

PMC-EF2a

(2010)

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



RECIPIENT: Arizona State University

STATE: AZ

PROJECT TITLE : Sustainable Algal Biofuels Consortium

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000123	DE-EE-0003372	GFO-0003372-001	EE3372

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:

Arizona State University proposes to use federal funding to research the viability of using biochemical conversion as a strategy for converting algal biomass into lipid-based and carbohydrate-based biofuels and to test the feasibility of replacing petroleum based fuels.

This project will include feedstock production and development of algal strains for conversion and fuel production, chemical characterization of the algal composition and structure, identify and test pretreatment options for hydrolytic enzyme preparations, chemical analysis and basic property for fuel production and stability analysis of algal derived fuel components.

NO GMO's will be used in the implementation of this project except for recombinant DNA processes at Arizona State University, in which all work will be contained within the laboratory. The algae used in the implementation of this project will be selected by yield potential and grown within the laboratory.

Work for this project will take place in the laboratories at Arizona State University, Georgia Institute of Technology, the National Renewable Energy Laboratory, Sandia National Laboratories, Solution Recovery Services, and Lyondellbasell Inc. Each location where laboratory work is taking place has submitted an R & D Questionnaire which thoroughly addresses chemical and safety handling protocols.

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

NEPA PROVISION

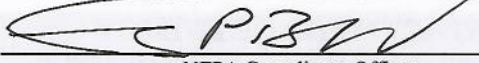
DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

Eugene Brown 11/10/2010

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: 
NEPA Compliance Officer

Date: 11/18/10

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: _____