Change in Solazyme cost share proposal

From: Gypsy Achong [gachong@solazyme.com]
Sent: Wednesday, January 06, 2010 11:29 AM
To: Sterner, Christy
Subject: Change in Solazyme cost share proposal
Attachments: 100106_Solazyme_DOE budget cover letter.pdf; 100104_Solazyme_Justification for SF 424A Budget -PMC123.1.XLS; 100104_Solazyme_Budget_Information_Non-Construction_Programs_SF424A.xls; AttachmentB_090602_ ttachment C - Cherokee Pharmaceuticals- Solazyme Invoice 10295 100105_Solazyme_Application for Federal Assistance SF424.pdf

Dear Christy,

I hope all is well. As a follow-up to the DOE's request, we are pleased to confirm that Solazyme can fully satisfy the 20 percent cost share requirement. Attached are several supporting documents, including Solazyme's amended budget and a cover letter describing the changes to our budget to achieve the 20 percent cost share. Also included is an updated version of SF424 requested in our acceptance letter dated December 4, 2009.

Please let me know if you have any questions. We look forward to continuing to work with you to finalize the contract award as expeditiously as possible.

Best wishes,

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Gypsy

Attachments:

- Cover letter (100106 Solazyme DOE budget cover letter.pdf)
- Attachment A - Revised budget (100104_Solazyme_Budget_Information_Non-Construction_Programs_SF424A.xls, 100104_Solazyme_Justification for SF 424A Budget -PMC123.1.xls)
- Attachment B -
- Attachment C - Cherokee Pharmaceuticals- Solazyme Invoice 10295
- Application for Federal Assistance, SF 424 (100105_Solazyme Application for Federal Assistance SF424.pdf)

Gypsy Achong

Email: gachong@solazyme.com

Phone: 650 780 4777 x5273

Solazyme, Inc.

561 Eccles Avenue

South San Francisco, CA 94080

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Solazyme's indirect rate is calculated based on the PMC 400.2 Sample Indirect Rate Proposal – Two Rate Method (Fringe and Indirect Rate).

Fringe rate justification:

____ **A fringe benefit rate has been negotiated with, or approved by, a federal government agency. A copy of the latest rate agreement is included with this application, and will be provided electronically to the Contracting Officer for this project.**
(When this option is selected, a presentation of the budget that demonstrates the appliction of the approved rate, to arrive at the proposed fringes benefits dollars should also be provided.)

__X__ **There is not a current, federally approved rate agreement negotiated and available.**
(When this option is checked, the entity preparing this form shall submit a rate proposal in the format provided at the following website, or a format that provides the same level of information and which will support the rates being proposed for use in performance of the proposed project. Go to https://www.eere-pmc.energy.gov/forms.aspx and select PMC 400.2 Sample Rate Proposal.)

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Indirect rate justification:

____ **There is a federally approved indirect rate agreement. A copy is provided with this application and will be provided electronically to the Contracting Officer for this project.**
(When this option is selected, a presentation of the budget that demonstrates the application of the approved rate, to arrive at the proposed indirect charges proposed should also be provided.)

__X__ **There is no current, federally-approved indirect rate agreement.**
(When this option is checked, the entity preparing this form shall submit an indirect cost rate proposal in the format provided at the following website, or in a format that provides the same level of information and which supports the rate(s) being proposed for use in estimating the project. Go to https://www.eere-pmc.energy.gov/forms.aspx and select PMC 400.2 Sample Rate Proposal.)

The Indirect pool includes all expenses and activities that are not directly assigned to a single activity or project that are required for the successful execution of these projects.

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PMC 121.1
(07/2008)

U.S. DEPARTMENT OF ENERGY
PROJECT MANAGEMENT CENTER

PRE-AWARD INFORMATION SHEET

ALL INFORMATION REQUESTED ON THIS FORM MUST BE PROVIDED

Awardee Name:	Solazyme, Inc.
Award Number:	DE-FOA-0000096
Awardee Business Officer:	Jonathan Wolfson
Awardee Project Director:	David Brinkmann

Employer/Taxpayer Identification Number (EIN/TIN):	33-1077078
Data Universal Numbering System (DUNS):	145862012

For assistance in obtaining a DUNS Number, call Dunn & Bradstreet at 1-800-333-0505.
The Applicant should be prepared to provide the following information to Dunn & Bradstreet:
(1) Company name
(2) Company address
(3) Company telephone number
(4) Line of business
(5) Chief executive officer/key manager
(6) Date the company was started
(7) Number of people employed by the company
(8) Company affiliation

Note: Awardee Name, EIN/TIN and DUNS MUST coincide with the Awardee's information recorded in the Central Contract Registry (CCR).

A. TYPE OF BUSINESS - the Awardee is a:

- ☐ For-Profit Organization (Other than Small Business)
  - ☐ Corporation
  - ☐ Partnership
  - ☐ Sole Proprietorship
- ☐ Government
  - ☐ Local Government
  - ☐ State Government
  - ☐ Indian Tribal Government
- ☐ Individual
- ☐ Institution of Higher Education
- ☐ Other NonProfit Organization
- ☒ Small Business
- ☐ Other (specify):

If NonProfit, select one below:

☐ A university or other institution of higher education or an organization of the type described in Section 501(c)(3) of the Internal Revenue Code of 1954 (26 USC 501(c)) and exempt from taxation under Section 501(a) of the Internal Revenue Code (26 USC 501(a)); or

☐ An organization of the type described in Section 501(c)(4) of the Internal Revenue Code of 1954 (26 USC 501(c)) and exempt from taxation under Section 501(a) of the Internal Revenue Code (26 USC 501(a)); or

☐ An organization of the type described in Section 501(c)(6) of the Internal Revenue Code of 1954 (26 USC 501(c)) and exempt from taxation under Section 501(a) of the Internal Revenue Code (26 USC 501(a)); or

☐ A nonprofit scientific or educational organization qualified under a State nonprofit organization statute. (Please identify the statute.); or

☐ Other (specify type):

Is the Applicant a member of the Federal Demonstration Partnership (FDP)? ☐ Yes ☐ No
A listing of FDP members is available at http://www.thefdp.org/FDP_Members.html.

B. INTELLECTUAL PROPERTY

1. WAIVER OF DOE PATENT RIGHTS

This section applies only to large businesses and nonprofits other than 501(c)(3) organizations. All others should leave this subsection blank and proceed to the "Rights in Application Data" subsection that follows. Large businesses and nonprofits other than 501(c)(3) organizations have the right to request, in advance or within 30 days after execution of an award, in accordance with applicable statutes and DOE Patent Waiver Regulation (10 CFR 784), a waiver of all or any part of the rights of the United States in Subject Inventions. Accordingly, please check all that apply:

☐ I intend to request an advance waiver in accordance with 10 CFR 784.
☐ I intend to request an advance waiver on behalf of one or more subrecipients/subcontractors.
☐ I have at least one subrecipient/subcontractor that will request a waiver on its own behalf.
☐ I do not intend to request an advance waiver.

2. RIGHTS IN APPLICATION DATA

For an award based on an application/proposal, the Government will obtain unlimited rights in the technical data contained in the application/proposal, unless the Awardee marks those portions of the technical information which it asserts as "proprietary data" or specifies those portions of such technical data which are not directly related to or will not be utilized in the work to be funded under this award.

Accordingly, please indicate:

☐ No restrictions on Government rights in technical data contained in the application/proposal; or

☒ The application/proposal contains the following identified technical data that is proprietary, or is not directly related to, or will not be utilized in the work to be funded under this award.

Please list specific page numbers, table numbers, etc., and the dated version of the application/proposal to which you refer: See 091222_Solazyme_AttachmentA_PreAwardInfoSheet_PMC121.1_SectionB2.pdf

3. IDENTIFICATION OF LIMITED RIGHTS DATA AND RESTRICTED COMPUTER SOFTWARE

Below, please identify any Limited Rights Data or Restricted Computer Software you plan to use to carry out your work under the award. Limited Rights Data means data (other than computer software) developed at private expense that embody trade secrets or are commercial or financial, and confidential or privileged. Restricted Computer Software means computer software developed at private expense and that is a trade secret, is commercial or financial, and confidential or privileged, or is published, copyrighted computer software, to include modifications of the computer software.

Please note that these data do not include data that you will produce under this award. Data that is first produced under this award is treated separately under the data rights clause of this award. This section covers only those data that you bring into this award that were privately funded.

If you plan to use Limited Rights Data or Restricted Computer Software under the award, please describe it in a few sentences or bullets, with sufficient detail that the DOE Project Officer can determine whether DOE will need to have any of it delivered, for example, to validate your results or the data produced under the award. You are not required to list issued patents or published patent applications. You do need to list unpublished patent applications (by title and brief description) and trade secret processes (by non-proprietary title with brief, non-proprietary description). If you have questions regarding the completion of this section, please contact the Contract Specialist handling your award.

Based on the above, please review the requirements in the technical scope of work for this award and indicate, to the best of your knowledge:

☐ No Limited Rights Data will be utilized in the performance of this award.

☒ Limited Rights Data as follows will be utilized in the performance of this award.

Use this block to provide additional information or provide an attachment: See 091221_Solazyme_AttachmentB_PreAwardInfoSheet_PMC121.1_SectionB3.pdf

Based on the above, please review the requirements in the technical scope of work for this award and indicate, to the best of your knowledge:

☒ Awardee Restricted Computer Software will NOT be utilized in the performance of this award.

☐ Awardee Restricted Computer Software as follows will be utilized in the performance of this award.

Use this block to provide additional information or provide an attachment:

C. PROJECT PERFORMANCE SITE and CONGRESSIONAL DISTRICT

List the address and congressional district for the primary site where the work will be performed:

Street Address:	**Cherokee Pharmaeuticals, LLC, 100 Avenue C, P.O. Box 367**
City:	**Riverside**
State:	**PA**
Zip:	**17868**
Congressional District:	10th Congressional District in Pennsylvania

If a portion of the work will be performed at any other site(s), identify those site(s) below, and indicate what portion of the effort will be performed at this/these site(s):

Street Address:	Solazyme, 201 Gateway Boulevard
City:	South San Francisco
State:	CA
Zip:	94080
Congressional District:	12th Congressional District in California

Briefly describe portion of effort for this Site:	Optimization of fermentation parameters at laboratory scale to support integrated pilot operations at SzIBR

Street Address:	UOP, 5200 Underwood Road
City:	Pasadena
State:	TX
Zip:	77507
Congressional District:	22nd Congressional District in Texas

Briefly describe portion of effort for this Site:	Production of renewable diesel from algal oil

Street Address:	REG, 3426 East 28th St N
City:	Newton
State:	IA
Zip:	50208
Congressional District:	3rd Congressional District in Iowa

Briefly describe portion of effort for this Site:	Production of biodiesel from algal oil

D. INVOICING AND PAYMENTS

1. Has the Awardee received any prior DOE awards administered by the Golden Field Office (GO)?

☐ Yes

If yes, please list the most recent award number: _____

☒ No

2. Is the Awardee currently enrolled with the U.S. Department of Treasury / ASAP system (Automated Standard Application for Payment System) under the DOE / Golden Field Office (GO) Agency Locator Code (ALC) and Region Code (#8900-0001-04)?

☐ Yes

Enter Awardee Seven-digit ASAP ID Number: _____

☒ No

3. Please provide the following contact information for ASAP and/or Payments:

   IMPORTANT: If not currently enrolled in the ASAP system under GO's ALC and Region Code, the person identified below will be contacted by the U.S. Department of Treasury with further instruction on completing the ASAP enrollment process.

   ASAP / Payments Contact Person: **Yelena Popova**

   Phone No.: **650-963-5215** Extension: **N/A** E-mail: **ypopova@solazyme.com**

4. Indicate preferred payment method below: (NOTE: this section is reserved for universities, hospitals, other non-profit organizations and state and local governments that are authorized Advance Payment Procedures, unless a specific need is supported. All other entities desiring advance payment should discuss with the DOE Award Administrator.)

   ☐ Payment by Advance is preferred. (SF 272 reporting will be required.)
   ☐ Payment by Reimbursement is preferred. (SF 272 reporting will not be required.)

5. Indicate the name, phone number, and email address of the Designated Responsible Employee for complying with national policies prohibiting discrimination (see 10 CFR 1040.5 and the Certifications and Assurances found at http://management.energy.gov/documents/CERTSASSUR.doc).

Lisa Roslund	**650-963-5211**
Name	Telephone Number
Director, Human Resources	**lroslund@solazyme.com**
Title	Email Address

REPRESENTATION/CERTIFICATION

I represent by my signature below that all the information provided by this form is accurate.

Name: Jonathan Wolfson

Title: Chief Executive Officer

Signature of Authorized Company Official:

Date: December 22, 2009

Attachment A

Solazyme, Inc. considers its entire Application entitled, "Solazyme's Integrated Biorefinery (SzIBR): Diesel Fuels from Heterotrophic Algae" in response to DE-FOA-0000096 to be technical data that is proprietary to Solazyme, Inc., except for the following files:

- "Summary.pdf" that contains the Project Summary/Abstract File for this Project.
- "091221_Solazyme_PMC134_1_StatementOfProjectObjectives.pdf" that contains the Statement of Project Objectives for this Project
- "091223_IBR_ARRAprojects_Solazyme.pdf" that contains a Project Description for posting to the DOE website

Specifically, the following submissions are to be considered Proprietary Data and the Government in their entirety, except for the file referenced above, and hereby request that DOE shall treat such submissions as Limited Rights Data.

Title	Submission Date
Entire Solazyme Application under DE-FOA-0000096 entitled "Solazyme's Integrated Biorefinery (SzIBR): Diesel Fuels from Heterotrophic Algae," except for the Project Summary/Abstract File. See below for the specific document names/file names.	Original submission: dated June 29, 2009 (PST), and received by DOE on June 30, 2009 (EST)
Document entitled "Solazyme's Integrated Biorefinery (SzIBR): Diesel Fuels from Heterotrophic Algae"; DE-FOA 0000096—Budget Clarification Submission. See below for specific document	Submitted to DOE September 27, 2009

names/file names	
Oral presentation and accompanying slides/reference materials	Oral presentation date: October 9, 2009 and slide deck submission prior to oral presentation.
Financial Assistance Pre-Award Information Sheet, PMC 121.1	Part of Pre-Award submission on December 23, 2009; File name: 091222_Solazyme_PreAward InfoSheet_PMC121_1.pdf
Financial Information, PMC 410.1 with DCAA Audit Attachment	Part of Pre-Award submission on December 23, 2009; File names: 091210_Solazyme_Financial_Information_ Request_PMC410_1.pdf 091223_Solazyme_Attachment_PMC410_1_ DCAA_Audit_04281_2009A17740010.pdf
Representation of Limited Rights Data and Restricted Computer Software	Part of Pre-Award submission on December 23, 2009; File names: 091222_Solazyme_AttachmentA_PreAwardInfoSheet_PMC121_1_ SectionB2.pdf 091221_Solazyme_AttachmentB_PreAwardInfo Sheet_PMC121_1_SectionB3.pdf
Environmental Checklist, EF1	Part of Pre-Award submission on December 23, 2009; File names: 091222_EF1.doc Solazyme_Environmental questionnaire for FOA application.pdf Solazyme_PEP_Section8_NEPA.pdf
Letters of Commitment	Originally submitted as part of Solazyme Application under DE-FOA-0000096 on June 29, 2009 (PST). Resubmitted as part of Pre-Award submission on December 23, 2009; File names, see below.
Indirect Rate Agreement of a Rate Proposal	Originally submitted on September 27, 2009 as part of the Budget Clarification Submission. See below for file name.

Documents submitted as part of Solazyme Application under DE-FOA-0000096 entitled "Solazyme's Integrated Biorefinery (SzIBR): Diesel Fuels from Heterotrophic Algae", submitted June 29, 2009 (PST).	
Name of Document	**File Name**
SF 424- Application for Federal Assistance	Solazyme-Application for Federal Assistance.pdf
Project/Performance Site Location	PPSL.doc
Project Narrative File, including Project Narrative Cover Sheet.	Project.pdf
Resume file	Resume.pdf
SF 424A Excel—Budget Information for Non-Construction Programs File	SF424A.xls
Budget Justification File	1. BudgetJustification.xls 2. Indirect Rate Justification.doc

Letters of Commitment	1. ABNT support letter.pdf 2. Cherokee cost share letter.pdf 3. UOP support letter.pdf
Subaward Budget Files	1. Abengoa_budgetjustification.xls 2. Abengoa424.xls 3. bluefire_budgetjustification.xls 4. bluefire424.xls 5. bluefire_justification.doc 6. cherokee424.xls 7. Cherokee_budgetjustification.xls 8. Cherokee_indirect rate justification.doc 9. uop424.xls 10. uop_budgetjustification.xls
Environmental Questionnaire	Enviro.pdf
Project Management Plan	PMP.pdf
Histrorical, Current and Planned Technical and Financial Data	TechandFinData.xls
Business and Commercialization Plan	BusComPlan.pdf
Pro forma	Proforma.xls
IP Statement and Supporting Documentation	ProjectIP.pdf
Process Flow Diagram and Supporting Data	PFD_Data.pdf
Life-Cycle GHG Emission Reduction Data	LCA_GHG.xls
Petroleum Displacement Analysis	Petro.doc
Project Execution Plan	ProjExecPlan.pdf

Documents submitted as part of "Solazyme's Integrated Biorefinery (SzIBR): Diesel Fuels from Heterotrophic Algae"; DE-FOA 0000096—Budget Clarification Submission.	
Name of Document	**File Name**
Cover letter from Tony Day	Solazyme Budget Clarification.doc
PMC123.1-Budget Justification for SF 424A Budget (Sub-recipient UOP)	Solazyme_uop_budgetjustification_revB.xls
PMC123.1- Budget Justification for SF 424A Budget (Solazyme Indirect Costs)	Solazyme_BudgetJustification_revB.xls
Explanation to Indirect Rate Justification Spreadsheet	Solazyme_IndirectRateJustification_revB.doc
PMC123.1- Budget Justification for SF 424A Budget (Solazyme Other Direct Costs)	Solazyme_reg_budgetjustification_revA.xls

Solazyme, Inc. Proprietary Information

Attachment B

Limited Rights Data that will be utilized in the performance of this award include the following:

Part 1. Unpublished Patent Applications	
Title	**Brief Description**
[redacted]	

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FOIA EXEMPTION 4

REDACTED

FOIA EXEMPTION 4

DEFENSE CONTRACT AUDIT AGENCY

AUDIT REPORT NO. 04281–2009A17740010

RESULTS OF AUDIT

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FOIA EXEMPTION 4

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PMC 410.1
(07/06)

U.S. DEPARTMENT OF ENERGY
PROJECT MANAGEMENT CENTER

FINANCIAL INFORMATION

PROVIDE ALL INFORMATION REQUESTED ON THIS FORM

Applicant: Solazyme, Inc.

Project Title: **Solazyme Integrated Biorefinery (SzIBR): Diesel Fuels from Heterotrophic Algae**

Announcement/Award No: **DE-FOA-0000096**

1. Have you had prior Federal awards? ☒ Yes ☐ No

2. Have you had an outside audit or an A-133 audit? ☒ Yes ☐ No
If yes, please provide a copy of the A-133 or outside audit (electronic preferred).

INFORMATION FOR DETERMINING COGNIZANT AGENCY/OFFICE

3. Applicant's fiscal year end date is December 31

4a. Identify Cognizant **Federal Agency** (agency providing the preponderance of Federal funding), and provide Agency name, a point of contact, phone number, and e-mail.

Agency: Defense Logistics Agency
Point of Contact: Mr. John Dormer
Phone: 215-737-2284
E-mail: john.dormer@dla.mil

4b. To assist our office in validating Cognizant **Federal Agency** (4a), please provide following information for the 5 highest dollar award value for current Federal contracts, grants or awards (do not include sub-awards). (State Agencies and Universities can skip 4b)

Contract/Award #	Awarding Agency	Awarding Office	Start Date	End Date	Total Value
SP 4701-09-C-0040	DLA	Philadelphia	8/31/09	8/30/10	$8.574M
SP 0600-09-R-0704	DESC	Fort Belvoir, VA	9/1/09	7/30/10	$223K

5a. If applicant has current DOE awards, identify Cognizant **DOE Office** (office providing the preponderance of DOE funding), and provide DOE office name, a point of contact, phone number, and e-mail.

DOE Office:
Point of Contact (Contracting Officer):
Phone:
E-mail:

5b. To assist our office in validating Cognizant **DOE Office** (5a), please provide following information for the 5 highest dollar value awards for current DOE contracts, grants or awards (do not include sub-awards). (State agencies and Universities can skip 5b)

DOE Contract/Award #	DOE Awarding Office	Start Date	End Date	Total Value

FINANCIAL MANAGEMENT SYSTEM

To qualify for Financial Assistance, compliance with 10 CFR 600.121 - Higher Education, Hospitals, and Other Non-Profit Organizations, 10 CFR 600.220(b) - State and Local Governments or 10 CFR 600.311 - For-Profit Organizations is required. Please check applicable boxes below.

☒ The Financial Management System is in compliance with 10 CFR 600.121, 10 CFR 600.220(b), or 10 CFR 600.311.

☐ I do not know if my Financial Management System is in compliance with 10 CFR 600.121, 10 CFR 600.220(b), or 10 CFR 600.311. If this block is checked, complete the survey below.

Accounting System Survey

	Yes	No	NA
1. Is your Accounting System in accordance with Generally Accepted Accounting Principles applicable to the circumstances?	☒	☐	☐
2. Accounting System provides for:			
a. Segregation of direct costs from indirect costs.	☒	☐	☐
b. Identification and accumulation of direct costs by project.	☒	☐	☐
c. A logical and consistent method for the allocation of indirect costs to intermediate and final cost objectives. (Project is final cost objective)	☒	☐	☐
d. Accumulation of costs under general ledger control.	☒	☐	☐
e. A timekeeping system that identifies employees' labor by intermediate and final cost objectives.	☒	☐	☐
f. A labor distribution system that charges direct and indirect labor to appropriate cost objectives.	☒	☐	☐
g. Interim (at least monthly) determination of costs charged to a project through routine posting of books of account.	☒	☐	☐
h. Excluding costs charged to Government projects which are not allowable in terms of FAR 31, Contract Cost Principles and Procedures, or other provisions.	☒	☐	☐
i. Identification of costs by project line item and by units (as if each unit or line item were a separate project) if required by the proposed award.	☒	☐	☐
3. Is the Accounting System designed, and are the records maintained in such a manner that adequate, reliable data are developed for use in developing cost proposals?	☒	☐	☐
4. Is the Accounting System currently in full operation?	☒	☐	☐

CHEROKEE
PHARMACEUTICALS
A PRWT LIFE SCIENCES COMPANY

Cherokee Pharmaceuticals LLC
1835 Market Street – Suite 1100
Philadelphia, PA 19103

Manufacturing Site:
100 Avenue C
P.O. Box 367
Riverside, PA 17868

+1 215 988 8979 office
+1 225 933 1515 mobile
+1 215 569 1925 fax
dennis.bauer@cherokee-pharma.com

June 29, 2009

Mr. Tyler Painter
Chief Financial Officer
Solazyme, Inc.
561 Eccles Avenue
South San Francisco, CA 94080

RE: Cost Share - Integrated Biorefinery Operations

Dear Tyler:

Cherokee Pharmaceuticals LLC looks forward to the opportunity to participate in the U.S. Department of Energy project for the Demonstration of Integrated Biorefinery Operations in response to Funding Opportunity Announcement Number DE-FOA-0000096.

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We are pleased that you have selected us as the site for your integrated biorefinery and we will endeavor to help make the project a success. We believe that Solazyme's heterotrophic algal technology represents an important advance both for renewable biofuels and for industrial bioproduction, and we are excited to play a pivotal role in this project.

Best regards,

Dennis P. Bauer, Ph.D.
Vice President – Sales & Marketing

cc: Mkt Files, Elliot, Haney, Noll

UOP LLC
25 E. Algonquin Rd.
Des Plaines, IL 60017-5017

Tel: 847.391.2000
Fax: 847.391.2253
www.uop.com

June 16, 2009

Dr. Matthew Frome
Director of Business Development
Solazyme
561 Eccles Avenue
South San Francisco, CA 94080

RE: Letter of support for the cost share for the DOE-FOA-0000096 application:
Solazyme Integrated Biorefinery (SzIBR): Diesel Fuels from Heterotrophic Algae

Dear Dr. Frome:

UOP, LLC looks forward to the opportunity to participate in the U.S. Department of Energy project for the Demonstration of Integrated Biorefinery Operations in response to Funding Opportunity Announcement Number DE-FOA-0000096.

UOP LLC is a leading international supplier and licensor of process technology, catalysts, adsorbents, process plants, and consulting services to the petroleum refining, petrochemical, and gas processing industries. Launched in late 2006, our Ecofining™ process technology is the first commercial product from UOP's Renewable Energy & Chemicals business unit. UOP is developing and commercializing technology to produce transportation fuels and chemicals from biofeedstocks ranging from vegetable and algal oils to second generation cellulosic waste feedstocks like corn stover or wood chips.

As a member of this project team, we agree to contribute cost share of EX4 of the project costs if the program is selected. Based on the current budget, the UOP costs are expected to be EX4 with UOP contributing EX4

We are pleased to be included in this program to produce renewable diesel from Solazyme's algae oil. We believe that Solazyme's heterotrophic algal technology represents an important advance for renewable biofuels, and are excited to play an important role in this project.

If you have any questions, please feel free to contact me.

Best Regards,

Jennifer Holmgren
General Manager
Renewable Energy and Chemicals

ABENGOA BIOENERGY
ABENGOA BIOENERGY NEW TECHNOLOGIES

11500 W 13th Avenue
Lakewood, CO 80215
Telephone (+) 303-928-8500
Fax (+) 303-928-8510

June 26, 2009

Dr. Tony Day
Solazyme, Inc.
561 Eccles Avenue
South San Francisco, CA 94080

Dear Dr. Day,

I write in support of your application "Sustainable Feedstock Production Supply Systems to Support Cellulosic Biorefinery Industries" to be submitted to the U. S. Department of Energy's Funding Opportunity.

Your efforts in the utilization of algae to ferment sugars, specifically derived from cellulosic, to lipid based fuels aligns with our research, demonstration and production of low cost fermentation sugars from biomass. We are willing to produce fermentable sugars from biomass in our pilot plant in York, NE for your use in the production of lipid oils from algae. If your proposal is awarded by the DOE,

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EXEMPTION 4

We look forward to your success in this project.

Sincerely,

Robert J. Wooley, PhD, PE
Director, Process Engineering

Science. Solutions. Service

Solazyme, Inc. Proprietary Information

Attachment B

Limited Rights Data that will be utilized in the performance of this award include the following:

Part 1. Unpublished Patent Applications	
Title	**Brief Description**

REDACTED
EXEMPTION 4

REDACTED

FOIA EXEMPTION 4

STATEMENT OF PROJECT OBJECTIVES

Solazyme, Inc.
Solazyme Integrated Biorefinery (SzIBR): Diesel Fuels from Heterotrophic Algae

A. PROJECT OBJECTIVES

Solazyme proposes to build, operate and optimize a pilot-scale "**S**ola**z**yme **I**ntegrated **Bio**refinery." SzIBR will demonstrate integrated scale-up of Solazyme's novel heterotrophic algal oil biomanufacturing process, validate the projected commercial-scale economics of producing multiple advanced biofuels, and enable Solazyme to collect the data necessary to complete design of the first commercial-scale facility.

Specific project objectives include:

- Expeditiously commence construction and operations.
- Integrate all process unit operations successfully into a unified biorefinery.
- Validate feasibility of low cost production at commercial scale.
- Demonstrate refining of the algal oil into fully-compliant liquid transportation fuels.
- Accelerate development of high-impact lignocellulosic feedstocks.
- Successfully complete the project on schedule.

B. PROJECT SCOPE

The scope of the proposed project encompasses (i) building, operating and optimizing a pilot-scale integrated biorefinery, (ii) cultivating fuel oil-producing algae , (iii) extracting and purifying oil from the algae, (iv) refining the algal oil to standard liquid transportation fuels, (v) optimizing fermentation parameters at both laboratory and pilot scale, and (vi) gathering data to assist in the design of subsequent demonstration and commercial facilities.

The project advances the goals of the DOE Biomass Program and accelerates the nation's ability to achieve the production targets mandated by the federal Renewable Fuel Standard (RFS).

C. TASKS TO BE PERFORMED

BUDGET PERIOD 1: PRELIMINARY ACTIVITIES

Task 1: Submit application for Period 2

Task 2: Complete NEPA process

The expected result is a Categorical Exclusion or Finding of No Significant Impact.

Task 3: Finalize risk management plan

Task 4: Prepare manufacturing site

Solazyme shall complete engineering drawings, submit permit applications, finalize specifications of equipment with vendors, finalize initial feedstock supply agreements, and

update the safety plan. Upon completion of this Task, Solazyme will have completed all preparatory work at the project site including receipt of the environmental air permit and be ready to begin construction.

Task 5: Prepare research site

Solazyme shall obtain permits (expect none required) and update the safety plan for the research site.

Task 6: Generate concentrated sugars derived from lignocellulosic feedstocks via enzymatic processes

Solazyme shall obtain sugars derived from lignocellulosic feedstocks to enable the work in Task 13 to commence immediately upon approval of Period 2.

Task 7: Generate concentrated sugars derived from lignocellulosic feedstocks via acid hydrolysis

Solazyme shall obtain sugars derived from lignocellulosic feedstocks to enable the work in Task 13 to commence immediately upon approval of Period 2.

Task 8: Submit reports

Solazyme shall submit financial reports, including standard and Recovery Act status reports, and technical progress reports. Reports will be provided in accordance with the Federal Assistance Reporting Checklist following the instructions included therein.

BUDGET PERIOD 2: CONSTRUCTION AND OPERATION

Task 9: Create and qualify pilot-scale SzIBR at manufacturing site

Solazyme shall install, startup, test and qualify at SzIBR all the necessary oil extraction and recovery equipment downstream of fermentation. Solazyme shall also conduct initial fermentation-only runs to verify operation of the pre-existing fermentation infrastructure at the project site, as well as complete process flow runs. Upon completion of this Task, the SzIBR facility will be fully operational and ready to conduct the major project campaigns specified in Task 10.

Task 10: Operate SzIBR to optimize and demonstrate integrated process

Solazyme shall conduct a series of major campaigns through the entire integrated process flow at SzIBR , collect extensive process data, and optimize the process parameters. The expected outcome is the demonstration of key performance parameters (KPPs) that Solazyme has specified. These KPPs correspond to process productivity, yield, and efficiency metrics required to reach commercial cost objectives (when the process is transferred to a commercial-scale facility).

Solazyme shall facilitate an Independent Engineer Performance Test. The expected outcome is completion of the IEPT tests demonstrating the KPPs while exceeding the minimum feedstock throughput requirements.

Task 11: Generate concentrated sugars derived from lignocellulosic feedstocks via enzymatic processes

Solazyme shall obtain sugar derived from lignocellulosic feedstocks from a subcontractor. The expected outcome is a quantity sufficient to conduct the work specified in Task 10 and Task 13.

Task 12: Generate concentrated sugars derived from lignocellulosic feedstocks via acid hydrolysis

Solazyme shall obtain sugar derived from lignocellulosic feedstocks from a subcontractor. The expected outcome is a quantity sufficient to conduct the work specified in Task 10 and Task 13.

Task 13: Optimize fermentation parameters at laboratory scale to support integrated pilot operations at SzIBR

Solazyme shall optimize the fermentation performance at laboratory scale in support of operations at SzIBR. The expected outcome is data that will guide pilot-scale operations.

Task 14: Refine algal oil from SzIBR to standard liquid transportation fuels

Solazyme will deliver the purified algal oil generated in Task 10 to subcontractors that will refine the oil to standard liquid transportation fuels, including biodiesel and renewable diesel. The expected outcome is liquid transportation fuels that fully comply with all applicable standards.

Task 15: Submit reports

Solazyme shall submit financial reports, including standard and Recovery Act status reports, annual reports and updated pro formas, as well as the Interim Final Technical Report, including property disposition and IP reports. Reports will be provided in accordance with the Federal Assistance Reporting Checklist following the instructions included therein.

BUDGET PERIOD 3: EXTENDED OPERATION

Task 16: Submit reports

Solazyme shall submit financial reports, the final pro forma, and the Final Technical Report, including final property disposition and final IP reports. Reports will be provided in accordance with the Federal Assistance Reporting Checklist following the instructions included therein.

Attachment A

Solazyme, Inc. considers its entire Application entitled, "Solazyme's Integrated Biorefinery (SzIBR): Diesel Fuels from Heterotrophic Algae" in response to DE-FOA-0000096 to be technical data that is proprietary to Solazyme, Inc., except for the following files:

- "Summary.pdf" that contains the Project Summary/Abstract File for this Project.
- "091221_Solazyme_PMC134_1_StatementOfProjectObjectives.pdf" that contains the Statement of Project Objectives for this Project
- "091223_IBR_ARRAprojects_Solazyme.pdf" that contains a Project Description for posting to the DOE website

Specifically, the following submissions are to be considered Proprietary Data and the Government in their entirety, except for the file referenced above, and hereby request that DOE shall treat such submissions as Limited Rights Data.

Title	Submission Date
Entire Solazyme Application under DE-FOA-0000096 entitled "Solazyme's Integrated Biorefinery (SzIBR): Diesel Fuels from Heterotrophic Algae," except for the Project Summary/Abstract File. See below for the specific document names/file names.	Original submission: dated June 29, 2009 (PST), and received by DOE on June 30, 2009 (EST)
Document entitled "Solazyme's Integrated Biorefinery (SzIBR): Diesel Fuels from Heterotrophic Algae"; DE-FOA 0000096—Budget Clarification Submission. See below for specific document	Submitted to DOE September 27, 2009

names/file names	
Oral presentation and accompanying slides/reference materials	Oral presentation date: October 9, 2009 and slide deck submission prior to oral presentation.
Financial Assistance Pre-Award Information Sheet, PMC 121.1	Part of Pre-Award submission on December 23, 2009; File name: 091222_Solazyme_PreAward InfoSheet_PMC121_1.pdf
Financial Information, PMC 410.1 with DCAA Audit Attachment	Part of Pre-Award submission on December 23, 2009; File names: 091210_Solazyme_Financial_Information_ Request_PMC410_1.pdf 091223_Solazyme_Attachment_PMC410_1_ DCAA_Audit_04281_2009A17740010.pdf
Representation of Limited Rights Data and Restricted Computer Software	Part of Pre-Award submission on December 23, 2009; File names: 091222_Solazyme_AttachmentA_PreAwardInfoSheet_PMC121_1_ SectionB2.pdf 091221_Solazyme_AttachmentB_PreAwardInfo Sheet_PMC121_1_SectionB3.pdf
Environmental Checklist, EF1	Part of Pre-Award submission on December 23, 2009; File names: 091222_EF1.doc Solazyme_Environmental questionnaire for FOA application.pdf Solazyme_PEP_Section8_NEPA.pdf
Letters of Commitment	Originally submitted as part of Solazyme Application under DE-FOA-0000096 on June 29, 2009 (PST). Resubmitted as part of Pre-Award submission on December 23, 2009; File names, see below.
Indirect Rate Agreement of a Rate Proposal	Originally submitted on September 27, 2009 as part of the Budget Clarification Submission. See below for file name.

Documents submitted as part of Solazyme Application under DE-FOA-0000096 entitled "Solazyme's Integrated Biorefinery (SzIBR): Diesel Fuels from Heterotrophic Algae", submitted June 29, 2009 (PST).	
Name of Document	**File Name**
SF 424- Application for Federal Assistance	Solazyme-Application for Federal Assistance.pdf
Project/Performance Site Location	PPSL.doc
Project Narrative File, including Project Narrative Cover Sheet.	Project.pdf
Resume file	Resume.pdf
SF 424A Excel—Budget Information for Non-Construction Programs File	SF424A.xls
Budget Justification File	1. BudgetJustification.xls 2. Indirect Rate Justification.doc

Letters of Commitment	1. ABNT support letter.pdf 2. Cherokee cost share letter.pdf 3. UOP support letter.pdf
Subaward Budget Files	1. Abengoa_budgetjustification.xls 2. Abengoa424.xls 3. bluefire_budgetjustification.xls 4. bluefire424.xls 5. bluefire_justification.doc 6. cherokee424.xls 7. Cherokee_budgetjustification.xls 8. Cherokee_indirect rate justification.doc 9. uop424.xls 10. uop_budgetjustification.xls
Environmental Questionnaire	Enviro.pdf
Project Management Plan	PMP.pdf
Histrorical, Current and Planned Technical and Financial Data	TechandFinData.xls
Business and Commercialization Plan	BusComPlan.pdf
Pro forma	Proforma.xls
IP Statement and Supporting Documentation	ProjectIP.pdf
Process Flow Diagram and Supporting Data	PFD_Data.pdf
Life-Cycle GHG Emission Reduction Data	LCA_GHG.xls
Petroleum Displacement Analysis	Petro.doc
Project Execution Plan	ProjExecPlan.pdf

Documents submitted as part of "Solazyme's Integrated Biorefinery (SzIBR): Diesel Fuels from Heterotrophic Algae"; DE-FOA 0000096—Budget Clarification Submission.	
Name of Document	**File Name**
Cover letter from Tony Day	Solazyme Budget Clarification.doc
PMC123.1-Budget Justification for SF 424A Budget (Sub-recipient UOP)	Solazyme_uop_budgetjustification_revB.xls
PMC123.1- Budget Justification for SF 424A Budget (Solazyme Indirect Costs)	Solazyme_BudgetJustification_revB.xls
Explanation to Indirect Rate Justification Spreadsheet	Solazyme_IndirectRateJustification_revB.doc
PMC123.1- Budget Justification for SF 424A Budget (Solazyme Other Direct Costs)	Solazyme_reg_budgetjustification_revA.xls

PMC 121.1
(07/2008)

U.S. DEPARTMENT OF ENERGY
PROJECT MANAGEMENT CENTER

PRE-AWARD INFORMATION SHEET

ALL INFORMATION REQUESTED ON THIS FORM MUST BE PROVIDED

Awardee Name:	Solazyme, Inc.
Award Number:	DE-FOA-0000096
Awardee Business Officer:	Jonathan Wolfson
Awardee Project Director:	David Brinkmann

Employer/Taxpayer Identification Number (EIN/TIN):	33-1077078
Data Universal Numbering System (DUNS):	145862012

For assistance in obtaining a DUNS Number, call Dunn & Bradstreet at 1-800-333-0505.
The Applicant should be prepared to provide the following information to Dunn & Bradstreet:
(1) Company name
(2) Company address
(3) Company telephone number
(4) Line of business
(5) Chief executive officer/key manager
(6) Date the company was started
(7) Number of people employed by the company
(8) Company affiliation

Note: Awardee Name, EIN/TIN and DUNS MUST coincide with the Awardee's information recorded in the Central Contract Registry (CCR).

A. TYPE OF BUSINESS - the Awardee is a:

- ☐ For-Profit Organization (Other than Small Business)
  - ☐ Corporation
  - ☐ Partnership
  - ☐ Sole Proprietorship
- ☐ Government
  - ☐ Local Government
  - ☐ State Government
  - ☐ Indian Tribal Government
- ☐ Individual
- ☐ Institution of Higher Education
- ☐ Other NonProfit Organization
- ☒ Small Business
- ☐ Other (specify):

If NonProfit, select one below:

☐ A university or other institution of higher education or an organization of the type described in Section 501(c)(3) of the Internal Revenue Code of 1954 (26 USC 501(c)) and exempt from taxation under Section 501(a) of the Internal Revenue Code (26 USC 501(a)); or

☐ An organization of the type described in Section 501(c)(4) of the Internal Revenue Code of 1954 (26 USC 501(c)) and exempt from taxation under Section 501(a) of the Internal Revenue Code (26 USC 501(a)); or

☐ An organization of the type described in Section 501(c)(6) of the Internal Revenue Code of 1954 (26 USC 501(c)) and exempt from taxation under Section 501(a) of the Internal Revenue Code (26 USC 501(a)); or

☐ A nonprofit scientific or educational organization qualified under a State nonprofit organization statute. (Please identify the statute.); or

☐ Other (specify type):

Is the Applicant a member of the Federal Demonstration Partnership (FDP)? ☐ Yes ☐ No
A listing of FDP members is available at http://www.thefdp.org/FDP_Members.html.

B. INTELLECTUAL PROPERTY

1. WAIVER OF DOE PATENT RIGHTS

This section applies only to large businesses and nonprofits other than 501(c)(3) organizations. All others should leave this subsection blank and proceed to the "Rights in Application Data" subsection that follows. Large businesses and nonprofits other than 501(c)(3) organizations have the right to request, in advance or within 30 days after execution of an award, in accordance with applicable statutes and DOE Patent Waiver Regulation (10 CFR 784), a waiver of all or any part of the rights of the United States in Subject Inventions. Accordingly, please check all that apply:

☐ I intend to request an advance waiver in accordance with 10 CFR 784.
☐ I intend to request an advance waiver on behalf of one or more subrecipients/subcontractors.
☐ I have at least one subrecipient/subcontractor that will request a waiver on its own behalf.
☐ I do not intend to request an advance waiver.

2. RIGHTS IN APPLICATION DATA

For an award based on an application/proposal, the Government will obtain unlimited rights in the technical data contained in the application/proposal, unless the Awardee marks those portions of the technical information which it asserts as "proprietary data" or specifies those portions of such technical data which are not directly related to or will not be utilized in the work to be funded under this award.

Accordingly, please indicate:

☐ No restrictions on Government rights in technical data contained in the application/proposal; or

☒ The application/proposal contains the following identified technical data that is proprietary, or is not directly related to, or will not be utilized in the work to be funded under this award.

Please list specific page numbers, table numbers, etc., and the dated version of the application/proposal to which you refer: See 091222_Solazyme_AttachmentA_PreAwardInfoSheet_PMC121.1_SectionB2.pdf