PMC-ND

(1.08.09.13)

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

| A BULLET |
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| STOTES |

| RECIPIENT: | The Pennsylvania | State University | | STATE: | PA | |
|--|--|---|--|--|--|--|
| PROJECT TITLE : | CT TITLE: Development of Li-S Battery Cells with High Energy Density and Long Cycling Life, Donghai Wang | | | | | |
| Funding Opportunity Announcement Number DE-FOA-0002420 | | | Procurement Instrument Number DE-EE0009650 | NEPA Control Number | CID Number | |
| 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.) | | | | |
| 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 plot 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. | | | | |
| B5.1 Action energy or v | is to conserve vater | (a) Actions to conserve energy or water, demonstrate potential en the indoor or outdoor concentrations of potentially harmful substat manufactures, and designers), organizations (such as utilities), a insulation and replacing windows and doors); programmed loweri flow plumbing fixtures (such as fauctes, tolets, and aboverheads), generator efficiency and appliance efficiency ratings; efficiency in generally less than 10 megawatt equivalent); transportation mana recognition; development of energy-efficient manufacturing, indu- plot projects. Covered actions include building renovations or ne residential, agricultural, academic, institutional, or industrial secto in B5.1(b) of this appendix. (b) Covered actions include rulemaking would not: (1) have the potential to cause a significant change in disturbance); (2) involve significant unresolved conflicts concernin increase in the disposal of materials posing significant risks to hui energy consumption in a state or region. | nces. These actions may involve financial and tech and governments (such as state, local, and tribal). O go of thermostat settings; placement of timers on t , heating, veritiation, and air conditioning systems provements for vehicles and transportation (such - gement systems (such as traffic signal control syst strial, or building practices; and smal-scale energy w structures, provided that they occur in a previous rs. Covered actions do not include rulemakings, sti ge that stablish energy conservation standards for manufacturing infrastructure (such as construction g alternative uses of available resources (such as | hnical assistance to individuals (given as build Covered actions include, but are not limited hot water heaters; installation or replacement s, and appliances; installation of drip-iringation as fleet changeoul); power storage (such as terms, car navigation, speed cameras, and a refliciency and conservation research and o y disturbed or developed area. Covered ao andard-settings, or proposed DOE legislation or consumer products and industrial equipme of new manufacturing plants with consideral rare or limited raw materials); (3) have the j | Iders, owners, consultants, to weatherization (such as of energy efficient lighting, low- n systems; improvements in flywheels and batteries, sutomatic plate number development and small-scale scale could involve commercial, n, except for those actions listed and, provided that the actions ble associated ground potential to result in a significant | |

Rationale 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 10CFR 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 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 limide to, those is ted 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