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File No. 033947-0020

November 12, 2009

<b>DOCKET</b>	
<b>08-AFC-7</b>	
DATE	NOV 12 2009
RECD.	NOV 12 2009

**VIA FEDEX**

CALIFORNIA ENERGY COMMISSION

Attn: Docket No. 08-AFC-7

1516 Ninth Street, MS-4

Sacramento, California 95814-5512

Re: GWF Tracy Combined Cycle Power Plant Project: Docket No. 08-AFC-7

Dear Sir/Madam:

Pursuant to California Code of Regulations, title 20, sections 1209, 1209.5, and 1210, enclosed herewith for filing please find Applicant's Prehearing Conference Statement.

Please note that the enclosed submittal was also filed today via electronic mail to your attention and served on all parties to the above-referenced project.

Very truly yours,



Paul E. Kihm  
Senior Paralegal

Enclosure

cc: CEC 08-AFC-7 Proof of Service List (w/encl. via e-mail and U.S. Mail)  
Michael J. Carroll, Esq. (w/ encl.)

Michael J. Carroll  
Marc T. Campopiano  
LATHAM & WATKINS LLP  
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STATE OF CALIFORNIA  
ENERGY RESOURCES  
CONSERVATION AND DEVELOPMENT COMMISSION

In the Matter of: ) Docket No. 08-AFC-07  
)  
Application for Certification, ) APPLICANT'S PREHEARING  
for the GWF TRACY COMBINED CYCLE ) CONFERENCE STATEMENT  
POWER PLANT by GWF ENERGY, LLC. )  
)  
\_\_\_\_\_ )

Pursuant to 20 C.C.R. § 1718.5 and the Revised Notice of Prehearing Conference and Evidentiary Hearing, dated November 2, 2009, Applicant hereby submits its Prehearing Conference Statement.

**I. COMPLETION OF TOPIC AREAS AND READINESS TO PROCEED TO EVIDENTIARY HEARING**

All topic areas are complete and Applicant is prepared to proceed to evidentiary hearing on all topic areas. There are no topic areas that remain disputed or require adjudication.

**II. IDENTIFICATION OF WITNESSES AND EXHIBITS**

Table 1, below, identifies the witnesses that will provide testimony, organized by topic area in accordance with the Final Staff Assessment (FSA). Specifically, Table 1 identifies:

- Whether or not there are disputes or outstanding issues between the parties concerning the topic area;
- Witnesses sponsored by Applicant, the testimony to be offered by each witness, and the time estimated to present direct testimony; and
- Topic areas on which Applicant desires to cross-examine other Parties' witnesses, and the time estimated for cross-examination.

Table 1 is based on the assumption that all testimony can be submitted into the evidentiary record by declaration. In the event that other parties request live testimony on any of these topic areas, Applicant reserves the right to modify its Prehearing Conference Statement to include additional witnesses and additional time for direct and cross-examination.

Appendix A to this Prehearing Conference Statement contains the qualifications of the witnesses sponsored by Applicant. Appendix B to this Prehearing Conference Statement identifies the tentative list of exhibits and declarations that Applicant intends to offer into evidence and the technical topics to which they apply.

**Table 1**

<b>Topic Area</b>	<b>Disputes Between Parties</b>	<b>Applicant Witnesses</b>	<b>Testimony Summary</b>	<b>Direct Testimony Estimate</b>	<b>Cross-Examination of Other Party Witnesses Estimate</b>
Executive Summary	No.	Jerry Salamy, CH2M Hill	Declaration	None.	None.
Project Description	No.	Doug Wheeler, GWF Energy, LLC.	Declaration	None.	None.
Air Quality	No.	Jerry Salamy, CH2M Hill	Declaration	None.	None.
Biological Resources	No.	Marjorie Eisert, CH2M Hill	Declaration	None.	None.
Cultural Resources	No.	Clint Helton, CH2M Hill	Declaration	None.	None.
Hazardous Materials	No.	Sarah Madams, CH2M Hill	Declaration	None.	None.
Land Use	No.	Jennifer Scholl, CH2M Hill.	Declaration	None.	None.
Noise and Vibration	No.	Mark Bastasch, CH2M Hill	Declaration	None.	None.
Public Health	No.	Jerry Salamy, CH2M Hill	Declaration	None.	None.
Socioeconomic Resources	No.	Fatuma Yusuf, CH2M Hill	Declaration	None.	None.
Soil and Water Resources	No.	Steve Long, CH2M Hill; Matt Franck, CH2M Hill	Declaration	None.	None.
Traffic and Transportation	No.	Loren Bloomberg, CH2M Hill	Declaration	None.	None.
Transmission Line Safety and Nuisance	No.	Doug Wheeler, GWF Energy, LLC.	Declaration	None.	None.
Visual Resources	No.	Joshua Hohn, CH2M Hill	Declaration	None.	None.
Waste Management	No.	Sarah Madams, CH2M Hill	Declaration	None.	None.
Worker Safety	No.	Rick Cavil, CH2M Hill	Declaration	None.	None.
Facility Design	No.	Doug Wheeler, GWF Energy, LLC.	Declaration	None.	None.

Topic Area	Disputes Between Parties	Applicant Witnesses	Testimony Summary	Direct Testimony Estimate	Cross-Examination of Other Party Witnesses Estimate
Geology & Paleontology	No.	Tom Lae, CH2M Hill; Geoff Spaulding, CH2M Hill	Declaration	None.	None.
Power Plant Efficiency	No.	Doug Wheeler, GWF Energy, LLC.	Declaration	None.	None.
Power Plant Reliability	No.	Doug Wheeler, GWF Energy, LLC.	Declaration	None.	None.
Transmission System Engineering	No.	Hal Moore, GWF Energy, LLC.	Declaration	None.	None.
Alternatives	No.	Jerry Salamy, CH2M Hill	Declaration	None.	None.
General Conditions	No.	None (no exhibits)	Declaration	None.	None.
Various	No.	Jerry Salamy, CH2M Hill	Declaration	None.	None.

### III. APPLICANT'S COMMENTS ON THE FSA

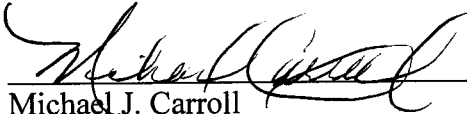
As mentioned above, there are no topic areas that remain disputed or require adjudication. Applicant filed comments on the FSA on November 11, 2009, which identified some relatively minor issues that Applicant anticipates can be resolved with Staff. Applicant also proposed two relatively minor changes to proposed Conditions of Certification, which it believes can be resolved with Staff.

### IV. SCHEDULE

Applicant believes that the evidentiary hearing can be completed on November 30, 2009, as scheduled. Applicant is not aware of any other matter that would affect the proposed schedule.

DATED: November 12, 2009

Respectfully submitted,

  
 Michael J. Carroll  
 LATHAM & WATKINS LLP

**APPENDIX A  
WITNESS QUALIFICATIONS**

Douglas Wheeler  
GWF Power Systems, L.P. / GWF Energy LLC  
Vice President Special Projects

Education

M.S., Chemistry

Relevant Experience

Mr. Wheeler has more than 40 years of experience in the engineering and engineering management in the oil and gas industry. The experience with GWF has included the permitting, engineering, and operations of six petroleum coke plants in California and the licensing of a 98 MW cogeneration facility in Hanford, a 95MW peaker plant in Hanford, a 95 MW peaker in Lemoore, the Henrietta Peaker and a 169 MW peaker in Tracy. In all of the CEC licensing cases, I acted as the Project Manager for GWF.

Representative Projects

**Tracy Combined Cycle Conversion Project, GWF Energy LLC.**

Project Manager for the AFC to convert the GWF Tracy Peaker Project to a combined-cycle facility consisting of two existing GE 7EA natural-gas-fired turbines and the addition of heat recovery steam generators with duct burners, steam turbine generator, air-cooled condenser and associated equipment.

**Hanford and Henrietta Combined Cycle Conversion Projects, GWF Energy LLC.**

Managed the CEC license amendment for the conversion of the GWF Hanford and Henrietta Peaker Projects to combined-cycle facilities each consisting of two existing GE LM6000 natural-gas-fired turbines and the addition of once through steam generators, steam turbine generator, air-cooled condenser and associated equipment.

**Hanford, Henrietta and Tracy Peaker Projects, GWF Energy LLC.**

Managed the preparation of the GWF Hanford and Henrietta (both 2 x GE LM6000) Peaker Projects and Tracy Peaker Project (2 x GE 7EA) AFCs. Supported the electrical interconnection studies for all three projects, including executing all project interconnection contracts.

**GWF Power Systems CFB Plants, GWF Power Systems.**

Overall responsibility for the operation of GWF's six (6) petroleum coke fired circulating fluid bed plants. Responsibilities included both the operational and financial aspects of the project.

# **Hal Moore**

## **GWF Power Systems / GWF Energy LLC**

### **Vice President / Director of Engineering**

#### **Education**

B.S., Mechanical Engineering

#### **Relevant Experience**

Mr. Moore has more than 24 years of experience in the field of engineering, permitting, design, construction, maintenance and operations of electric power and steam generation plants. During this time he has direct experience as a Staff Engineer, Supervising Engineer, Project Manager, Maintenance Manager and Director of Engineering responsible for the execution of engineering, design, construction and start-up for 8 electric power and 2 steam generation plants.

Additionally Mr. Moore has extensive experience directing the engineering efforts required to permit power plants in the California Energy Commission (CEC) Application for Certification (AFC) process; as well as working with PG&E and the CAISO on all aspects of power plant electrical interconnections from the initial study phase through construction, testing and commercial operation.

#### **Representative Projects**

##### **Tracy Combined Cycle Conversion Project, GWF Energy LLC.**

Directed the preparation of the engineering inputs to the AFC for the conversion of the GWF Tracy Peaker Project to a combined-cycle facility consisting of two existing GE 7EA natural-gas-fired turbines and the addition of heat recovery steam generators with duct burners, steam turbine generator, air-cooled condenser and associated equipment.

##### **Hanford and Henrietta Combined Cycle Conversion Projects, GWF Energy LLC.**

Directed the preparation of the engineering inputs to CEC license amendment for the conversion of the GWF Hanford and Henrietta Peaker Projects to combined-cycle facilities each consisting of two existing GE LM6000 natural-gas-fired turbines and the addition of once through steam generators, steam turbine generator, air-cooled condenser and associated equipment.

##### **GWF Power Systems CFB Plants, GWF Energy LLC Peaker Plants.**

Maintenance Manager responsible for all aspects of routine, predictive and shutdown maintenance for GWF's 6 petroleum coke fired circulating fluid bed plants and 3 natural-gas-fired peaker projects. Responsibilities included both the mechanical and electrical departments supporting 7 x 24 hour operations.

##### **Hanford, Henrietta and Tracy Peaker Projects, GWF Energy LLC.**

Managed the engineering, design, construction and start-up of the Hanford (2001), Henrietta (2002) and Tracy (2003) peaker projects. Collaborated with PG&E to use a GWF managed contractor to build the PG&E interconnecting switchyards at Hanford and Tracy.

**Hanford, Henrietta and Tracy Peaker Projects, GWF Energy LLC.**

Managed the preparation of the engineering inputs to the GWF Hanford and Henrietta (both 2 x GE LM6000) Peaker Projects and Tracy Peaker Project (2 x GE 7EA) AFCs. Worked directly with PG&E to complete the electrical interconnection studies for all three projects; including executing all project interconnection contracts.

**GWF Power Systems CFB Plants, GWF Power Systems.**

Maintenance Manager responsible for all aspects of routine, predictive and shutdown maintenance for GWF's 6 petroleum coke fired circulating fluid bed plants. Responsibilities included both the mechanical and electrical departments supporting 7 x 24 hour operations.

**Norco, Frontera and New United Motors Steam Generation Plants, Impell Corporation.**

Engineering Supervisor for a group of eight multi-discipline engineers and designers. Group completed the engineering, design and construction of three steam generation facilities for prisons and an automobile manufacturing facility.

**Sonoma and Vacaville Cogeneration Power Plants, Impell Corporation.**

Project Manager for the engineering and design and construction of two 1.5 MW small power plants. Plants provided electricity to PG&E and steam to a California state hospital and a prison. Responsible for overall plant design (overseeing all engineering disciplines), cycle optimization, equipment specification and selection, construction monitoring including all field testing and plant start-up (including performance testing).

**Camarillo and Chino Combined Cycle Power Plants, Impell Corporation.**

Project Engineer on design team for two 28 MW combined cycle cogeneration plants. Plants provided electricity to SCE and steam to a California state hospital and prison. Performed system design, equipment specification and selection and construction monitoring.



# **Jerry Salamy**

## **Senior Air Quality and Public Health Task Lead**

### **Education**

B.A., Chemistry

### **Relevant Experience**

Mr. Salamy has more than 22 years of experience, including assignments as Project Manager for numerous Applications for Certification (AFC) before the California Energy Commission (CEC). He has prepared numerous Prevention of Significant Deterioration Pre-Construction Air Quality Permit Applications, prepared project permitability studies, assessed industrial facilities compliance with state and federal air pollution rules and regulations, and assisted power plant clients with compliance-related issues.

### **Representative Projects**

**GWF Energy Tracy Combined Cycle Conversion Project, San Joaquin County, California.** Managed the preparation of the AFC, the air quality permit, and AFC Air Quality and Public Health sections for the conversion of an existing peaking plant to a combined-cycle baseload facility consisting of two natural-gas-fired turbines, fired heat recovery steam generators, steam turbine generator, and associated equipment.

**SolarReserve Rice Solar Energy Project.** Managed the preparation of the air quality permit and CEC license amendment Air Quality and Public Health sections for concentrating solar energy facility. The solar energy project included two diesel-fired emergency generators, two diesel-fired fire pumps, a wet surface air cooler, and energy storage commissioning facilities.

**Diamond Generating Mariposa Energy Project.** Managed the preparation of the air quality permit and CEC license amendment Air Quality and Public Health sections for a 200-megawatt peaking power plant. The peaking power plant included four natural gas-fired LM6000 PC combustion turbines, a diesel-fired emergency generator, and a diesel-fired fire pump.

**GWF Energy Hanford and Henrietta Combined Cycle Conversion Projects.** Prepared the air quality permit and CEC license amendment Air Quality and Public Health sections for the conversion of two existing peaking plants to combined-cycle baseload facilities. The combined cycle facilities included two natural-gas-fired turbines, fired heat recovery steam generators, steam turbine generator, and associated equipment.

**Chevron Richmond Power Plant Replacement Project.** Managed the preparation of the AFC, the air quality permit, and AFC Air Quality and Public Health sections for the replacement of steam generating equipment with a new combined cycled cogeneration facility at the Chevron Richmond Refinery. The Replacement project included a natural-gas-fired turbine, fired heat recovery steam generator, and associated equipment.

**AES Highgrove Power Project.** Prepared the air quality permits and AFC for 300-megawatt peaking facility consisting of three natural-gas-fired turbines and associated equipment. The project will employ General Electric's LMS100 combustion turbine generators that integrate

## **Jerry Salamy**

new technology to increase the combustion turbine's efficiency above existing turbine technologies.

**City of Vernon Power Project.** Prepared the air quality permits and AFC for 914-megawatt baseload facility consisting of three natural-gas-fired turbines and associated equipment. The project would employ Siemens Rapid Start combustion turbine generators that integrate new technology to decrease the facilities start up duration over existing turbine baseload technologies.

**Power Plant Licensing and Permitting Program, Calpine Corporation.** Project Manager for several AFCs before the CEC for Calpine's **Delta Energy Center** in Contra Costa County, **East Altamont Energy Center** in Alameda County, **Los Esteros Critical Energy Facility** in Santa Clara County as well as AFCs for three peaking power plants licensed under the CEC's emergency AB970 licensing process. Managed multidisciplinary teams of scientists, planners, and engineers in preparing and filing the license applications, preparing Data Request Responses, attending workshops and providing expert testimony before the licensing hearings. Also prepared preconstruction monitoring plans and provided construction monitoring and compliance services.

**Sutter Power Plant Application for Certification, Calpine Corporation, Yuba City, California.** Managed the preparation of the air quality section of Calpine Corporation's Sutter Power Plant AFC. The air quality analysis required the preparation of an environmental setting for the project site, a criteria and toxic pollutant emission inventory, a best available control technology analysis, and air dispersion modeling. These analyses were used to support the preparation of a Prevention of Significant Deterioration and New Source Review permit applications. These applications were submitted to the EPA's Region IX office and the Feather River Air Quality Management District for the issuance of a construction permits. The scope of work also required the identification of emission reduction credits (ERCs) to support the New Source Review permitting process.

## **Mark Bastasch, P.E., I.N.C.E. Noise Task Lead**

### **Education**

M.S., Environmental Engineering  
B.S. (cum laude), Environmental Engineering

### **Professional Registrations**

Registered Acoustical Engineer: Oregon (No. 58990PE)  
Professional Environmental Engineer: Oregon (No. 58990PE)  
Professional Civil Engineer: Oregon, 1999 (No. 58990PE)  
Certified Water Rights Examiner: Oregon, 2000 (No. 58990WRE)

### **Distinguishing Qualifications**

- Has prepared acoustical analysis or expert testimony for more than 15,000 megawatts (MW) from gas-fired facilities (primarily in California) and more than 5,000 MW from wind generation facilities nationwide
- Specializes in industrial noise measurements, modeling and control for power, industrial, and transportation clients
- Has prepared detailed noise models of numerous power facilities
- Has prepared comprehensive and cost effective compliance reports for several gas-fired power facilities demonstrating that permit conditions were satisfied

### **Relevant Experience**

Mr. Bastasch is a registered acoustical, environmental, and civil engineer with more than 10 years experience conducting acoustical studies. Mr. Bastasch's acoustical experience includes preliminary siting studies, regulatory development and assessments, ambient noise measurements, industrial measurements for model development and compliance purposes, mitigation analysis, and modeling of industrial and transportation noise.

### **Representative Projects**

**GWF Energy Tracy Combined Cycle Conversion Project, San Joaquin County, California.** Authored noise section of California Energy Commission Application for Certification for the conversion of an existing peaking plant to a combined-cycle baseload facility. The combined-cycle facility included two natural-gas-fired turbines, fired heat recovery steam generators, steam turbine generator, and associated equipment.

**GWF Energy Hanford and Henrietta Combined Cycle Conversion Projects.** Authored noise section of California Energy Commission Application for Certification for the conversion of two existing peaking plants to combined-cycle baseload facilities. The combined cycle facilities included two natural-gas-fired turbines, fired heat recovery steam generators, steam turbine generator, and associated equipment.

## **Mark Bastasch, P.E., I.N.C.E.**

**Ivanpah Solar Electric Generating System AFC.** Authored noise section of California Energy Commission Application for Certification. Successfully worked with CEC staff to streamline noise analysis and eliminate unnecessary field studies given remote project site and lack of noise sensitive receptors.

**Licensing and Permitting for San Francisco Electric Reliability Project (SFERP) for San Francisco Public Utilities Commission.** Noise task lead for this controversial power plant. The SFPUC proposed to develop a 145-MW simple-cycle plant in southeast San Francisco, using three LM 6000 turbines. Although construction of another power plant in southeast San Francisco was controversial, it was licensed by the CEC. The plant would be located two blocks south of the existing Portrero Power Plant. Major issues included remediation of the power plant site (contaminated fill); Air Quality mitigation measures; water supply; Environmental Justice; and the need for in-city generation.

**Walnut Energy Center, Turlock Irrigation District, Turlock, California.** Acoustical technical lead for a combined cycle power plant. Tasks included evaluating and measuring background noise levels; development of detailed noise model, comparison of expected noise levels with the City of Turlock, County of Stanislaus, and the California Energy Commission's (CEC) noise guidelines; preparing Application for Certification and subsequent amendments submitted to the CEC; regulatory negotiation; and review of Conditions of Certification. Additional tasks included development assistance with acoustical bid and guarantee specifications and independent analysis of manufacturer steam turbine generator enclosure.

**Calpine GE LM6000 Peaker Program, Calpine Corporation, Dublin, California.** Project manager and acoustical lead for Calpine's Peaker Program. Prepared California Environmental Quality Act level noise assessments for more than 10 LM6000-based peaking power plants located throughout northern California. Developed a flexible and streamlined program to accurately and quickly prepare acoustical assessment. Tasks included regulatory review and interpretation of city and county noise standards, ambient measurements and analysis, development of a standardized model that included several levels of optional mitigation and field verification at operating facilities, and regulatory negotiating.

**Edison Mission Energy's GE LMS100 Peaking Facilities, Southern California.** Acoustical technical lead for two simple cycle power facilities each utilizing 5 GE LMS100 combustion turbines in simple cycle. Tasks included evaluating and measuring background noise levels to determine and evaluate risk associated with potential CEC permit limits; extensive coordination with GE given limited available data resulting from short operating history of the LMS100 (these were the first LMS100 evaluated in California); preparing Application for Certification to the CEC. Additional tasks included development and review of acoustical bid and guarantee specifications for cooling towers, SCR, stack, transformers and other balance of plant equipment.

**Tierra Energy, Eastshore Power Project, Hayward, California.** The proposed facility would be a nominal 115.5 megawatt (MW) simple cycle power plant consisting of 14 Wärtsilä 20V34SG natural gas-fired reciprocating engine generators and associated equipment. As acoustical technical lead for this facility, tasks included evaluating and measuring background noise levels to determine potential CEC permit limits; preparing Application for Certification to the CEC. Review of available vendor data and commitments.

## **Mark Bastasch, P.E., I.N.C.E.**

**Pacific Gas & Electric, Humboldt Bay Repowering Project, Humboldt, California.** The proposed facility will be a load following power plant consisting of 10 natural gas-fired Wärtsilä 18V50DF 16.3 megawatt (MW) reciprocating engine-generator sets and associated equipment with a combined nominal generating capacity of 163 MW. As acoustical permitting lead for this facility, tasks included evaluating and measuring background noise levels to determine and evaluate risk associated with potential CEC permit limits; preparation of Application for Certification to the CEC, conducting site tour with CEC's acoustical staff and review of existing EPC commitments.

# **Loren Bloomberg, P.E.**

## **Traffic and Transportation Task Lead**

### **Education**

M.E., Civil Engineering  
M.S., Civil Engineering  
B.S., Systems Engineering

### **Professional Registrations**

Professional Engineer: California (2000, No. 2060)

### **Distinguishing Qualifications**

- Experienced in practical and theoretical applications of traffic operations, particularly for freeways, arterials, and ramp metering
- Broad background in transportation planning, conceptual design, and transportation systems analysis
- Expert in traffic simulation modeling
- More than 18 years of experience, including transportation modeling and analysis for local areas, corridors, and entire regions

### **Relevant Experience**

Mr. Bloomberg is a senior traffic engineer and transportation planner with more than 18 years of experience who has led or played a key role in numerous large-scale planning and operations analyses. He has conducted studies and developed plans for local areas, corridors, and entire regions (including roadways, maritime facilities, and airports).

Mr. Bloomberg's technical expertise is in simulation modeling and traffic operations, with a particular focus on conceptual engineering and traffic analysis. He is often called upon as a technical expert for CH2M HILL's modeling projects and is known as a project manager for his ability to complete traffic analyses accurately and efficiently while meeting client requirements. He is also an expert in the application of Context Sensitive Solutions (CSS), with successful project applications on a wide range of feasibility studies and preliminary engineering, and has taught CSS to over 400 agency staff across the U.S. Mr. Bloomberg is a member of the Highway Capacity Committee of the Transportation Research Board, the international group of 30 professionals charged with developing and maintaining the *Highway Capacity Manual*.

### **Representative Projects**

**Task Lead, GWF Energy Tracy Combined Cycle Conversion Project, San Joaquin County, California.** As Traffic and Transportation task lead for analysis of the conversion of an existing peaking plant to a combined-cycle baseload facility, prepared the traffic and transportation analysis section of the Application for Certification. The analysis focused on construction-related impacts to traffic operations, construction workers, truck trips, and transport of hazardous materials. Also assessed impacts to freeways, ramps, and local streets.

## **Loren Bloomberg, P.E.**

**Task Lead, Chula Vista Energy Upgrade Project, MMC Energy, San Diego County, California.** Traffic and Transportation Task Lead. Prepared the traffic and transportation analysis section of the Application for Certification.

**Task Lead, Eastshore Energy Center, Hayward, California.** Traffic lead for the Application for Certification for a new 115.5-megawatt intermediate/peaking load facility. Led the assessment of the traffic and transportation impacts associated with the construction and operation of the facility. Assessed traffic operations impacts, transport of hazardous materials and public safety. Developed strategic approach for the Transportation Management Plan, and represented the applicant (for transportation issues) at California Energy Commission meetings.

**Project Engineer, Walnut Energy Center Traffic Control and Implementation Plan (TCIP), Turlock, California.** Developed the traffic control plan for the utility (potable and recycled water) lines for the Walnut Energy Center in Turlock, California. The TCIP addressed the mitigation of traffic impacts to the existing transportation facilities to satisfy the requirements of the California Energy Commission Conditions of Certification.

**Traffic Task Lead, San Francisco Energy Reliability Project, San Francisco, California.** Was the task lead for traffic for completing the traffic and transportation section of the Application for Certification, a process similar to an EIR. The project is an energy plant in San Francisco, and traffic impacts focused on the construction activities.

**Traffic Control Task Lead, Metcalf Energy Center Offsite Utilities, San Jose, California.** Task lead for traffic control. As part of a fast-track, design-build effort to design and construct linear facilities (recycled water, sewer, and potable water) to support a new energy center, led the traffic control task for the project. Developed plans to support two pipeline alignments through 6 to 10 miles of urban streets. Worked with local agencies to develop a transportation management plan (TMP) to support agency requirements and maintain construction schedules.

**Project Manager, Corridor System Management Plans (CSMPs), California.** Project manager on two separate Caltrans contracts to develop CSMPs for freeway corridors throughout the state. CH2M HILL has the primary responsibility for modeling and analysis on three separate corridors: approximately 40 miles of I-5 near Los Angeles, approximately 35 miles of I-10 between Ontario and Beaumont, and approximately 23 miles of US 50 east of Sacramento. CH2M HILL is developing baseline travel demand and simulation models, coordinating data collection efforts, calibrating models, and evaluating proposed corridor strategies.

**Technical Lead, SR-94 PA-ED and PSR(PDS), San Diego, California.** Traffic and alternatives analysis lead on a successful fast-track effort to complete a PSR (PDS) for SR-94. Was the lead architect of the alternatives evaluation process, applying a Context Sensitive Solutions (CSS) process. Led a multi-disciplinary stakeholder team to identify issues and objectives, build an evaluation framework, and develop and screen alternatives. Played a key role in developing the purpose and need, working directly with Caltrans environmental staff. Worked with the design team to develop and refine alternatives, including Bus Rapid Transit (BRT), high occupancy vehicle (HOV) lanes, and interchange modifications (including ramp relocations and braided ramps). Led the traffic analysis to support the PSR

## **Loren Bloomberg, P.E.**

(PDS). For the PA-ED, leading alternatives analysis, coordination with the environmental team (including preliminary evaluation and the purpose and need statement), and stakeholder coordination.



# **Marjorie Eisert**

## **Biological Resources Task Lead**

### **Education**

B.S., Wildlife and Fisheries Biology

### **Relevant Experience**

Ms. Eisert is a senior wildlife biologist with over 20 years of experience working on applied environmental problems in terrestrial habitats. Ms. Eisert's duties include performing general and special-status wildlife surveys and census techniques, and she has conducted studies in California, Nevada, Oregon, Washington, and Alaska. Her expertise includes knowledge of invertebrate and vertebrate natural history; handling and restraint of herpetile, bird, and mammalian species; experience with vertebrate and invertebrate collection methodologies and techniques; and identification of herpetile, bird, and mammalian species.

### **Representative Projects**

**Project Biologist, GWF Energy Tracy Combined Cycle Conversion Project, San Joaquin County, California.** Provided senior biological oversight for the AFC Biological Resources section for the conversion of an existing peaking plant to a combined-cycle baseload facility consisting of two natural-gas-fired turbines, fired heat recovery steam generators, steam turbine generator, and associated equipment.

**Task Manager, Application for Certification (AFC) of Walnut Energy Center, City of Industry, California.** Task Manager for biological resource impact analysis and document section of AFC. Performed threatened and endangered species surveys, literature search, and wildlife impact evaluation for proposed electric power plant, recycled water supply line, natural gas pipeline route, and electric transmission line connections. Prepared the biological resources section of the AFC and performed informal consultations for sensitive biological resources with U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, and the California Department of Fish and Game.

**Task Manager/Project Biologist, Site Certification, COB Energy Facility, Oregon.** Evaluated ecological resources including wetlands and threatened and endangered species for the development of a 46-acre project site and associated transmission, gas, and water utility lines. Conducted bald eagle and amphibian surveys as well as general reconnaissance of the project vicinity. Prepared the biological resources sections of the site certification application and coordinated Section 7 consultation with the U.S. Fish and Wildlife Service as well as consult with the Oregon Department of Fish and Game and the Bureau of Land Management.

**Senior Biologist, Application for Certification (AFC) of Sun Valley Energy Center, Riverside County, California.** Performed threatened and endangered species surveys and wildlife impact evaluation for proposed electric power plant, recycled water supply line, natural gas pipeline route, and electric transmission line connections. Provided senior biological review for the biological resources section of the AFC.

## **Marjorie Eisert**

Senior Biologist, Application for Certification (AFC) of City of Vernon, California. Provide senior biological review of the biological resource impact analysis and document section of AFC. Coordinated consultation with resource agencies (U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, and the California Department of Fish and Game) and the project biologist.

**Project Manager, Travis Air Force Base On-call Biological Services.** Project management. For 3 years, Ms. Eisert has been the project manager of the on-call services contract for Travis Air Force Base. She provides oversight and technical guidance for a broad range of services for more than 9 current Base projects including threatened and endangered species surveys, cultural resources surveys and historic property surveys, Integrated Natural Resources Management Plan and Integrated Cultural Resources Management Plan development, Urban Forestry Management Plan development, and Section 7 consultation with the USFWS and Section 404 Permitting with the USACE. Responsible for managing budget, schedule, staffing, and quality of deliverables for these projects ranging from less than \$20,000 to over \$200,000. Ms. Eisert provides senior review for preparation of CEQA/NEPA documents, Biological Assessments and Section 7 consultations with FWS, and provides strategy and support for Travis AFB's current natural resource management and permitting efforts with numerous agencies, including USFWS, RWQCB, SHPO, and USACE.

**Project Manager, PG&E L406/L407 Yolo Pipeline.** Project manager for environmental services throughout planning, design, and construction of a 44-mile natural gas pipeline from the town of Yolo to the City of Roseville. Managing preparation of environmental documents for CEQA preparation by the State Lands commission; permitting including Regional Water Quality Control Board, State Reclamation Board, and Section 7 consultation for the giant garter snake and vernal pool branchiopods; and USACE coordination under the Clean Water Act. Conducted resource analyses (biology, geology, land use) of several route alternatives. Ms. Eisert is working closely with PG&E's engineering, gas transmission, environmental planning, biology staff, and subcontractors to bring in all phases of this project successfully within their current time frames.

**Field Team Leader, Confirmatory Sampling and Ecological Risk Assessment, Bolsa Chica Lowlands, Orange County, California.** Field Team Leader for field investigations of surface water, sediment, surface and subsurface soil, and aquatic and terrestrial biota. Sample management responsibilities included implementation of an in-house sample tracking system and laboratory coordination for sample analysis and shipping. The focus of this ongoing project for the U.S. Fish and Wildlife Service is to conduct sampling and to perform an ecological risk assessment for the 1,200-acre Bolsa Chica Lowlands.

**Project Manager, Biological Monitoring Program, Kesterson Reservoir, Central San Joaquin Valley, California.** Manage and conduct bird surveys, San Joaquin kit fox surveys, small mammal trapping, invertebrate and plant sample collection as part of the ongoing U.S. Bureau of Reclamation Biological Monitoring Program at Kesterson Reservoir. Present results of the monitoring in an annual report that is used to determine risks to wildlife and the success or failure of cleanup procedures at the Reservoir.

**Project Biologist, Chevron Richmond Refinery, Richmond, California.** Performed surveys of shorebirds nesting in constructed wetlands at a constructed wetland at a Chevron

## **Marjorie Eisert**

refinery in Richmond. Conducted nest searches, monitoring of incubating eggs, collection of egg samples, and collection of fail-to-hatch and predated eggs. Data on selenium and mercury bioaccumulation were used with survey results to develop a management plan for the wetlands.

**Project Biologist, Ecological Risk Assessment, Weapons Support Facility, Seal Beach, California.** Collected mammal, fish, invertebrate, and plant samples for assessment of toxicity and exposure, and evaluation of potential stratum-specific risks to potential receptors.

**Project Biologist, Ecological Risk Assessment, Marine Corps Base Camp Pendleton, California.** Conducted bird surveys, small mammal trapping, invertebrate and plant sample collections to identify potential contaminant exposure routes. Conducted endangered species surveys for a biological assessment for site remediation on the base. Assisted in the preparation of a basewide ecological risk assessment for selected sites at Marine Corps Base Camp Pendleton in California, including modeling food chain bioaccumulation of selected metals and pesticides, developing preliminary remediation goals for ecological receptors, and evaluating potential risks to plants, invertebrates, mammals, birds, and fish.

# **Matt Franck**

## **Water Resources Senior Technical Reviewer**

### **Education**

B.S., Environmental Policy Analysis and Planning

### **Distinguishing Qualifications**

- Conducted environmental studies throughout California, Oregon, and Washington
- Experienced in preparing environmental documents to fulfill CEQA, NEPA, and other resource agency requirements

### **Relevant Experience**

Mr. Franck has 19 years of experience in managing and writing environmental impact assessment documents in compliance with NEPA and CEQA. He also coordinates local, state, and federal regulatory processes. Mr. Franck's education and multidisciplinary experience, as well as his expertise in land use and resource planning, provide a solid background for evaluating complex environmental policy issues.

### **Representative Projects**

**GWF Energy Tracy Combined Cycle Conversion Project, San Joaquin County, California.** Senior Technical Reviewer for Water Resources. Assisted in the preparation of a Water Resources analysis as a Senior Technical Reviewer. Project updated an existing peaking plant to a combined-cycle facility. Key water resources issues of concern included availability of groundwater for the thermal facility and the disturbance to hydrology and water quality.

**Ivanpah Solar Electric Generating System, Bright Source Energy, Inc.** Senior Technical Reviewer for Water Resources. Assisted in the preparation of a Water Resources analysis as a Senior Technical Reviewer. Project is a concentrated solar thermal facility proposed on 1,843 acres of land in the Mojave Desert. Key water resources issues of concern included availability of groundwater for the thermal facility and the disturbance to hydrology from the large construction site.

**Humboldt Bay Repowering Project, PG&E.** Task Manager for Water Resources. Prepared Water Resources analysis for a project to repower the existing Humboldt Bay Power Plant south of Eureka, California, using ten natural gas powered reciprocating engine generators. Key water resources issues of concern included stormwater quality to an extended detention basin, process wastewater discharges to a municipal system, and the decrease in lagoon flows because of reduced use of the existing once-through cooling system.

**San Francisco Electric Reliability Project, Public Utilities District for the City and County of San Francisco, California.** Task Manager for the preparation of the Water Resources section of this Application for Certification, a California Energy Commission process that is functionally equivalent to CEQA. The CEQA-equivalent evaluation is focuses on water, wastewater, and stormwater generation and use by the proposed facility in the context of Citywide compliance with the federal Clean Water Act and state Porter-Cologne Water Quality Control Act. Work efforts included testimony at evidentiary hearings.

## **Matt Franck**

**AFCs for Walnut Creek Energy Park and Sun Valley Energy Project, Edison Mission Energy, City of Industry/Romoland, California.** Provided support for two Applications for Certification before the California Energy Commission for similarly designed 500-MW natural gas-fired peaking power plants using the GE LMS100 advanced gas turbine technology. These applications were prepared in parallel and were filed at the Energy Commission within one week of one another. The AFCs were filed in December of 2005 and the projects are scheduled to begin construction in 2007.

**Carlsbad Energy Center Project, NRG, Inc.** Task Manager for Water Resources. Prepared Water Resources analysis for a project to repower the existing Encina Power Station in Carlsbad, California, using natural gas turbines. Project involved the use of reclaimed water from the nearby wastewater treatment plant, with an alternative source to use desalinated seawater. Key issues included marine impacts from seawater intake, brine disposal, and the capacity of the existing reclaimed water distribution system.

**Lompoc Wind Energy Project, Pacific Renewable Energy Generation, LLC.** Task Manager for Water Resources. Prepared Water Resources analysis for a project to install 60-80 wind turbines and ancillary facilities on 2,950 acres in Santa Barbara County, California. Key water resources issues of concern included disturbance to onsite water resources from the large extent of construction activities, stormwater quality control, and development of an onsite facilities (including a well and septic system) for the operations units.

**Eastshore Energy Project, Tierra Energy, Inc.** Task Manager for Water Resources. Prepared Water Resources analysis for a new natural gas power plant in Hayward, California, using fourteen reciprocating engine generators. Key water resources issues of concern included the development of structural features for onsite stormwater quality control, and process wastewater discharges to a municipal system.

**Vernon Power Plant, City of Vernon.** Task Manager for Water Resources. Prepared Water Resources analysis for a new natural gas power plant in Vernon, California, using three gas-fired turbines and one steam turbine. The project would redevelop an existing industrial site in this highly industrial community. Key water resources issues of concern included calculating drainage credits based on changes to the existing site drainage patterns, stormwater quality control during construction and operation, availability of recycled water, and the quantity and quality of wastewater discharges.

**Westley-Marshall Substation and Transmission Line Project, Turlock Irrigation District.** Task Manager for Water Resources. Prepared Water Resources analysis for a transmission line project (approximately 12 miles) in rural Stanislaus County, California. The project also involved nine potential substation sites. Key water resources issues of concern included floodplain risks and stormwater quality control during construction.

**South Bay Replacement Project, LS Power Generation, LLC.** Task Manager for Water Resources. Prepared Water Resources analysis for a project to repower the existing South Bay Power Plant in Chula Vista, California, using two natural gas turbines and one steam turbine. Project would result in the abandonment of the existing once-through cooling system used at the existing power plant. Key water resources issues of concern included stormwater quality during construction and plant operations and wastewater discharges (quantity and quality).

# **Clint Helton, RPA**

## **Cultural Resources Task Lead**

### **Education**

M.A., Anthropology  
B.A., Language and Literature

### **Professional Registration**

Registered Professional Archaeologist (1999, No. 11280)

### **Distinguishing Qualifications**

- Strong background in environmental impact evaluations, with particular expertise in conducting cultural resources studies in California, Colorado, Idaho, Nevada, Utah, and Wyoming
- Has 13 years of environmental management experience in the western U.S.
- Meets Secretary of Interior Professional Qualification Standards (36 CFR 61)
- Highly experienced managing cultural resources studies for large linear transportation and utility projects to meet requirements of National Environmental Policy Act (NEPA), National Historic Preservation Act (NHPA), California Environmental Quality Act (CEQA), and standards of the California Energy Commission (CEC), and Federal Energy Regulatory Commission (FERC)

### **Relevant Experience**

Mr. Helton is an environmental consultant with more than 13 years of environmental management experience in the western United States. He has a strong background in environmental impact evaluations, having directed technical studies; negotiated with lead agencies, responsible agencies, and clients; and written, edited, and produced a substantial number of environmental review and technical documents. Mr. Helton has extensive experience of regulatory compliance, cultural and paleontological resources, NEPA and NHPA compliance activities, and federal regulations governing treatment of cultural resources, especially Section 106 of NHPA (36CFR800) and the Native American Graves Protection and Repatriation Act (NAGPRA) (43CFR10). Additionally, Mr. Helton is experienced with the challenges of preparing environmental documentation for large linear utility projects, including large interstate pipelines and is familiar with the process and guidelines of CEC and FERC among others. Mr. Helton has authored numerous environmental technical reports, cultural resources management plans, cultural resources studies, Programmatic Agreements, and Memorandums of Understanding (MOU) and contributed to many NEPA and CEQA documents for a variety of private and public sector clients.

### **Representative Projects**

**Task Manager, GWF Energy Tracy Combined Cycle Conversion Project, San Joaquin County, California.** Task Lead and overall management of cultural resources studies for this conversion of an existing peaking plant to a combined-cycle baseload facility in San

## **Clint Helton, RPA**

Joaquin County, California. Responsible for preparation of cultural resources component of project, including field surveys, report preparation, and conducting Native American consultation.

**Task Manager, BrightSource Energy, Ivanpah Solar Electric Generating System Project, San Bernardino County, California.** Assisted with preparation of Application For Certification for California Energy Commission in support of a large proposed solar power generation facility covering over 4,000 acres of land managed by Bureau of Land Management in San Bernardino County, California. Responsible for preparation of cultural resources component of project, including archival research, field surveys, report preparation, and conducting Native American consultation.

**Task Manager, Terra-Gen LLC Alta Wind Project, Kern County, California.** Task Lead, quality control manager, and overall management of cultural resources studies for this 5,000-acre-plus alternative energy development project near the City of Tehachapi, Kern County, California. Provide regulatory guidance, regional technical expertise in cultural resources and coordination with Kern County. Supervised inventory for cultural resources, technical report preparation, and conducted Native American Consultation.

**Task Manager, Iberdrola Renewables, Multiple Solar Energy Development Projects, Arizona, California, New Mexico, Nevada.** Led preparation of cultural resources assessments for solar power generation facilities in Arizona, New Mexico, Nevada, and California. Mr. Helton is acting as principal investigator for several critical issues analyses as well as full permit preparation of solar energy development projects in Arizona, California, Nevada, and New Mexico. Project acreages range from 5,800 acres to 35,000 acres.

**Task Manager, PPM Energy, Solar Energy Development, Arizona, Nevada, California.** Cultural resources assessments for solar power generation facilities in Arizona, Nevada, and California. Mr. Helton is acting as principal investigator for literature searches and field visits for several proposed solar energy projects in Arizona, California, and Nevada. Project acreages range from 2,000 acres to 25,000 acres.

**Task Manager, Edison Mission Energy, Walnut Creek Energy Park Power Plant, California.** Assisted with preparation of Application for Certification for California Energy Commission in support of this proposed 500-MW power generation facility in Los Angeles County, California. Responsible for preparation of cultural resources component of project, including field surveys, report preparation, and conducting Native American consultation.

**Task Manager, Edison Mission Energy, Sun Valley Energy Center Power Plant, California.** Assisted with preparation of Application for Certification for California Energy Commission in support of this proposed 500-MW power generation facility in San Bernardino County, California. Responsible for preparation of cultural resources component of project, including field surveys, report preparation, and conducting Native American consultation.

**Task Manager, Chula Vista Energy Upgrade Project, MMC Energy, San Diego County, California.** Task Lead and overall management of cultural resources studies for this 100-MW power plant upgrade project in San Diego County, California. Responsible for

## **Clint Helton, RPA**

preparation of cultural resources component of project, including field surveys, report preparation, and conducting Native American consultation.



# **Joshua Hohn**

## **Visual Resources Task Lead**

### **Education**

M.C.P., Land Use Planning, Department of City and Regional Planning, University of California, Berkeley, 2003

M.A., Information and Communication Studies, California State University, Chico, 1997

B.A., Public Administration, California State University, Chico, 1994

### **Professional Registrations**

American Institute of Certified Planners (2006, Certified Planner No. 020889)

### **Distinguishing Qualifications**

- Seven years of experience in land use and community planning
- Expertise in visual impact analyses and issues related to aesthetic environment, particularly with siting and licensing of energy/utility facilities and infrastructure
- Experience in the production of Solar Energy Plans of Development (POD), comprehensive planning documents used in the development of solar energy facilities on lands administered by the Bureau of Land Management (BLM)
- Experience in preparing California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) documents, including experience as Project Manager for Environmental Impact Reports (EIR)
- M.C.P. coursework focused on sustainability and sustainable land use planning, including concurrent research fellowship through the Sustainable Communities Leadership Program

### **Relevant Experience**

Mr. Hohn is a visual planner and conducts analyses of visual effects resulting from implementation of proposed projects while managing field visits, site photography, and tasks related to production of maps, photo-simulations, and other computer-generated graphics. As part of the Industrial Services Business Group, Mr. Hohn's visual planning work currently focuses on renewable energy projects (namely solar and wind power projects) and more traditional gas-fired power plant and related transmission line projects and Applications for Certification. He has also conducted visual impact analyses related to water treatment facilities, federal dam relicensing applications, oil refinery plant expansions, residential developments and Bureau of Land Management Resource Management Plans.

As an associate planner, Mr. Hohn assists in the preparation of analyses, applications, and planning documents related to the siting and licensing of utility/energy facilities and infrastructure. Documents prepared include opportunities and constraints reports, fatal flaws analyses, and comprehensive plans that serve as the primary focus of application and certification processes. These efforts are ongoing and in the service of confidential clients.

# Joshua Hohn

## Representative Projects

**Primary Author, California Energy Commission (CEC) Applications for Certification (AFC) / AFC Amendments.** Primary author of visual impact analyses for proposed new power plant facilities, power plant expansions, and the conversion of single-cycle power plants to combined-cycle facilities. Coordinated efforts with clients and CEC staff to structure approach, organized field visits, and oversaw the production of associated graphics, including photo-simulations. Identified potentially sensitive visual receptors and project-appropriate mitigation measures. Methodology employed in assessment for AFCs and AFC Amendments was consistent with CEQA requirements.

**Visual Analyst, Wind Energy Facility – Photosimulations for Proposed Project, Confidential Client.** Coordinated production of set of photo-simulations for a proposed wind farm facility. Working with a set of views provided by client, selected Key Observation Points (KOPs) based on analysis of potentially sensitive visual receptors. Final deliverable also included “view cone” figures, indicating on an aerial graphic which exact simulated objects would be visible in the simulated view.

**Visual Analyst, Transmission Line Reconductoring, Confidential Client.** Documented visual changes likely to result from proposed reconductoring of an existing 230-kilovolt (kV) transmission line. Coordinated field visit during which existing conditions were documented and KOP locations selected based on the presence of potentially sensitive visual receptors relative to the transmission line.

**Project Planner, Solar Siting Plan of Development, Confidential Client.** Coordinated production of document detailing proposed 700-megawatt solar energy facility. Plan of Development was consistent with Bureau of Land Management format.

**Project Planner, Opportunities and Constraints Analysis for Linear Transmission Project, Confidential Client.** Conducted analysis of potential opportunities and constraints specific to utilities and transmission facilities proposed for a multi-state route. Analysis addressed federally managed lands.

**Project Planner, Critical Issues Report and Response to Request for Offers, Confidential Client.** Managed the assembly of a Critical Issues Report that examined potential constraints and other environmental factors at the proposed project site, and a response to a Request for Offers, which was submitted by the client to an energy utility as part of the application process.

# Thomas Lae, P.G.

## Geologic Hazards and Resources Task Lead

### Education

B.S., Geology

### Professional Registration

State of California Professional Geologist, License No. 7099

### Relevant Experience

Mr. Lae has more than 18 years of experience in environmental geology and project management and is a California Professional Geologist. Mr. Lae works on numerous projects for a variety of private, federal, and municipal clients and has an extensive background in environmental field investigations. Projects include: geologic hazards and resources section preparer for numerous power plant licensing projects, Superfund site investigation oversight, remedial investigations/feasibility studies, underground storage tank/oil water separator closures, landfill groundwater monitoring, and phase II environmental assessments.

### Representative Projects

**GWF Energy Tracy Combined Cycle Conversion Project, San Joaquin County, California.** Authored Geologic Hazards and Resources section of California Energy Commission Application for Certification for the conversion of an existing peaking plant to a combined-cycle baseload facility. The combined-cycle facility included two natural-gas-fired turbines, fired heat recovery steam generators, steam turbine generator, and associated equipment.

**Electrical Power Plant Application for Certification section preparer.** Mr. Lae has prepared Geologic Hazards and Resources sections for 22 AFCs. These include East Altamont Energy Center (Calpine), Central Valley Energy Center (Calpine), Los Esteros Energy Center (Calpine), Cosumnes Power Plant (SMUD), Woodland II (Modesto Irrigation District), Modesto Electric Generation Station (Modesto Irrigation District), Walnut Energy Center (Turlock Irrigation District), San Francisco Electrical Reliability Project (San Francisco Public Utilities Commission), Highgrove (AES Pacific), Walnut Creek Energy Project (Edison Mission Energy), Sun Valley Energy Project (Edison Mission Energy), Eastshore Energy Project (Tierra), South Bay Energy Facility (Duke), Chevron Richmond Power Plant Replacement Project SPPE, Ivanpah Solar Electric Generating System (Bright Source Energy), Carlsbad Energy Center Project (NRG), Tracy Power Plant (GWF), Vacaville Energy Center (Competitive Power Ventures), Lodi Energy Center (NCPA), Contra Costa Generating Station (Radback Energy), and Mariposa Energy Project (DGC). Mr. Lae is well versed in the assessment of geologic resources and hazards relating to CEQA and NEPA requirements.

**California Energy Commission Hazardous Waste Remediation Oversight.** A part of the PG&E Gateway Generating Station construction (Antioch, California) and Colusa Generating Station (Colusa, California), Mr. Lae served as the project's on-call Professional Geologist. His duties included the coordination of sampling, characterization, and

## **Thomas Lae, P.G.**

remediation of hazardous waste materials (asbestos, PCBs, and/or TPH) encountered during plant excavation activities. Mr. Lae provided summary reports upon completion of remedial activities for submittal to the CEC.

**Superfund Site Investigation Oversight.** CH2M HILL provides oversight support to the USEPA for six task orders, with Mr. Lae serving as project manager. This project involves the review and comment of reports, white papers, technical memoranda, and studies that are submitted for regulatory review. This facility that has been impacted by solvent, fuel, propellant, and metals contamination in soil, soil gas, and groundwater.

**Union Pacific Railroad.** Mr. Lae serves as the project manager for four UPRR projects that include: a groundwater and soil TPH investigation at a former UST site (Donner Summit UST); and an arsenic in soil assessment at a Right of Way (Clyde, California). Mr. Lae successfully received regulatory closure including a TPH in soil site at Right of Way (Chico, California), and nitrogen contamination in onsite soils (Willows, California).

**Groundwater Study/Well Decommissioning.** Mr. Lae served as the project manager for TO 467 at Beale AFB. This project involved the installation of groundwater monitoring wells and the collection of groundwater samples to assess the effects of potential impact to the underlying groundwater from a retention pond that receives treated waste water. In addition, this project required the destruction of several former water/agricultural supply wells at the base per County and State destruction protocol.

**Soil Vapor Extraction System Termination.** Mr. Lae served as the project manager for the IC27 STOP project at the former McClellan AFB. This project involved the collection of soil gas samples and the preparation of report documentation to support the SVE system termination (closure). The project successfully met regulatory criteria and system termination was granted. The project also required the decommissioning of the system wells and conveyance pipelines.

**Superfund Site Investigations.** Mr. Lae serves as the project manager for the Lava Cap Mine site in Nevada City, California. This project is a site that has been affected by arsenic contamination from past gold mine processing and is undergoing Feasibility Study evaluations for remedial alternatives.

**Oil/Water Separator Closure Investigation.** Mr. Lae served as the project manager for three projects at Beale AFB in the evaluation for regulatory closure of 25 former oil/water separators across Beale. The project included the assessment of environmental impacts to underlying soil and groundwater from past releases and preparing closure documentation. Mr. Lae has successfully received closure of 23 OWSs. Two OWSs are undergoing biovent remediation prior to closure.

**Groundwater Monitoring, City of Roseville, California.** Mr. Lae serves as the project manager for the Annual and Semi-Annual groundwater reports for the former sanitary landfill. Duties included planning sampling events, evaluation of laboratory data, preparation of graphics and tabular data, and report writing. Mr. Lae also supports landfill gas studies at the site.



# Steve Long

## Soils Task Lead

### Education

M.S., Soil Science

B.S., Forest Resources

### Relevant Experience

With over 20 years of professional experience as an environmental scientist, Mr. Long is responsible for a wide range of tasks associated with natural resource and hydrogeologic environmental evaluations and permitting. Duties include permit planning, preparation, and consultation with resource agencies, as well as supervision of field data collection, interpretation, and report preparation for contaminant and environmental quality assessments. Has participated in numerous investigations and risk assessments for terrestrial, aquatic, and stormwater pathway impacts for Superfund and Department of Defense projects.

Hydrogeological investigations experience includes in-field testing of soil, soil gas and groundwater samples using portable gas chromatograph; in-situ aquifer permeability testing; and monitoring subsurface explorations and installations (monitoring wells, piezometers and vapor extraction systems). Remediation experience includes managing bioventing systems and supervising site clean-ups. Strong skills in environmental sampling and testing.

Natural resource experience includes evaluations of wetland, riparian, forest, and agricultural systems. Duties have included delineation and documentation of wetlands by federal and state criteria in California, Nevada, Washington, Connecticut, Massachusetts, New York, New Hampshire, and Maine; evaluation of project constraints and development of alternate strategies for local, state, and federal permitting. Strong skills in soil description and taxonomic classification, vegetation, and insects; permitting of wetland activities; and statistical data analyses.

### Representative Projects

**GWF Energy Tracy Combined Cycle Conversion Project, San Joaquin County, California.** Provided senior review for AFC section that assessed potential impacts to soil and agricultural resources for the proposed power plant project and transmission line. Assisted with project compliance by documenting contact with California Department of Fish and Game biologists to communicate plan for pre-construction surveys for San Joaquin kit fox, western burrowing owls, and raptors.

**Ivanpah Solar Electric Generating System, San Bernardino County, California.** Provided senior review for AFC section that assessed potential impacts to soil and agricultural resources for the proposed power plant project which encompassed approximately 3,800 acres in the Mojave Desert. Provided additional support for wind and water soil loss estimates used to estimate needs for construction water use and maintenance of detention pond facilities.

**Chula Vista Energy Upgrade Project, MMC Energy, San Diego County, California.** Prepared CEQA-equivalent documentation to support an Application for Certifications (AFC) for review by the California Energy Commission. Prepared AFC section that assessed potential impacts to soil and agricultural resources for the proposed power plant projects

## Steve Long

This documentation included a summary of applicable laws, ordinances, and regulations (LORS), estimates of soil losses from wind and water erosion during construction, and agencies contacts.

**Humboldt Bay Replacement Project, PG&E.** Planned and executed the Phase II ESA using staff from a minority owned 'mentor-protégé' firm. Prepared the Phase II ESA cost proposal and work plan. Coordinated the field sampling activities and prepared the report. Met with client and regulator from the North Coast Regional Water Quality Board, where we garnered approval for our final recommended site investigation tasks to complete the Phase II ESA. Provided senior review for AFC section that assessed potential impacts to soil and agricultural resources for the proposed power plant project.

**South Bay Replacement Project, LS Power.** Prepared CEQA-equivalent documentation to support an Application for Certifications (AFC) for review by the California Energy Commission. Prepared AFC section that assessed potential impacts to soil and agricultural resources for the proposed power plant projects including all linear features (transmission lines, water supply and discharge lines, and natural gas supply lines). Also prepared section for waste management that described demolition, construction, and operation waste streams. This documentation included summaries of applicable laws, ordinances, and regulations (LORS) and agencies contacts. It also included estimates of soil losses from wind and water erosion during construction and mitigation and management strategies.

**Eastshore Energy Center, Tierra.** Prepared CEQA-equivalent documentation to support an Application for Certifications (AFC) for review by the California Energy Commission. Prepared AFC section that assessed potential impacts to soil and agricultural resources for the proposed power plant projects including all linear features (transmission lines, water supply and discharge lines, and natural gas supply lines). This documentation also included a summary of applicable laws, ordinances, and regulations (LORS), estimates of soil losses from water erosion during construction, and agencies contacts.

**Application for Certification, Los Esteros Critical Energy Facility, Calpine C\*Power, San Jose, California.** Prepared Biological Resources Mitigation and Monitoring Plan (BRMIMP) for the Los Esteros Critical Energy Facility. Also documented the extent of jurisdictional waters of the U.S. at a stormwater outfall along Coyote Creek. Prepared a Low Effect Habitat Conservation Plan for the Phase II Facility. This plan was submitted for Section 10 consultation with the U.S. Fish and Wildlife Service to secure an incidental take permit for Bay Checkerspot butterfly and to offset potential impacts to four endemic serpentine plants under the Endangered Species.

**Application for Certification, East Altamont Energy Center, Calpine Corp., Tracy, California.** Prepared CEQA-equivalent documentation to support an Application for Certifications (AFC) for review by the California Energy Commission. Prepared AFC section that assessed potential impacts to soil and agricultural resources for the proposed power plant projects including all linear features (transmission lines, water supply and discharge lines, and natural gas supply lines). This documentation also included a summary of applicable laws, ordinances, and regulations (LORS), estimates of soil losses from wind and water erosion during construction, and agencies contacts. Additionally, conducted field investigations to assess wetlands in proximity to linear routes for the East Altamont Energy Center.



# **Sarah Madams**

## **Hazardous Materials Handling and Waste Management Task Lead**

### **Education**

B.S., Environmental Toxicology

### **Relevant Experience**

Ms. Madams has more than 11 years of professional experience including project management, regulatory compliance, permitting, public involvement/community relations, data collection and analysis, database management, compliance audits, document preparation, and technical writing. For the last 6 years, Ms. Madams has served as the Deputy Project Manager for power plant licensing work performed by CH2M HILL, and is serving as the Project Manager for the Lodi Energy Center and the Almond 2 Power Plant. Her expertise includes working with multidisciplinary teams to assess the environmental impacts of power plant projects on the environment. These assessments include impacts to air, biological and cultural resources, land uses, noise, socioeconomics, public health, water and visual resources, soils and geology, and paleontology.

### **Representative Projects**

**GWF Energy Tracy Combined Cycle Conversion Project, San Joaquin County, California.** Prepared the AFC Hazardous Materials and Waste Management sections for the conversion of an existing peaking plant to a combined-cycle baseload facility consisting of two natural-gas-fired turbines, fired heat recovery steam generators, steam turbine generator, and associated equipment.

**Lodi Energy Center, NCPA, San Joaquin County, California. Project Manager for the licensing of this 255-MW combined cycle power plant.** Managed a multidisciplinary team of scientists, planners, and engineers in preparing and filing the license application. Submitted FAA Form 7460s and notice criteria tools to FAA. Coordinated efforts between CEC project management, local and state agencies and CH2M HILL staff.

**Almond 2 Power Plant, Stanislaus County, California. Project Manager for the licensing of this 174-MW combined cycle power plant.** Managed a multidisciplinary team of scientists, planners, and engineers in preparing and filing the license application. Coordinated efforts between CEC project management, local and state agencies and CH2M HILL staff.

**Chula Vista Energy Upgrade Project, MMC Energy, San Diego County, California. Deputy Project Manager for the AFC for a 100-MW power plant.** Prepared and provided testimony on the waste management, alternatives, worker health & safety and hazardous waste sections of the AFC.

**Russell City Energy Center Amendment, Calpine, Alameda County, California. Deputy Project Manager for the AFC for a 600-MW power plant.** Prepared and provided written testimony for the waste management, alternatives, worker health & safety and hazardous waste sections of the AFC. Coordinated biological and cultural surveys of the project area. Submitted FAA Form 7460s and notice criteria tools to FAA. Addressed multidisciplinary issues received from state and local agencies. Attended public workshops and hearings.

## **Sarah Madams**

**Application for Certification, Los Esteros Critical Energy Facility, Calpine C\*Power, San Jose, California.** Project Coordinator for the AFC for a 180-MW power plant. The project required the preparation of numerous other studies/ documents to satisfy the CEC staff request. These studies/ documents included the preparation of a General Plan amendment and planned development zoning applications, archaeological and paleontological survey reports, and biological resource protection permits. Ms. Madams assisted with the development and implementation of biological, cultural, and paleontological resource monitoring programs; risk management plan; and traffic and transportation management plan. The plant is currently in operation.

**Application for Certification, Walnut Energy Center, Turlock Irrigation District, California.** Project Coordinator for the AFC for a 250-MW combined cycle power plant. She reviewed applications, coordinated multidisciplinary data requests and responses, and coordinated efforts between CEC project management and CH2M HILL staff. Ms. Madams assisted with the development of the security plan and emergency response plan. The plant is currently in operation.

**Application for Certification, Salton Sea Unit 6 Geothermal Power Plant, Mid-American Energy Holding Company, Imperial County, California.** Project Coordinator for the licensing of the 185-MW geothermal power plant. The power plant design was based on the flash geothermal power plant process, which produces both solid and liquid byproducts that required disposal. The project site was in a rural area of Imperial County, but was adjacent to a National Wildlife Refuge that supports significant populations of avian species. The licensing process involved the review of all environmental areas, and specifically focused on waste disposal, air quality, hazardous materials handling, and biological resources. Ms. Madams was responsible for the development and tracking of data response submittals requested by the CEC. The project was successfully completed, with a license issued by the CEC.

**Various Power Plant Applications for Certification (AFCs).** Prepared or assisted on the Worker Health and Safety, Hazardous Materials, and Waste Management sections. In addition prepared Field Safety Instructions and Health and Safety Plans for the following power plant Applications for Certification:

- Ivanpah Solar Electric Generating Station
- Eastshore Energy Center
- Carlsbad Energy Center
- San Francisco Electric Reliability Project
- Walnut Creek Energy Park
- Sun Valley Energy Project

**Air Quality Audits, SMUD, California.** Conducted air quality audits of the Central Valley Finance Authority's Carson Energy Facility and McClellan Gas Turbine Facility. Responsibilities included assisting with the development of the pre-audit checklist and field interview forms, conducting field interviews and audits, and assisting with summarizing and presenting findings in the final audit report.



## **Andrew Redmond**

### **Worker Health and Safety Task Lead**

#### **Education**

B.S., Biopsychology, University of California at Santa Barbara, 1991

#### **Distinguishing Qualifications**

- Scientist and a regulatory compliance specialist with 10 years of consulting experience
- Extensive experienced with groundwater treatment system permitting and reporting, storm water pollution prevention, air quality permitting, landfill air regulatory compliance, and California Environmental Quality Act (CEQA) evaluation and documentation.

#### **Relevant Experience**

Mr. Redmond is a Project Scientist with CH2M HILL Oakland, California office with 10 years of environmental consulting experience in federal, state and local multi-media compliance evaluation, implementation and management. He is responsible for evaluating and tracking compliance status and reporting to regulatory agencies, including Air Quality Management Districts and Regional Water Quality Control Boards. Mr. Redmond provides compliance oversight to plant operating staff to facilitate compliance, including training of personnel.

#### **Representative Projects**

**Project Scientist and Project Manager, Groundwater Extraction and Treatment System, CH2M HILL, California, 2006 to Present.** Responsible for providing multi-media compliance management and reporting for a 0.2 million gallon per day groundwater extraction and treatment system for chromium-contaminated water. The water is treated to rigorous permit limits allowing for onsite disposal into injection wells. The treatment process includes chemical reduction/oxidation, clarification, microfiltration, and reverse osmosis (due to excess TDS compared to the receiving aquifer). Manages a team, including a site operations manager, up to eight full-time operators providing 24-day/7-day per week operations, engineering staff focused on facility optimization, and environmental compliance specialists. Over 36 months of operation, the facility met all agency and stakeholder requirements, no notice of violations, and no safety incidents. Based on this performance record, the client awarded a long-term operations contract to continue facility operation.

**Project Team Member, Regulatory Documents and Permit Applications, CH2M HILL, California, 2005 to Present.** Managed and prepared numerous regulatory documents and permit applications, including storm-water pollution prevention and monitoring plans, National Pollutant Discharge Elimination System (NPDES) permit applications and best management practice plans, hazardous materials management plans, and reports of waste discharge.

**Project Scientist, Five Year Review for Superfund Sites, CH2M HILL, California, 2006 to Present.** Conducted applicable, relevant and appropriate regulations (ARARs) evaluations

# **Andrew Redmond**

during Five-Year Reviews for Environmental Protection Agency Superfund Sites undergoing ongoing remedial activities.

# Jennifer Scholl

## Land Use Task Lead

### Education

B.A. Environmental Studies and Political Science International Relations

### Distinguishing Qualifications

- Regulatory Specialist for the interpretation and applicability of state, federal, and local plans and policies
- NEPA/CEQA compliance
- Project management
- Industrial facility siting studies
- Environmental planning and permitting
- Permit compliance management
- Land use planning/Regulatory policy consistency
- Socioeconomic evaluation
- Public participation and community involvement

### Relevant Experience

Ms. Scholl has more than 23 years of experience in environmental planning and permitting of complex and controversial development projects. Specifically, Ms. Scholl has been involved with the permitting and construction compliance for power generation projects and ancillary facilities (i.e., transmission, gas, water, and sewer lines) and offshore oil and gas facilities with onshore processing and storage components in California. In addition to serving in a management capacity, Ms. Scholl's specific emphasis on these projects has been to conduct the land use, policy consistency analyses, and to manage the regulatory permitting processes. Ms. Scholl also has extensive experience managing environmental review projects for local agencies throughout California. She has provided permitting and environmental review support for the following types of projects: power generation (natural gas, wind, solar, and geothermal), transmission lines, petroleum pipelines, resort, complex habitat management/conservation, residential, and roadways. She also has extensive experience in leading Public Participation Programs. Prior to her work in private consulting, Ms. Scholl managed the permitting and environmental review of major oil and gas development projects, resort and residential developments, and oversaw the implementation of mitigation monitoring plans for the Santa Barbara County Planning and Development Department.

### Representative Projects

**Land Use Task Leader, GWF Energy Tracy Combined Cycle Conversion Project, San Joaquin County, California.** Land Use Task Leader for preparation of the Land Use and Agricultural Resources Section of an AFC to the CEC for the conversion of an existing

## Jennifer Scholl

peaking plant to a combined-cycle baseload facility consisting of two natural-gas-fired turbines, fired heat recovery steam generators, steam turbine generator, and associated equipment. AFC approval expected in early 2010.

**Land Use Task Leader, Ivanpah Solar Electric Generating System, Eastern San Bernardino County, California.** Land Use Task Leader for preparation of the Land Use Section of an AFC to the CEC for a 400 MW solar energy power generation facility using heliostat fields to focus solar energy on power tower receivers. Responsible for evaluating land use and recreational use compatibility related to jurisdictional issues associated with the San Bernardino County, Bureau of Land Management (BLM), Federal Aviation Administration, and the CEC. AFC submitted to the CEC in September 2007 and currently going through CEC AFC processing.

**Project Manager, City of Vernon Renewable Energy Project and Red Rock Wind Project, Northeastern Kern County, California.** Project Manager for the siting and licensing of solar and wind energy generation on 54,000 acres of land controlled by the City of Vernon located north of the City of Tehachapi. Responsible for coordinating with Kern County, BLM, U.S. Fish and Wildlife Service, California Department of Fish and Game, and the Department of Defense. Also responsible for implementation of the data collection and biological and cultural resources survey programs to comply with state and federal regulations to support Kern County preparation of an Environmental Impact Report (EIR .) Kern County EIR expected to be released in June 2010.

**Project Manager, GWF Hanford and Henrietta Petition for License Amendments, Central California.** Project Manager for preparation and processing of Petitions for CEC License Amendments to convert two existing peaker projects to combined-cycle projects. GWF Hanford is located in Hanford and GWF Henrietta is located in Lemoore. The CEC is scheduled to approve both Amendments in January 2010.

**Land Use Task Leader, South Bay Replacement Project, City of Chula Vista, San Diego County, California.** Land Use Task Leader for preparation of the Land Use Section of an AFC to the CEC for a 500 MW combined-cycle replacement project for the existing South Bay Power Plant. Responsible for evaluating the land use compatibility issues related to jurisdictional issues associated with the City of Chula Vista, California Coastal Commission, CEC, and the Unified Port of San Diego. AFC submitted to the CEC in June 2006 and currently going through CEC AFC processing.

**Project Manager, Lompoc Wind Energy Project Environmental Impact Report (EIR), Lompoc, Santa Barbara County, California.** Project Manager for preparation of an EIR, under contract to the County of Santa Barbara, for the development of a 120 MW wind energy electrical generation project on private ranch land in the Lompoc Valley. Public Draft released in July 2007, commercial operation expected in 2008.

**Assistant Project Manager, Eastshore Energy Center, City of Hayward, Alameda County, California.** Assistant Project Manager for preparation of an Application for Certification (AFC) (CEQA EIR equivalent) to the California Energy Commission (CEC) for a 115 MW peaker power plant in the City of Hayward. Responsible for assisting the Project Manager with day-to-day coordination with the client, CEC, and City of Hayward staff for addressing agency requirements. AFC submitted to the CEC in September 2006 and is going through AFC processing and expected to be approved and in commercial operation in 2009.

## **Jennifer Scholl**

**Project Manager, Pastoria Energy Facility 160 MW Expansion Project, Calpine Corporation, Kern County.** Project Manager for preparation of an AFC to the CEC for a 160 MW simple cycle addition to the existing Pastoria Energy Facility in southern Kern County. Responsible for day-to-day coordination with the client and CEC staff for addressing agency requirements. AFC submitted to the CEC in April 2005, received a license from the CEC in December 2006, and is expected to be and in commercial operation in 2008.

**Land Use Task Leader, NRG Carlsbad Energy Center, City of Carlsbad, San Diego County, California.** Land Use Task Leader for preparation of the Land Use Section of an AFC to the CEC for a 560 MW combined-cycle project within the existing Cabrillo Energy Center power station. Responsible for evaluating land use compatibility related to jurisdictional issues associated with the City of Carlsbad, California Coastal Commission, and the CEC. AFC submitted to the CEC in September 2007 and currently going through CEC AFC processing.

**Regulatory Advisor/Siting Study Manager, Additional Support to Electricity Generation Proposals, Numerous Confidential Clients, California.** Currently supports numerous electrical power generation proposals for natural gas-fired and renewable energy projects for multiple clients. Responsibilities include supporting clients with siting and issue screening, project development, agency coordination, land use permit reconnaissance and strategy for AFC and local jurisdiction permit application filing. Development prospects are located in the following areas: Antelope Valley, South San Francisco, San Jose, Arcata, Los Banos, Fresno, and several sites in southern California.

# **W. Geoffrey Spaulding, Ph.D.**

## **Paleontological Resources Task Lead**

### **Education**

Ph.D., Geology (Paleobiology)  
M. S., Geology (Palynology & Vertebrate Paleobiology)  
B. A., Anthropology

### **Certifications**

- California State Bureau of Land Management Paleontological Resources Use Permit CA-07-17
- Approved Paleontological Resources Specialist by the California Energy Commission, State of California
- Qualifications as Paleontological Resources Expert Witness accepted by the Attorney General of the State of Washington

### **Distinguishing Qualifications**

- Specialist Paleontological Resources Management
- Expert in Paleocology of Western North America
- Specialist in Site Formation Processes, Quaternary Paleobiology, Geoarchaeology, Paleohydrology
- Captain, Signal Corps, U. S. Army Reserve (Retired)

### **Relevant Experience**

Dr. Spaulding is a senior scientist and paleontologist with CH2M HILL with extensive experience in paleobiology, paleontology, and paleoecology. He also is accomplished in the study of site formation processes, and the Quaternary geology of the western United States. He has more than three decades of technical experience in the Earth and Life sciences focusing on the deserts of western North America and on California. Prior to joining private industry, he was on the faculty of the University of Washington, Seattle specializing in paleobiology and paleoecology.

### **Representative Projects**

**GWF Energy Tracy Combined Cycle Conversion Project, San Joaquin County, California.** Performed the paleontological resources literature review and records search, conducted the field reconnaissance, and prepared the AFC Paleontological Resources section for the conversion of an existing peaking plant to a combined-cycle baseload facility consisting of two natural-gas-fired turbines, fired heat recovery steam generators, steam turbine generator, and associated equipment.

**GWF Energy Hanford and Henrietta Combined Cycle Conversion Projects.** Performed the paleontological resources literature review and records search, conducted the field reconnaissance, and prepared the AFC Paleontological Resources section for the conversion of two existing peaking plants to combined-cycle baseload facilities. The combined cycle

## **W. Geoffrey Spaulding, Ph.D.**

facilities included two natural-gas-fired turbines, fired heat recovery steam generators, steam turbine generator, and associated equipment.

**Ivanpah Solar Electric Generating System EIS/AFC.** Conduct records review and literature search, field reconnaissance and subsequent field survey of paleontologically sensitive areas, and recordation of Paleozoic and Quaternary paleontological sites in support of a large solar powered electrical generation facility. Model pluvial lake fluctuations and alluvial fan surface development to determine distribution of paleontologically and archaeologically sensitive sediments. Prepare appropriate paleontological resources sections for BLM EIS and California Energy Commission Application for Certification. Address site formation process in subsequent data request phase.

**Power Plant Licensing and Permitting Program, Calpine Corporation.** Paleontological Resources Specialist for several AFCs before the CEC for Calpine's Delta Energy Center in Contra Costa County, and Los Medanos Energy Facility in Santa Clara County as well as AFCs for three peaking power plants licensed under the CEC's emergency AB970 licensing process. Prepared Data Request Responses, attending workshops and providing expert testimony before the licensing hearings. Also prepared preconstruction monitoring plans and provided construction monitoring and compliance services.

**AES Highgrove Power Project.** Prepared the air quality permits and AFC for 300-megawatt peaking facility consisting of three natural-gas-fired turbines and associated equipment. The project will employ General Electric's LMS100 combustion turbine generators that integrate new technology to increase the combustion turbine's efficiency above existing turbine technologies.

**City of Vernon Power Project.** Performed the paleontological resources literature review and records search, conducted the field reconnaissance, and prepared the AFC Paleontological Resources section for 914-megawatt baseload facility consisting of three natural-gas-fired turbines and associated equipment.

**Paleontological Resources Specialist, Construction-Phase Mitigation Implementation, Multiple Power Generation Projects, California.** Develop and manage paleontological resources monitoring and mitigation programs for the construction of power generation projects including the Walnut Energy Center south of Modesto, the Roseville Energy Park east of Sacramento, and the Gateway Generation Station near Antioch. Prepare the Paleontological Resources Module of the worker education program and visual aids for worker education. Direct the recovery of discovered paleontological resources (Quaternary vertebrate and paleobotanical remains), and consult with client representatives and the California Energy Commission on the adequacy of mitigation efforts. Develop site-specific stratigraphic framework to identify paleontologically sensitive sediments, and to provide client and the CEC with guidance regarding what construction activities need and need not be monitored.

# **David Stein, P.E.**

## **Vice President/Senior Project Manager**

### **Education**

M.S., Environmental Engineering, 1981  
B.S., Environmental Engineering, 1977  
B.S., Biological Sciences, 1977

### **Professional Registrations**

Registered Professional Engineer, Chemical: California, CH004285, 1984

### **Distinguishing Qualifications**

- Managed over a dozen siting and licensing cases for large power plants (>100 MW) including related transmission lines and other linear features under the California Energy Commission's (CEC) quasi-adjudicatory licensing process
- Expert witness testimony on power plant design, alternatives, air quality, public health, noise, visual resources, and waste management (including landmark Kings County Farm Bureau v. City of Hanford CEQA lawsuit; CEC evidentiary hearings; product liability litigation and CARB/multiple AQMD and APCD variance and board hearings)
- Air quality expert with regulatory agency (SCAQMD and Kern County APCD), research and industry experience performing toxic and criteria pollutant emission quantification (both stationary and mobile sources), air pollution control technology evaluations, fugitive emissions studies, regulatory compliance audits and analyses, health risk assessments, air quality dispersion modeling, visibility impact modeling, emissions measurement, continuous emissions monitoring and litigation support/expert witness testimony

### **Relevant Experience**

David Stein is a registered chemical engineer with 30 years' experience in managing, staffing, coordinating and conducting large, complex multidisciplinary environmental assessments for power plant projects, transmission lines, gas pipelines and other major development projects in California and the western US. He has managed the preparation of Applications for Certification (AFCs), CEQA and NEPA documents, authored several technical sections of related documents, has extensive experience with legislative advocacy, regulatory negotiations with federal and state air quality, wildlife and land management agencies, and managed environmental compliance during construction on a variety of projects.

### **Representative Projects**

**Program Manager, GWF San Joaquin Valley Conversion Projects - GWF Energy Tracy Combined Cycle Conversion Project (Tracy, California - 145 MW addition), Hanford Combined Cycle Power Plant Amendment (Hanford, California - 55 MW addition) and Henrietta Combined Cycle Power Plant Amendment (Kings County, California - 55 MW addition).** Principal-In-Charge of the preparation of an AFC and two post-certification



## David Stein, P.E.

amendment petitions. CH2M HILL completed all of the environmental analysis supporting these projects. Provided overall program direction and peer review of the effort as well as supported early agency consultation.

**Project Manager, Eastshore Energy Center, Tierra Energy, California.** Managed the preparation of an Application for Certification (AFC) for the 115.5 MW (net) Eastshore Energy Center including 14 natural gas-fired reciprocating engines, a 1.1-mile 115 kV transmission line and a 200-foot natural gas line. CH2M HILL completed biological and cultural resources field surveys as well as detailed environmental analysis, evaluation of mitigation measures, community and agency coordination and preparation of expert witness testimony.

**Project Manager, Chevron Power Plant Replacement Project, Chevron Richmond Refinery, California.** Managed the preparation of a Small Power Plant Exemption Application for the Chevron Power Plant Replacement Project including a 43 MW natural gas or LPG-fired combustion turbine, a refinery fuel gas-fired heat recovery steam generator, a 17 MW steam turbine generator and reconductoring of approximately 4000 feet of onsite double circuit 115 kV transmission line. CH2M HILL completed biological and cultural resources surveys, detailed environmental analyses, evaluation of mitigation measures and agency coordination.

**Principal-In-Charge and Strategic Advisor, Gateway Generating Station, Pacific Gas & Electric Company, California.** Provided strategic advice and senior review for post-certification amendments to the Gateway Generating Station project (originally developed by Mirant Delta, LLC as Contra Costa Unit 8). CH2M HILL completed preparation of the AFC amendment petition including an environmental evaluation of the replacement of wet-cooling with dry, air-cooled condenser technology, elimination of San Joaquin River water consumption associated with wet-cooling, elimination of steam augmentation for power generation, relocation of various facility components and a redesigned closed-loop cooling water system.

**Program Manager, Various Projects -Environmental Licensing and Permitting Program, Pacific Gas & Electric Company, California.** Recent projects have included Humboldt Bay Power Plant AFC preparation, Gateway Generating Station AFC amendment, Jefferson-Martin transmission line environmental permitting, Yolo gas pipeline project environmental permitting, Hunters Point Decommissioning permitting coordination, NPDES permitting support, and confidential water quality characterization study.

**Project Manager, Tracy Peaker Project, Hanford Peaker Project and Henrietta Peaker Project, GWF Energy, LLC, California.** Managed preparation of three AFCs for the 169 MW Tracy Peaker Project, consisting of two 84.5 MW (net) natural gas-fired combustion turbines, a 1000 foot water line and a 2 mile transmission line; the 96 MW Hanford and Henrietta Peaker Projects, each consisting of two 48 MW natural gas fired combustion turbines. Projects included extensive field surveying, detailed environmental analysis, mitigation, agency coordination and expert witness testimony in 16 topic areas.

**Program Manager, Sunrise Power Project and Transmission Line, Edison Mission Energy/Texaco Power and Gasification, California.** Managed preparation of AFC for the 565 MW Sunrise Power Project including a 23-mile 230 kV transmission line, a 15.5 mile

## **David Stein, P.E.**

water supply pipeline and a 2.5 mile natural gas pipeline. Project including extensive field surveying, mapping, avoidance and mitigation of disturbance of sensitive biological and cultural resources over all project linears as well as detailed environmental analysis, mitigation and expert witness testimony in 16 topic areas. In addition to the CEC AFC, NEPA documentation was prepared for US Bureau of Land Management to allow linear facility construction on Federal land. Successfully licensed the project over the strenuous intervention of California Unions for Reliable Energy (CURE) - one of the most contested licensing cases in CEC history. Other environmental licenses and permits procured for the project included: Prevention of Significant Deterioration (PSD) permit from USEPA (US Environmental Protection Agency) Region IX, Underground Injection Well Permit from USEPA Region IX, Section 7 Consultation and Biological Opinion from US Fish & wildlife Service, Section 2081 (Incidental Take) and 1601 (Streambed Alteration Agreement) Permits from California Department of Fish & Game (CDFG), Section 404 Permit from US Army Corp of Engineers, Section 401 Water Quality Certification from Central Valley Regional Water Quality Control Board, and Determination of Compliance and Authority to Construct from San Joaquin Valley Air Pollution Control District.



# **Fatuma Yusuf, Ph.D.**

## **Socioeconomics Task Lead**

### **Education**

Ph.D., Agricultural Economics  
M.S., Statistics  
M.A., Agricultural Economics  
B.S., Range Management

### **Relevant Experience**

Dr. Yusuf is an economist and statistician. She has conducted economic analyses for energy, water supply, water quality, agriculture, transportation, and recreation; evaluated project feasibility; and assessed economic impacts associated with project implementation. She has experience in preparing the socioeconomic analysis for power plant permitting, FERC relicensing, and other environmental documents, regional economic impact analysis, cost-benefit analysis, and rate impact analysis.

### **Representative Projects**

**GWF Energy Tracy Combined Cycle Conversion Project, San Joaquin County, California.** Socioeconomics Task Lead. Prepared the socioeconomic analysis section of the AFC. Also analyzed the regional economic impacts of the project on employment and income.

**Economic Impact Analysis for the Teanaway Solar Reserve, Kittitas County, Washington.** Economics Task Lead. Provided screening-level economic, socioeconomic, and fiscal impact analyses of the construction and operation associated with the Teanaway Solar Reserve project in Kittitas County, Washington.

**Ivanpah Solar Electric Generating System (Ivanpah SEGS), San Bernardino County, California.** Socioeconomics Task Lead. Prepared the socioeconomic analysis section of the AFC. Also, analyzed the regional economic impacts of the project on employment and income.

**Lodi Energy Center, NCPA, Lodi, San Joaquin County, California.** Socioeconomics Task Lead. Prepared the socioeconomic analysis section of the AFC. Also, analyzed the regional economic impacts of the project on employment and income.

**Chula Vista Energy Upgrade Project, MMC Energy, San Diego County, California.** Socioeconomics Task Lead. Prepared the socioeconomic analysis section of the AFC. Also, analyzed the regional economic impacts of the project on employment and income.

**Application for Certification, Eastshore Energy Project, Hayward, California.** Socioeconomics Task Lead. Prepared the socioeconomic analysis section of the AFC. Also, analyzed the regional economic impacts of the project on employment and income.

**Application for Certification, South Bay Replacement Project, Chula Vista, California.** Socioeconomics Task Lead. Prepared the socioeconomic analysis section of the AFC. Also, analyzed the regional economic impacts of the project on employment and income.

## **Fatuma Yusuf, Ph.D.**

**Application for Certification for a number of energy projects including the San Francisco Electric Reliability Project in San Francisco, California, and the Walnut Energy Facility in Turlock, California. Economics Task Lead.** Prepared the socioeconomics analysis section of the AFC. Also, analyzed the regional economic impacts of the project on employment and income.

**Economic Analysis for the Calpine LNG Facility and Power Plant in Eureka, California.** Project Manager. Provided screening-level economic, socioeconomic and fiscal impact analyses of the construction and operation associated with the Calpine LNG and Power Plant Projects in Eureka, California.

**Socioeconomic Study Plan for the SMUD Upper American River Project Iowa Hill Pumped Storage Development Project.** Socioeconomic Task Lead. Prepared the socioeconomic study plan and evaluated the socioeconomic impacts associated with the Iowa Hill Pumped Storage Development Project as part of the SMUD Upper American River Project Hydroelectric relicensing application. Also, analyzed the regional economic impacts of the project on employment and income.

**Revision of SMUD Upper American River Project Socioeconomic Impact Study Report.** Socioeconomic Task Lead. Prepared Revision 1 of the SMUD UARP Socioeconomic Impact Study Report on the SMUD Upper American River Project Hydroelectric relicensing. Revision 1 involved the verification of the study conducted by CSUS. Also, analyzed the regional economic impacts of the project on employment and income.

**Agricultural Impact Study of the PacifiCorp's Hydroelectric Power Project.** Analyzed the socioeconomic and regional economic impacts associated with the increased energy costs faced by Klamath irrigators. Prepared the regional economic impact report.

**Industrial Siting Application for a number of energy projects in Wyoming including the Medicine Bow Coal to Liquid Project, Wygen III Unit 5, Seven Mile Hill and Glenrock Wind Energy Projects.** Analyzed the regional economic impacts of the projects on employment and income.

**Lower Colorado River Authority (LCRA)-San Antonio Water System (SAWS) Water Project (LSWP).** Regional Economics Task Lead. Ongoing project. The project aims to develop strategies that would conserve and develop water in the lower Colorado River basin for both regions (LCRA and San Antonio). Strategies include: reducing agricultural irrigation water demand, capturing and storing unused and excess river flows in off-channel storage facilities, and developing groundwater for limited use in agriculture when surface water isn't available. Task is to evaluate the economic impacts associated with changes brought about by the project to satisfy the required legislative finding that the water transfer will protect and benefit the economic well-being of the lower Colorado River watershed and the LCRA water service area. Economic analysis tools to be used include: benefit-cost analysis, input-output analysis, sector analysis, socioeconomic analysis, recreation benefit analysis, and net environmental benefit analysis.

**SR 79 Realignment Project Community Impact Assessment (CIA) and EIR/EIS.** Economics/Environmental Justice Task Lead. Prepared the socioeconomics and environmental justice analysis sections of the Draft CIA and EIR/EIS for the SR 79 Realignment Project Domenigoni Parkway to Gilman Springs Road

**APPENDIX B**  
**TENTATIVE EXHIBIT AND DECLARATION LIST**

# APPLICANT'S TENTATIVE EXHIBIT AND DECLARATION LIST

## GWF TRACY COMBINED CYCLE POWER PLANT PROJECT

Docket No. 08-AFC-07

(as of 11/12/09)

Exhibit No.	CEC Log No.	Date	Description	Topic Area	Sponsoring Party	Pages
1.	47105	7/10/08	AFC Section 1.0 – Executive Summary	Project Description Air Quality	Jerry Salamy	12
2.	47105	7/10/08	AFC Section 2.0 – Project Description	Project Description Facility Design Power Plant Efficiency Power Plant Reliability	Doug Wheeler	51
3.	47105	7/10/08	AFC Section 3.0 – Electric Transmission Interconnection	Transmission Line Safety and Nuisance Transmission System Engineering Facility Design	Doug Wheeler Hal Moore	20
4.	47105	7/10/08	AFC Section 4.0 – Natural Gas Supply	Project Description	Doug Wheeler	2
5.	N/A	N/A	Intentionally omitted	N/A	N/A	N/A
6.	47105	7/10/08	AFC Section 5.1 – Air Quality	Air Quality	Jerry Salamy	47
7.	47105	7/10/08	AFC Section 5.2 – Biological Resources	Biological Resources	Marjorie Eisert	38
8.	47105	7/10/08	AFC Section 5.3 – Cultural Resources	Cultural Resources	Clint Helton	15
9.	47105	7/10/08	AFC Section 5.4 – Geologic Hazards and Resources	Geology and Paleontology	Thomas Lae	10
10.	47105	7/10/08	AFC Section 5.5 – Hazardous Materials Handling	Hazardous Materials	Sarah Madams	34
11.	47105	7/10/08	AFC Section 5.6 – Land Use	Land Use	Jennifer Scholl	37
12.	47105	7/10/08	AFC Section 5.7 – Noise	Noise and Vibration	Mark Bastasch	16
13.	47105	7/10/08	AFC Section 5.8 – Paleontological Resources	Geology and Paleontology	Geoff Spaulding	13
14.	47105	7/10/08	AFC Section 5.9 – Public Health	Public Health	Jerry Salamy	14
15.	47105	7/10/08	AFC Section 5.10 – Socioeconomics	Socioeconomic Resources	Fatuma Yusuf	25
16.	47105	7/10/08	AFC Section 5.11 – Soils	Soil and Water Resources	Steve Long	19

**GWF TRACY COMBINED CYCLE POWER PLANT PROJECT**  
**Docket No. 08-AFC-07**

Exhibit No.	CEC Log No.	Date	Description	Topic Area	Sponsoring Party	Pages
17.	47105	7/10/08	AFC Section 5.12 – Traffic and Transportation	Traffic and Transportation	Loren Bloomberg	32
18.	47105	7/10/08	AFC Section 5.13 – Visual Resources	Visual Resources	Joshua Hohn	28
19.	47105	7/10/08	AFC Section 5.14 – Waste Management	Waste Management	Sarah Madams	19
20.	47105	7/10/08	AFC Section 5.15 – Water Resources	Soil and Water Resources	Matt Franck	17
21.	47105	7/10/08	AFC Section 5.16 – Worker Health and Safety	Worker Safety	Richard Cavil	23
22.	47105	7/10/08	AFC Section 6.0 – Alternatives	Alternatives	Jerry Salamy	8
23.	47105	7/10/08	AFC Appendix 1A – TPP Licensing Materials	Project Description Various	Jerry Salamy	1 CD 1,745 pgs.
24.	47105	7/10/08	AFC Appendix 1B – Property Owner Information	Project Description Various	Jerry Salamy	10
25.	47105	7/10/08	AFC Appendix 1C – Persons Who Prepared the AFC	Project Description Various	Jerry Salamy	2
26.	47105	7/10/08	AFC Appendix 2A – Engineering	Facility Design	Doug Wheeler	3
27.	47105	7/10/08	AFC Appendix 2A.1 – Foundation and Civil Engineering Design Criteria	Facility Design	Doug Wheeler	12
28.	47105	7/10/08	AFC Appendix 2A.2 – Structural and Seismic Engineering Design Criteria	Facility Design	Doug Wheeler	34
29.	47105	7/10/08	AFC Appendix 2A.3 – Mechanical Engineering Design Criteria	Facility Design	Doug Wheeler	26
30.	47105	7/10/08	AFC Appendix 2A.4 – Control Engineering Design Criteria	Facility Design	Doug Wheeler	19
31.	47105	7/10/08	AFC Appendix 2A.5 – Electrical Engineering Design Criteria	Facility Design	Doug Wheeler	32
32.	47108	7/10/08	AFC Appendix 3A – System Impact Study	Facility Design Transmission System Engineering	Doug Wheeler Hal Moore	574
33.	47105	7/10/08	AFC Appendix 5.1A – Construction Emission Estimates	Air Quality	Jerry Salamy	14
34.	47105	7/10/08	AFC Appendix 5.1B – Calculation of Maximum Hourly, Daily, and Annual Emissions	Air Quality	Jerry Salamy	22
35.	47105	7/10/08	AFC Appendix 5.1C – Dispersion Modeling and Climate Information	Air Quality	Jerry Salamy	31

**GWF TRACY COMBINED CYCLE POWER PLANT PROJECT**  
**Docket No. 08-AFC-07**

Exhibit No.	CEC Log No.	Date	Description	Topic Area	Sponsoring Party	Pages
36.	47105	7/10/08	AFC Appendix 5.1D – SJVAPCD Authority to Construct Forms	Air Quality	Jerry Salamy	21
37.	47105	7/10/08	AFC Appendix 5.1E – Evaluation of Best Available Control Technology	Air Quality	Jerry Salamy	52
38.	47105	7/10/08	AFC Appendix 5.2A – Resumes of Biological Resources Staff	Biological Resources	Marjorie Eisert	12
39.	47105	7/10/08	AFC Appendix 5.2B – Special-Status Species List	Biological Resources	Marjorie Eisert	16
40.	47105	7/10/08	AFC Appendix 5.3A – Agency Consultation Letters	Cultural Resources	Clint Helton	39
41.	47105	7/10/08	AFC Appendix 5.3B – TPP AFC Cultural Resources Assessment – CONFIDENTIAL	Cultural Resources	Clint Helton	1
42.	47105	7/10/08	AFC Appendix 5.3C – GWF Tracy CHRIS Literature Search Results – CONFIDENTIAL	Cultural Resources	Clint Helton	1
43.	47105	7/10/08	AFC Appendix 5.3D – Resume of Cultural Resources Staff	Cultural Resources	Clint Helton	8
44.	47105	7/10/08	AFC Appendix 5.3E – Cultural Resource Figures 5.3E1a – 5.3E1d – CONFIDENTIAL	Cultural Resources	Clint Helton	1
45.	47105	7/10/08	AFC Appendix 5.5A – EDR Offsite Receptor Report	Hazardous Materials	Sarah Madams	19
46.	47105	7/10/08	AFC Appendix 5.7A – Tracy Peaker Plant 2003 Noise Study	Noise and Vibration	Mark Bastasch	19
47.	47105	7/10/08	AFC Appendix 5.9A – Sensitive Receptors	Public Health	Jerry Salamy	2
48.	47105	7/10/08	AFC Appendix 5.9B – HARP Modeling	Public Health	Jerry Salamy	3
49.	47105	7/10/08	AFC Appendix 5.10A – Screening-level Environmental Justice Analysis	Socioeconomic Resources	Fatuma Yusuf	33
50.	47105	7/10/08	AFC Appendix 5.10B – Records of Conversation	Socioeconomic Resources	Fatuma Yusuf	15
51.	47105	7/10/08	AFC Appendix 5.11A – Draft Construction SWPPP	Soil and Water Resources	Steve Long	53
52.	47105	7/10/08	AFC Appendix 5.13A – Evaluation of Potential Impacts to Visual Resources	Visual Resources	Joshua Hohn	4
53.	47109	7/10/08	AFC Appendix 5.14A – Phase 1 ESA	Waste Management	Sarah Madams	308
54.	47106	7/18/08	Public Health Modeling Files	Public Health	Jerry Salamy	1 CD
55.	47107	7/18/08	Air Quality Modeling Files	Air Quality	Jerry Salamy	1 CD



**GWF TRACY COMBINED CYCLE POWER PLANT PROJECT**  
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Exhibit No.	CEC Log No.	Date	Description	Topic Area	Sponsoring Party	Pages
56.	47469	8/06/08	Application for Confidential Designation - Paleontological Resources Report (including application for confidential designation)	Geology and Paleontology	Geoff Spaulding	3 (letter only)
57.	47486	8/06/08	Application for Confidential Designation - Cultural Resources Reports (including application for confidential designation)	Cultural Resources	Clint Helton	3 (letter only)
58.	47928	9/00/08	Response to Data Adequacy Review	Air Quality Biological Resources Cultural Resources Geology and Paleontology Traffic and Transportation Transmission System Engineering Various	Jerry Salamy Marjorie Eisert Clint Helton Geoff Spaulding Loren Bloomberg Hal Moore	60
59.	47997	9/08/08	Application for Confidential Designation - Paleontological Figures PAL-1 and PAL-2 (including application for confidential designation)	Geology and Paleontology	Geoff Spaulding	3 (letter only)
60.	48040	9/15/08	Application for Confidential Designation - Cultural Resources Reports (including application for confidential designation)	Cultural Resources	Clint Helton	3 (letter only)
61.	49055	11/19/08	Responses to Data Requests 1 through 37 (Data Response Set 1)	Air Quality Biological Resources Cultural Resources Geology and Paleontology Soil and Water Resources Public Health Transmission System Engineering Various	Jerry Salamy Marjorie Eisert Clint Helton Matt Franck Thomas Lae Jerry Salamy Hal Moore	286

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Exhibit No.	CEC Log No.	Date	Description	Topic Area	Sponsoring Party	Pages
62.	49662	undated	E-mail with Estimate Air-Cooled Condenser Mass Flow & Operating Data from Jerry Salamy	Air Quality	Jerry Salamy	1
63.	49700	1/12/09	Applicant's Data Responses Set 1A	Air Quality Public Health	Jerry Salamy	9
64.	49841	1/23/09	Workshop Data Responses Set 1	Biological Resources Various	Marjorie Eisert Jerry Salamy	23
65.	52006	6/15/09	Applicant's Interconnection System Impact Re-study-Interconnection Facilities Study Report	Facility Design Transmission System Engineering	Doug Wheeler Hal Moore	27
66.	52065	6/17/09	FAA Determination of No Hazard and GWF Tracy FAA Form 7460-1	Facility Design	Doug Wheeler	8
67.	52355	7/09/09	Applicant's Comments on the Preliminary Staff Assessment	Air Quality Public Health Various	Jerry Salamy	16
68.	52542	7/23/09	Applicant's Preliminary Staff Assessment (PSA) Workshop Response to Public Comments	Various	Jerry Salamy	15
69.	52548	7/23/09	Appendices to the System Impact Study	Facility Design Transmission System Engineering	Doug Wheeler Hal Moore	224
70.	N/A	11/17/09	Declaration of Doug Wheeler regarding Project Description	Project Description	Doug Wheeler	TBD
71.	N/A	11/17/09	Declaration of Jerry Salamy regarding Air Quality	Air Quality	Jerry Salamy	TBD
72.	N/A	11/17/09	Declaration of Marjorie Eisert regarding Biological Resources	Biological Resources	Marjorie Eisert	TBD
73.	N/A	11/17/09	Declaration of Clint Helton regarding Cultural Resources	Cultural Resources	Clint Helton	TBD
74.	N/A	11/17/09	Declaration of Sarah Madams regarding Hazardous Materials	Hazardous Materials	Sarah Madams	TBD
75.	N/A	11/17/09	Declaration of Jennifer Scholl regarding Land Use	Land Use	Jennifer Scholl	TBD
76.	N/A	11/17/09	Declaration of Mark Bastasch regarding Noise and Vibration	Noise and Vibration	Mark Bastasch	TBD
77.	N/A	11/17/09	Declaration of Jerry Salamy regarding Public Health	Public Health	Jerry Salamy	TBD
78.	N/A	11/17/09	Declaration of Fatuma Yusuf regarding Socioeconomic Resources	Socioeconomic Resources	Fatuma Yusuf	TBD

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Exhibit No.	CEC Log No.	Date	Description	Topic Area	Sponsoring Party	Pages
79.	N/A	11/17/09	Declaration of Steve Long regarding Soil and Water Resources	Soil and Water Resources	Steve Long	TBD
80.	N/A	11/17/09	Declaration of Matt Franck regarding Soil and Water Resources	Soil and Water Resources	Matt Franck	TBD
81.	N/A	11/17/09	Declaration of Loren Bloomberg regarding Traffic and Transportation	Traffic and Transportation	Loren Bloomberg	TBD
82.	N/A	11/17/09	Declaration of Doug Wheeler regarding Transmission Line Safety and Nuisance	Transmission Line Safety and Nuisance	Doug Wheeler	TBD
83.	N/A	11/17/09	Declaration of Joshua Hohn regarding Visual Resources	Visual Resources	Joshua Hohn	TBD
84.	N/A	11/17/09	Declaration of Sarah Madams regarding Waste Management	Waste Management	Sarah Madams	TBD
85.	N/A	11/17/09	Declaration of Richard Cavil regarding Worker Safety	Worker Safety	Richard Cavil	TBD
86.	N/A	11/17/09	Declaration of Doug Wheeler regarding Facility Design	Facility Design	Doug Wheeler	TBD
87.	N/A	11/17/09	Declaration of Thomas Lae regarding Geology and Paleontology	Geology and Paleontology	Thomas Lae	TBD
88.	N/A	11/17/09	Declaration of Geoff Spalding regarding Geology and Paleontology	Geology and Paleontology	Geoff Spalding	TBD
89.	N/A	11/17/09	Declaration of Doug Wheeler regarding Power Plant Efficiency	Power Plant Efficiency	Doug Wheeler	TBD
90.	N/A	11/17/09	Declaration of Doug Wheeler regarding Power Plant Reliability	Power Plant Reliability	Doug Wheeler	TBD
91.	N/A	11/17/09	Declaration of Hal Moore regarding Transmission System Engineering	Transmission System Engineering	Hal Moore	TBD
92.	N/A	11/17/09	Declaration of Jerry Salamy regarding Alternatives	Alternatives	Jerry Salamy	TBD
93.	pending	11/11/09	Applicant's Comments on the Final Staff Assessment	Air Quality Cultural Resources Public Health	Jerry Salamy Clint Helton Jerry Salamy	TBD
94.	N/A	11/17/09	Declaration of Jerry Salamy regarding Various	Various	Jerry Salamy	TBD
95.	N/A	11/17/09	Declaration of Jerry Salamy regarding Project Description	Project Description	Jerry Salamy	TBD

**STATE OF CALIFORNIA  
ENERGY RESOURCES  
CONSERVATION AND DEVELOPMENT COMMISSION**

In the Matter of:	)	Docket No. 08-AFC-7
	)	
Application for Certification,	)	<b>PROOF OF SERVICE</b>
for the GWF TRACY COMBINED CYCLE	)	
POWER PLANT PROJECT	)	(Revised February 25, 2009)
by GWF Energy, LLC	)	
_____	)	

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GWF TRACY COMBINED CYCLE POWER PLANT PROJECT  
CEC Docket No. 08-AFC-7

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GWF TRACY COMBINED CYCLE POWER PLANT PROJECT  
CEC Docket No. 08-AFC-7

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**DECLARATION OF SERVICE**

I, Paul Kihm, declare that on November 12, 2009, I served and filed copies of the attached:

**APPLICANT'S PREHEARING CONFERENCE STATEMENT**

to all parties identified on the Proof of Service List above in the following manner:

**California Energy Commission Docket Unit**

- Transmission via electronic mail and by depositing one original paper copy with FedEx overnight mail delivery service at Costa Mesa, California, with delivery fees thereon fully prepaid and addressed to the following:

**CALIFORNIA ENERGY COMMISSION**  
Attn: DOCKET NO. 08-AFC-7  
1516 Ninth Street, MS-4  
Sacramento, California 95814-5512  
[docket@energy.state.ca.us](mailto:docket@energy.state.ca.us)

**For Service to All Other Parties**

- Transmission via electronic mail to all email addresses on the Proof of Service list; and
- by depositing one paper copy with the United States Postal Service via first-class mail at Costa Mesa, California, with postage fees thereon fully prepaid and addressed as provided on the Proof of Service list to those addresses **NOT** marked "email preferred."

I further declare that transmission via electronic mail and U.S. Mail was consistent with the requirements of California Code of Regulations, title 20, sections 1209, 1209.5, and 1210.

I declare under penalty of perjury that the foregoing is true and correct. Executed on November 12, 2009, at Costa Mesa, California.

  
\_\_\_\_\_  
Paul Kihm