Sub-Recipient Name/Organization	Purpose/Tasks in SOPO	Budget Period 1 Costs	Budget Period 2 Costs	Budget Period 3 Costs	Project Total
Vendor Name/Organization	**Product or Service, Purpose/Need and Basis of Cost (Provide additional support at bottom of page as needed)**	**Budget Period 1 Costs**	**Budget Period 2 Costs**	**Budget Period 3 Costs**	**Project Total**
EXAMPLE ONLY!!! ABC Corp.	REDACTED EXEMPTION 4				

FFRDC Name/Organization	Purpose	Budget Period 1 Costs	Budget Period 2 Costs	Budget Period 3 Costs	Project Total
	REDACTED EXEMPTION 4				
Total Contractual					

AdditionalExplanations/Comments (as necessary)

REDACTED
EXEMPTION 4

g. Construction

PLEASE READ!!!

Construction, for the purpose of budgeting, is defined as all types of work done on a particular building, including erecting, altering, or remodeling. Construction conducted by the award recipient is entered on this page. Any construction work that is performed by a vendor or subrecipient to the award recipient should be entered under f. Contractual.

List all proposed construction below, providing a basis of cost such as engineering estimates, prior construction, etc., and briefly justify its need as it applies to the Statement of Project Objectives.

Add rows as needed. If rows are added, formulas/calculations may need to be adjusted by the preparer.

Overall description of construction activities:

Example Only!!! - Build wind turbine platform

General Description	Cost	Basis of Cost	Justification of need
	Budget Period 1		
Three days of excavation for platform site EXAMPLE ONLY!!!			
Budget Period 1 Total	$0		
	Budget Period 2		
Budget Period 2 Total			
	Budget Period 3		
Budget Period 3 Total			
PROJECT TOTAL			

REDACTED
EXEMPTION 4

Additional Explanations/Comments (as necessary)

h. Other Direct Costs

PLEASE READ!!!

Other direct costs are direct cost items required for the project which do not fit clearly into other categories, and are not included in the indirect pool for which the indirect rate is being applied to this project. Examples are meeting costs, postage, couriers or express mail, telephone/fax costs, printing costs, etc.

Basis of cost are items such as vendor quotes, prior purchases of similar or like items, published price list, etc.

Add rows as needed. If rows are added, formulas/calculations may need to be adjusted by the preparer.

General description	Cost	Basis of Cost	Justification of need
		Budget Period 1	
EXAMPLE ONLY!!! Grad student tuition		REDACTED EXEMPTION 4	
Budget Period 1 Total			
		Budget Period 2	
		REDACTED EXEMPTION 4	
Budget Period 2 Total			
		Budget Period 3	
		REDACTED EXEMPTION 4	
Budget Period 3 Total			
PROJECT TOTAL			

Additional Explanations/Comments (as necessary)

i. Indirect Costs

	Budget Period 1	Budget Period 2	Budget Period 3	Total
Rate applied:		REDACTED EXEMPTION 4		
Total indirect costs requested:				

A federally approved indirect rate agreement, or rate proposed supported and agreed upon by DOE for estimating purposes is required if reimbursement of fringe benfits is requested. Please check (X) one of the options below and provide the requested information if it has not already been provided as requested, or has changed. Calculate the indirect rate dollars and enter the total in the Section B., line 6.j. (Indirect Charges) of form SF 424A.

___ **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.)

Additional Explanations/Comments (as necessary)

REDACTED
EXEMPTION 4

REDACTED

FOIA EXEMPTION 4

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PMC-EF2a

(2.01.02)

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

RECIPIENT: Solazyme, Inc **STATE:** CA

PROJECT TITLE : Solazyme Intergrated Biorefinery Project

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000096	DE-EE0002877	GFO-10-378	GO2877

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:

DOE is proposing to provide federal funds to Solazme to build, operate and optimize a pilot-scale integrated biorefinery. The proposed project will be located at the Cherokee Pharmaceuticals, LLC existing commercial biomanufacturing facility in Riverside, Pennsylvania. It will use existing fermentation capacity, as well as supporting infrastructure such as utility hookups and water treatment facilities available at the site. All modifications will be within an already developed area where active utilities and currently used roads are readily accessible. The new 6-inch diameter natural gas pipeline will be installed through a previously disturbed area (graded parking lot) and will be buried at the DOT mandated depth of 4 ft from ground surface. The lot will be graded again after installation. No modifications will be required at any of the other facilities involved in the proposed project. The organisms used for this project are exempted under TSCA.

There would be no or negligible impacts to odor, traffic, hazardous waste, solid waste, bio resources, cultural resources, wetlands, or other sensitive resources. There will be no land use impacts, as the project will be located in an area already producing fermented products. An air quality plan or air permit exemption is required from the Pennsylvania Department of Environmental Protection, Bureau of Air Quality

CX B3.6 applies to the Budget Period 2.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

Solazyme is in the process of obtaining either an air quality plan approval or air permit exemption from the Pennsylvania Department of Environmental Protection, Bureau of Air Quality. Until this process is complete, Solazyme shall not begin construction or operate the facility.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: Kristin Kerwin Date: 5/5/2010

NEPA Compliance Officer

FIELD OFFICE MANAGER DETERMINATION

☐ Field Office Manager review req

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: _____ Date: _____

Field Office Manager

EF2

U.S. DEPARTMENT OF ENERGY
EERE PROJECT MANAGEMENT CENTER

NEPA REVIEW AND RECOMMENDATIONS
(To Be Completed By DOE Project Officer)

PART I. PROJECT INFORMATION

Project Title: Solazyme Intergrated Biorefinery Project **State:** CA

Recipient: Solazyme, Inc

Funding Opportunity Announcement Number	Procurement Instrument Number	CID Number
DE-FOA-0000096	DE-EE0002877	GO2877

1. Is this an ongoing project? Yes: ☑ No: ☐ If no, skip to part II.

Original NEPA Determination Category
CX A9

Original NEPA Control Number
N/A - Blanket CX

2. Has there been a change in the original scope, environmental conditions, and/or determination? Yes: ☑ No: ☐
If yes, please describe the nature of the change.
The original determination was applicable to Budget Period 1 only. The review and recommendation below is based on the work proposed beyond Budget Period 1 (Budget Period 2).

PART II. RECOMMENDED CATEGORY OF EVIRONMENTAL REVIEW

Please provide answers to the following questions and indicate your recommended category of environmental review. If you need assistance, please contact Steve Blazek (Contact information listed below)

1. Please describe the intended use of DOE and cost share funding associated with this award.
Solazyme is proposing to build, operate and optimize a pilot-scale integrated biorefinery. The scope of the proposed project encompasses (i) building, operating and optimizing a pilot scale integrated biorefinery, (ii) growing oil-producing algae in fermentation vessels on sugars derived from a range of feedstocks, (iii) extracting and purifying oil from the algae, (iv) refining the algal oil to standard liquid transportation fuels including biodiesel and renewable diesel, (v) optimizing parameters at both laboratory and pilot scale, and (vi) gathering data to assist in the design of subsequent demonstration and commercial facilities.

The project will be located at the Cherokee Pharmaceuticals, LLC (Cherokee) existing commercial biomanufacturing facility in Riverside, Pennsylvania. It will use existing and fully-operational fermentation capacity, as well as extensive supporting infrastructure such as utility hookups and water treatment facilities available at the Cherokee site. The proposed project will leverage Cherokee's existing permits, including a Title V Major Source Permit and large quantity solid and hazardous waste generator permit (RCRA). Construction of the proposed project will involve installation of equipment to recover oil from the algae once fermentation is complete. All required equipment is commercially available and will be delivered mounted on skids for rapid installation. Minor remodeling of the interior space will be required to install the equipment necessary for the proposed project. Solazyme will utilize feedstock supplies delivered to their preexisting and fully permitted laboratory facilities in South San Francisco, California to optimize fermentation processes during set up of the pilot-scale equipment. Work at this facility will only include ordinary, on-going laboratory activities and no algal oil refining will occur at this location.

The proposed project will use domestically-sourced sucrose as a transitional feedstock. During the later phases of the pilot-scale project, Solazyme intends to run several small batches of cellulosic sugars. An existing and fully permitted facility in York, Nebraska operated by Abengoa will convert lignocellulosic biomass to cellulosic sugars via enzymatic hydrolysis and deliver them to either the Cherokee facility or to the Solazyme laboratory facilities. No new equipment or construction is required at this Solazyme partner's facility. Additionally, an existing and fully permitted pilot manufacturing facility located in Anaheim, California, owned and operated by / EX4 and deliver them to either the Cherokee facility or to the Solazyme laboratory facilities. [illegible] be located within existing structures and installation will not require new permits. The proposed project will utilize an existing biorefinery in order to transesterify the refined algal oil into ASTM D6751 standard biodiesel. Solazyme will transport a majority of the refined algal oil produced at Cherokee facility to a transesterification refining facility in Iowa. The remainder of the algal oil produced at Cherokee will be transported to a refining facility in Texas for conversion to renewable diesel. No new equipment or construction is required to support the proposed project at either refining facility.

The following permits are in place at the facilities to be used for the proposed project:
Solazyme - Solazyme's laboratory facility operates under a Hazardous Materials Business Plan compliant with the California Health and Safety Code as well as a Radioactive Materials License from the California Department of Health.
Cherokee - The Cherokee facility, an existing manufacturing facility, has environmental permits for water intake, water discharge, hazardous materials storage, and air emissions. No additional or modification to the existing permits will be required at this facility, aside from an air quality plan approval or air permit exemption. Notifications for the type of wastewater effluent discharge will be required as outlined in the existing permit. The Cherokee facility is currently operating under a Title V Operating Permit for its air emissions. The construction and initial operation of the proposed project will require either an air plan approval or a determination of minor significance under the Pennsylvania Department of Environmental Protection (DEP) request for determination (RFD) process. No additional permits will be required to conduct the proposed project.
Applied Power Concepts - The facility is permitted for the chemical production and R&D proposed under the CUP permit noted in question number two, and is located in an area zoned Heavy Industrial. Air permits for fume hoods and operating

permits for boilers, pressurized ai[illegible]s, and a compressor are permitted through th[illegible]ate of California. The Anaheim Fire Department regulates and inspects [illegible]facility regularly for adherence to State-requi[illegible]hemical storage requirements, handling, containment and disposal procedures.

2. Please list any applicable **existing** documentation (i.e. programmatic EAs, technical studies, state level environmental reviews). For each, please list the type of document, and its title, document number (if applicable), and date of publication.
   Existing documentation that would be considered applicable are the existing permits for the facilities to be used for the proposed projects.

3. Concerns or Issues
   Solazyme has not finalized the air quality plan approval or air permit exemption from the Pennsylvania Department of Environmental Protection, Bureau of Air Quality. This is being actively pursued.

4. Is there enough information available to make a final NEPA determination for the entire award at this time? Yes: ☑ No: ☐
   If no, please describe what additional information will be needed prior to making a final NEPA determination.

5. CX, EA, EIS Category
   Appendix and Number

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).

PART III. CONTACT INFORMATION

DOE Project Officer: Sterner, Christy **Date:** 5/4/2010 **EERE Office:** Golden Field Office

Email: christy.sterner@go.doe.gov **Phone:** 303-275-4720 **Fax:** 303-275-4753

PMC-
EF1

(2/06/02)

U.S. DEPARTMENT OF ENERGY

EERE PROJECT MANAGEMENT CENTER
NREL ENVIRONMENTAL CHECKLIST
(To Be Completed by Project Manager)

PART I: General Information

NREL Project Officer: Christy Sterner **Date:** 4/2/2010

Project Title: Solazyme Intergrated Biorefinery Project **ST:** CA

Organization Name: Solazyme, Inc

Solicitation Number: DE-FOA-0000096 Award No: DE-EE0002877

1. Please describe the intended use of NREL funding in your proposed project. For example, would the funding be applied to the entire project or only support a phase of the project? Describe the activity as specifically as possible, i.e. planning, feasibility study, design, data analysis, education or outreach activities, construction, capital purchase and/or equipment installation or modification. If the project involves construction, also describe the operation of the completed facility/equipment.

2. Does any part of your project require review and/or permitting by any other federal, state, regional, local, environmental, or regulatory agency? ☐ Yes ☑ No

3. Has any review (e.g., NEPA documentation, permits, agency consultations) been completed?
☐ Yes ☑ No If yes, is a finding or report available and how can a copy be obtained?

4. Is the proposed project part of a larger scope of work? ☐ Yes ☑ No If yes, please describe.

Do you anticipate requesting NREL funding for subsequent phases of this project?
☐ Yes ☑ No If yes, please describe.

5. Does the scope of your project **only** involve one or more of the following:
- ☐ Information gathering such as literature surveys, inventories, audits,
- ☐ Data analysis including computer modeling,
- ☐ Document preparation such as design, feasibility studies, analytical energy supply and demand studies, or
- ☐ Information dissemination, including document mailings, publication, distribution, training, conferences, and informational programs.

Preparer:	Phone:	Email:
Jennifer Chang	650 963 5266	jchang@solazyme.com
Business Contact:	Phone:	Email:
Kristin Kerwin	720 956 1564	kristin.kerwin@go.doe.gov

PART II: Environmental C siderations

Section A Conditions or special areas are present, required, or could be affected by your project:

Section B. Would your project use, disturb, or produce any chemicals or biological substances? (i.e., pesticides, industrial process, fuels, lubricants, bacteria)

Section C. Would your project require or produce any radiological materials?

Print Form Return to Main

PMC 120.1
(12/09)

U.S. DEPARTMENT OF ENERGY
GOLDEN FIELD OFFICE

FINANCIAL ASSISTANCE COMBINED COST/TECHNICAL EVALUATION AND NEGOTIATION MEMORANDUM

SECTION I - GENERAL INFORMATION

This technical evaluation/negotiation memorandum will be prepared jointly by the assigned DOE/Golden OCPM AND OAFA personnel, to document the specific action being evaluated and supported. Each office is responsible for certain sections of this document. The assigned OCPM and OAFA personnel responsible for the action will both sign this document upon its completion, demonstrating their agreement on its contents.

1. Recipient: Solazyme, Inc.

2. Grant/Cooperative Agreement No.: DE-EE0002877 Modification No. 002
   Requisition No: 10EE006175
   Project Title: Recovery Act: Solazyme Integrated Biorefinery (SzIBR): Diesel Fuels from Heterotrophic Algae

3. Type of Action: ☐ New Award ☐ Renewal ☐ Continuation ☒ Revision

Description of this Action: (NOTE: Indicate what is addressed by this Action only):

The purpose of this action is to re-scope Budget Period 1 of the award for Solazyme, Inc. for the project entitled "Recovery Act: Solazyme Integrated Biorefinery (SzIBR): Diesel Fuels from Heterotrophic Algae." It approves the reallocation of scope to Budget Period 1 from Budget Period 2. It also lifts the conditions on the funds associated with those tasks, such that the total approved budget for Budget Period 1 is now EX4 ($4,306,723 Federal funds + EX4 Non-Federal funds).

4. Award type, as determined at Procurement Strategy Meeting (for new awards): ☐ Grant ☒ Cooperative Agreement

If Cooperative Agreement, provide the specifics of the Substantial Involvement. (Note: This language will be used in the Substantial Involvement provision of the award.):

1. Government Insight
   In order to adequately monitor project progress and provide technical direction and/or redirection to the Recipient, DOE must be provided an adequate level of insight into various Recipient activities. Government Insight activities by DOE include attendance at Recipient meetings, reviews and tests, as well as access for DOE's consultants to perform independent evaluations of Recipient's plans and processes. Recipient shall notify the DOE Project Officer of meetings, reviews, and tests in sufficient time to permit DOE participation, and provide all appropriate documentation for DOE review.

2. Specific activities to be conducted by DOE:
   a. Risk Evaluation – DOE will review the Recipient's initial Risk Mitigation Plan (RMP) for quality and completeness. DOE will also monitor updates to the RMP and actions taken by the Recipient during the performance of its award to mitigate risks and improve the probability of successful execution of the integrated Biorefinery project. At DOE's discretion, additional independent risk analyses of the project by DOE consultants may be requested.
   b. Independent Engineering Assessments – DOE will engage a private, independent engineering (IE) firm to assist in assessing the progress of the project and provide timely and accurate reports to DOE. The Recipient will ensure that the IE has access to any and all relevant documentation sufficient to allow the IE to provide independent evaluations to DOE on the progress of the project. Such documentation includes but is not limited to the following:
      - Drawings and specifications
      - Construction and Execution plans
      - Resource loaded schedules
      - Design functions and requirements for the site final design review

- Risk management plans
- Value management and engineering studies and/or plans
- Acquisition strategies
- Project execution plans
- Project controls including earned value management systems
- Qualifications of the integrated project team.
- Financial strategy for funding the construction project
- Updated marketing and business plan
- Invoices submitted to DOE

DOE will evaluate the quality and completeness of information and documentation provided by the Recipient to DOE and its consultants in order to allow DOE to provide technical direction and/or redirection to the Recipient about how best to achieve the purposes of the award. Consultants to DOE may not provide technical direction and/or redirection to the Recipient.

5. New/Revised Project Period for this Award: From: 01/28/2010 To: 03/31/2013
   New/Revised Budget Period 1 for this Award: From: 01/28/2010 To: 09/30/2010
   New/Revised Budget Period 2 for this Award: From: 10/01/2010 To: 03/31/2013

6. Compliance Assessment (skip if new award):
   a. Deliverables
      The Recipient is current in submitting required reports: ☒ Yes ☐ No
      If no, identify the delinquent report(s), indicate what action(s) have been taken to remedy the situation, and identify what further action(s) are necessary, if any:

      N/A

   b. Financial
      The Recipient is current in meeting the cost share requirement: ☒ Yes ☐ No
      If no, indicate what action(s) have been taken to remedy the situation and validate why this new action should proceed:

      N/A

7. Check the applicable box for Funding Appropriation:
   ☒ Energy and Water ☐ Other _____

8. Check the applicable box for Statutory Authority:

   ☒ 109-58, Energy Policy Act 2005
   ☐ 110-140, Energy Independence and Security Act 2007
   ☒ 111-5, Recovery Act
   ☐ Other: _____

9. Per 10 CFR 600, the preferred payment method for State/Local Governments, Institutions of Higher Education, Hospitals, or Other Non-Profit Organizations is **Advance**. The preferred Payment Method for For-Profit organizations is **Reimbursement**. Please state the payment method that will be used for this award in the box below. If the preferred payment method is not planned for a new award, provide an explanation below. Also, explain below if the payment method for the award is being changed by this action. If the ACH or the "ASAP Approval Required" payment methods is required, include an explanation for the restriction.

   The recipient is receiving ARRA funds and will continue to be on the ACH payment method to monitor their funds to ensure costs outside of Budget Period 1 are not charged to the award.

10. Is the proposed Recipient on the debarred or suspended list? Yes ☐ No ☒
    Are any of the proposed subrecipients/subcontractors on the debarred or suspended list? Yes ☐ No ☒
    Is the Project Director on the debarred or suspended list? Yes ☐ No ☒
    If yes for either response above, award cannot be made without obtaining a waiver. See attached waiver.
    The review was conducted on the Internet on 08/13/2010 (Include Printout in permanent STRIPES file)

11. A risk determination has been completed on the PMC Form 460.2 Yes ☒ N/A ☐

12. Negotiation:

	Government Negotiator(s)		Recipient Negotiator(s)	
	Name	Organization	Name	Position
1.	Molly Hames	DOE – Contract Specialist	Sarah McQuaid	Project Manager
2.	Christy Sterner	DOE – Project Officer		
3.	Chris Lindeman	Navarro – Project Engineer		

SECTION II – NEGOTIATION SUMMARY

1. Please record any significant application or budget submissions that resulted in a revised budget in the Negotiation History Table below (including SF424A, budget justifications, e-mails, etc.):

Application/Budget Submission	Reference Document (s)	Date of Submission	Summary of Change
Original		3/3/2010	(Original BP1 amendment)
Revision 1	SF 424A; PMC 123.1; SOPO	6/15/2010	Updated documents to reflect moving REDACTED EXEMPTION 4

2. Complete Budget Table below (only include the original budget and final negotiated costs – the Percent of Total Negotiated Budget will calculate automatically)
Note: List proposed amounts by category even if there are no differences in the dollar amount.

Element of Cost	Original BP 1 Budget Submission	Final Negotiated Costs (BP 1 Revision)	Percent of Total Negotiated Budget	Fringe Benefits and Indirects	
				Proposed Rate	Negotiated Rate
Personnel					
Fringe Benefits					
Travel					
Equipment					
Supplies					
Contractual					
Construction					
Other					
Total Direct Charges					
Indirect Charges					
TOTAL					
Program Income					
DOE Share (non-FFRDC)					
DOE Share (FFRDC)					
Total DOE Share					
Non-Federal Cost Share					

REDACTED EXEMPTION 4

SEE ATTACHED SF 424A FOR BUDGET PERIOD BREAKDOWN

3. Total Allowable Adjustment without Concurrence from the Selection Official per the Selection Statement:

Actual Total Adjustment based on Budget Table Above: Total Budget has not changed other than moving scope from Budget Period 2 to Budget Period 1.

REDACTED
EXEMPTION 4

Is the original budget the same as the negotiated budget: ☐ Yes ☒ No

If No, please check all boxes that apply:

☒ Change in the Project Scope: Some engineering, demolition, and equipment purchases have been moved from BP2 to BP1.

☐ Changes due to Time Delays
☐ Math Errors in Budget
☐ Changes in Indirect/Fringe Costs Caused Changes in Direct Costs or Total Project Costs
☐ Indirect/Fringe Rates incorrectly applied
☐ Other (explain)

4. Briefly describe and explain any substantial change(s) to the original Statement of Project Objectives submitted by the recipient:

Project Officer commentary: The Budget Period 1 SOPO has been updated to

REDACTED
EXEMPTION 4

The NEPA review for both Budget Periods has been completed and the project has been categorically excluded from additional NEPA review. The DOE HQ Biomass Program is also aware of the request to move these tasks into BP1 and agrees with the decision to do so.

SECTION III – TECHNICAL EVALUATION SUMMARY

A. For each cost category, the Project Officer and the Specialist will complete his/her Technical Evaluation of the Negotiated Costs to confirm that they are all reasonable, allowable, and allocable. Additional comments should be added as necessary and as indicated below.

1. Personnel:

Total Negotiated Personnel Costs:	Not Applicable, the recipient did not propose Personnel costs: ☐

Project Officer:
The labor hours proposed in the negotiated budget are reasonable for the scope of work: ☒

The types of labor and labor mix proposed in the negotiated budget is reasonable: ☒

The proposed labor rates are reasonable: ☒

The total personnel hours have been

REDACTED
EXEMPTION 4

The rates proposed are reasonable and are based on actual salaries. Based on the scope of work proposed in the revision and Solazyme's management and engineering oversight roles, the positions and corresponding hours proposed are appropriate and reasonable.

Specialist:
Please fill out the following table with the negotiated costs:

Labor Type	Budget Period 1		
	Hours	Rate	Total

REDACTED
EXEMPTION 4

Negotiated labor rates are reasonable: ☒
Please detail the basis for the reasonable determination: The hourly rates were previously approved in Mod 001. These costs are reasonable and necessary for the work being done in Budget Period 1.

2. Fringe Benefits:

Total Negotiated Fringe Benefit Costs:	Not Applicable, the recipient did not propose Fringe Benefit costs: ☐

Specialist:
Does the Recipient have an approved rate agreement: ☐ Yes ☒ No

If No, select one of the following:
☒ Rate proposal was reviewed by the Cost/Price Analyst and found to be reasonable, allowable, and allocable (attach Cost/Price Analyst Determination)
☐ Rate Proposal was reviewed by the Cost/Price Analyst for a previous award (attach Cost/Price Analyst Determination)
List Date of review:
☐ Specialist determined that rate was reasonable
☐ Other: _____

REDACTED
EXEMPTION 4

Personnel	Total Cost	Fringe Rate	Cost
Total Personnel			

The fringe benefit costs in the negotiated budget were appropriately applied and are reasonable: ☒
The fringe benefits have been calculated correctly using the proposed rate. The recipient has an agreement, but the re not addressed. These costs are considered reasonable, per internal benchmarks, and recommended acceptable.

3. Travel:

Total Negotiated Travel Costs:	Not Applicable, the recipient did not propose Travel costs: ☐

Project Officer:

The number and type of trips proposed in the negotiated budget are reasonable for the scope of work: ☒

The costs per trip proposed in the negotiated budget are reasonable: ☒

REDACTED
EXEMPTION 4

Travel has increased from the original BP1 budget due to
are planned for site preparation. The site preparation includes
The other proposed trip includes The costs associated with the travel for each site visit and are based on internet prices and previous experience with travel of this nature. The number of trips proposed and the associated costs are reasonable and necessary for successful completion of the BP1 work.

Is foreign travel included in the negotiated budget: ☐ Yes ☒ No

☒ Specialist concurs.

4. Equipment:

Total Negotiated Equipment Costs: REDACTED EXEMPTION 4	Not Applicable, the recipient did not propose Equipment costs: ☐

Project Officer:

The type(s) of equipment proposed in the negotiated budget is/are reasonable for the scope of work: ☒

The cost of equipment proposed in the negotiated budget are reasonable: ☒

Is there any proposed equipment with a total cost exceeding $50,000: ☒ Yes ☐ No

Equipment	Total Cost	Purpose of Equipment	Basis of Cost
Total:			

REDACTED
EXEMPTION 4

Originally, no costs were proposed for Budget Period 1, but with this revision and changes to the scope, the recipient has requested to . The breakout of costs above are for the individual components of both systems. All of this and is necessary for the completion of Budget Period 1 activities and for the preparation of Budget Period 2. The estimates for components not directly supported by vendor quotes are based on cost estimating experience for similar pieces of equipment from previous projects. The quoted estimates and the estimates based on experience are reasonable for the proposed equipment.

REDACTED
EXEMPTION 4

☒ Specialist concurs.

5. Supplies:

Total Negotiated Supplies Costs:	Not Applicable, the recipient did not propose Supplies costs: ☒

Project Officer:
No supply costs were proposed for Budget Period 1.

☒ Specialist concurs.

REDACTED
EXEMPTION 4

6. Contractual:

Total Negotiated Contractual Costs:	Not Applicable, the recipient did not propose Contractual costs: ☐

Project Officer:
The subrecipients proposed in the negotiated budget are appropriate for the scope of work: ☒

The contractual costs proposed in the negotiated budget are reasonable: ☒ Yes
Please fill out the following table with the negotiated costs:

Subrecipient/ Vendor Name	BP 1 Cost	Role in Project (Identify SOPO Tasks)
REDACTED EXEMPTION 4		
Total:		

originally had costs proposed in Budget Period 1; however, due to the change in scope for Budget Period 1, the total costs for have been moved to Budget Period 2.

The proposed costs for have previously been evaluated and accepted; no changes were made to this cost.

The proposed costs for REDACTED EXEMPTION 4 during contract negotiation increased by due to the additional scope and preparation work to be done prior to Budget Period 2 activities.

The proposed costs for for the completion of document preparation have decreased by This is due to the Recipient's increased knowledge and familiarity with DOE's forms and processes.

REDACTED EXEMPTION 4 is a consultant and A PM has been hired; however, Solazyme is retaining s serv REDACTED EXEMPTION 4

In the original BP1 budget, REDACTED EXEMPTION 4 had not been identified. Since then and prior to this revision,

estimate was based on Solazyme's REDACTED EXEMPTION 4 . Consequently, REDACTED EXEMPTION 4 The costs are reasonable for the work will be performing during BP1in preparation for BP2.

The is one of the tasks being moved from BP2 to BP1 per this action. Solazyme performed a competitive bidding process for The cost estimate is based on the bids Solazyme received for this work. The is necessary in order to proceed with the remaining work in BP1 in preparation for activities in BP2. The cost estimate is reasonable for this task. Once will be further supported with the agreement between Solazyme and the selected REDACTED EXEMPTION 4

The costs associated with the not included in the equipment quotes The cost estimate is based on Solazyme's previous experience REDACTED EXEMPTION 4 The estimate is reasonable and the work is necessary for moving the project toward BP2.

Did the Recipient propose any subrecipients with total costs above $250,000? ☐ Yes ☒ No
The subrecipient costs have all been moved to Budget Period 2 with this modification. Quotes and estimation bases have been provided for the vendor costs noted above.

☒ Specialist concurs:

7. Construction:

Total Negotiated Construction Costs:	Not Applicable, the recipient did not propose Construction costs: ☒
Project Officer No costs were proposed for Budget Period 1. Please note that the final and PMC 123.1 submitted by Solazyme include These are costs and have been moved to the on the SF 424a.	
☒ Specialist concurs.	

REDACTED
EXEMPTION 4

8. Other Direct Costs:

Total Negotiated Other Direct Costs:	Not Applicable, the recipient did not propose Other Direct costs: ☒
Project Officer: No other direct costs were proposed for Budget Period 1. Please note that the final revised SF 424a and PMC 123.1 submitted by Solazyme These are contractual costs and have been moved to the 'Contractual' budget category on the SF 424a.	
☒ Specialist concurs.	

9. Indirect Charges:

Total Negotiated Indirect Costs:	Not Applicable, the recipient did not propose Indirect Costs: ☐

Specialist:

Does the Recipient have an approved rate agreement: ☒ Yes ☐ No

REDACTED
EXEMPTION 4

If Yes, List the Date of Rate Agreement: April 2, 2010
Cite Federal Cognizant Agency: Defense Logistics Agency (DLA)

If No, select one of the following:
☒ Rate proposal was reviewed by the Cost/Price Analyst and found to be reasonable, allowable, and allocable (attach Cost/Price Analyst Determination)
☐ Rate Proposal was reviewed by the Cost/Price Analyst for a previous award (attach Cost/Price Analyst Determination)
List Date of review:
☐ Specialist determined that rate was reasonable
☐ Other: _____

Please fill out the following tables with the negotiated costs:

	Base Item	Base Cost	Rate	Indirect Cost
Proposed				
Rate Agreement	Total Direct Costs			

REDACTED
EXEMPTION 4

The indirect costs proposed in the negotiated budget were appropriately applied and are reasonable: ☒
The indirects have been calculated correctly using the proposed rate and base; h Applying the rate in their rate agreement of
er discussions with the recipient and Cost/Price, the recipient has agreed to a cap of for Budget Period 1.

10. Cost Share:

Project Officer:
Project is a: ☒ Research ☒ Development ☐ Demonstration ☐ Other: Pilot Plant

The minimum recipient's cost share required for this award is:
The recipient proposed cost share for this award is:
Does the proposed cost share meet the minimum requirement: ☒ Yes ☐ No

Specialist:
Is the proposed cost share: ☒ Cash ☐ In-kind

Organization	Type of Cost Share	Cost Share Amount
[redacted]		
[redacted]		
[redacted]		
Total:		

REDACTED
EXEMPTION 4

Third Party cost share commitment letters have been obtained: ☒ (Please include letters in permanent STRIPES file)
share commitments did not change from the previous modification. Solazyme's cost share commitment changed due to the change in the budget with this modification.
included in the previous modification 001.

REDACTED
EXEMPTION 4

B. The following Project Officer and Specialist evaluation and negotiation commentary and recommendations address their agreement on all additional considerations for this award.

1. Please list any other special provisions agreed upon for inclusion in this award and describe the rationale for their inclusion below.

Changes to the Terms and Conditions with this modification include: 1) Update the "Cost Sharing" provision; 2) "Revising the Rebudgeting and Recovery of Indirects" provision to include a cap; 3) Update the "Funding of Budget Periods" provision; 4) Update the "NEPA" provision to release NEPA hold for entire project; and 5) Remove the "Reopener Term".

2. If a negotiation strategy, or strategies, is/are specified in the selection statement, provide a discussion below of how this was addressed and resolved.

N/A.

3. Any other comments or concerns of the Project Officer and/or Specialist for this award, and the recommended approach to mitigating them, will be explained and addressed below.

None.

4. Is this a Recovery Act award? ☒ Yes ☐ No

- If Yes, does the Buy American Act apply (see applicability below)? ☒ Yes ☐ No
- If Yes, does Davis Bacon Act apply (see applicability below)? ☒ Yes ☐ No

If the answer to either the Buy American Act or Davis Bacon Act questions is Yes, provide a short discussion below on: 1) the type of entity; 2) what applies; Davis Bacon, Buy American, or both; 3) whether it applies to the prime, subrecipient, or both; and 4) work to be performed that requires applicability of Buy American and/or Davis Bacon.

Solazyme, their subrecipients, contractors, vendors, and other entities involved in this project will comply with Davis Bacon Act requirements where those requirements are applicable for this project. The Davis Bacon Act will apply to Budget Periods 1 and 2.