PMC-ND

(1.08.09.13)

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



RECIPIENT: Solar Dynamics LLC STATE: CO

PROJECT TITLE: Design Basis Document / Owners Technical Specification for Nitrate Salt Systems in CSP Projects

Funding Opportunity Announcement Number Procurement Instrument Number NEPA Control Number CID Number

DE-FOA-0002378 DE-EE0009810 GFO-0009810-001

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.)

A11 Technical advice and assistance to organizations

Technical advice and planning assistance to international, national, state, and local organizations.

#### Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide funding to Solar Dynamics to develop Design Basis Documents/Owner's Technical Specifications for concentrated solar power (CSP) systems that use nitrate salts as the heat transport fluid and thermal storage medium. The project team would review existing Design Basis Documents, compile information and data to update documents, and collaborate with industry contacts to work towards a new generic Design Basis Document.

Project activities would include developing plant operational and equipment requirements for salt systems, describing operating modes, performing risk analysis, determining type of specifications for salt systems, and proposing alternate designs. Industry participants would review documents and the final Design Basis Document would be presented at solar or storage webinars and conferences.

The proposed project would consist solely of intellectual, academic, and/or analytical activities. All project activities would be conducted from existing offices or computational facilities and use no materials beyond basic office supplies, software, and computer hardware.

### NEPA PROVISION

DOE has made a final NEPA determination.

Notes:

Solar Energy Technologies Office Review completed by Shaina Aguilar on 2/17/22.

# 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	M CONSTITUTES AT	RECORD OF 1	HIS DECISION.

NEPA Compliance Officer Signature:		Some By: Kristin Kerwin	Date:	2/17/2022	
		NEPA Compliance Officer			
FIE	LD OFFICE MANAGER DETERMINA	ATION			
	Field Office Manager review not required Field Office Manager review required				
BAS	SED ON MY REVIEW I CONCUR WIT	TH THE DETERMINATION OF THE NCO	:		
Field Office Manager's Signature:			Date:		
		Field Office Manager			