

PMC-EP2a

(20102)

**U.S. DEPARTMENT OF ENERGY
EERE PROJECT MANAGEMENT CENTER
NEPA DETERMINATION**



RECIPIENT: Abengoa Solar Inc

STATE: CO

PROJECT TITLE : Development of Molten-Salt Heat Transfer Fluid Technology for Parabolic Trough Solar Power Plants

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FC36-08GO18038	FC36-08GO18038	GFO-GO18038-001	GO18038

Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Order 451.1A), I have made the following determination:

CX, EA, EIS APPENDIX AND NUMBER:

Description:

- B3.6** Siting, construction (or modification), operation, and decommissioning of facilities for indoor bench-scale research projects and conventional laboratory operations (for example, preparation of chemical standards and sample analysis); small-scale research and development projects; and small-scale pilot projects (generally less than two years) conducted to verify a concept before demonstration actions. Construction (or modification) will be within or contiguous to an already developed area (where active utilities and currently used roads are readily accessible).
- A9** Information gathering (including, but not limited to, literature surveys, inventories, audits), data analysis (including computer modeling), document preparation (such as conceptual design or feasibility studies, analytical energy supply and demand studies), and dissemination (including, but not limited to, document mailings, publication, and distribution; and classroom training and informational programs), but not including site characterization or environmental monitoring.

Rational for determination:

This NEPA determination is for the continuation of a previous NEPA determination (GFO-08-186) to add a location for Task 6: Molten Salt Component Testing. The University of Wisconsin at Madison will assist in the testing component. Madison Scientific will be providing ball joints and valves for the testing. The University of Wisconsin is currently performing nuclear research for the United States Department of the Navy and currently has the necessary facilities and equipment in place for testing. Abengoa Solar Inc proposes to use federal funding for testing services offered by the University of Wisconsin-Madison. These tests will allow Abengoa Solar Inc to analyze the design pressure under zero flow conditions on joints, valves, and instrumentation.

The applicant has submitted an R & D questionnaire which thoroughly addresses all the chemical and safety handling protocols. The University currently oversees, internally, that laboratory operations adhere to EPA and OSHA guidelines.

This project includes information gathering and data analysis for the laboratory testing of molten salt; therefore a CX A9 & B3.6 applies.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

Eugene Brown 2/4/2011

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____ Kristin Kerwin *Kristin Ke* Date: 2/16/2011
NEPA Compliance Officer