

Contract 700-11-027 CEC-94 Attachment 1
Siting, Transmission and Environmental Protection Peak Workload Contract
Funding Breakdown and Purpose Statement

Funding: The following tables show the total contract budget and the expected funding sources. The amounts and timing of each funding source are estimates and may change depending on the availability and timing of the funds. The total contract budget shall not exceed \$15,000,000.

Funding Breakdown by Funding Source

Fund	Years	Budget List	
		No.	Amount
ERPA	2011-14	700.006	\$5,030,000.00
EFLCF	2011-14	700.006A	\$7,970,000.00
ERPA	2011-14	700.006B	\$500,000.00
ERPA- Reimbursement	2011-14	901.001	\$1,500,000.00
Total			\$15,000,000.00

Funding Breakdown by FY

Fund	Year	Budget List	
		No.	Amount
ERPA	2011-12	700.006	\$1,355,000.00
EFLCF	2011-12	700.006A	\$1,500,000.00
EFLCF	2011-12	700.006C	\$3,470,000.00
ERPA- Reimbursement	2011-12	901.001	\$500,000.00
ERPA	2012-13	700.006	\$1,175,000.00
EFLCF	2012-13	700.006A	\$1,500,000.00
ERPA- Reimbursement	2012-13	901.001	\$500,000.00
ERPA	2013-14	700.006	\$2,500,000.00
EFLCF	2013-14	700.006A	\$1,500,000.00
ERPA	2013-14	700.006B	\$500,000.00
ERPA- Reimbursement	2013-14	901.001	\$500,000.00
Total			\$15,000,000.00

Contract 700-11-027 Team Member List Attachment #2 to CEC-94
June 13, 2012

Contract 700-11-001 Team Members:

A.A. Rich and Associates
Aerial Information Systems
Applied EarthWorks
Arellano Associates
Ascent
ASM Affiliates
Aspen Environmental Group
Black Eagle Consulting, Inc.
Brown-Buntin Associates, Inc.
David Harlow
Desert Research Institute
Dick Anderson
Dudek
Ecotech
EDM Services, Inc.
Farris, West & Schulz
Fehr & Peers Associates
Foothills Associates
Geotechnical Consultants
Gregor Cailliet
Helix Environmental
Horizon Water and Environment
HydroFocus, Inc.
Interpreting Services International
Katz & Associates
Kessler and Associates
Laura Frank Design
Marine Research Specialists
Michael Clayton
Mike Foster
Navigant Consulting
Pacific Group Electric Power
PAR Environmental Services, Inc.
Peter Raimondi
PGA Design
PSOMAS
RECON
Ricondo & Associates, Inc.
RSA (Risk Science Associates)
SC Wildlands

Contract 700-11-027 Team Member List Attachment #2 to CEC-94
June 13, 2012

Spectrus, Ltd.

Tad Patzek

William Kanemoto & Associates

Wind River Environmental Group

Zaininger Engineering

CONTRACT REQUEST FORM (CRF)

New Contract 700-11-027 Amendment to Existing Contract: - - Amendment Number:

Division	Contract Manager:	MS-	Phone	CM Training Date
700 Siting Transmission Environmental Protection	Joseph Merrill	16	916-651-9005	10/18/07

Contractor's Legal Name	Federal ID Number
Aspen Environmental Group	95-4337914

Title of Project
Siting, Transmission and Environmental Protection

Term	Start Date	End Date	Amount
New/Original Contract	6 / 30 / 12	5 / 31 / 15	\$ 15,000,000

Line up the Amendment information as best as possible in the following boxes

Amendment #	End Date (mm/dd/yy)	Amount

Business Meeting Information

Proposed Business Meeting Date	6/13/12	<input type="checkbox"/> Consent	<input checked="" type="checkbox"/> Discussion
Business Meeting Presenter	Joseph Merrill	Time Needed:	5 minutes

Agenda Item Subject and Description

Possible approval of Contract 700-11-001 for \$15,000,000 with Aspen Environmental Group to provide environmental and engineering services for three years to support to the Energy Commission's power plant licensing, power plant compliance and transmission corridor designation programs. (EFLCF and ERPA funding)

Business Meeting approval is not required for the following types of contracts: *Executive Director's signature is required in all cases.*

- Contracts less than \$10k (*Policy Committee's signature is also required*)
- Amendment for a no-cost time extension. Must be first extension, less than one year and original contract less than \$100k.
- Contracts less than \$25k for Expert Witness in Energy Facility licensing cases and amendments.

Purpose of Contract or Purpose of Amendment, if applicable

The purpose of this contract is for a Prime Contractor and consultant team to provide environmental and engineering services support to assist staff with the review of energy facility license applications, energy facility compliance monitoring, review and preparation of transmission corridor designation applications and related tasks to support the Energy Commission's knowledge base. The Prime Contractor's and consultant team's services will be used as needed to handle siting, compliance monitoring and transmission corridor designation workload in excess of the workload that can be handled expeditiously by Energy Commission staff.



California Environmental Quality Act (CEQA) Compliance

1. Is Contract considered a "Project" under CEQA?
 Yes: skip to question 2 No: complete the following (PRC 21065 and 14 CCR 15378):
 Explain why contract is not considered a "Project":
 Contract will not cause direct physical change in the environment or a reasonably foreseeable indirect physical change in the environment because contract involves consultant services for technical studies and training and the outcome will be reports and transfer of knowledge.

2. If contract is considered a "Project" under CEQA:
 a) Contract **IS** exempt. (Draft NOE required)
 Statutory Exemption. List PRC and/or CCR section number: _____
 Categorical Exemption. List CCR section number: _____
 Common Sense Exemption. 14 CCR 15061 (b) (3)
 Explain reason why contract is exempt under the above section: _____

b) Contract **IS NOT** exempt. The Contract Manager needs to consult with the Energy Commission attorney assigned to their division and the Siting Office regarding a possible Initial Study.

Budgets Information								
Contract Amount Funded		Breakdown by FY			Funding Sources			
Funding Source	Amount	FY	Amount	Approved ?	Funding Source	FY	Budget List No.	Amount
ARFVTF	\$		\$	No	Funding Source			\$
ECAA	\$		\$	No	Funding Source			\$
State- ERPA	\$		\$	Yes	Funding Source			\$
Federal	\$		\$	No	Funding Source			\$
PIER - E	\$		\$	No	Funding Source			\$
PIER - NG	\$		\$	No	Funding Source			\$
Reimbursement	\$		\$	Yes	Funding Source			\$
RRTF	\$		\$	No	Funding Source			\$
Other:	\$		\$	Yes	Other:			\$
TOTAL: \$ 0		TOTAL: \$ 0			TOTAL: \$ 0			
Reimbursement SEE ATTACHMENT 1 for Budget Details					Federal Agreement #:			

Contractor's Administrator/ Officer		Contractor's Project Manager	
Name:	Hamid Rastegar	Name:	Thomas Murphy
Address:	5020 Chesebro Road, Suite 200	Address:	8801 Folsom Blvd., Suite 290
City, State, Zip:	Agoura Hills, CA, 91301	City, State, Zip:	Sacramento, CA 95826
Phone/ Fax:	818-338-6655/ 818-597-8001	Phone/ Fax:	916-379-0350/916-379-0357
E-Mail:	hrastegar@aspeneg.com	E-Mail:	tmurphy@aspeneg.com

Contractor Is

Private Company (including non-profits)
 CA State Agency (including UC and CSU)
 Government Entity (i.e. city, county, federal government, air/water/school district, joint power authorities, university from another state)

Selection Process Used

Solicitation RFQ Solicitation #: 700-11-701 # of Bids: 1 Low Bid? No Yes
 Non Competitive Bid (Attach CEC 96)
 Exempt Select Exemption (see instructions)



Civil Service Considerations

Not Applicable (Contract is with a CA State Entity or a membership/co-sponsorship)

Public Resources Code 25620, et seq., authorizes the Commission to contract for the subject work. (PIER)

The Services Contracted:

- are not available within civil service
- cannot be performed satisfactorily by civil service employees
- are of such a highly specialized or technical nature that the expert knowledge, expertise, and ability are not available through the civil service system.

The Services are of such an:

- urgent
- temporary, or
- occasional nature

that the delay to implement under civil service would frustrate their very purpose.

Justification:
 Services provided under this contract are of a technical nature. While most workload is handled by civil servants, it is necessary to secure temporary or occasional services of qualified technical personnel in order to address the potential for high-volume work generated by factors external to the Energy Commission. This work is usually also urgent in nature. In addition, some workload requires services of a highly specialized nature not available within civil service.

Payment Method

A. Reimbursement in arrears based on:

- Itemized Monthly Itemized Quarterly Flat Rate One-time

B. Advanced Payment

C. Other, explain:

Retention

1. Is contract subject to retention? No Yes

If Yes, Do you plan to release retention prior to contract termination? No Yes

Justification of Rates

Prior to releasing the RFQ, the Energy Commission Contract Manager conducted a survey of rates of three private firms that provide similar services. The survey method followed the Energy Commission rate survey policy on determining reasonable rates. The Contract 700-11-001 rates were negotiated between Aspen Environmental Group staff and the Energy Commission's Contract Officer and Contract Manager. The rates agreed upon are within the limits specified in the Energy Commission policy for determining reasonable rates based on the rate survey results.

Disabled Veteran Business Enterprise Program (DVBE)

1. Not Applicable

2. Meets DVBE Requirements DVBE Amount:\$ (as needed) DVBE %: 5%

- Contractor is Certified DVBE
- Contractor is Subcontracting with a DVBE: Granite Financial Solutions, Ecotech Resources

3. Contractor selected through CMAS or MSA with no DVBE participation.

4. Requesting DVBE Exemption (attach CEC 95)

Is Contractor a certified Small Business (SB), Micro Business (MB) or DVBE? No Yes

If yes, check appropriate box: SB MB DVBE

Is Contractor subcontracting any services? No Yes

If yes, give company name and identify if they are a Small Business (SB), Micro Business (MB) and/or DVBE:

700-11-027 CEC 94 Attachment 2" for subcontractor list.	<input type="checkbox"/> No	<input type="checkbox"/> SB	<input type="checkbox"/> MB	<input type="checkbox"/> DVBE
	<input type="checkbox"/> No	<input type="checkbox"/> SB	<input type="checkbox"/> MB	<input type="checkbox"/> DVBE
	<input type="checkbox"/> No	<input type="checkbox"/> SB	<input type="checkbox"/> MB	<input type="checkbox"/> DVBE



Miscellaneous Contract Information		
1. Will there be Work Authorizations?	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
2. Is the Contractor providing confidential information?	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
3. Is the contractor going to purchase equipment?	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes
4. Check frequency of progress reports <input checked="" type="checkbox"/> Monthly <input type="checkbox"/> Quarterly <input type="checkbox"/> Other...		
5. Will a final report be required?	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
6. Is the contract, with amendments, longer than a year? If yes, why? Contract will be three years to provide continuity of contractor technical analysis.	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes

The following items should be attached to this CRF		
1. Scope of Work, Attach as Exhibit A.	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Attached
2. Budget Detail, Attach as Exhibit B.	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Attached
3. CEC 96, NCB Request	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Attached
4. CEC 30, Survey of Prior Work	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Attached
5. CEC 95, DVBE Exemption Request	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Attached
6. Draft CEQA Notice of Exemption (NOE)	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Attached
7. Resumes	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Attached
8. CEC 105, Questionnaire for Identifying Conflicts		<input checked="" type="checkbox"/> Attached
9. CEC 106, IT Component Reporting Form		<input checked="" type="checkbox"/> Attached

Contract Manager Date Office Manager Date Deputy Director Date

The following signatures are only required when contract approval is delegated to the Executive Office and not approved at a Business Meeting. See Business Meeting Information Section.

Presiding Policy Committee Date Associate Policy Committee Date Executive Director Date

EXHIBIT A SCOPE OF WORK

WORK GUARANTEE

All members of the Contractor team, including employees of the Contractor, are eligible to perform and may be assigned technical work. However, there is no guarantee that work will be required in all areas, or that every person or firm listed in this Agreement will receive work during the Agreement period. Additional people or firms may be added during the course of this Agreement, if necessary, upon approval by the Energy Commission staff.

WORK AUTHORIZATIONS

This is a “Work Authorization” Agreement and no work shall be undertaken unless authorized by the Energy Commission through a specific written document called a “Work Authorization”. The Contract Manager will prepare and issue the written work authorizations that define the scope of work, the schedule of deliverables and the project budget. The amount of Contractor assistance required for each project will vary depending on the availability of Energy Commission staff with expertise in specific areas and the sensitivity of issues associated with the project. Final assignment of tasks and maximum payment on individual projects will be described in work authorizations signed by the Contractor and Energy Commission’s Contract Manager.

To ensure the timeliness and success of all work performed under this Agreement, the Contract Manager will work closely with the Contractor to administer the Agreement, and a staff person will be assigned as a Work Authorization Manager to direct and review the work of assigned contractors on individual work assignments throughout all phases of the Agreement. The Energy Commission staff will review all products and deliverables to ensure quality, consistency and compliance with Energy Commission policies.

All Work Authorization must be reviewed by the Energy Commission’s Information Technology Services Branch (ITSB) to determine if any information technology (IT) activities or acquisitions are included in the Work Authorization. If it is determined the Work Authorization includes IT activities or acquisitions the Energy Commission’s Chief Information Officer or designee must approve the Work Authorization before the Work Authorization can be executed. Activities under the Agreement may include, but may not be limited to using GIS software to produce maps.

WORK PERFORMANCE

The Energy Commission cannot accurately predict far into the future when work will be required under this Agreement. The need to supplement staff resources with the Contractor’s services will vary in response to submittals by developers of energy

facilities, possible Energy Commission decisions to designate a transmission corridor on its own motion, or a directive from the Governor's Office to carry out siting-related or designation-related activities. Further, once the need for work is initiated, the work may need to proceed at a quick pace to meet the required analytical and procedural deadlines. Accordingly, the Contractor will need to be able to respond to the Energy Commission's requests for technical support on a timely basis. The Contractor shall respond to requests for work in accordance with the following pattern:

- The Energy Commission's Contract Manager shall provide at least two (2) week's notice that a significant work effort will be required and the Contractor will need to assemble an effective and trained team during that period.
- The Contractor shall provide individual experts to handle specific issues with only two (2) days' notice.
- The Contractor shall return telephone calls and e-mails from the Energy Commission's Contract Manager and provide an initial response within four (4) hours.
- The Contractor and all team members shall meet the agreed upon product deadlines on the day they are due.
- The Contractor and all team members shall meet the agreed upon event deadlines on the day, hour, and location needed.
- The Contractor shall provide quality assurance on its draft products before delivery to the Energy Commission's Work Authorization Manager.

CONTRACTOR ACTIVITIES

The Contractor shall perform the following activities in carrying out the tasks under this Agreement. These activities are the general types of work Contractor will perform, in order to accomplish the tasks listed in this Agreement. These are not stand-alone activities, but are the types of work required to perform tasks 1-16 below. All work requested via work authorization will fit within one or more of the 16 tasks.

- Perform California Environmental Quality Act (CEQA) and National Environmental Protection Act (NEPA) analysis.
- Perform environmental and engineering analysis.
- Develop recommendations regarding environmental and engineering issues.
- Prepare written testimony and present oral testimony.
- Write, edit and/or publish technical reports.
- Review and comment on technical reports.
- Identify, review and evaluate data. Develop information requests for data from sources outside of the Energy Commission, such as project developers,

agencies, or other sources with information relevant to permitting electricity infrastructure.

- Conduct literature searches and review existing studies.
- Attend, participate in, facilitate, organize and/or present at meetings, workshops and hearings.
- Conduct field assessments to collect and analyze information on energy and environmental resources, land use patterns, existing energy facilities, engineering suitability of specific sites for electricity generation and transmission facilities, and related environmental and engineering matters.
- Evaluate the effects of existing or proposed laws, ordinances, regulations and standards of local, state or federal agencies on the permitting and operation of power plants and transmission lines or the designation of transmission corridors.
- Consult with agencies in determining the applicability of their laws and regulations to power plant licensing or transmission corridor designation applications, and in planning for the permitting and development of energy resources and related transmission line infrastructure.
- Use complex analytical models and decision support tools related to environmental and engineering matters, including developing high quality model inputs and assumptions.
- Compare the potential environmental impacts, engineering feasibility, potential costs and electricity system impacts of different electric generation or transmission project types and configurations, generally or in specific environmental settings.
- Answer Energy Commission staff's, Commissioners', and Commissioner Advisors' technical questions about environmental, engineering, and regulatory issues associated with electric generation projects and transmission lines.

SPECIFIC TASKS

The Contractor will be required to perform management functions; to complete a series of specific tasks in analyzing Applications for Certification (AFC), Applications for Amendments to Energy Commission Decisions and existing Conditions of Certification (Amendments); Small Power Plant Exemptions (SPPEs), Transmission Corridor Designation (TCD) applications; and to provide technical support services.

Upon issuance of a work authorization, Contractor shall:

MANAGEMENT AND ADMINISTRATION

(Task 1)

The Contractor will be required to perform the following management task.

TASK 1 – CONTRACT MANAGEMENT AND ADMINISTRATIVE DUTIES

A maximum of 12% of the total Agreement budget will be allocated for this task. The Contractor will be required to perform contract management and administrative duties to manage the Agreement.

The Contractor shall:

- Supply cost estimates for potential work tasks to Energy Commission technical staff.
- After approval of potential work tasks by the Energy Commission Siting, Transmission and Environmental Protection Division management, supply information for work authorization development to the Energy Commission Work Authorization Manager; including a definition of the scope of work, the schedule of deliverables and the work task budget.
- Prepare and execute agreements with subcontractors that convey all provisions contained in the Agreement and specific work authorizations between the Energy Commission and the Contractor.
- Enforce subcontract provisions, and in the event of failure of the subcontractor to perform satisfactorily, recommend actions to resolve the problem.
- Require subcontractors to provide invoices which correctly identify personnel, rates, actual hours, and direct expenses charged to each task of each work authorization and which provide adequate documentation to justify expenses, including electronic copies of completed deliverables. Maintain electronic record of invoices and invoice documentation, including completed deliverables. For work assignments spanning a lengthy period, the work authorization may be structured to allow billing for completed interim deliverables. Subcontractor invoices will be reviewed by the Contractor and the Energy Commission Work Authorization Manager, technical staff, or Contract Manager for accuracy and completeness.
- Provide monthly progress reports by the tenth of each month to the Energy Commission's Contract Manager on the Contractor's and subcontractors' progress for work assignments, including a summary of contract expenditures to date.
- Submit monthly invoices by the tenth of each month to the Energy Commission's Accounting Office with a copy to the Energy Commission Contract Manager. Invoices shall indicate the labor costs, operating expenses, fees and Disabled Veterans Business Enterprise (DVBE) amounts. Invoices shall coincide with the

monthly progress report timeframe. Invoices will not list work authorizations not issued at the time of invoice preparation.

- Pay subcontractors for satisfactory products within five working days after payment is received from the Energy Commission.
- Develop and maintain a secure website to share contract-related information with Energy Commission staff and to track the status of all work authorizations.
- For each fiscal year, prepare a Final Report on the work accomplished during that fiscal year and a brief (200 words or less) abstract.

Incidental Services Tasks

(Task 2 and 3)

In addition to Management and Administration duties (Task 1), the Contractor shall provide incidental services to support the environmental and engineering related work of Energy Commission staff and consultant technical specialists.

TASK 2 – DOCUMENT PRODUCTION

The Contractor shall:

- Produce graphics to support Energy Commission documents and analysis, including Geographic Information Systems (GIS) maps, and photographic and artistic renderings.
- Write, edit and synthesize technical documents based on technical information from one or more sources to ensure the technical accuracy, correct grammar, unified style and clarity of Energy Commission documents, including without limitations, staff assessments and PMPD. Ensure that the written products of staff and the Contractor's technical specialists clearly convey their intended message to the public and all stakeholders.
- Format and prepare electronic documents for high quality printing and/or binding. Print and/or bind documents in high-quality formats.

TASK 3 – INTERPRETING AND TRANSLATION SERVICES

- The Contractor shall translate documents and/or interpret verbal comments between English and Arabic, Armenian, Cantonese, Cambodian, Farsi, Hmong, Korean, Mandarin, Punjabi, Russian, Spanish, Tagalog, Vietnamese and other languages as required. Interpreting services will be required at onsite and offsite meetings, workshops and hearings.

Power Plant Siting and Transmission Corridor Designation Tasks

(Tasks 4 – 10)

The Contractor will be required to perform the following tasks to support the Power Plant Siting and Transmission Corridor Designation Programs. The specific tasks and degree of effort the Contractor performs for each project may vary. Work authorizations for specific applications for AFCs, SPPEs, Amendments and TCD projects will detail the location of the proposed project and technical area for Contractor's work. Specific due dates for Contractor's work will be set pursuant to the project schedule developed by the project manager for the project application.

Energy Commission staff may direct the Contractor to review TCD applications from developers or utilities, and/or staff proposed TCD applications. For a TCD application the Contractor has helped staff to prepare, the Contractor may be directed to represent staff on the application in the TCD proceeding.

TASK 4 – DATA ADEQUACY ASSESSMENT (APPLIES TO AFC/TCD ONLY)

The Energy Commission must determine if applications contain the substance of information required by the appropriate regulations. Energy Commission staff must make a data adequacy recommendation to the full Commission within 30 days of the filing of the application, and the Energy Commission must act on the recommendation at a public meeting within 45 days of the filing. If the Energy Commission finds that the application is incomplete, it must provide the applicant a written list of deficiencies that must be addressed in a supplemental filing by the applicant, should the applicant choose to continue. The Energy Commission must make any subsequent data adequacy determinations within 30 days of receipt of the supplemental filing.

The Contractor shall:

- Compare the contents of the application with the information requirements.
- Identify any deficiencies.
- If necessary, meet with the applicant in a pre-acceptance workshop and explain the deficiencies and expected information.
- If necessary, assist the Energy Commission's Siting, Transmission and Environmental Protection Division Management in forming an overall data adequacy recommendation.
- If necessary, participate in a data adequacy hearing. To be completed within 45 days after filing.

The schedule for activities and products varies between AFCs and TCDs. The typical schedule for activities and products during a 12-month AFC or TCD data adequacy review is as follows:

Event	Calendar Day	Product
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Document Received	-0-	Application
Pre-acceptance Workshop if needed	15	Workshop
Staff Data Adequacy Recommendations to Project Manager (PM)	20	Data Adequacy Worksheets
Data Adequacy Briefing with Division Management	25	Meeting
Data Adequacy Recommendations to Executive Office	28	Meeting
Executive Office Data Adequacy Recommendation	30	Recommendation to Energy Commission
Business Meeting on Data Adequacy	45	Business Meeting Order

Note: All days are based upon the date of filing.

TASK 5 – DISCOVERY (APPLIES TO AFC/SPPE/AMENDMENT/TCD)

During the discovery phase of the project, the Contractor will collect all information necessary to evaluate the project and prepare the analysis in the next task.

The Contractor shall:

- Review the application and other materials and coordinate with appropriate state, local, or federal agencies to determine the significant issues of the project for each technical area.
- Prepare data requests and attend publicly noticed workshops to discuss either the requests or the applicant’s responses if additional information is needed from the applicant.
- Participate in site visits, necessary field studies and informational hearings.

The schedule for activities and products varies between AFCs, SPPEs, Amendments and TCDs. The typical schedule during the 12-month AFC or TCD discovery phase is as follows:

Event	Calendar Day	Product
Written Data Requests to PM	15	Data Requests
Data Requests to Applicant	25	Letter
Site Visit/Informational Hearing	30-45	Field Trip
Data Request Workshop	35	Workshop
Responses Filed	55	Responses
Data Response Workshop	65-75	Workshop
Second Data Requests to PM (if needed)	70	Data Requests

Second Data Requests to Applicant (if needed)	80	Letter
Second Data Request Workshop (if needed)	85	Workshop
Second Set of Responses Filed (if needed)	100-110	Responses
Second Data Response Workshop (if needed)	115-120	Workshop

Note: All days are based upon the date acceptance. Actual schedules may vary based upon the Committee Orders, issues in the case, and type of process.

TASK 6 – ANALYSIS (APPLIES TO AFC/SPPE/AMENDMENT/TCD)

This task requires the Contractor to prepare a written evaluation of the project for each technical area assigned.

The Contractor shall:

- Identify all applicable federal, state and local laws, ordinances, regulations, standards (LORS), policies or plans that apply to the project.
- Describe the existing conditions at or near the project.
- Assess the direct, indirect and cumulative impacts of the proposed project.
- Evaluate the project’s ability to comply with applicable LORS.
- Evaluate applicant’s proposed measures to eliminate or reduce significant impacts or comply with applicable laws.
- Recommend additional mitigation measures.
- Evaluate, and make recommendations regarding, any feasible alternatives to the project.
- Recommend specific conditions for certification or designation and methods for verifying that conditions have been met.

Analyses will be based upon Contractor’s review of the application, communication with appropriate federal, state and local agencies, attendance at informational hearings, consideration of various parties’ comments and concerns, participation in site visits and necessary field studies, review of available information, and independent analyses.

The Energy Commission will specify the analysis format. The Contractor will be expected to give consideration to various parties’ comments and concerns, respond to any comments from Energy Commission staff and incorporate changes into the draft or final analyses that do not compromise the Contractor’s professional expert analysis. Workshops may be conducted with the applicant to discuss the results of the analysis and/or proposed recommendations.

The schedule for activities and products varies among AFCs, SPPEs, Amendments and TCDs. The typical schedule during the 12-month AFC or TCD analysis phase is as follows:

Event	Calendar Day	Product
Sections of Preliminary Staff Assessment (PSA) or Draft Program EIR (DPEIR) with no Data Requests	70	PSA or DPEIR Section
PSA or DPEIR Sections for Areas with only one set of Data Requests	105	PSA or DPEIR Sections
All Remaining PSA or DPEIR Sections	141	PSA or DPEIR Sections
PSA or DPEIR Distributed	150-165	PSA or DPEIR
PSA or DPEIR Workshops	165-180	Workshops
Pre-hearing Conference Statements Filed	175	PHC Statements
Pre-hearing Conference	180-200	PHC
FSA or Final PEIR (FPEIR) Filed	200-220	FSA or FPEIR (Testimony)

Note: All days are based upon the date acceptance. Actual schedules may vary based upon the Committee Orders, issues in the case, and type of process.

The staff assessment for a SPPE is shorter since it consists only of an initial study and separate analysis of power plant efficiency. Only one draft is prepared and submitted for public review and the entire process from application to Commission Decision is only 135 days long.

TASK 7 – HEARINGS/DECISIONS (APPLIES TO AFC/SPPE/AMENDMENT/TCD)

The Contractor will be required to write expert witness testimony and present it at evidentiary hearings. The testimony will be based on the initial analyses and any subsequent analysis necessary to respond to a specific issue or Committee request.

The Contractor shall:

- Prior to the hearings, participate as needed in PSA workshops and pre-hearing conferences to discuss conclusions and recommendations with the applicant, interveners, the public and the Committee. The purpose of these meetings is to determine areas of potential agreement and disagreement for discussion in the non-adjudicatory and evidentiary hearings.
- Prior to the evidentiary hearings, work on witness preparation with the Energy Commission’s legal counsel assigned to the project. The Contractor will work with counsel to prepare rebuttal testimony and required legal briefs.

- During the hearings, the Contractor shall present expert testimony, answer questions of the Energy Commission and legal counsel and respond to cross-examination.
- Following the hearings, the Committee will prepare the proposed decision. The Contractor shall review the proposed decision in the appropriate subject areas and comment on facts, conclusions and recommendations from staff's perspective.
- If necessary, the Contractor will appear at hearings on the proposed and final decisions to present its position. Hearings must commence no earlier than day 90, nor later than day 240 in the 12-month process.

The schedule for hearings and decisions varies among AFCs, SPPEs, Amendments and TCDs. The typical schedule during the 12-month AFC or TCD hearings/decisions phase is as follows:

Event	Calendar Day	Product
Evidentiary Hearings	220-240	Hearing
Committee Issues Presiding Member's Proposed Decision	305	Presiding Member's Proposed Decision
Committee Hearing on Proposed Decision	330	Hearing
Staff Comments on Presiding Member's Proposed Decision	335	Comments
Hearing on Decision	365	Hearing

Hearings on SPPEs and AFC amendments are similar to those above. During the SPPE process, however, only a Proposed Decision is prepared for consideration and final adoption. Note that all Calendar Day listings are approximate.

TASK 8 – SITING PROJECT MANAGEMENT (APPLIES TO AFC/SPPE/TCD)

The Contractor will be required to provide project management services to support processing AFCs, SPPEs and TCDs.

The Contractor shall:

- Plan, organize and direct the work of an interdisciplinary environmental and engineering staff team engaged in the review of complex or controversial energy facility siting applications.
- Critically review, evaluate and edit project correspondence, reports, testimony, briefs and position papers. Serve as the editor-in-chief and publisher for all major project documents. The work will include preparing and publishing Environmental Impact Reports and Initial Studies/Negative Declarations.

- Organize and conduct workshops and meetings among the staff and between the staff and energy facility developers, other governmental agencies, private organizations and the public to discuss environmental issues and other siting concerns.
- Represent the Commission staff at Energy Commission business meetings by making siting project presentations and answering general questions from the Commissioners.
- Provide expert witness testimony in evidentiary hearings on overall features of the proposed project.

TASK 9 – COMPLIANCE MONITORING AND ANALYSIS OF AMENDMENTS

The Contractor will be required to provide technical and project management support to the Power Plant Compliance program and be available for the for follow up on issues related to the contractor’s testimony, FSA and PMPD. This will include compliance monitoring and analysis of proposed Amendments to Energy Commission Decisions, as detailed below.

The Contractor shall:

- Coordinate with power plant owners/operators and relevant state and local agencies to monitor the project’s compliance with conditions of certification included in the Energy Commission’s Decision.
- Review periodic compliance reports filed during both the construction and operating phase of a project, as well as site visits, to assess whether the project is in compliance. If compliance issues are identified the Contractor will be required to provide written analyses and recommendations to resolve them.
- Review and analyze proposed project compliance amendments, which an owner/operator may file after a project has been approved by the Energy Commission. Amendments may include minor changes to conditions of certification affecting the construction or operation of a project, or involve major changes to the design, location or operation of a project. In conducting the analysis, the Contractor will need to evaluate, in consultation with appropriate agencies, whether the proposed amendment will result in significant unmitigated environmental impacts or conflict with applicable laws, ordinances and regulations. Based on the analysis, the Contractor will be required to coordinate the work of technical specialists preparing written staff analyses, including findings and appropriate recommendations.
- Provide engineering oversight over the Energy Commission Delegate Chief Building Officials (DCBO) responsible for project code compliance during construction activities. Support DCBO audits, review of specific DCBO issues and development of DCBO related guidance documents.

- Present Compliance staff analysis at a workshop or public hearing and respond to questions.

TASK 10 – CULTURAL RESOURCES CUMULATIVE IMPACT MITIGATION SUPPORT

Large solar projects located in the same region have the potential, collectively, to have a significant cumulative impact on the cultural resources of the region. Mitigating such cumulative impact may require a unified effort, which can be difficult to achieve when multiple projects with varying ownership patterns are responsible for implementation. In these circumstances, the Energy Commission may decide to manage the mitigation activities in-lieu of the project owners, although the project owners must still take financial responsibility for mitigating the project impacts by paying for the effort.

For example, the Energy Commission staff is currently managing such a mitigation effort to address the cumulative impact from several certified solar projects. This effort involves region-wide cultural landscape studies that entail extensive prehistoric and historic-period data acquisition from past and current projects, data analysis and synthesis, the production of a report, and possibly the nomination of one or more of the identified landscapes to the National Register of Historic Places (NRHP). This effort is expandable if new projects are proposed in same region. The current landscape studies make use a range of specialized contract personnel, including archaeologists, geoarchaeologists, ethnographers, historians, historical archaeologists, and GIS database designers and managers. Future landscape studies would require similar expertise.

To support Energy Commission-managed cultural resources cumulative impact mitigation efforts, the Contractor shall:

- Review and assess the existing cultural resources information for the landscapes; meet and confer with Energy Commission and any involved federal, state and county cultural resources staffs, project cultural resources personnel, and Native American tribal representatives; and set up inter-project coordination protocols.
- Work with all project archaeologists, geoarchaeologists, ethnographers and historians to ensure the accurate and consistent recordation of landscape data and the accurate and consistent coding of data for input into a GIS database.
- Compile and synthesize regional geomorphological data and provide site-specific landform information to project archaeologists.
- Collaborate to set up, populate, maintain and process data for a GIS database for the landscapes.

- Synthesize all available previously and newly recorded archaeological, geoarchaeological, ethnographic, and historical data; decide, for each landscape, if an NRHP nomination is warranted; write the nominations, if justified; and write a final report on the conduct and results of each landscape study.
- Add data from new, later projects in the region into landscape GIS databases and nominations.
- Assist the Energy Commission in disseminating the results of the landscape synthetic studies to both the professional community and the public, act as technical advisors for the development of public presentations of information generated by the landscape program, and support on-going Native American heritage preservation projects.

TASK 11 – PREPARING TRANSMISSION CORRIDOR DESIGNATION APPLICATIONS

The Energy Commission may, under its own motion, propose the designation of a transmission line corridor. In that event, the staff will file an application to designate the proposed transmission line corridor. The Contractor may be directed to assist staff in preparing one or more applications to designate transmission corridors in support of one or more Energy Commission motions. When directed by staff to assist in preparing an application, the Contractor shall ensure the satisfaction of all informational requirements under Title 20, California Code of Regulations, section 2321 and Appendix A for each technical section assigned by the staff.

The Contractor shall assist staff with the following:

- Prepare a description of the proposed transmission corridor, its location, the region in which it is proposed to be located, and the transmission facilities anticipated to be within the corridor.
- Prepare a description of planning time frame, objectives and conformance of the proposed corridor with the state's needs and objectives as set forth in the latest adopted Strategic Transmission Investment Plan (STIP).
- Prepare a description of a reasonable range of alternative corridors that could meet the basic objectives of the proposed corridor.
- Prepare an environmental assessment of the proposed corridor, including a reasonable range of alternatives and feasible ways to mitigate or avoid foreseeable significant environmental impacts.
- Prepare a description of new generation, energy efficiency and demand reduction measures that are likely to be available during the planning timeframe of the proposed corridor.

- Coordinate with federal, state and local agencies to assure conformance of the corridor with existing laws, ordinances and regulations, existing land use patterns, and growth management plans and policies.
- Assist staff in preparing the transmission line corridor application and supporting appendices.
- Prepare written responses to information requests from parties to the Commission's corridor designation proceeding.
- Participate in public workshops to present aspects of the application and answer questions.
- Prepare and present written testimony, based on the application, at hearings held by the Commission Committee.

Environmental Services and Engineering Tasks

(Tasks 12 – 14)

The Contractor shall support staff in the continuous updating of the Energy Commission's policies and knowledge base regarding power plant siting and compliance, transmission line planning and corridor designation. This work includes identifying and reviewing LORS, providing technical assistance regarding greenhouse gases, climate change and gas transmission pipeline safety, and providing training on environmental and engineering topics.

TASK 12 –LAWS, ORDINANCES, REGULATIONS AND STANDARDS ASSISTANCE

The Contractor shall:

- Identify and review Laws, Ordinances, Regulations and Standards (LORS) that apply to electricity infrastructure projects subject to the Energy Commission's power plant certification and transmission corridor designation authority. Applicable LORS are those that apply to the location, design, construction or operation of a proposed facility for certification or designation by the Energy Commission.
- Summarize applicable LORS and compile a compendium for each technical area analyzed in an AFC, SPPE or TCD application. Update the compendium for each technical area as LORS change.
- Conduct analysis and gather evidence to support Energy Commission rulemakings to implement new, or revise existing, regulations that apply to electricity infrastructure projects subject to the Energy Commission's certification or designation authority.
- Analyze and report on the effects of U.S. Environmental Protection Agency (USEPA) and State Water Resources Control Board (SWRCB) water quality control actions on Section 316 (b) of the Clean Water Act and on the use of coastal and estuarine waters for power plant cooling. Coordinate with federal, state and local

agencies and assist in conducting environmental and/or engineering analysis of federal and state environmental impact documents related to Section 316 (b) of the Clean Water Act and SWRCB power plant cooling policies. Assist staff in developing alternative analyses to be submitted to state or local agencies for use in developing their cooling water control strategies. Assist staff in conducting analyses of 1) water consumption in the electric generation sector in California and 2) measures for reducing consumption of potable water and/or impacts from the use of seawater. Analyses may address, for example, feasibility, costs, benefits, effects on power plant performance, water and energy supply and consumption, environmental effects and consequences of power plant retrofits.

TASK 13 – GREENHOUSE GASES AND GLOBAL CLIMATE CHANGE ASSESSMENT

The Contractor shall provide engineering and environmental services technical assistance to Energy Commission staff, Commissioners, Commissioner Advisors and other stakeholders in assessing greenhouse gas (GHG) emission impacts in Energy Commission power plant licensing cases and compliance assessments.

The Contractor shall:

- Evaluate the effects of greenhouse gas reduction programs applicable to California energy facilities, renewable energy generation market penetration, federal and state climate change and GHG rulemaking, and energy efficiency programs. This will establish the baseline conditions and effect of the project on the baseline and existing GHG reduction programs for Energy Commission power plant licensing cases and compliance assessments.
- Review GHG emissions estimate forecasts for Energy Commission energy forecast model inputs and policies and incorporate them into GHG analyses performed for Energy Commission power plant licensing cases and compliance assessments.
- Provide expert testimony in licensing cases and compliance assessments.
- Based on the GHG and Climate Change assessments performed during, and in preparation for, Energy Commission power plant licensing cases and compliance assessments, provide expert testimony in state and federal policy and rulemaking proceedings on global climate change and GHG emissions.

TASK 14 – NATURAL GAS PIPELINE SAFETY ASSESSMENT

The Contractor shall provide technical engineering assistance to Energy Commission staff, Commissioners, Commissioner Advisors and other stakeholders in assessing natural gas pipelines in the Energy Commission's power plant licensing cases and compliance assessments.

The Contractor shall:

- Monitor the Order Instituting Investigation (OII) at the CPUC related to gas transmission line safety including the San Bruno pipeline rupture incident. Identify and summarize changes and proposed to changes to gas transmission line safety related LORS, policies and best practices applicable to Energy Commission jurisdictional power plants. Based on the natural gas pipeline safety assessments performed during, and in preparation for, Energy Commission power plant licensing cases and compliance assessments, provide technical input to the OII proceeding on gas transmission line safety.
- Conduct a survey of existing Energy Commission jurisdictional power plants' pipelines and interconnections features, integrity management, maintenance and record keeping status.
- Conduct a review of needs for gas pipeline related Conditions of Certification in Energy Commission power plant siting cases.
- Review Energy Commission jurisdictional power plants' ongoing compliance with related LORS.
- Conduct a review of potential impacts of interconnections to pipeline infrastructure and public safety.
- Provide expert testimony in licensing cases and compliance assessments.
- Based on the natural gas pipeline safety assessments performed during, and in preparation for, Energy Commission power plant licensing cases and compliance assessments, provide expert testimony in state and federal policy and rulemaking proceedings on California power plant natural gas pipeline safety.

TASK 15 – TRAIN STAFF, COMMISSIONERS, COMMISSIONER ADVISORS AND OTHER STAKEHOLDERS

The Contractor shall provide technical training to Energy Commission staff, Commissioners, Commissioner Advisors and other stakeholders responsible for environmental protection or transmission system planning. Training will cover environmental and engineering topics associated with electric generation projects and transmission lines; technical compliance monitoring/enforcement skills or safety skills necessary to perform site visits or monitor Conditions of Certifications; data gathering and analysis; use of computer models; and other technical skills needed to review and analyze power plant permitting or transmission corridor designation applications. The Contractor may conduct training sessions with staff at the Energy Commission, at an offsite location, or by teleconference or internet. Work authorizations issued for training will indicate what expenses Contractor will be responsible for, depending on the needs of the particular training session. The work authorization will specify whether Energy Commission or Contractor will cover costs involved in conducting a training session, such as facility rental, equipment, or printing.