ID	WBS	Task Name	Duration	Start	Finish
130	**1.5.3**	Exemption 4			
131	**1.5.3.1**				
132	**1.5.3.1.1**				
133	1.5.3.1.1.1				
134	1.5.3.1.1.2				
135	1.5.3.1.1.3				
136	**1.5.3.1.2**				
137	1.5.3.1.2.1				
138	1.5.3.1.2.2				
139	1.5.3.1.2.3				
140	1.5.3.1.2.4				
141	**1.5.3.1.3**				
142	1.5.3.1.3.1				
143	1.5.3.1.3.2				
144	1.5.3.1.3.3				
145	1.5.3.1.3.4				
146	1.5.3.1.3.5				
147	1.5.3.1.3.6				
148	**1.5.3.1.4**				
149	1.5.3.1.4.1				
150	1.5.3.1.4.2				
151	**1.5.3.1.5**				
152	1.5.3.1.5.1				
153	1.5.3.1.5.2				
154	1.5.3.2				
155	**1.5.4**				
156	1.5.4.1				
157	1.5.4.2				
158	1.5.4.3				
159	**1.5.5**				
160	1.5.5.1				
161	1.5.5.2				
162	1.5.5.3				
163	1.5.5.4				
164	**1.6**				
165	1.6.1				
166	1.6.2				
167	1.6.3				
168	1.6.4				
169	**1.7**				
170	1.7.1				
171	1.7.2				
172	1.7.3				

ID	WBS	Task Name	Duration	Start	Finish
173	**1.8**	Exemption 4			
174	1.8.1				
175	1.8.2				
176	**2**				
177	**2.1**				
178	2.1.1				
179	2.1.2				
180	2.1.3				
181	2.1.4				
182	**2.2**				
183	**2.2.1**				
184	2.2.1.1				
185	2.2.1.2				
186	**2.2.2**				
187	2.2.2.1				
188	2.2.2.2				
189	2.2.2.3				
190	**2.2.3**				
191	2.2.3.1				
192	2.2.3.2				
193	2.2.3.3				
194	2.2.3.4				
195	2.2.3.5				
196	**2.2.4**				
197	2.2.4.1				
198	2.2.4.2				
199	2.2.4.3				
200	2.2.4.4				
201	2.2.4.5				
202	**2.2.5**				
203	**2.2.5.1**				
204	2.2.5.1.1				
205	2.2.5.1.2				
206	2.2.5.1.3				
207	2.2.5.1.4				
208	2.2.5.1.5				
209	**2.2.5.2**				
210	2.2.5.2.1				
211	2.2.5.3				
212	2.2.5.4				
213	2.2.5.5				
214	2.2.5.6				
215	2.2.5.7				

ID	WBS	Task Name	Duration	Start	Finish
216	**2.2.6**	Exemption 4			
217	**2.2.6.1**				
218	2.2.6.1.1				
219	2.2.6.1.2				
220	2.2.6.1.3				
221	2.2.7				
222	**2.3**				
223	**2.3.1**				
224	2.3.1.1				
225	**2.3.1.2**				
226	2.3.1.2.1				
227	**2.3.2**				
228	2.3.2.1				
229	2.3.2.2				
230	**2.4**				
231	2.4.1				
232	**2.5**				
233	2.5.1				
234	2.5.2				
235	**3**				
236	**3.1**				
237	3.1.1				
238	**3.2**				
239	3.2.1				
240	3.2.2				
241	3.2.3				
242	3.2.4				
243	3.3				
244	3.4				
245	3.5				

APPENDIX

To

SPECIAL TERMS AND CONDITIONS, PROVISION 37

REQUIREMENTS FOR CONTINGENCY FUNDS FOR INTEGRATED BIOREFINERY PROJECTS

TO DE-EE0002867 – Algenol Biofuels, Inc Biorefinery Project

I. Background

Recipients of awards selected under Funding Opportunity Announcement DE-FOA-0000096 are required to provide an initial amount of Contingency funds equal to not less than 25 percent of the Total Project Cost (TPC), subject to the requirements and clarifications provided in this Appendix. TPC includes the approved combined Federal and Recipient cost share funding amounts to accomplish the approved scope in the Statement of Project Objectives that are allowable, reasonable and allocable to the project in accordance with 10 Code of Federal Regulations (CFR) 600.317.

II. Definition

For the purposes of this award, **Contingency** is defined as follows:

A provision in the project management plan to mitigate cost and /or schedule risk (Project Management Body of Knowledge, Third Edition).

III. Requirements

A. Purpose

The Recipient may expend Contingency funds solely for the purpose of mitigating risks to the cost and/or schedule associated with the project performance baseline and consistent with the Risk Mitigation or Management Plan (RMP) and Risk Register. Schedule risks ultimately would be reflected as cost overruns. It is expected that those risks will either be: a) performance baseline schedule and/or cost risks that are identified in the RMP and Risk Register (known risks or opportunities); or, b) to mitigate unknown performance baseline risks or uncertainties that become incorporated into the RMP and Risk Register as they are discovered.

B. Framework and Criteria

1. The framework that governs the use of Contingency funds on the project authorized under this award relies on the Recipient to manage and control project performance baseline risks, opportunities and uncertainties utilizing the most recent, change-controlled performance baseline, Risk RMP and Risk Register. As risks are successfully mitigated throughout the duration of the project, the need for contingency is anticipated to decline. At the point when the performance test has been completed, the number and magnitude of risks and the available project and Contingency funds will need to be evaluated prior to DOE's Critical Decision 4 – Approval of Operations.

2. The initial 25 percent minimum Contingency is calculated based on the TPC (DOE share + Recipient cost share) in dollars. The award is divided into two budget periods – Budget Periods 1 and 2 (BP1 and BP2). BP1 primarily involves relatively low risk activities associated with design work, permitting, environmental baseline data gathering and analysis, financial close, and other activities that should not require significant contingency to be managed effectively. Therefore, for the purposes of this award, the 25% minimum Contingency requirement will be calculated based on the estimated TPC balance that begins with Budget Period 2 (BP2 - construction and operations). The Recipient will need to provide evidence (consistent with evidence standards identified in C. below) of meeting the required 25% minimum Contingency prior to DOE authorizing Critical Decision 3 – Approve Start of Construction. For example, if the BP2 estimate for construction and operations equals a TPC of $100 million, with $50 million DOE funds and $50 million Recipient cost share funds, a minimum of $25 million in initial Contingency funds would be required at the start of BP2. Any increase in the TPC resulting from cost and/or schedule overruns incurred during BP1 will be added to the BP2 TPC before calculating the initial 25% Contingency minimum.

3. Contingency Funds must be: a) liquid, b) immediately available, and c) unrestricted funds that are dedicated to the project.

4. Expenditures of Contingency funds is in addition to the TPC, and cannot count towards cost share. Similarly, expenditures of Contingency cannot result in reimbursement by DOE above the share approved for the project.

5. Contingency is **NOT** to be included in the project budget estimate.

6. The use of Contingency funds cannot be considered allowable costs under the award unless and until Recipient has actually expended such funds to address cost and/or schedule overruns to the performance baseline.

7. Estimated or projected program income CANNOT count towards contingency up front. However, the Recipient may use program income to reimburse actual expenditures of Contingency funds upon approval by the DOE Contracting Officer.

C. Acceptable Evidence of Sufficient Contingency Funds

1. Recipient must provide evidence of Contingency funds that are dedicated to the project and sufficient to meet the 25 percent minimum, which must be documented and reported on a monthly basis consistent with the reporting requirements for this award.

2. Below is a list of the types of evidence the Contracting Officer may consider. Although this list is not all-inclusive, it represents some of the types of documents the Contracting Officer may consider as evidence of adequate Contingency. DOE will review evidence of adequate Contingency provided by the Recipient on a case-by-case basis to determine its acceptability. This evidence may include, but not is not limited to, one or a combination of the following:

   (i) Bank statement of availability of funds

   (ii) Letter of credit

(iii) Evidence of sufficient cash funds (e.g., a letter from the bank or investors certifying to the specific amounts and availability of cash contributions)

(iv) EPC Performance Guarantees

(v) Evidence of funds in an escrowed account dedicated to the project

(vi) Performance bond(s) – Terms and conditions must be approved by the Contracting Officer

3. Self-certification of the availability of Contingency funds is generally **NOT** acceptable evidence. In order for self-certification to be considered acceptable by the Contracting Officer, the following minimum requirements must be met:

   a. An executive officer from the Recipient (typically, the Chief Financial Officer) who has control of the disbursement of Contingency funds must:

      i. Certify to no less than the minimum required initial specific amount, types and availability of Contingency funds;

      ii. Report on the expenditure of those funds monthly to the Contracting Officer; and

      iii. Recertify to the specific amount, type and availability of Contingency funds each month.

   b. Any Contingency funds expended to address risks and/or opportunities in the performance baseline must be transparent and documented through the most recent approved baseline change control procedure; and

   c. The documentation of expenditures of Contingency funds must be transparent such that an independent auditor would be able to easily track the use of such funds through the financial accounting system to the project code of accounts and to the performance baseline cost overruns.

D. Control and Management of Contingency Funds

1. Cost overruns that result in changes to the performance baseline must go through baseline change control. Cost overruns involving the use of Contingency must be documented through the most recent, approved baseline change control procedure. Those cost or schedule overruns that exceed the DOE-approved change control threshold must be approved by DOE. **Exception**: In the situation where an event occurs that compromises safety or threatens human health or the environment, the Recipient is expected to expend the appropriate amount of resources and/or Contingency necessary to manage the event and the project to a safe configuration. Changes to the performance baseline and any cost overruns resulting from the event shall be addressed after the Recipient has achieved a safe project configuration.

2. Any month in which the amount of Contingency becomes insufficient to meet the required minimum, it must be reported to the Contracting Officer within five (5) calendar days of discovery.

3. Incorporation of Contingency within the basis of estimates for each activity shall not be allowed. Activity estimates should be consistent with standard Recipient project estimating methods (e.g., activity-based cost estimating, parametric cost estimating, etc.), but shall avoid the embedding and layering of contingency throughout the Work Breakdown Structure (WBS).

4. At the completion of performance test (as described in the performance baseline), DOE will conduct the Critical Decision 4 (CD-4) – Approval of Operations review. This review will also be the point at which DOE will determine the amount of Contingency the Recipient will be required to have available during the operations phase. The criteria for this determination will be as follows:

   a. Pilot plants – The amount of the Contingency typically required will be based on a minimum of 10 percent of the initial capital cost (BP2 TPC). Using this as a base, the amount of Contingency will be adjusted taking into account risk mitigation trends through the end of the performance test. For example, if the estimate to complete (ETC) and remaining risks through the end of the performance test reflect successful risk mitigation and cost effective project performance management, DOE would factor that into its decision on what percentage contingency will be required for the operations phase. DOE will withhold a percentage of its funds to assure that the operations phase is completed in accordance with the performance baseline and that DOE receives operations data in the form required.

   b. Demonstration plants – The required amount of Contingency typically will be based on a minimum of 10 percent of the initial capital cost (BP2 TPC). Using this as a base, the amount of Contingency will be adjusted using risk mitigation trends through completion of the performance test. For example, if the ETC and risks remaining through the end of the performance test reflect successful risk mitigation and cost effective project performance management, DOE could factor that into its decision on what percentage contingency will be required for the operations phase. Furthermore, if the cost of the core technology exceeds 10 percent of the initial capital cost (BP2 TPC), DOE will factor this into the percentage of DOE funds to be withheld to assure that the operations phase is completed in accordance with the performance baseline.

Contingency

A. Contingency Requirement. A minimum amount of Contingency is required for awards selected under Funding Opportunity Announcement DE-FOA-0000096. "Contingency" is defined in the Appendix as: "a provision in the Project Management Plan to mitigate cost and/or schedule risk." Contingency funds must be (a) liquid, (b) immediately available, and (c) unrestricted funds dedicated exclusively to the Project for the purpose of mitigating project performance baseline risk. Contingency funds may come from a variety of sources, as approved by the Contracting Officer on a case-by-case basis in accordance with the Appendix to these Terms and Conditions.

B. Minimum Amount of Contingency. Initial Contingency funds shall be not less than 25 percent of the Total Project Cost that begins with Budget Period 2, as more specifically described in Section B(2) of the Appendix to these Terms and Conditions.

C. Contingency Not Counted Toward Cost Share or DOE Reimbursement. Contingency is in addition to the Total Project Cost and cannot count toward cost share or result in reimbursement by DOE above the share approved in the award.

D. Appendix. All of the terms and conditions set forth in this provision shall be further subject to the requirements and clarifications of the Appendix.

Redacted

Exemption 4

Redacted

Exemption 4

PMC123.1 - Budget Justification for SF 424A Budget

Instructions and Summary

Award Number: DE-FOA-0000096
Award Recipient: Algenol Biofuels Inc.

Date of Submission: Jun-09
Form submitted by: Algenol Biofuels Inc.
(May be award recipient or sub-recipient)

Please read the instructions on each page before starting.
If you have any questions, please ask your DOE contact. It will save you time!

On this form, provide detailed support for the estimated project costs identified on the SF-424A form (Budget).

- **The dollar amounts on this page must match the amounts on the associated SF-424A.**
- The award recipient and each sub-recipient with estimated costs of $100,000 or more must complete this form and a SF-424A form.
- The total budget presented on this form and on the SF424A must include both Federal (DOE), and Non-Federal (cost share) portions, thereby reflecting TOTAL PROJECT COSTS proposed.
- **For costs in each Object Class Category on the SF-424A, complete the corresponding worksheet on this form (tab at the bottom of the page).**
- **All costs incurred by the preparer's sub-recipients, vendors, contractors, consultants and Federal Research and Development Centers (FFRDCs), should be entered only in section f. Contractual. All other sections are for the costs of the preparer only.**

Proprietary Information: All information in this document is proprietary. Algenol Biofuels requests all information in this document not be released to persons outside the Government, except for the purposes of review and evaluation.

SUMMARY OF BUDGET CATEGORY COSTS PROPOSED
(Note: The values in this summary table are from entries made in each budget category sheet.)

CATEGORY	Budget Period 1 Costs	Budget Period 2 Costs	Budget Period 3 Costs	Total Costs	Project Costs %	Comments (Add comments as needed)
a. Personnel	Exemption 4					
b. Fringe Benefits						
c. Travel						
d. Equipment						
e. Supplies						
f. Contractual						
Sub-recipient						
FFRDC						
Vendor						
Total Contractual						
g. Construction						
h. Other Direct Costs						
i. Indirect Charges						
Total Project Costs						

Additional Explanations/Comments (as necessary)

a. Personnel

Task #	Title	Position Title	Budget Period 1			Budget Period 2			Budget Period 3			Project Total Hours	Project Total Dollars
			Time (Hours)	Pay Rate ($/Hr)	Total Budget Period 1	Time (Hours)	Pay Rate ($/Hr)	Total Budget Period 2	Time (Hours)	Pay Rate ($/Hr)	Total Budget Period 3		
1. Generation 2A Receiver Design			10000		$423,000	600		$24,000	800		$31,000	11400	
EXAMPLE		Sr. Engineer	2000	$85.00	$170,000	200	$50.00	$10,000	200	$50.00	$10,000	2400	
ONLY!!!		Electrical engineers	6200	$35.00	$217,000	400	$35.00	$14,000	600	$35.00	$21,000	7200	
		Technician	1800	$20.00	$36,000	0	$0.00	$0	0	$0.00	$0	1800	

Exemption 4

Exemption 4

Exemption 4

		Total Personnel Costs	Exemption 4

Additional Explanations/Comments (as necessary)

For existing employees, salary rates were based on actual. For new hires, their salary was based on industry standards for their respective position, experience and education. In all cases, we will be Davis-Bacon compliant. /s/ Craig R. Smith, M.D.

b. Fringe Benefits

	Budget Period 1	Budget Period 2	Budget Period 3	Total
Rate applied:	Exemption 4			
Total fringe requested:				

A federally approved fringe benefit rate agreement, or a proposed rate supported and agreed upon by DOE for estimating purposes is required if reimbursement for fringe benefits is requested. Please check (X) one of the options below and provide the requested information, if it has not already been provided to the Contracting Officer, OR if it has changed since it was. Calculate the fringe rate and enter the total amount in Section B, line 6.b. ("Fringe Benefits") of form SF-424A.

____ **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.)

XXX **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.)

Additional explanation/comments (as necessary)

The Fringe Benefits rate is based on current actual and adjusted in the future periods for projected hiring salary levels.Currently a larger portion of our employess are senior level and as we expend they will represent a smaller portion of our staff. Since the majority of our fringe benefits is for healthcare insurance, the effect of this demographic change is that fringe benefits will be a higher percent of compensation. Please see the Indirect tab at the end of this file for the Fringe calculation.

c. Travel

PLEASE READ!!!

Provide travel detail as requested below, identifying total Foreign and Domestic Travel as separate items. Purpose of travel are items such as professional conference, DOE sponsored meeting, project management meeting, etc. The Basis for Estimating Costs are items such as past trips, current quotations, Federal Travel Regulations, etc.

All listed travel must be necessary for performance of the Statement of Projecct Objectives.

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

Purpose of travel	No. of Travelers	Depart From (not required for domestic travel)	Destination (not required for domestic travel)	No. of Days	Cost per Traveler	Cost per Trip	Basis for Estimating Costs
Budget Period 1							
Domestic Travel							
EXAMPLE ONLY!!! Visit to PV cell mfr. to set up vendor agreement	2			2	$650	$1,300	Internet prices
Exemption 4		Exemption 4					
Domestic Travel subtotal							
International Travel							
International Travel subtotal							
Budget Period 1 Total							
Budget Period 2							
Domestic Travel							
Exemption 4							

Purpose of travel	No. of Travelers	Depart From (not required for domestic travel)	Destination (not required for domestic travel)	No. of Days	Cost per Traveler	Cost per Trip	Basis for Estimating Costs
Exemption 4	Exemption 4						
Domestic Travel subtotal							
International Travel							
International Travel subtotal							
Budget Period 2 Total							
Budget Period 3							
Domestic Travel	Exemption 4						
Exemption 4							
Domestic Travel subtotal							
International Travel							
International Travel subtotal							
Budget Period 3 Total							
PROJECT TOTAL							

Additional Explanations/Comments (as necessary)

In the interest of having a more reader-friendly schedule, column B above represents the number of trips, not the number of travelers on each trip (e.g. Exemption 4 . The general assumption (based on past experience) is that each trip would be Exemption 4 . We anticipated lower hotel rates due to the volume and ability to book in advance.

d. Equipment

PLEASE READ!!!

Equipment is generally defined as an item with an acquisition cost greater than $5,000 and a useful life expectancy of more than one year. Further definitions can be found at 10 CFR 600 found on the PMC Recipient Resources Forms page at https://www.eere-pmc.energy.gov/Forms.aspx#regs .

List all proposed equipment below, providing a basis of cost such as vendor quotes, catalog prices, prior invoices, etc., and briefly justifying its need as it applies to the Statement of Project Objectives. If it is existing equipment, and the value of its contribution to the project budget is being shown as cost share, provide logical support for the estimated value shown. If it is new equipment which will retain a useful life upon completion of the project, provide logical support for the estimated value shown.

For equipment over $50,000 in price, also include a copy of the associated vendor quote or catalog price list.

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

Equipment Item	Qty	Unit Cost	Total Cost	Basis of Cost	Justification of need
Budget Period 1					
EXAMPLE ONLY!!! Thermal shock chamber	2	$20,000	$40,000	Vendor Quote	Reliability testing of PV modules- Task 4.3
	0		$0		
	0		$0		
	0		$0		
	0		$0		
	0		$0		
	0		$0		
	0		$0		
Budget Period 1 Total			$0		
Budget Period 2					
	Exemption 4				
Lab equipment - see attached detail sheet					
Office equipment and set-up - see attached detail					
Budget Period 2 Total					
Budget Period 3					
	0		$0		

Equipment Item	Qty	Unit Cost	Total Cost	Basis of Cost	Justification of need
	Exemption 4				
Budget Period 3 Total					
PROJECT TOTAL					

Additional Explanations/Comments (as necessary)

At the end of this file there are 2 tabs, one for Lab equipment the other for Office equipment which details the above amounts by item. Basis for quotes include vendor quotes, known actual and catalogs.

e. Supplies

PLEASE READ!!!

Supplies are generally defined as an item with an acquisition cost of $5,000 or less and a useful life expectancy of less than one year. Supplies are generally consumed during the project performance. Further definitions can be found at 10 CFR 600 found on the PMC Recipient Resources Forms page at https://www.eere-pmc.energy.gov/Forms.aspx#regs.

List all proposed supplies below, providing a bases of cost such as vendor quotes, catalog prices, prior invoices, etc., and briefly justifying the need for the Supplies as they apply to the Statement of Project Objectives. Note that Supply items must be direct costs to the project at this budget category, and not duplicative of supply costs included in the indirect pool that is the basis of the indirect rate applied for this project.

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

General Category of Supplies	Qty	Unit Cost	Total Cost	Basis of Cost	Justification of need
Budget Period 1					
EXAMPLE ONLY!!! Wireless DAS components	10	$360.00	$3,600	Catalog price	For Alpha prototype - Task 2.4
Analytical supplies	Exemption 4				
Chemicals, solvents, polymers					
Disposable lab supplies (e.g. gloves)					
Safety supplies					
Minor engineering equipment					
Budget Period 1 Total					
Budget Period 2					
	Exemption 4				
Analytical supplies					
Chemicals, solvents, polymers					
Disposable lab supplies (e.g. gloves)					
Safety supplies					
Minor engineering equipment					
Budget Period 2 Total					
Budget Period 3					
	0		$0		

General Category of Supplies	Qty	Unit Cost	Total Cost	Basis of Cost	Justification of need
Analytical supplies	Exemption 4				
Chemicals, solvents, polymers					
Disposable lab supplies (e.g. gloves)					
Safety supplies					
Minor engineering equipment					
Budget Period 3 Total					
PROJECT TOTAL					

Additional Explanations/Comments (as necessary)

The above was based on our historic usage and cost rates. These supplies are required in the normal course of running a biorefinery and for lab analysis and monitoring.

f. Contractual

Sub-Recipient Name/Organization	Purpose/Tasks in SOPO	Budget Period 1 Costs	Budget Period 2 Costs	Budget Period 3 Costs	Project Total
EXAMPLE ONLY!!! XYZ Corp.	Partner to develop optimal fresnel lens for Gen 2 product - Task 2.4	$48,000	$32,000	$16,000	**$96,000**
Georgia Tech	Exemption 4				
MTR - Membrane Technology and Research, Inc.					
The Dow Chemical Company					

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.	Vendor for developing custom robotics to perform lens inspection, alignment, and placement (Task 4.) Required for expanding CRV	$32,900	$86,500		**$119,400**
Exemption 4					

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

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

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
Exemption 4	Exemption 4		
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					

Total Project Cost: $Exemption 4

Cost Share Percent of Award: Exempt %

Additional Explanations/Comments (as necessary)

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