

PMC-EF2a

(10/4/02)

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



RECIPIENT: National Biodiesel Board

STATE: MO

PROJECT TITLE : Biodiesel Feedstock Development Initiative

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
CDP	DE-EE0003118	GFO-0003118-001	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).
- B3.1** Onsite and offsite site characterization and environmental monitoring, including siting, construction (or modification), operation, and dismantlement or closing (abandonment) of characterization and monitoring devices and siting, construction, and associated operation of a small-scale laboratory building or renovation of a room in an existing building for sample analysis. Activities covered include, but are not limited to, site characterization and environmental monitoring under CERCLA and RCRA. Specific activities include, but are not limited to:

Rational for determination:

The National Biodiesel Board proposes to use federal funding to implement a program aimed at creating a competitive biodiesel development market to spur growth and development of biodiesel as a realized product or energy usage.

This project will involve microalgae research for biodiesel production, to include improving microalgae harvesting methods and microalgae strain selection and carbon dioxide sequestration from coal flue gas. This project will also analyze lipid production on under-utilized acreage, to include advancement of seashore mallow – oilseed multi use crop and the usage of non tradition agronomic lands. An education and outreach program will also be part of this project to include algae education and feedstock outreach. Feedstock economics will also be analyzed.

Non tradition agriculture lands will consist of military bases, municipal lands, and highway road rights of way.

This project will take place in 5 locations: Donald Danforth Plant Science Center, University of Delaware, Lincoln University, & Utah State University.

The Donald Danforth Plant Science Center will utilize algae strains that have been genetically modified to improve derived sugars. All work will take place within the laboratory and no GMO's will be used outside of the laboratory. All GMO's will be destroyed prior to disposal. USDA-APHIS permits are in place for this work and subject to regular USDA inspections.

Lincoln University will perform work at the Bioenergy Research Laboratory on campus, as well as at the Missouri University chemistry research laboratories. The work done at these locations will be algae strain selection and carbon dioxide sequestration.

The University of Delaware will perform work within the Smith Laboratory in rooms 153 & 154. No GMOs will be used in the implementation of this project at this location. Plants will be grown outdoors on campus within a fenced in area as well as within a greenhouse on campus. These plants are native seashore mallow.

Utah State University will perform all work in a natural setting by utilizing existing road right of ways as a Roadside Simulation Lab. They will analyze a parcel of land that is 300ft by 30 ft for the growth of spring canola. These lands have been previously disturbed for the construction of the roadway and associated drainage ditches, therefore cultural resources have been compromised.

The applicant has submitted R & D Questionnaires for each location in which aspects of this project will take place. The questionnaires thoroughly address the chemical and safety handling protocols associated with each location.

This project is comprised for laboratory research and development, onsite characterization for plantings, as well information gathering and dissemination for an educational program; therefore a CX A9, B3.6, & B3.1.

NEPA PROVISION

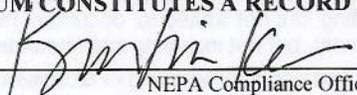
DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

Eugene Brown 4/15/2011

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature:  Date: 4/20/2011
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