

PMC-EP2a

12/01/02

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



RECIPIENT: Solazyme, Inc

STATE: IL

**PROJECT TITLE :** Solazyme Integrated Biorefinery (SzlBR): Diesel Fuels from Heterotrophic Algae

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-EE0000096	EE0002877	GFO-0002877-002	EE2877

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 Solazyme to build, operate and optimize a pilot-scale Solazyme Integrated Biorefinery (SzlBR). DOE completed the NEPA review for this project (CXA A9 and B3.6) for the originally proposed site. At this time, Solazyme is proposing to complete their project at an alternate location. This NEPA determination applies to the newly proposed site.

Solazyme proposes to construct the SzlBR on Parcel 2 of the existing PMP Fermentation Products, Inc. (PMP) site in Peoria, Illinois. Most equipment will be installed within the existing building with the exception of the dryer, which will be installed immediately outside the building on existing attached concrete pads. No new soil will be disturbed during installation of SzlBR.

There would be no or negligible impacts to odor, traffic, hazardous waste, solid waste, biological resources, cultural resources, wetlands, or other sensitive resources. There will be no land use impacts, as the existing facilities are currently zoned for industrial, manufacturing, or laboratory uses and no changes to local or county zoning designations will be required to construct the project. Additionally, construction and operation of the project will occur within an existing structure or on the existing site, and therefore, no changes or negative impacts on aesthetics of the surrounding areas will occur.

A National Pollution Discharge Elimination System (NPDES) discharge permit for surface water runoff and non-contact cooling water will be obtained for the facilities associated with the SzlBR project. A state air quality construction and operating permit from the Illinois Environmental Protection Agency will be required for emissions generated from the new equipment associated with the SzlBR.

CX A9 and B3.6 apply to this project as it includes information gathering, data analysis, conceptual design, laboratory- and pilot- scale research and development activities. All construction and modification of existing facilities will occur within or contiguous to an already developed area where active utilities and currently used roads are readily accessible.

**NEPA PROVISION**

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

None Given.

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

NEPA Compliance Officer Signature: \_\_\_\_\_  
NEPA Compliance Officer

Date: 4/12/2011

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