

FMC-EF2a

(2010.02)

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



RECIPIENT: Gas Technology Institute

STATE: IL

PROJECT TITLE : Biomass to Gasoline and Diesel Using Integrated Hydropyrolysis plus Hydroconversion (IH2)

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000096	DE-EE0002873	GFO-0002873-003	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:

This NEPA review is a continuation of NEPA review GFO-270-10 to include new tasks for to allow for additional project funds to be allocated for the design and operation of an integrated 50kg/day. These new tasks are similar in scope to NEPA review GFO-0004390-001 in which DOE is obligating funds for the design and operation of the integrated pilot plant. This project, along with GFO-0004390-001, will test different types of feedstock. The construction of the facility is being funded by a private outside source and will be located within at existing bay at the GFI Flex Fuel Test Facility/Advanced Gasification Test Fuel Facility.

This project will include preliminary detailed engineering, feedstock preparation and procurement, pilot plant testing, catalyst testing, product testing and characterization, & management and reporting.

Feedstock will consist of pine wood and bagasse for the testing phase of the pilot plant and will be obtained by the same suppliers in the initial phase of the project.

GTI has an air permit for emissions currently in place and is currently in compliance with the parameters of that permits. Chicago is designated as a non-attainment area for ozone.

The applicant has an R & D Questionnaire on file with DOE for this type of work which thoroughly addresses the chemical and safety handling protocols associated with this project. All permits for the commissioning of this pilot plant have been received and/or fall under previously received permits.

This project involves small scale indoor pilot plant engineering & testing as well as the procurement of feedstock; therefore a CX A9 & 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 5/8/2011

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: 
NEPA Compliance Officer

Date: 5/26/2011

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: _____