

PMC-EF2a

(201002)

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



RECIPIENT: University of Nebraska, Lincoln

STATE: NE

PROJECT TITLE : Research for Developing Renewable Biofuels from Algae

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
	DE-EE0001052	GFO-10-567	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:

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:

The University of Nebraska-Lincoln proposes to use federal funding to increase the fundamental knowledge of lipid biosynthetic pathways, lipid transport, and storage and secretion mechanisms of Chlamydomonas & Chlorella algae. They also plan to develop new and improved technologies for genome manipulation of algae and establish a state-of-the-art Photobioreactor Research Facility.

This project will include expansion of knowledge related to lipid production and secretion in algae, creation of molecular tools for genetic and biochemical manipulation of algae, and development & testing of improved algal photobioreactors.

The photobioreactor design, optimization, and establishment will take place within existing space of the Beadle Center Greenhouse facility.

This project consists of research and development in a conventional laboratory and Tufts University & the University of Nebraska-Lincoln. The applicant has submitted an R & D Questionnaire which thoroughly addresses chemical and safety handling protocols.

GMO's are an integral part of this project. No GMO's will be used outside of the laboratory and no field trials will be part of this project. No APHIS permits are required since they are not plant pathogens.

This project is comprised of conventional laboratory research; therefore a CX B3.6 will apply.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

Eugene Brown 9/9/2010

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: Kristin Kerwin Date: 9/10/2010
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