PMC-ND

(1.08.09.13)

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



Palo Alto Research Center, Inc. RECIPIENT: STATE: CA

PROJECT TITLE:

Field Validation of Packaged RAD-AC HVAC System: Efficiency and Load Shifting via Electrochemical Regeneration of Liquid Desiccants

NEPA Control Number CID Number Funding Opportunity Announcement Number DE-FOA-0002196 Procurement Instrument Number

Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Policy 4511), I have made the following determination:

CX, EA, EIS 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 surply and demands 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 by this subpart.)

B3.6 Small-scale research and development, aboratory operations, and pilot projects ample analysis); and small-scale pilot projects (generally less than 2 years) fequently conducted to verify a concept before demonstration actions, provided that construction or modification would be within or operations, and pilot projects of projects and pilot projects. 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 Actions to conserve energy or water

undertaken at a scale to show whether a technology would be viable on a larger scale and suitable for commercial deployment.

(a) Actions to conserve energy or water, demonstrate potential energy or water conservation, and promote energy efficiency that would not have the potential to cause significant changes in the indoor or outdoor concentrations of potentially harmful substances. These actions may involve financial and technical assistance to individuals (such as builders, owners, consultants, manufacturers, and designers), organizations (such as unature to the protection of th

Rationale for determination

NEDA	PROVIS	MOD

DOE has madea conditional NEPA determination

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

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

A completed EQ is required for the field/test sites. A separate NEPA review is required for the TBD test sites. This CX covers all activities except the TBD test sites.

Include the following condition in the financial assisstance agreement

Notes:

A completed EQ is required for the field/test sites. A separate NEPA review is required for the TBD test sites. This CX covers all activities except the TBD test sites.

## 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 statisty, regulatory, or permit requirements for environment, safety, and health or similar requirements of DDE or Executive Orders. (2) require using and construction or major expansion of waste strangs. Judgoesal, recovery, or treatment facilities, (including including including the proposal may in table dealegorized by excluded was severed as the control of a control of

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 comeded to other actions with potentially significant impacts (40 CFR 1508.27(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 Tonic 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:	Electronically Signed By: Jesse Garcia	Date:	8/24/2021
	NEPA Compliance Officer		
FIELD OFFICE MANAGER DETERMINATION			
Field Office Managerreview not required Field Office Managerreview required			
BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF	THE NCO:		
Field Office Manager's Signature:		Date:	
	Field Office Manager	-	