

DOCKETED

Docket Number:	00-AFC-14C
Project Title:	El Segundo Power Redevelopment Project Compliance
TN #:	206332
Document Title:	Identification of Staff's Opening Testimony
Description:	N/A
Filer:	Muoi-Lynn Tran
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	10/12/2015 3:14:19 PM
Docketed Date:	10/12/2015

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

In the Matter of:

Docket No. 00-AFC-14C

Application for Certification for the
**EL SEGUNDO ENERGY CENTER
AMENDMENT**

IDENTIFICATION OF STAFF’S OPENING TESTIMONY

On September 23, 2015, the Committee assigned by the Energy Commission to conduct proceedings on the Petition to Amend for the El Segundo Power Facility Modification to the El Segundo Energy Center issued a “Notice of Prehearing Conference Evidentiary Hearing, Scheduling Order, and Further Orders.” The Scheduling Order states that Parties are to file Opening Testimony on October 12, 2015.

Staff’s Opening Testimony is comprised of the technical sections of the Final Staff Assessment Combined Parts A and B (the “combined FSA”) for the El Segundo Power Facility Modification Amendment to the El Segundo Energy Center, docketed on August 27, 2015. (TN 205874). The combined FSA supersedes and replaces entirely the version that was published as FSA A, and contains all technical sections, including the Air Quality section which was not included in the previously published FSA Part A. The following list identifies the technical sections that have additional Staff identified to sponsor testimony in the proceedings:

- Biological Resources – Anwar Ali

- Geology and Paleontology – Paul Marshall
- Compliance Conditions and Compliance Monitoring Plan – Roger Johnson

DATED: October 12, 2015

Respectfully submitted,

Original Signed By: _____
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**DECLARATION OF
Anwar Ali**

I, **Anwar Ali**, declare as follows:

1. I am presently employed by the California Energy Commission in the Siting, Transmission and Environmental Protection Division as a Supervising Biologist.
2. A copy of my professional qualifications and experience is attached hereto and incorporated by reference herein.
3. The staff testimony on Biological Resources, for the **El Segundo Energy Center Amendment (00-AFC-14C)** was prepared under my direction, and is based on independent analysis of the Petition to Amend and supplements thereto, data from reliable documents and sources, and professional experience and knowledge.
4. It is my professional opinion that the prepared testimony is valid and accurate with respect to the issue(s) addressed therein.
5. I am personally familiar with the facts and conclusions related in the testimony and, if called as a witness, could competently sponsor testimony thereto

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge and belief.

Dated: 10/12/2015

Signed:  _____

At: Sacramento, California

Anwar Ali, Ph.D.

Education

Ph.D. Botany. University of California, Riverside. June 1994.

Professional Experience

January 2013 - Present. Planner III & Energy Resources Specialist III.

California Energy Commission, Siting Transmission and Environmental Protection Division.

As a first-level supervisor, perform supervisory, administrative and analytical tasks. Duties include: Supervise a staff of technical specialists (staff biologists/planner II and Energy Analysts), and consultants performing biological resources analyses; Plan, organize, direct, oversee, and coordinate a staff of biological resources in their complex analyses of energy facilities licensing, energy facilities compliance, electric transmission corridor planning, and electric transmission line licensing; Maintain rigorous analytical foundation and meticulous writing technique over all technical documents originating with the staff and ensure that technical and policy documents prepared by staff and consultants are technically adequate and accurate, consistent with Division and Commission policies, and coordinated with other technical disciplines; Ensure timely completion of staff assignments; Procure, train, and coach staff in the unit by providing direction and guidance; Independently act as an expert to analyze and advise the Commission management of most complex energy and environmental issues.

July 2012 – January 2012. Planner II (Staff Biologist).

California Energy Commission, Siting Transmission and Environmental Protection Division

As a staff biologist, primary duties included: conducting impact analyses to biological resources for power plant siting projects; evaluation of compliance with conditions of certification related to biological resource technical areas for power plant facilities; analyzing amendments and project changes to previously approved power plants evaluating compliance with accepted Conditions of Certification related to biological resource technical areas for power plant facilities; identifying, describing, and analyzing the biological issues related to electrical energy production and transmission facilities, alternative energy technologies, energy research and development, and Commission programs and policies.

Associate Environmental Planner (Generalist) & Associate Environmental Planner (Natural Sciences/Biologist). November 2006- July 2012.

California Department of Department of Transportation, District 8, Riverside and San Bernardino Counties.

Using scientific judgment, independently assessed the impacts of California Department of Transportation projects on biological resources by conducting the required sensitive plants and wildlife surveys, performing jurisdictional delineation of Wetlands and Waters and coordinating with state and federal agencies to acquire the necessary permits including but not limited to the CDFG 2801 Incidental Take Permit, CDFG Streambed and Lake Alteration Agreement (1602 permit), RWQCB 401 permit, Army Corps of Engineers Nationwide 404 permits, and Biological Opinions ; Prepared and processed environmental documents including Initial Studies and Environmental Assessments (IS/EA) and Categorical Exemptions (CE) for transportation projects in compliance with applicable local, State and Federal laws, regulations and policies; Performed peer and technical reviews of environmental documents [(IS/EA) Environmental Impacts Report/ Environmental Impact Statements (EIR/EIS)] for related transportation projects prepared by local agencies (cities and counties) to assure compliance with the California Environmental Quality Act and other Division's environmental review process.

Research Scientist. November 1996- October 2006.

University of California, Riverside.

Investigated the biological causes of leaf abscission associated with the use of the hydrogen cyanamide. Investigated the physiological effects and levels of phytohormones in xylem sap caused by Glassy Winged Sharpshooter (the vector for bacterium *Xylella fastidiosa*) using Radioimmunoassay (RIA). Investigated the biological causes of albedo breakdown in citrus with the goal of developing a statistical model predictive of crease occurrence. Investigated the effect of phosphorus deficiency on pyridoxal phosphate metabolism in citrus. Studied the role of pectin methyl esterase (PME) and gel-forming enzyme in citrus creasing.

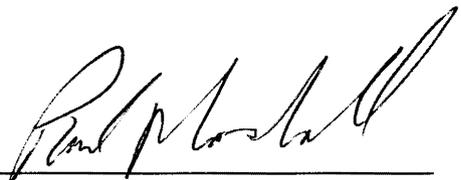
**DECLARATION OF
Paul Marshall**

I, Paul Marshall, declare as follows:

1. I am presently employed by the California Energy Commission in the Siting, Transmission and Environmental Protection Division as a Senior Engineering Geologist.
2. A copy of my professional qualifications and experience is attached hereto and incorporated by reference herein.
3. I helped prepare the staff testimony on Geology and Paleontology, for the El Segundo Energy Center Amendment (00-AFC-14C), based on my independent analysis of the Petition to Amend and supplements thereto, data from reliable documents and sources, and my professional experience and knowledge.
4. It is my professional opinion that the prepared testimony is valid and accurate with respect to the issue(s) addressed therein.
5. I am personally familiar with the facts and conclusions related in the testimony and, if called as a witness, could testify competently thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge and belief.

Dated: 10/12/15

Signed: 

At: Sacramento, California

Paul D. Marshall

EDUCATION

SAN DIEGO STATE UNIVERSITY, CALIFORNIA

Bachelor of Science Degree in Engineering Geology

Completed post-baccalaureate courses in Engineering Geology

FRESNO STATE UNIVERSITY, CALIFORNIA

Completed post-baccalaureate courses in Civil Engineering

LICENSES

California Registered Geologist, No. 5718

California Certified Engineering Geologist, No. 1817

California Certified Hydrogeologist, No. 468

EMPLOYMENT HISTORY

CALIFORNIA ENERGY COMMISSION

Siting, Transmission, and Environmental Protection Division – Supervisor, Soil, Water Resources, and Waste Management Unit/ January 2008 -Present

Supervise a multidisciplinary team of engineers and geologists responsible for analysis of potential environmental impacts from power plant construction and operation to soil and water resources and from waste management activities. Provide guidance and technical assistance to staff for complex analysis of power plant impacts on water supply, water quality, wastewater disposal, discharges to surface water and groundwater, development and utilization of groundwater, flood impacts and storm water management, and assessment of potential impacts on human health and the environment. Ensures staff work products are consistent with laws, regulations, and policies of the US EPA, US ACOE, SWRCB, RWQCB's, CDFG, DTSC, and other local ordinances. Contract with and direct the work of consultants conducting technical reviews of power plants. Schedule and confer with a multidisciplinary staff of planners, engineers, and scientists to ensure staff analyses are coordinated with other disciplines where there is overlap. Ensure product delivery in a timely manner. Hire and develop staff, complete probationary and performance reports, counsel and mentor staff. Take adverse actions when appropriate.

CALIFORNIA DEPARTMENT OF CONSERVATION

Office of Mine Reclamation – Supervisor, Compliance Unit/October 2006 – January 2008

Supervise a team of engineering geologists responsible for ensuring compliance with mine reclamation plans and specifications. Review and approve staff work conducted to ensure plans and specifications were adequate and enforceable. Direct staff responsible for enforcement actions and preparation of data and reports for presentation to the State Mining and Geology Board. Oversight of staff review of cost estimates for mine reclamation and conduct statewide workshops outlining requirements for mine reclamation cost estimates. Implement Lead Agency review and audit program.

STATE WATER RESOURCES CONTROL BOARD

Division of Financial Assistance – Chief, Project Implementation Unit/January 2001 – September 2006

Supervise a multidisciplinary team responsible for contract and project management associated with Prop 13, Prop 40, Prop 50, Water Bond 1986 and 1996, and the Federal Clean Water Act funding programs. Develop program policies and procedures for implementation and management of grant and loan programs and projects. Direct the work of staff and coordinate with state and federal agencies in the development of technical review criteria for selection of projects recommended for grant award. Direct the work of staff and contractors developing a Project Assessment and Evaluation Program used to evaluate program effectiveness. Provide guidance and technical support to stakeholders for project development. Represent SWRCB at public meetings and conduct training on program procedures. Ensure project integrity and compliance with State and Federal laws.

CALIFORNIA DEPARTMENT OF WATER RESOURCES

Division of Local Assistance - Senior Engineering Geologist/ July 2000 – January 2001

Manage multidisciplinary staff to identify and develop conjunctive water management programs throughout Southern California. Organize, guide, and support local stakeholder groups in development of conjunctive water management plans. Develop partnering opportunities with other local, state, and federal agencies to spread program benefits region-wide and implement CALFED goals and objectives. Write and review contract documents, task orders, grant applications, and provide input on program policy. Solicit and assist agencies with loan and grant applications for various Water Bond 2000 programs.

Division of Safety of Dams - Senior Engineering Geologist/October 1995 – June 2000

Serve as an engineering geology consultant to a staff of 47 design and field engineers performing regulatory oversight of dam construction and operation. Evaluate existing and proposed dam sites for geologic and seismic hazards; review and comment on geotechnical site assessments and construction plans and specifications; act as technical adviser to staff during construction; inspect and document geologic conditions. Communicate findings to staff, consultants, and owners through written reports, briefings, and meetings. Give presentations to DSOD Board of Consultants on development of state-of-the-art procedures. Develop information and monitor changes in the regional geologic environment.

Division of Local Assistance - Associate Engineering Geologist/November 1993 - October 1995

As a member of the Water Quality Assessment Program I independently performed surface and groundwater studies, and environmental site assessments for both DWR and federal and local government agencies. Negotiated contracts, authored task assignments, and oversaw the work of consultants. Authored reports with analysis of data from various types of exploration and sampling programs. Assembled a Department-wide Site Assessment Project Team and assisted in developing DWR policy for site assessments. Trained team members and gave staff presentations outlining program and team goals.

Division of Local Assistance - Associate Engineering Geologist/October 1992 - October 1993

Under the auspices of the Proposition 82 Water Conservation Bond Law of 1988, I directed the Department's technical, environmental, and economic review of ground water recharge and water supply loan applications. Performed independent technical review and certified feasibility and construction loan applications. Provided assistance to public water agencies regarding compliance with environmental and water rights regulations, and institutional and legal requirements for project development. Coordinated Department's technical review and comment on various CEQA documents.

KLEINFELDER, INC.

Project Geologist - 4 years

Worked in regional offices throughout Central and Southern California, Western Arizona and Southern Nevada performing geotechnical investigations and environmental site characterizations. Supervised field exploration activities throughout the Central Valley and Central Coast of California. Directed water resource, groundwater recharge, geotechnical, and environmental site characterization studies. Marketed clients, determined scope of services, and prepared cost proposals. Monitored project schedules and billing. Briefed clients and supervisors on project status. Authored reports providing geotechnical recommendations for various federal, state, municipal, and commercial projects. Inspected remediation and stabilization projects. Other responsibilities included compilation of data using spreadsheets and databases, conducting literature and aerial photograph review, and writing reports.

EARTH SYSTEMS, INC.

Staff Geologist - 3 years

Designed and supervised installation of monitoring well arrays, extraction wells, drains, dewatering, and slope monitoring equipment throughout central and southern California. Directed subsurface exploration using various drilling and geophysical techniques. Conducted liquefaction, fault rupture hazard, and coastal bluff stability studies. Conducted special inspections of excavations, deep foundations, reinforced earth, and concrete. Performed numerical analyses for slope stability, liquefaction, and earthquake ground motion studies. Authored reports containing cross-sections, maps, and graphs presenting various types of water resource and geotechnical data.

**DECLARATION OF
Roger Johnson**

I, **Roger Johnson**, declare as follows:

1. I am presently employed by the California Energy Commission in the Siting, Transmission and Environmental Protection Division as the **Deputy Director**.
2. A copy of my professional qualifications and experience is attached hereto and incorporated by reference herein.
3. I helped prepare the staff testimony on the **Project Description and Compliance Conditions of Certification**, for the **EI Segundo Energy Center Amendment (00-AFC-14C)**, based on my independent analysis of the Petition to Amend and supplements thereto, data from reliable documents and sources, and my professional experience and knowledge.
4. It is my professional opinion that the prepared testimony is valid and accurate with respect to the issue(s) addressed therein.
5. I am personally familiar with the facts and conclusions related in the testimony and, if called as a witness, could testify competently thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge and belief.

Dated: 10/12/15

Signed: 

At: Sacramento, California

Resume

Roger E. Johnson

Education:

B.S. in Biological Conservation (Fish and Wildlife Management) from California State University in Sacramento.

Experience:

California Energy Commission

November 2011 to Present

Deputy Director, Siting, Transmission and Environmental Protection Division

I plan, organize and direct the programs and resources of the Siting, Transmission and Environmental Protection Division and ensure these activities are coordinated with the other programs within the Commission. I work under the administrative direction of the Executive Director and serve as a member of the Executive Director's Management Team, and I am responsible for working with the Team to implement the mission and goals of the Commission. I advise the Commission, Governor's Office, members of the Legislature and other government agencies on matters related to energy facility siting and compliance, environmental protection and transmission in California. I participate in the development, evaluation and implementation of Commission and state energy policy, and represent the Division before the Energy Commission, the State Legislature and the general public.

Prior to my current assignment, I worked as the project manager for the licensing of large and complex energy generation and transmission line projects and managed the environmental, siting and compliance offices. I am knowledgeable in all aspects of licensing and compliance of power generation projects.