccessible). Not included in		
	1 Actions to conserve rgy or water	(a) Actions to conserve energy or water, demonstrate potent the indoor or outdoor concentrations of potentially harmful at manufacturers, and designers), organizations (such as utilit insulation and replacing windows and doors); programmed flow plumbing futures (such as faucets, tolets, and showert generator efficiency and appliance efficiency ratings; efficie generally less than 10 megawatt equivalent); transportation recognition); development of energy-efficient manufacturing, plot projects. Overed actions include building renovations residential, agricultural, academic, institutional, or industrial in BS (1b) of this appendix. (b) Covered actions include rule would not: (1) have the potential to cause a significant chan disturbance); (2) involve significant unresolved conflicts cor increase in the disposal of materials posing significant risks energy consumption in a state or region.	substances. These actions may involve financial and fe livering of thermostat settings; placement of times on needs), heating, ventilation, and air conditioning system nor, improvements for vehicles and transportation (such management systems (such as traffic signal control sy , industrial, or building practices; and small-scale energ or new structures, provided that they occur in a previou sectors. Covered actions do not include rulemakings, smakings that establish energy conservation standards ge in manufacturing infrastructure (such as constructio noeming alternative uses of available resources (such as	chnical assistance to individuals (such as builders Covered actions include, but are not limited to w hot water heaters; installation or replacement of ns, and appliances; installation of drip-irrigation sy as lifet chargeout); power storage (such as fly ristems, car navigation, speed cameras, and autor y efficiency and conservation research and deve sly disturbed or developed area. Covered action standard-settings, or proposed DOE legislation, e for consumer products and industrial equipment, n of new manufacturing plants with considerable stare or limited raw materials); (3) have the pote	, owners, consultantis, veatherization (such as energy efficient lighting, low-ystems; improvements in wheels and batteries, matic plate number slopment and small-scale s could involve commercial, except for those actions listed provided that the actions associated ground intrial to result in a significant
Rationale for	determination:				

kationale for determination

NEPA PROVISION

DOE has made a final NEPA determination.

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 angor expansion of wast sorage, disposal, recovery, or treatment facilities (including inchentarios), but the proposal may induce ategorically secluded wast sorage, disposal, recovery, or treatment facilities (including inchentarios), but the proposal may induce ategorically schuled wast sorage, disposal, recovery, or treatment facilities (including inchentarios), but the proposal may include categorically schuled wast sorage, disposal, recovery, or treatment facilities (including inchentarios), but the proposal may include categorically schuled wast sorage, disposal, recovery, or treatment facilities (including inchentarios), but the proposal may include categorical schule action or and in the proposal may include a schule categorical schule actore schule active as (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 preduded 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:



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:

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Field Office Manager

Date:

Date:

8/6/2021