Sub-Recipient Name/Organization	Purpose/Tasks in SOPO	Budget Period 1 Costs	Budget Period 2 Costs	Budget Period 3 Costs	Project Total
Exemption 4					

FFRDC Name/Organization	Purpose	Budget Period 1 Costs	Budget Period 2 Costs	Budget Period 3 Costs	Project Total
NREL- National Renewable Energy Laboratory	Exemption 4				

Total Contractual	Exemption 4

f. Contractual

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 actiivities:

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!!!	$28,000	Engineering estimate	Site must be prepared for construction of platform.
Budget Period 1 Total	$0		
Budget Period 2			
Budget Period 2 Total	$0		

General Description	Cost	Basis of Cost	Justification of need
Budget Period 3			
Budget Period 3 Total	$0		
PROJECT TOTAL	**$0**		

Additional Explanations/Comments (as necessary)

Construction will be sub-contracted, one of our sub-recipient partners, The Dow Chemical Company, will provide ground clearing/ land prep work while the actual construction contractor is TBD. These amounts have been included on the Contractual tab. At the end of the this file there is a tab, Construct Recon, which summarizes the the capitalized costs.

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	$16,000	Established UCD costs	Support of graduate students working on project
Budget Period 1 Total			
Budget Period 2			
Exemption 4	Exemption 4		
Budget Period 2 Total			
Budget Period 3			
	$0		

General description	Cost	Basis of Cost	Justification of need
Exemption 4			

i. Indirect Costs

	Budget Period 1	Budget Period 2	Budget Period 3	Total
Rate applied:	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)

Please see the Indirect Proposal tab at the end of this file for indirects calculation. The allowable rate per the calculation is Exemption % and we request this rate during Phase II since we anticipate during the construction period this would require maximum overhead effort. Please note the overhead rate was not applied to Fringe, Travel nor construction costs.

Cost Share

PLEASE READ!!!

A detailed presentation of the cash or cash value of all cost share proposed for the project must be provided in the table below. Identify the source & amount of each item of cost share proposed by the award recipient and each sub-recipient or vendor. Letters of committment must be submitted for all third party cost share (other than award recipient).

Note that "cost-share" is not limited to cash investment. Other items that may be assigned value in a budget as incurred as part of the project budget and necessary to performance of the project, may be considered as cost share, such as: contribution of services or property; donated, purchased or existing equipment; buildings or land; donated, purchased or existing supplies; and/or unrecovered personnel, fringe benefits and indirect costs, etc. For each cost share contribution identified as other than cash, identify the item and describe how the value of the cost share contribution was calculated.

Funds from other Federal sources MAY NOT be counted as cost share. This prohibition includes FFRDC sub-recipients. Non-Federal sources include private, state or local Government, or any source not originally derived from Federal funds. Documentation of cost sharing commitments must be provided, if not already provided with the original application and they have not changed since its submission.

Fee or profit will not be paid to the award recipients or subrecipients of financial assistance awards. Additionally, foregone fee or profit by the applicant shall not be considered cost sharing under any resulting award. Reimbursement of actual costs will only include those costs that are allowable and allocable to the project as determined in accordance with the applicable cost principles prescribed in 10 CFR 600.127, 10 CFR 600.222 or 10 CFR 600.317. Also see 10 CFR 600.318 relative to profit or fee.

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

Organization/Source	Type (cash or other)	Cost Share Item	Budget Period 1 Cost Share	Budget Period 2 Cost Share	Budget Period 3 Cost Share	Total Project Cost Share
ABC Company **EXAMPLE ONLY!!!**	Cash	Project partner ABC Company will provide 40 PV modules for product development at 50% off the of the retail price of $680	$13,600			**$13,600**
Algenol Biofuels Inc	Exemption 4					
The Dow Chemical Company						
The Dow Chemical Company						
Membrabe Technology and Research, Inc.						

Organization/Source	Type (cash or other)	Cost Share Item	Budget Period 1 Cost Share	Budget Period 2 Cost Share	Budget Period 3 Cost Share	Total Project Cost Share
	Exemption 4					
		Totals	Exemption 4			

Total Project Cost: $Exemption 4

Cost Share Percent of Award: Exemption 4 %

Additional Explanations/Comments (as necessary)

Redacted

Exemption 4

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Exemption 4

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Exemption 4

STATEMENT OF PROJECT OBJECTIVES
Algenol Biofuels Inc.
Pilot-Scale Integrated Biorefinery for Producing Ethanol from Hybrid Algae

A. PROJECT OBJECTIVES

Exemption 4

B. PROJECT SCOPE

The DOE Office of Energy Efficiency and Renewable Energy (EERE) has established performance goals. Among these goals are to: 1) dramatically reduce, or even end, dependence on imported oil; and 2) spur the creation of the domestic bio-industry. To that end, the Office of the Biomass Program is offering to fund integrated biorefinery projects under this FOA entitled "Demonstration of Integrated Biorefinery Operations". The FOA lists three main criteria for selection; 1) technical merit and rationale, 2) credible economics and competitive advantages that justify an award, and 3) knowledge and experience in project management.

Algenol and its collaborators, The Dow Chemical Company, National Renewable Energy Laboratory, Membrane Technology & Research Inc., and The Georgia Institute of Technology, have collectively prepared an application that is responsive to the selection criteria as detailed below.

Exemption 4

Exemption 4

C. TASKS TO BE PERFORMED

Exemption 4

Exemption 4

Exemption 4

Exemption 4

STRIPES 'ASSISTANCE AGREEMENT' (COVER PAGE) TEMPLATE LANGUAGE FOR NEW AWARDS AND AWARD MODIFICATIONS

MODIFICATIONS:

Please add the following language to all award modifications in STRIPES at MAIN/TEXT/Header Text

The purposes of this modification are to:

1) Delete and replace the Special Terms and Conditions to reflect the following changes:
   a. Delete and replace Provision 6, "Cost Sharing";
   b. Delete and replace Provision 20, "Funding of Budget Periods";
   c. Delete Provision 27, "Subcontract Approvals"; and
   d. Delete Provision 35, " Reopener Term – Pending Indirect Rates – Financial Assistance ";

2) Delete and replace the Budget Information, SF-424A (Attachment 4);

3) Update the Recipient Business Officer, as shown below; and

4) This modification approves only Budget Period 1 of the Project.

All other terms and conditions remain unchanged.

In Block 7 of the Assistance Agreement, the Period of Performance reflects the beginning of the Project Period through the end of the current Budget Period, shown as 01/29/2010 through 09/30/2010. For multiple Budget Periods, see Special Terms and Conditions, Provision 4, "Award Project Period and Budget Periods."

The total amounts reflected in Blocks 12 and 13 of the Assistance Agreement do not include the Federally Funded Research and Development Center (FFRDC) funding amount of $424,480, which will be funded directly.

DOE Award Administrator: Molly Hames
E-mail: molly.hames@go.doe.gov
Phone: 303-275-4864

DOE Project Officer: Christy Sterner
E-mail: christy.sterner@go.doe.gov
Phone: 303-275-4720

Recipient Business Officer: Katie McFadden
E-mail: Katie.McFadden@Algenolbiofuels.com
Phone: 239-498-2000

Recipient Principal Investigator: Craig Smith
E-mail: craig.smith@algenolbiofuels.com
Phone: 239-498-2000

PMC 128.5
03-26-2010

Please add the following statement to all new awards in STRIPES at <u>MAIN/TEXT/Header Text</u>
Add 'Electronic Signature Defined' statement

Applicant Name: Algenol Biofuels Inc. Award Number: DE-EE0002867.002 Attachment 4

Budget Information - Non Construction Programs

OMB Approval No. 0348-0044

Section A - Budget Summary

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. Budget Period 1	81.087			$9,896,607	Exemption 4	
2. Budget Period 2	81.087			TBD		
3.						
4.						
5. Totals		$0	$0	$9,896,607		

Section B - Budget Categories

6. Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1) Budget Period 1	(2) Budget Period 2	(3)	(4)	
a. Personnel	Exemption 4				
b. Fringe Benefits					
c. Travel					
d. Equipment					
e. Supplies					
f. Contractual					
g. Construction					
h. Other					
i. Total Direct Charges (sum of 6a-6h)					
j. Indirect Charges					
k. **Totals** (sum of 6i-6j)					
7. Program Income					$0

Previous Edition Usable

SF-424A (Rev. 4-92)
Prescribed by OMB Circular A-102

Authorized for Local Reproduction

PMC 128.1
06-18-2009

U.S. Department of Energy
Project Management Center

FINANCIAL ASSISTANCE AWARD
INDEX and CHECKLIST
(BUYER USE ONLY)

Award #:	**DE-EE0002867 / 002**	**Program:**	The Office of the Biomass Program
Recipient Name:	**Algenol Biofuels, Inc.**		
FOA #:	**DE-FOA-0000096**		
Specialist:	**Molly Hames**	**Phone:**	303-275-4864
Contracting Officer:	**Michael Schledorn**	**Phone:**	303-275-4993
Project Officer:	**Christy Sterner**	**Phone:**	303-275-4720

Action Item	*Indicate Completion of Action Item by inserting a date in the applicable box below*	
1	Verify Recipient's registration with the Central Contractor Registration (CCR) (http://www.ccr.gov)	CCR Registration Valid through: 04/05/2011
2	Verify Recipient's registration with FedConnect (goto P:\STRIPES\Fedconnect Reports)	Registration Confirmed on: 07/14/2010
3	ASAP Enrollment; if Recipient is not enrolled in ASAP, send .pdf of completed PMC 121.1 to 'GO Finance' mailbox	PMC 121.1 sent to 'GO Finance' on: N/A
4	Vendor Supplier/Site Information Form; send completed PMC 128.8 to 'GO Finance' mailbox (MS 2007)	Vendor Supplier/Site Information Form sent to 'GO Finance' on: N/A

STRIPES Index #	Supporting Document		Form #	applicable	not applicable	Supporting Document Naming Convention	pdf. required
AWD-001	Award Index and Checklist		PMC 128.1	X		**AWD-001 AWDChecklist**	
AWD-002	Selection Statement		n/a		X	**AWD-002 SelStat**	.pdf
AWD-003	Determination of Non-Competitive Financial Assistance (DNFA) Documentation (include Request for Review PMC.112.2)		PMC 109.x		X	**AWD-003 DNFADocs**	batch .pdf
AWD-004	HCA Approval (Total Project Value greater than $25M and less than $50M) (include Request for Review PMC.112.2)		n/a		X	**AWD-004 HCAApvl**	.pdf
AWD-005	HQ Business Clearance Documentation (Total Project Value greater than or equal to $50M)						
	AWD-005a	HQ Business Clearance Worksheet	PMC 107.1		X	**AWD-005 HQBusClrDocs**	batch .pdf
	AWD-005b	HQ Business Clearance Transmittal Letter(s)	PMC 107.4		X		
	AWD-005c	HQ Business Clearance; Correspondence received from HQ	n/a		X		
AWD-006	Congressional Affairs Notification		DOE F 4220.10		X	**AWD-006CongNotification**	.pdf
AWD-007	Successful Application Documentation (Prime) - Algenol Biofuels, Inc.						
	AWD-007a	Application for Federal Assistance	SF-424		X	**AWD-007a AppDocsPrime (Algenol)**	batch .pdf
		SF424A Budget Information	SF-424A	X			
		Budget Justification	PMC 123.1	X			
		Disclosure of Lobbying Activities	SF-LLL		X		
		Cost Share Commitment Ltrs from Third Parties	n/a		X		
	Successful Application Documentation (Sub #1) Georgia Institute of Technology						
	AWD-007b	SF-424A Budget Information	SF-424A		X	**AWD-007b AppDocsSub [GA Tech]**	batch .pdf
		Budget Justification	PMC 123.1		X		
	Successful Application Documentation (Sub #2) Membrane Technology and Research, Inc.						
	AWD-007c	SF-424A Budget Information	SF-424A		X	**AWD-007c AppDocsSub [MTR]**	batch .pdf
		Budget Justification	PMC 123.1		X		
	Successful Application Documentation (Sub #3) The Dow Chemical Company						
	AWD-007d	SF-424A Budget Information	SF-424A	X		**AWD-007d AppDocsSub [Dow]**	batch .pdf
		Budget Justification	PMC 123.1	X			
AWD-008	National Environmental Policy Act (NEPA) Documentation						
	AWD-008a	NEPA Checklist	EF-1		X		

STRIPES Index #	Supporting Document		Form #	applicable	not applicable	Supporting Document Naming Convention	pdf. required
	AWD-008b	NEPA Review	EF-2		X	AWD-008 NEPADocs	batch .pdf
	AWD-008c	NEPA Determination	EF-2a		X		
AWD-009	Pre-Award Information Sheet		PMC 121.1	X		AWD-009 PreAwardInfo	.pdf
AWD-010	Dun&Bradstreet Risk Assessment		PMC 460.2		X	AWD-010 D&BAssessment	.pdf
AWD-011	Combined Technical Evaluation / Negotiation Memorandum		PMC 120.2	X		AWD-011 TechEvalNegMem	.pdf
AWD-012	Intellectual Property Law Division (IPLD) Documentation						
	AWD-012a	IPLD Petition for Advance Waiver of Patent Rights	PMC 133.2		X	AWD-012 IPLDDocs	batch .pdf
	AWD-012b	IPLD Pre-Award Review Request	PMC 133.3		X		
	AWD-012c	IPLD Recommendation	e-mail		X		
	AWD-012d	IPLD Limited Rights Data and Restricted Computer Software	n/a		X		
AWD-013	Cost Share Determination Documentation						
	AWD-013a	Cost Share Determination	PMC 112.2		X	AWD-013a CostShareDet	.pdf
	AWD-013b	Cost Share Waiver	PMC 142.2		X	AWD-013b CostShareWaiver	.pdf
AWD-014	Cost / Price Documentation						
	AWD-014a	Financial Information	PMC 410.1	X		AWD-014 CostPriceDocs	batch .pdf
	AWD-014b	Indirect Rate Agreement or Rate Proposal	n/a	X			
	AWD-014c	Response from C/P Analyst regarding Indirect Rates	PMC 420.3	X			
AWD-015	Excluded Parties List System (EPLS) Query (https://www.epls.gov)		n/a	X		AWD-015 EPLS	
AWD-016	Pre-Award Cost Request and Authorization		n/a		X	AWD-016 PreAwdCostAuth	.pdf
AWD-017	Justification for Use of Conditional Availability of Funds Provision		PMC 132.2		X	AWD-017 JustificationCondAvail	.pdf
AWD-018	Correspondence to Recipients (use this section for correspondence not issued at FOA level)						
	AWD-018a	Correspondence		X		AWD-018a Correspondence	batch .pdf
AWD-019	Internal Review(s)						
	AWD-019a	Request for Review (Review of Award Package)	PMC 112.2	X		AWD-019a RvwAwdPkg	.pdf
	AWD-019b	HCA Approval and Business Clearance	n/a		X	AWD-019b DDRvw	.pdf
AWD-020	Deviations		n/a		X	AWD-020 GuideLtr	.pdf
Cover Page	Assistance Agreement Form		n/a	X			
Body	Special Terms and Conditions		n/a	X			
Attachment 1	Intellectual Property Provisions		n/a				
Attachment 2	Statement of Project Objectives		n/a				
Attachment 3	Federal Assistance Reporting Checklist and Instructions		DOE F 4600.2				
Attachment 4	Budget Information		n/a	X			
Attachment 5	Congintency Appendix		n/a				

PMC 120.1
(2/08)

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: Algenol Biofuels Inc.

2. Grant/Cooperative Agreement No.: EE0002867 Modification No. 002
   Requisition No: 10EE004395
   Project Title: Recovery Act: Integrated Pilot-Scale Biorefinery for Producing Ethanol from Hybrid 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 revise the Budget Period (BP1) budget and lift the remaining BP1conditions for the Algenol Biofuels project entitled, "Recovery Act: Pilot-Scale Integrated Biorefinery for Producing Ethanol from Hybrid Algae" (DE-EE0002867). The revised BP1 budget ($ Exemption 4 has been reduced from the originally approved budget
Exemption 4

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: 01/29/2010 To: 12/31/2014
New/Revised Budget Period 1 for this Award: From: 01/29/2010 To: 09/30/2010
New/Revised Budget Period 2 for this Award: From: 10/01/2010 To: 12/31/2014

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:

   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 (2009)
   ☐ 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**. 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.
   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 07/15/2010 (Include Printout in permanent STRIPES file)
(Date)

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	Contract Specialist	Dr. Craig Smith	COO
2.	Christy Sterner	Project Officer	Pat Alm	Assistant Project Manager
3.	Christine English	Navarro Project Engineer	Dax Denman	Assistant Project Manager

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		Jun-09	
Revision #1	123.1; SF424A	1/10/2010	Updated budget to remove some BP2 activities and contigency
Revision #2	123.1;SF424A, SOPO	3/2/2010	Budget and SOPO were adjusted to reflect expedited schedule.
Final	123.1;SF424A	4/21/2010	Dow Chemical revised their budget to remove BP2 activities and Algenol updated some of their cost categories (Note: additional changes were made in July due to proper application of the approved indirect rate.)

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 BP1 Negotiated Costs (3/2/10)	Final BP1 Negotiated Costs (7/23/10)	Percent of Total Negotiated Budget	Fringe Benefits and Indirects	
				Proposed Rate	Negotiated Rate
Personnel	Exemption 4				
Fringe Benefits					
Travel					
Equipment					
Supplies					
Contractual					
Construction					
Other					
Total Direct Charges					
Indirect Charges					
TOTAL					
Program Income	0	0	0%		
DOE Share (non-FFRDC)	$10,668,903	$9,896,607	Exemption 4		
DOE Share (FFDRC)	$424,480	$424,480			
Total DOE Share	$11,093,383	$10,321,087			
Non-Federal Cost Share	Exemption 4				

SEE ATTACHED SF 424A FOR BUDGET PERIOD BREAKDOWN

3. Total Allowable Adjustment without Concurrence from the Selection Official per the Selection Statement: 10%
   Actual Total Adjustment based on Budget Table Above: 0%
   Total Project Costs have not changed from Selection Statement – these are BP1 costs only.
   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
   ☒ 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: No changes have been made to the Statement of Project Objectives that was approved in the 001 modification to the award, which lifted all conditions on BP1 except for the work to be completed by the sub-recipient, Dow Chemical. In the original action, the Dow Chemical sub-recipient included costs in BP1 that were not allowed and had to be moved to BP2. In this action, those costs have been moved to BP2. Thus, the scope of work did not change; the associated costs were simply moved to the next phase of the project.

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: $Exemption 4 Not Applicable, the recipient did not propose personnel costs: ☐

Project Officer:
Original Budget: Exemption 4
Revised budget: $
The labor hours proposed in the negotiated budget are reasonable for the scope of work: ☒

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

The revised budget has changed from the originally approved budget of $Exemption 4 . The changes include a reduction in the number of hours and associated costs with various tasks. More specifically, the changes include the
Exemption 4

Based on comparable positions, experience levels, and rates for technology positions in the industry, the rates are reasonable. While some may seem high, such as the VPs, PI, Mgrs, etc., these positions are for highly experienced personnel and top management within the company; their rates are comparable to higher end rates for these types of positions.

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

Task	Task Title	Budget Period 1	
		Hours	Budget
Exemption 4			

Negotiated labor rates are reasonable: ☒
These rates were previously deemed reasonable, due to the nature of the activities, the stature of many of the positions within the company, and also the locality. The specialist feels it is reasonable that the recipient felt the number of hours could be reduced in order to meet the objectives of the SOPO for Budget Period 1. For a more detailed personnel cost breakdown, please reference the PMC 123.1 for this modification.

2. Fringe Benefits:

Total Negotiated Fringe Benefit Costs: $Exemption 4 Not Applicable, the recipient did not propose fringe benefit costs: ☐

Original Budget: Exemption 4
Revised Budget: $
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:

Please fill out the following table with the negotiated costs:

Personnel	Total Cost	Fringe Rate	Cost
Total Personnel	Exemption 4		

The fringe benefit costs in the negotiated budget were appropriately applied and are reasonable: ☒

3. Travel:

Total Negotiated Travel Costs: $Exemption 4 Not Applicable, the recipient did not propose travel costs: ☐

Project Officer:
The travel budget did not change from the originally approved budget.
☒ Specialist concurs.

4. Equipment:

Total Negotiated Equipment Costs: $Exemption 4 Not Applicable, the recipient did not propose equipment costs: ☐

Project Officer:
Original Budget: Exemption 4
Revised Budget: $
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 original budget are reasonable: ☒

Two additional pieces of equipment were budgeted to be purchased during BP1 that were not originally included in the budget for BP1. These include a Exemption 4
Exemption 4 Quotes have been received from the recipient. These pieces of equipment were not included in the original budget but are included in the revised budget because they did not have an engineering department at the time the budget was submitted. When the Director of Engineering was hired, he assessed his department's needs to achieve the project objectives, and identified the need to have Exemption 4
selected has the added advantage of being compatible with their sub-recipient's systems (The Dow Chemical Company).
Exemption 4 which was not contemplated in the original budget.

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

5. Supplies:

Total Negotiated Supplies Costs: $0 Not Applicable, the recipient did not propose supplies costs: ☒

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

6. Contractual:

Total Negotiated Contractual Costs: $Exemption 4 Not Applicable, the recipient did not propose contractual costs: ☐

Original Budget: Exemption 4
Revised Budget: $
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

Did the Recipient propose any subrecipients with total costs above $100,000? ☒ Yes ☐ No (If Yes, a separate Technical Evaluation/Negotiation Memorandum is required for each subrecipient/vendor – see below)

The revised budget contains less contractual costs because Dow Chemical moved a portion of their costs from BP1 to Exemption 4

revised budget. Please see the 123.1 for reference

☒ Specialist concurs.

7. Construction:

Total Negotiated Construction Costs: $0 Not Applicable, the recipient did not propose construction costs: ☒

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

☒ Specialist concurs.

8. Other Direct Costs:

Total Negotiated Other Direct Costs: $0 Not Applicable, the recipient did not propose other direct costs: ☒

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

☒ Specialist concurs.

9. Indirect Charges:

Total Negotiated Indirect Costs: $Exemption 4 Not Applicable, the recipient did not propose indirect costs: ☐

Original Budget: Exemption 4
Revised Budget: $
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:

Please fill out the following tables with the negotiated costs:

Base Item	Base Cost	Rate	Indirect Cost
Personnel	Exemption 4		
Fringe Benefits			
Travel			
Equipment			
Supplies			
Contractual (Vendor)			
Construction			
Other Direct Costs			
Total:			

The indirect costs proposed in the original budget are reasonable: ☒
Exemption 4

10. Cost Share:

Project Officer:
Project is a: ☒ Research ☒ Development ☐ Demonstration ☐ Other: Pilot Project, BP1 (Explain)

The minimum recipient's cost share required for this award is: Exemption 4
The recipient proposed cost share for this award is: Exemption 4

Does the proposed cost share meet the minimum requirement: ☒ Yes ☐ No

Specialist:
Is the proposed cost share: ☒ Cash ☐ In-kind (detail the amount and category below for in-kind cost share, if applicable)

All proposed cost share is proposed as Exemption 4
from Membrane Technology and Research, Inc.

Organization	Type of Cost Share (Cash or in-kind)	Cost Share Amount	Basis of Value (how the recipient calculated value)
Algenol	Exemption 4		
DOW Chemical Company			
Membrane Technology and Research, Inc.			

Third Party cost share commitment letters have been obtained: ☒ (Please include letters in permanent STRIPES file)
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.

The following changes will be made to the Special Terms and Conditions from Modification 001: 1) Delete and replace Provision 6, "Cost Sharing"; 2) Delete and replace Provision 20, "Funding of Budget Periods"; 3) Delete Provision 27, "Subcontract Approvals"; and 4) Delete Provision 35, "Reopener Term – Pending Indirect Rates – Financial Assistance".

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.

Exemption 4 Total Project Costs must be kept aside from the project budget as contingency for the project. This contingency is applicable to total project costs (BP2 forward) and will be verified by the Project Officer as requested and discussed in the Contingency Appendix that will be attached to the award. Contingency will be reported and tracked as well to address Exemption 4 requirement per the Selection Statement.

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.

All comments and concerns have been previously noted.

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.

Algenol Biofuels Inc. is subject to the Davis Bacon Act and it will apply to both the Recipient and their subrecipients, throughout the entirety of the project (Budget Periods 1 & 2). This project will include construction activities, and these are subject to the Davis Bacon Act.

Subrecipient: The Dow Chemical Company

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		Jun-09	
Revision #1	123.1.; SF424A	1/10/2010	Updated budget to remove some BP2 activities and contigency
Revision #2	123.1: SF424A	3/11/2010	Provided 123.1
Revision #3	123.1: SF424A	4/21/2010	Revised 123.1
Final		5/28/2010	Additional justification for personnel and use of cost share was provided

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 BP1 Budget Submission	Final BP1 Negotiated Costs	Percent of Total Negotiated Budget	Fringe Benefits and Indirects	
				Proposed Rate	Negotiated Rate
Personnel	Exemption 4				
Fringe Benefits					
Travel					
Equipment					
Supplies					
Contractual					
Construction					
Other					
Total Direct Charges					
Indirect Charges					
TOTAL					
Program Income					
DOE Share (non-FFRDC)	$2,150,008	$1,416,520	Exemption 4		
DOE Share (FFDRC)	$0	$0			
Total DOE Share	$2,150,008	$1,416,520			
Non-Federal Cost Share	Exemption 4				

SEE ATTACHED SF 424A FOR BUDGET PERIOD BREAKDOWN

3. 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
☐ 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): BP2 construction costs were moved to BP2 from the BP1 budget

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

Project Officer commentary: The scope of work for BP1 proposed by Dow Chemical Company within Algenol's project changed since the original application. Initially, the work that was proposed for BP1 included activities that could only be completed in BP2. These BP2-type activities and the associated costs have been moved out of the budget for BP1 and these costs are evaluated below.

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: $Exemption 4 Not Applicable, the recipient did not propose personnel costs: ☐

Project Officer:
Dow proposed numerous positions by staff name rather than position. They also provided total hours and total compensation. The average rate based on this information calculates Exemption 4 This a reasonable rate for the type of work Dow staff will be performing. Additional detail regarding actual positions and compensation rates per position is provided here:

Position Title	# of Employees	Hours	Dollars - Yr 1
Technologist, R&D			
Scientist, R&D	Exemption 4		
Sr. Research Specialist, R&D			
Total:			

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

☒ Specialist concurs.

2. Fringe Benefits:

Total Negotiated Fringe Benefit Costs: $0 Not Applicable, the recipient did not propose fringe benefit costs: ☒

Specialist:
No fringe benefit costs were proposed for Budget Period 1.

3. Travel:

Total Negotiated Travel Costs: $0 Not Applicable, the recipient did not propose travel costs: ☒

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

☒ Specialist concurs: