

PMC-EF2a

(2010)

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



RECIPIENT: San Fran. Public Utilities Commission

STATE: CA

PROJECT TITLE : Brown Grease to Biodiesel Demonstration

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
	DE-EE0000621	GFO-10-076	0

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 (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.
- 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).
- B5.1** Actions to conserve energy, demonstrate potential energy conservation, and promote energy-efficiency that do not increase the indoor concentrations of potentially harmful substances. These actions may involve financial and technical assistance to individuals (such as builders, owners, consultants, designers), organizations (such as utilities), and state and local governments. Covered actions include, but are not limited to: programmed lowering of thermostat settings, placement of timers on hot water heaters, installation of solar hot water systems, installation of efficient lighting, improvements in generator efficiency and appliance efficiency ratings, development of energy-efficient manufacturing or industrial practices, and small-scale conservation and renewable energy research and development and pilot projects. The actions could involve building renovations or new structures in commercial, residential, agricultural, or industrial sectors. These actions do not include rulemakings, standard-settings, or proposed DOE legislation.

Rational for determination:

DOE is proposing to provide funding to the San Francisco Public Utilities Commission for the temporary installation of a portable biodiesel processing skid to determine the feasibility of processing fat-oil-grease (FOG) and brown grease for conversion to biodiesel product and increase the production of digester gas by the introduction of brown grease into the Oceanside Treatment Plant's anaerobic digesters. The temporary demonstration plant would be housed in a trailer and include a brown grease processing facility (BGPF) and a biodiesel production facility (BPF). The BGPF would consist of two (2) 12,000 gallon equalization tanks, one (1) brown grease screening and classifying auger, two (2) shaker screens, one (1) rag layer storage tank, one (1) reactor, one (1) boiler, two (2) pumps, two (2) dissolved air flotation devices in series, one (1) steam injection system, one (1) centrifuge, one (1) 9,000 gallon storage tank and ancillary piping, controls, instrumentation and electrical, structural, and access elements. The BPF is a self-contained unit.

The recipient also proposes to use the DOE funding for third-party analyticals necessary to ensure that the biofuel produced as a result of this demonstration will comply with American Society for Testing and Materials (ASTM) D 6751 certification requirements for road fuel.

All equipment involved in this project would be temporarily installed at the pre-existing and permitted waste water treatment site. The proposed project is covered by all current permitting.

The City and County of San Francisco has reviewed this project and found that the project is exempt from environmental review under the CEQA Class 6 categorical exemption.

CX A9 applies to the design and planning activities, CX B3.6 applies to the laboratory analysis and B5.1 applies to the installation and operation of the proposed equipment.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

None Given.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: Kristin Kerwin Date: 3/1/2010
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: _____
Field Office Manager