

PMC-EF2a

(2010)

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



RECIPIENT: Abengoa Solar Inc

STATE: CO

PROJECT TITLE : Development of Next-Generation Parabolic Trough Collectors and Components for CSP Applications

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-PS36-07G097028	GO18037	GFO-08-183-001	GO18037

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).

Rational for determination:

DOE and cost share funding will be used by Abengoa Solar, Inc (Lakewood Colorado) to conduct an analysis a concentrator structure, the reflector that integrates into that structure, foundations, and installation techniques.

Phase 1 of this project has been previously reviewed by NEPA and has been issued a CX B3.6. This review is for Phase 2 of this project which involves continuing the analysis of solar thermal collector designs and prototyping promising designs. The prototyping and testing portion of the phase 2 work will involve module assembly, instrumentation, testing, data collection and data interpretation.

Individual prototype modules will be assembled and structurally tested at Abengoa Solar's Lakewood facility, Abengoa Solar's SolarTAC test facility in Aurora, and at NREL's solar outdoor test site.

Both of Abengoa's test sites include assembly/construction buildings and an adjacent, outdoor site for testing of parabolic trough solar collectors. Building and land permits from the City of Lakewood and the City of Aurora are current for both sites. The appropriate building and construction permits will be acquired by Abengoa from the city of Aurora prior to the installation of the additional collector loops at the Solar TAC.

An R&D questionnaire has been filled out for both testing site. This document thoroughly addresses current site use, safety, and waste stream protocols.

This project comprises laboratory research and small-scale pilot project within or contiguous to an already developed area; therefore a CX B3.6 applies.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

DOE has made a conditional NEPA determination for this award, and funding for certain tasks under this award is contingent upon the final NEPA determination.

Insert the following language in the award:

You are restricted from taking any action using federal funds, which would have an adverse affect on the environment or limit the choice of reasonable alternatives prior to DOE/NNSA providing either a NEPA clearance or a final NEPA decision regarding the project.

Prohibited actions include:

Phase 3 activities

This restriction does not preclude you from:

Phase 1 and Phase 2 project activities

If you move forward with activities that are not authorized for federal funding by the DOE Contracting Officer in advance of the final NEPA decision, you are doing so at risk of not receiving federal funding and such costs may not be recognized as allowable cost share.

Note to Specialist :

None Given.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: [Signature]
NEPA Compliance Officer

Date: 2/24/10

FIELD OFFICE MANAGER DETERMINATION

Field Office Manager review required

NCO REQUESTS THE FIELD OFFICE MANAGER REVIEW FOR THE FOLLOWING REASON:

- Proposed action fits within a categorical exclusion but involves a high profile or controversial issue that warrants Field Office Manager's attention.
- Proposed action falls within an EA or EIS category and therefore requires Field Office Manager's review and determination.

BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO :

Field Office Manager's Signature: _____
Field Office Manager

Date: _____