

PMC-EF2a

1004021

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



RECIPIENT: UOP LLC

STATE: IL

**PROJECT TITLE :** PILOT SCALE BIOREFINERY: SUSTAINABLE TRANSPORT FUELS FROM BIOMASS AND ALGAL RESIDUE

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000096	DE-EE0002879	GFO-10-317	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).
- 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.

## Rational for determination:

DOE is proposing to provide federal funding to UOP to construct and operate a pilot-scale integrated biorefinery that would process one dry ton per day of biomass using pyrolysis and subsequent upgrading to transportation fuels.

This NEPA determination is for Budget Period 1 (BP1) only. Budget period 1 activities include project management, NEPA documentation for Budget Period 2 activities, permitting, preliminary design, bench scale research and development, life cycle assessments for various feedstock, feedstock characterization.

CX A9 applies to preliminary design, permitting, NEPA and paper study activities.

CX B3.6 applies to research and development activities.

BP1 does not include final design, construction / operation, or capital purchases. All final design, construction, capital equipment purchase/installation and operation activities are subject to further NEPA review.

**NEPA PROVISION**

DOE has made a conditional NEPA determination for this award, and funding for certain tasks under this award is contingent upon the final NEPA determination.

Insert the following language in the award:

You are restricted from taking any action using federal funds, which would have an adverse affect on the environment or limit the choice of reasonable alternatives prior to DOE/NNSA providing either a NEPA clearance or a final NEPA decision regarding the project.

## Prohibited actions include:

Final design, construction / operation, and capital equipment purchases are prohibited at this time. All final design, construction / operation, and capital equipment purchase/installation activities are subject to further NEPA review.

This restriction does not preclude you from:

Budget Period 1 activities.

If you move forward with activities that are not authorized for federal funding by the DOE Contracting Officer in advance of the final NEPA decision, you are doing so at risk of not receiving federal funding and such costs may not be recognized as allowable cost share.

Note to Specialist :

None Given.

**SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.**

NEPA Compliance Officer Signature: Kristin Kerwin  
NEPA Compliance Officer

Date: 3/30/2010

**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: \_\_\_\_\_