PMC-EF2a

(2.0.02)

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

RECIPIENT: Soitec **STATE:** CA

PROJECT TITLE : SANfab: Module Manufacturing Facility

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000566	EE0005739	GFO-0005739-001	

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:

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.)
B1.31 Installation or relocation of machinery and equipment	Installation or relocation and operation of machinery and equipment (including, but not limited to, laboratory equipment, electronic hardware, manufacturing machinery, maintenance equipment, and health and safety equipment), provided that uses of the installed or relocated items are consistent with the general missions of the receiving structure. Covered actions include modifications to an existing building, within or contiguous to a previously disturbed or developed area, that are necessary for equipment installation and relocation. Such modifications would not appreciably increase the footprint or height of the existing building or have the potential to cause significant changes to the type and magnitude of environmental impacts.
B5.1 Actions to conserve energy or water	(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 utilities), and governments (such as state, local, and tribal). Covered actions include, but are not limited to weatherization (such as insulation and replacing windows and doors); programmed lowering of thermostat settings; placement of timers on hot water heaters; installation or replacement of energy efficient lighting, low-flow plumbing fixtures (such as faucets, toilets, and showerheads), heating, ventilation, and air conditioning systems, and appliances; installation of drip-irrigation systems; improvements in generator efficiency and appliance efficiency ratings; efficiency improvements for vehicles and transportation (such as fleet changeout); power storage (such as flywheels and batteries, generally less than 10 megawatt equivalent); transportation management systems (such as traffic signal control systems, car navigation, speed cameras, and automatic plate number recognition); development of energy-efficient manufacturing, industrial, or building practices; and small-scale energy efficiency and conservation research and development and small-scale pilot projects. Covered actions include building renovations or new structures, provided that they occur in a previously disturbed or developed area. Covered actions could involve commercial, residential, agricultural, academic, institutional, or industrial sectors. Covered actions do not include rulemakings, standard-settings, or proposed DOE legislation, except for those actions listed in B5.1(b) of this appendix. (b) Covered actions include rulemakings that establish energy conservation standards for consumer products and industrial equipment, provided that the actions would not: (1) have the potential to cause a significant change in manufacturing infrastructure (such as construction of new manufacturing plants with considerable associated ground disturbance); (2) involve significant unresolved conflicts concerning alternative uses of available resources (such as rare or limited raw materials); (3) have the potential to result in a significant increase in the disposal of materials posing significant risks to human health and the environment (such as RCRA hazardous wastes); or (4) have the potential to cause a significant increase in energy consumption in a state or region.

Rational for determination:

DOE is proposing to provide federal funding to Soitec to develop a concentrated photovoltaic (PV) module factory with an annual production capacity of 280MW DC at an existing facility in San Diego, CA (proposed project).

The proposed project would be conducted at an existing leased facility located in a developed industrial park (16550 Via Esprillo, San Diego, California 92127). The facility is a 176,000 square-foot office and manufacturing center located on a 14.8 acre site. The facility was originally constructed in 1996.

Soitec would use DOE and cost-share funds for demolition of existing interior walls, excavation of interior floor to accommodate new structural footings, reinforcement of the foundation, and installation of new mechanical, electrical and plumbing systems as well as manufacturing tools. Also, the exterior dock yard would be cleared and excavated. The total area affected by the exterior work would be less than one acre and has been previously disturbed.

Soitec complies with standard safety procedures and has addressed the protocols for laboratory safety, risk management, chemical handling and waste disposal. Soitec will acquire and construct and operate the facility in accordance with the requirements of the following permits for the proposed project:

- City of San Diego Demolition Permit
- City of San Diego Structural Permit
- City of San Diego Electrical Permit
- City of San Diego Mechanical Permit
- City of San Diego Plumbing Permit
- City of San Diego Building Permit
- City of San Diego Significant Industrial User Permit (Wastewater)
- County of San Diego (Department of Environmental Health) Hazard Management Business Plan
- County of San Diego (Air Pollution Control District) Permit to Construct, Permit to Operate

A Hazardous Materials Business Plan will be submitted to the City of San Diego Fire Prevention Bureau (FPB-500 review). An EPA hazardous waste generator number will be obtained for Gallium Arsenide (D004) (~15 milligrams per day). Gallium Arsenide, a by-product of production, would be diluted with deionized water and captured in a dedicated waste containment.

Based on this information, DOE has determined the work outlined is consistent with activities identified in categorical exclusion A9 (information gathering, data analysis and dissemination), B1.31 (Installation or relocation of machinery and equipment) and B5.1 (actions to conserve energy). The project would not adversely impact any environmentally sensitive resources including properties eligible for listing on the National Register of Historic Places, federally-listed endangered species or critical habitat, wetlands, floodplains or special sources of water. CX A9, B3.1 and B5.1 apply.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

Cristina Tyler 6.21.2012

DOE Funding: $25,000,000
Cost-share: $115,490,000
Total project costs: $140,490,000

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____ Date: 6/21/2012
NEPA Compliance Officer

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: _____ Date: _____