

Budget Information - Non Construction Programs

OMB Approval No. 0348-0044

Section A - Budget Summary		Estimated Unobligated Funds				New or Revised Budget		Total
Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	(g)		
1. Year 1	81.087			\$6,020,796.00	\$9,031,194.00	\$15,051,990.00		
2. Year 2	81.087			\$8,991,196.00	\$13,486,795.00	\$22,477,991.00		
3.								
4.								
5 Totals		\$0.00	\$0.00	\$15,011,992.00	\$22,517,989.00	\$37,529,981.00		
Section B - Budget Categories		Grant Program, Function or Activity						
6. Object Class Categories		(1) Year 1	(2) Year 2	(3)	(4)	Total (5)		
a. Personnel								
b. Fringe Benefits								
c. Travel								
d. Equipment								
e. Supplies		REDACTED EXEMPTION 4						
f. Contractual			REDACTED EXEMPTION 4		REDACTED EXEMPTION 4			
g. Construction								
h. Other								
i. Total Direct Charges (sum of 6a-6h)								
j. Indirect Charges								
k. Totals (sum of 6i and 6j)						\$37,529,981.00		
7. Program Income								

**U.S. Department of Energy
FEDERAL ASSISTANCE REPORTING CHECKLIST
AND INSTRUCTIONS**

1. Identification Number: DE - FC36 - 07GO17028.A000		2. Program/Project Title: Integrated Biorefinery for Conversion of Biomass to Ethanol, Process Steam, and Other Co-Products	
3. Recipient: Abengoa Bioenergy Biomass of Kansas, LLC			
4. Reporting Requirements:		Frequency	No. of Copies
A. MANAGEMENT REPORTING			Address
<input checked="" type="checkbox"/> Progress Report <input checked="" type="checkbox"/> Special Status Report (see special instructions)		Q A	Upload one copy of each report to the addresses identified in the next column https://www.eere-pmc.energy.gov/SubmitReports.aspx
B. SCIENTIFIC/TECHNICAL REPORTING (Reports/Products must be submitted with appropriate DOE F 241. The forms are available at www.osti.gov/elink)			
Report/Product	Form		
<input checked="" type="checkbox"/> Final Scientific Report	DOE F 241.3	F	http://www.osti.gov/elink-2413
<input checked="" type="checkbox"/> Conference papers/proceedings*	DOE F 241.3	A	https://www.eere-pmc.energy.gov/SubmitReports.aspx
<input type="checkbox"/> Software/Manual	DOE F 241.4		http://www.osti.gov/estsc/241-4pre.jsp
<input type="checkbox"/> Other (see special instructions)	DOE F 241.3		
* Scientific and technical conferences only			
C. FINANCIAL REPORTING			
<input type="checkbox"/> SF-269, Financial Status Report			
<input checked="" type="checkbox"/> SF-269A, Financial Status Report (short form)		F Q	https://www.eere-pmc.energy.gov/SubmitReports.aspx
<input type="checkbox"/> SF-272, Federal Cash Transaction Report			
D. CLOSEOUT REPORTING			
<input checked="" type="checkbox"/> Patent Certification		F	
<input checked="" type="checkbox"/> Property Certification		F	https://www.eere-pmc.energy.gov/SubmitReports.aspx
<input type="checkbox"/> Other (see Special Instructions)			
E. OTHER REPORTING			
<input checked="" type="checkbox"/> Annual Indirect Cost Proposal		Y	
<input checked="" type="checkbox"/> Annual Inventory of Federally Owned Property, If Any		Y	
<input checked="" type="checkbox"/> Other (see special instructions)		A	
FREQUENCY CODES AND DUE DATES: A - Within 5 calendar days after events or as specified. F - Final; 90 calendar days after expiration or termination of the award. Y - Yearly; 90 days after the end of the reporting period. S - Semiannually; within 30 days after end of the reporting period. Q - Quarterly; within 30 days after end of the reporting period.			
5. Special Instructions: The forms identified in the checklist are available at http://grants.pr.doe.gov .			
Management and Other Reporting: 1.) A Project Management Plan must be developed and submitted to the DOE Project Officer thirty (30) days after award and must be updated and resubmitted annually. An electronic template will be forwarded to the Recipient after award. 2.) The Biomass Program's Quarterly Template must be used for Quarterly Report submissions. The electronic template will be forwarded to the Recipient after award. 3.) A Monthly Project Status Report must be submitted to the DOE Project Officer within 10 days after the end of each month. The electronic template for the monthly report will be forwarded to the Recipient after award. 4.) The Risk Mitigation Plan must be updated at least quarterly and sent to the DOE Project Officer within thirty (30) days of the end of the quarter.			

Federal Assistance Reporting Instructions (05/06)

A. MANAGEMENT REPORTING

Progress Report

The Progress Report must provide a concise narrative assessment of the status of work and include the following information and any other information identified under Special Instructions on the Federal Assistance Reporting Checklist:

1. The DOE award number and name of the recipient.
2. The project title and name of the project director/principal investigator.
3. Date of report and period covered by the report.
4. A comparison of the actual accomplishments with the goals and objectives established for the period and reasons why the established goals were not met.
5. A discussion of what was accomplished under these goals during this reporting period, including major activities, significant results, major findings or conclusions, key outcomes or other achievements. This section should not contain any proprietary data or other information not subject to public release. If such information is important to reporting progress, do not include the information, but include a note in the report advising the reader to contact the Principal Investigator or the Project Director for further information.
6. Cost Status. Show approved budget by budget period and actual costs incurred. If cost sharing is required break out by DOE share, recipient share, and total costs.
7. Schedule Status. List milestones, anticipated completion dates and actual completion dates. If you submitted a project management plan with your application, you must use this plan to report schedule and budget variance. You may use your own project management system to provide this information.
8. Any changes in approach or aims and reasons for change. Remember significant changes to the objectives and scope require prior approval by the contracting officer.
9. Actual or anticipated problems or delays and actions taken or planned to resolve them.
10. Any absence or changes of key personnel or changes in consortium/teaming arrangement.
11. A description of any product produced or technology transfer activities accomplished during this reporting period, such as:
 - A. Publications (list journal name, volume, issue); conference papers; or other public releases of results. Attach or send copies of public releases to the DOE Project Officer identified in Block 11 of the Notice of Financial Assistance Award.
 - B. Web site or other Internet sites that reflect the results of this project.

- C. Networks or collaborations fostered.
- D. Technologies/Techniques.
- E. Inventions/Patent Applications.
- F. Other products, such as data or databases, physical collections, audio or video, software or netware, models, educational aid or curricula, instruments or equipment.

Special Status Report

The recipient must report the following events as soon as possible after they occur. Submit reports by e-mail to the DOE Project Officer identified in Block 11 of the Notice of Financial Assistance Award (NFAA):

1. Developments that have a significant favorable impact on the project.
2. Problems, delays, or adverse conditions which materially impair the recipient's ability to meet the objectives of the award or which may require DOE to respond to questions relating to such events from the public. For example, the recipient must report any of the following incidents and include the anticipated impact and remedial action to be taken to correct or resolve the problem/condition:
 - a. Any single fatality or injuries requiring hospitalization of five or more individuals.
 - b. Any significant environmental permit violation.
 - c. Any verbal or written Notice of Violation of any Environmental, Safety, and Health statutes or regulations.
 - d. Any incident which causes a significant process or hazard control system failure.
 - e. Any event which is anticipated to cause a significant schedule slippage or cost increase.
 - f. Any damage to Government-owned equipment valued in excess of \$50,000.
 - g. Any other incident that has the potential for high visibility in the media.

B. SCIENTIFIC/TECHNICAL REPORTS

Final Scientific/Technical Report

Content. The final scientific/technical report must include the following information and any other information identified under Special Instructions on the Federal Assistance Reporting Checklist:

1. Identify the DOE award number; name of recipient; project title; name of project director/principal investigator; and consortium/teaming members.

2. Display prominently on the cover of the report any authorized distribution limitation notices, such as patentable material or protected data. Reports delivered without such notices may be deemed to have been furnished with unlimited rights, and the Government assumes no liability for the disclosure, use or reproduction of such reports.
3. Provide an executive summary, which includes a discussion of 1) how the research adds to the understanding of the area investigated; 2) the technical effectiveness and economic feasibility of the methods or techniques investigated or demonstrated; or 3) how the project is otherwise of benefit to the public. The discussion should be a minimum of one paragraph and written in terms understandable by an educated layman.
4. Provide a comparison of the actual accomplishments with the goals and objectives of the project
5. Summarize project activities for the entire period of funding, including original hypotheses, approaches used, problems encountered and departure from planned methodology, and an assessment of their impact on the project results. Include, if applicable, facts, figures, analyses, and assumptions used during the life of the project to support the conclusions.
6. Identify products developed under the award and technology transfer activities, such as:
 - a. Publications (list journal name, volume, issue), conference papers, or other public releases of results. If not provided previously, attach or send copies of any public releases to the DOE Project Officer identified in Block 11 of the Notice of Financial Assistance Award;
 - b. Web site or other Internet sites that reflect the results of this project;
 - c. Networks or collaborations fostered;
 - d. Technologies/Techniques;
 - e. Inventions/Patent Applications, licensing agreements; and
 - f. Other products, such as data or databases, physical collections, audio or video, software or netware, models, educational aid or curricula, instruments or equipment.
7. For projects involving computer modeling, provide the following information with the final report:
 - a. Model description, key assumptions, version, source and intended use;
 - b. Performance criteria for the model related to the intended use;
 - c. Test results to demonstrate the model performance criteria were met (e.g., code verification/validation, sensitivity analyses, history matching with lab or field data, as appropriate);
 - d. Theory behind the model, expressed in non-mathematical terms;
 - e. Mathematics to be used, including formulas and calculation methods;

- f. Whether or not the theory and mathematical algorithms were peer reviewed, and, if so, include a summary of theoretical strengths and weaknesses;
- g. Hardware requirements; and
- h. Documentation (e.g., users guide, model code).

Electronic Submission. The final scientific/technical report must be submitted electronically via the DOE Energy Link System (E-Link) at <http://www.osti.gov/elink-2413>.

Electronic Format. Reports must be submitted in the ADOBE PORTABLE DOCUMENT FORMAT (PDF) and be one integrated PDF file that contains all text, tables, diagrams, photographs, schematic, graphs, and charts. Materials, such as prints, videos, and books, that are essential to the report but cannot be submitted electronically, should be sent to the DOE Award Administrator at the address listed in Block 12 of the Notice of Financial Assistance Award.

Submittal Form. The report must be accompanied by a completed electronic version of DOE Form 241.3, "U.S. Department of Energy (DOE), Announcement of Scientific and Technical Information (STI)." You can complete, upload, and submit the DOE F.241.3 online via E-Link. You are encouraged not to submit patentable material or protected data in these reports, but if there is such material or data in the report, you must: (1) clearly identify patentable or protected data on each page of the report; (2) identify such material on the cover of the report; and (3) mark the appropriate block in Section K of the DOE F 241.3. Reports must not contain any limited rights data (proprietary data), classified information, information subject to export control classification, or other information not subject to release. Protected data is specific technical data, first produced in the performance of the award that is protected from public release for a period of time by the terms of the award agreement.

Conference Papers/Proceedings

Content. The recipient must submit a copy of any conference papers/proceedings, with the following information: (1) Name of conference; (2) Location of conference; (3) Date of conference; and (4) Conference sponsor.

Electronic Submission. Scientific/technical conference paper/proceedings must be submitted electronically via the DOE Energy Link System (E-Link) at <http://www.osti.gov/elink-2413>. Non-scientific/technical conference papers/proceedings must be sent to the URL listed on the Reporting Checklist.

Electronic Format. Conference papers/proceedings must be submitted in the ADOBE PORTABLE DOCUMENT FORMAT (PDF) and be one integrated PDF file that contains all text, tables, diagrams, photographs, schematic, graphs, and charts. If the proceedings cannot be submitted electronically, they should be sent to the DOE Award Administrator at the address listed in Block 12 of the Notice of Financial Assistance Award.

Submittal Form. Scientific/technical conference papers/proceedings must be accompanied by a completed DOE Form 241.3. The form and instructions are available on E-Link at <http://www.osti.gov/elink-2413>. This form is not required for non-scientific or non-technical conference papers or proceedings.

Software/Manual

Content. Unless otherwise specified in the award, the following must be delivered: source code, the executable object code and the minimum support documentation needed by a competent user to understand and use the software and to be able to modify the software in subsequent development efforts.

Electronic Submission. Submissions may be submitted electronically via the DOE Energy Link System (E-Link) at <http://www.osti.gov/estsc/241-4pre.jsp>

Energy Science and Technology Software Center
P.O. Box 1020
Oak Ridge, TN 37831

Submittal Form. Each software deliverable and its manual must be accompanied by a completed DOE Form 241.4 "Announcement of U.S. Department of Energy Computer Software." The form and instructions are available on E-Link at <http://www.osti.gov/estsc//241-4pre.jsp>.

C. FINANCIAL REPORTING

Recipients must complete the financial reports identified on the Reporting Checklist in accordance with the report instructions. These standard forms are available at <http://www.whitehouse.gov/omb/grants/index.html>. Fillable forms are available at <http://grants.pr.doe.gov>.

D. CLOSEOUT REPORTS

Final Invention and Patent Report

The recipient must provide a DOE Form 2050.11, "PATENT CERTIFICATION." This form is available at <http://www.directives.doe.gov/pdfs/forms/2050-11.pdf> and <http://grants.pr.doe.gov>.

Property Certification

The recipient must provide the Property Certification, including the required inventories of non-exempt property, located at <http://grants.pr.doe.gov>.

E. OTHER REPORTING

Annual Indirect Cost Proposal and Reconciliation

Requirement. In accordance with the applicable cost principles, the recipient must submit an annual indirect cost proposal, reconciled to its financial statements, within six months after the close of the fiscal year, unless the award is based on a predetermined or fixed indirect rate (s), or a fixed amount for indirect facilities and administration (F&A) costs.

Cognizant Agency. The recipient must submit its annual indirect cost proposal directly to the cognizant agency for negotiating and approving indirect costs. If the DOE awarding office is the cognizant agency, submit the annual indirect cost proposal to the DOE Award Administrator identified in Block 12 of the Notice of Financial Assistance Award.

Annual Inventory of Federally Owned Property

Requirement. If at any time during the award the recipient is provided with Government-furnished property or acquires property with project funds and the award specifies that the property vests in the Federal Government (i.e. federally owned property), the recipient must submit an annual inventory of this property to the DOE Award Administrator identified in Block 12 of the Notice of Financial Assistance Award no later than October 30th of each calendar year, to cover an annual reporting period ending on the preceding September 30th.

Content of Inventory. The inventory must include a description of property, tag number, acquisition date, location of property, and acquisition cost, if purchased with project funds. The report must list all federally owned property, including property located at subcontractor's facilities or other locations.

Y - Issues with delivery or risk of slippage. Mitigation may be needed

G - On schedule, progress positive or work completed

Project Title: _____
 Financial Assistance Recipient: _____
 CPS #: _____
 CID #: _____
 DOE Project Total: \$ _____

Recipient Comments: _____
 Please put any comments you may have in this field. Thanks.

Period (by Federal Fiscal Year)	From		To		Current Approved Spend Plan			Estimated Future Spend Plan			Funds Expended to Date			DOE EFSP By Fiscal Year
	From	To	DOE Amount	Cost Share	Total	DOE Amount	Cost Share	Total	DOE Amount	Cost Share	Total	DOE Amount	Cost Share	
FY02 and Prior Years														
FY03	10/1/2002	9/30/2003												
FY04	10/1/2003	9/30/2004												
FY05	10/1/2004	9/30/2005												
FY06	10/1/2005	9/30/2006												
FY07	10/1/2006	9/30/2007												
FY08 - October	10/1/2007	10/31/2007												
FY08 - November	11/1/2007	11/30/2007												
FY08 - December	12/1/2007	12/31/2007												
FY08 - January	1/1/2008	1/31/2008												
FY08 - February	2/1/2008	2/28/2008												
FY08 - March	3/1/2008	3/31/2008												
FY08 - April	4/1/2008	4/30/2008												
FY08 - May	5/1/2008	5/31/2008												
FY08 - June	6/1/2008	6/30/2008												
FY08 - July	7/1/2008	7/31/2008												
FY08 - August	8/1/2008	8/31/2008												
FY08 - September	9/1/2008	9/30/2008												
FY08 - October	10/1/2008	10/31/2008												
FY08 - November	11/1/2008	11/30/2008												
FY08 - December	12/1/2008	12/31/2008												
FY09 - January	1/1/2009	1/31/2009												
FY09 - February	2/1/2009	2/28/2009												
FY09 - March	3/1/2009	3/31/2009												
FY09 - April	4/1/2009	4/30/2009												
FY09 - May	5/1/2009	5/31/2009												
FY09 - June	6/1/2009	6/30/2009												
FY09 - July	7/1/2009	7/31/2009												
FY09 - August	8/1/2009	8/31/2009												
FY09 - September	9/1/2009	9/30/2009												
FY10 - Qtr 1	10/1/2009	12/31/2009												
FY10 - Qtr 2	1/1/2010	3/31/2010												
FY10 - Qtr 3	4/1/2010	6/30/2010												
FY10 - Qtr 4	7/1/2010	9/30/2010												
FY11 - Qtr 1	10/1/2010	12/31/2010												
FY11 - Qtr 2	1/1/2011	3/31/2011												
FY11 - Qtr 3	4/1/2011	6/30/2011												
FY11 - Qtr 4	7/1/2011	9/30/2011												
Totals														

EOFT Estimated Unrecosted Amount

Please read the "Instructions & Definitions" worksheet before completing the table(s).

**Quarterly Progress Report
(Field Office Project Template)**

Project Title:

Award Number: [Official Award Number per the agreement]

Recipient:

Project Location: [Location of project activities; if multiple locations, please list all in use.]

Reporting Period: [e.g., January 1, 2006 to March 31, 2006]

Date of Report: [e.g., April 30, 2006]

Written by: [Name]

IMPORTANT NOTE: If any part of your quarterly report contains **proprietary/confidential information**, or details that should not be released to the general public, the specific sections of the report should be marked as such, by clearly marking the beginning and end of the confidential information. The marked sections will not be released to the general public or any unauthorized parties.

Status: [In this section each task, as defined by the Project Management Plan (PMP), should be discussed by following the outline given below. The discussion for each task should include subtasks. Milestones, deliverables, and go/no go decision points covered in Table C of the accompanying excel quarterly report and the PMP may be discussed in more detail in this section; however, please ensure Table C is completely and accurately filled in.]

Task number: [(e.g., A)]

1. **Planned Activities:** [This section should include the planned activities that were stated in the previous quarterly report for the task being discussed, including subtasks, milestones, deliverables, and go/no go decision points.]
2. **Actual Accomplishments:** [The discussion should include all significant work completed in the past quarter to support the project and accomplish the specific task being discussed, including subtasks, milestones, deliverables, or go/no go decision points. When a task-level milestone has been completed, please include a brief explanation of how completion of the task achieves/supports/further completion of the C-level milestone as indicated in the PMP (cell X48). Actual work completed should conform to the "Planned Activities" described in the above section. If it does not, an explanation of the variance is required and should be discussed below in section 3. **Explanation of Variances.**]
3. **Explanation of Variance:** [This section should discuss any differences between the planned activities (section 1) and the actual accomplishments (section 2). These differences should be included even if the setback was out of the control of the recipient, such as a change in the availability of equipment and/or facilities. Issues, concerns, successes or requested changes and the resulting impact to the Statement of Project Objectives, budget and/or schedule should be discussed. If progress (Section C, column V of the accompanying excel file) is Y or R, please explain the corrective actions that will be taken to mitigate scope, schedule, and budget changes or shortfalls.]

4. **Plans for Next Quarter:** [Planned activities for this task, to be conducted during the next quarter should be discussed here.]

[REPEAT these discussions for each task in the Project Management Plan (e.g. A, B, C, etc...)]

Patents: [A cumulative list of patents applied for or resulting from the award, including date of application and receipt of patent(s) and date and status of DOE notification.]

Publications / Presentations: [Identify and briefly summarize, in a few sentences, all publications and presentations made for industry or government groups resulting from the project during this quarter and, if possible, include a URL link or other method of accessing the publication or presentation. In addition, please upload the electronic file to the PMC if required (see your "Federal Assistance Reporting Checklist," form 4600.2, for required uploads).]

A. PMP Project Information

OBP WBS	Name	Title	Phone	Email	Program Element/Area	CID or Laboratory Designation
Contact Information HQ Technology Manager					Project Initiated (dd/mm/yy) Planned Project Completion Date (dd/mm/yyyy)	CPS Agreement # Program Value (B&R) Code
PMC Project Officer						
PMC Project Monitor					Last Gate or Project Review (dd/mm/yy)	Status
Company Contact or Lab Relationship Manager					Next Anticipated Stage Gate or Project Review (mm/yy)	Overall Stage of Development
Principal Investigator					Performing Organization (Only Prime Recipient)	Funding Partner(s) (Any partner or subcontractor who provides cost share)
Co-Principal Investigator (if applicable)						
Project Description (non-proprietary)						
Summary of Project Objectives & Tasks (at the A, B, C, etc level from Section C of PMP (non-proprietary))						
Annual Work Plan FY2008 (typically 1-4 paragraph lengths of text or about 1/2 to 3/4 page of text)						
Summary of Work to date (typically 2-6 paragraphs or about 1-2 pages of text)						

STATEMENT OF PROJECT OBJECTIVES

Abengoa Bioenergy Biomass of Kansas, LLC (ABBK)
Integrated Biorefinery for Conversion of Biomass to Ethanol, Process Steam and Other Co-Products

A. PROJECT OBJECTIVES

The purpose of this cooperative agreement is to prepare data and designs and obtain the necessary permits and other information needed to support a decision regarding whether to proceed, in a subsequent agreement, to jointly finance construction, commissioning and start-up of a commercial integrated biorefinery to be located in Hugoton, KS. The proposed biorefinery would convert 700 metric dry tonnes per day biomass to ethanol and process steam.

In cooperation with the Department of Energy's (DOE) Biomass Program, Abengoa Bioenergy Biomass of Kansas, LLC seeks to design, build, and operate a biorefinery to simultaneously produce ethanol, and several co-products using a variety of cellulosic feedstocks as inputs to the refinery. The process will utilize an enzymatic process to produce ethanol and syngas to produce process steam with a long term strategy of using the syngas for ethanol and chemicals production.

REDACTED
EXEMPTION 4

Use of multiple feedstocks will contribute to operational flexibility, and will make the plant easily replicable in different geographical areas. The total biomass input for the demonstration plant will be 700 dry metric tonnes per day, resulting in 11.4 million gallons per year of ethanol production, sufficient process heat for the biorefinery operations, plus excess energy for export to a co-located dry-grind ethanol production plant. Phase one, the subject of this award, will cover all preliminary design and planning activities. Phase two will cover final design, financing, construction, and start-up of the facility. Our parent company, Abengoa Bioenergy, is one of the largest ethanol producers in the world and is committed to developing cellulosic technologies and bringing them to market. Successful demonstration of the proposed biorefinery will create replication opportunities across the US in several market applications.

B. PROJECT SCOPE

Under this scope of work (phase one), and in cooperation with the Department of Energy's (DOE) Biomass Program, Abengoa Bioenergy Biomass of Kansas, LLC will perform all required preliminary engineering and project development activities leading up to the final design, financing, construction, and operation of an integrated biorefinery in Hugoton, KS. The total biomass input for the demonstration plant will be 700 dry metric tonnes/day. By the end of this first phase of the project, Abengoa Bioenergy, DOE, permitting officials, and prospective financial partners will have sufficient information to make a go/no-go decision on the project for movement into phase two. Phase two will cover final design, financing, construction, and start-up of the facility. The preliminary process design, engineering, and site planning for the proposed biorefinery will be completed during phase one. A key part of the preliminary design and planning will include development of a detailed feedstock supply plan and system design for the project. This will cover the logistics of procuring, storing, hauling, and processing all

feedstocks for the biorefinery. A set of final contractual agreements for the supply of all feedstocks will be developed in conjunction [*Ex. 4*] All applicable permitting requirements for phase two of the project will be identified and addressed during the phase one effort.

In addition to technical design and planning activities, the phase one effort will involve all business development and project management activities leading up to the construction phase of the project. A comprehensive project management plan will be developed to guide the construction and commissioning of the facility. A risk mitigation plan for the project will also be developed. As needed the risk management plan will be reviewed, updated, and implemented accordingly throughout the project duration. Environmental impact data for the first and second phases of the project will be prepared and submitted for National Environmental Policy Act (NEPA) review requirements. The project financing strategy and agreements will be completed. Selection of an EPC contractor for facility construction will also be made, and a final executable EPC contract will be prepared for DOE review. Monthly technical and financial progress reports in accordance with DOE and project management requirements will also be completed throughout the award period.

C. TASKS TO BE PERFORMED

PHASE 1 -- Preliminary Project Design and Planning

Task 1.0 Site Planning, Permitting, and NEPA review

The purpose of this task is to complete all site planning and engineering, permitting, and NEPA review work that is required prior to proceeding to the construction phase of the project. Site related activities will include obtaining utilities for the project site through the completion of the planning and engineering phase, performing all site surveys and drawings, geotechnical and hydrology reports and testing, securing rail and utility access (natural gas, water, electricity), and completion of all research, documentation, and studies required to support the NEPA review and approval process. A contractor will be selected to separately complete the NEPA reporting requirements for both the planning and design phase of the project as well as the construction and commissioning phase. All environmental, construction, and other permits will also be obtained, including: air, water, storm water, wastewater, water treatment, hazardous material storage and transportation, natural gas pipeline, BATF (Bureau of Alcohol, Tobacco, and Firearms), and a Federal warehouse license for storage. ABBK will draw upon the extensive ethanol facility construction experience of the Abengoa Companies to complete these tasks. Completing these tasks will clear the way for project construction, Award 1 deliverables for this task include the permits mentioned above, site planning results, and final NEPA documentation for the construction phase of the project.

Task 2.0 Feedstock Supply Development and Design

REDACTED
EXEMPTION 4

REDACTED
EXEMPTION 4REDACTED
EXEMPTION 4**Task 3.0 Process and Detail Engineering**

The purpose of this task is to perform all required preliminary design and engineering leading up to the execution of the EPC contract for the final detailed design and plant construction. A detailed and updated construction budget based on the final process design will also be developed. The construction budget will be used for economic evaluations to support a go/no-go decision before entering the construction phase of the project. Engineering and design plans for the process will be completed and a final version of an executable EPC contract will be developed. Successful completion of these tasks will enable ABBK to enter into an EPC contract for final plant design and construction immediately following approvals to begin the construction phase of the project.

Task 4.0 Business Analysis and Financial Planning

ABBK has developed a detailed project proforma and general business strategy for construction and operation of the biorefinery.

REDACTED
EXEMPTION 4

Under these conditions, ABBK will refine the project financial analysis throughout the Award 1 period. Towards the end of the Award 1 period, this financial analysis and the related business plan will be used as the basis of a go/no-go decision by Abengoa Bioenergy, DOE, and a third-party financial institution before entering the construction phase of the project. A detailed financing package and business plan will be assembled and presented to DOE prior to the end of the Award period.

Task 5.0 Project Management and Reporting

Reports and other deliverables will be provided in accordance with the Federal Assistance Reporting Checklist following the instructions included therein. Project deliverables under this task will include: Implementation of and updates to the project risk mitigation plan, development of a project management plan, maintenance of the project schedule and resource-loaded work breakdown structure (including schedule for the financial closing), and monthly financial and technical progress reporting.