

DOCKETED

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DECLARATION OF
Abdel-Karim Abulaban

I, **Abdel-Karim Abulaban**, declare as follows:

1. I am presently employed by the California Energy Commission in the Siting, Transmission and Environmental Protection Division as an **Associate Civil Engineer in the Water section**.
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 **Soil and Water**, for the **High Desert Power Plant Amendment (97-AFC-1C)**, 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: February 4, 2016

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 to 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
Matthew S Layton**

I, **Matthew S Layton**, declare as follows:

1. I am presently employed by the California Energy Commission in the Siting, Transmission and Environmental Protection Division as a **Supervising Mechanical Engineer** in the **Engineering Office**.
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 **Soil and Water Resources**, for the **High Desert Power Plant Amendment (97-AFC-1C)**, 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: Feb 10, 2016

Signed: _____

Matthew S Layton

At: Sacramento, California

Paul D. Marshall

EDUCATION

SAN DIEGO STATE UNIVERSITY, CALIFORNIA
Geological Sciences with Emphasis in Engineering - 1985

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, Geosciences Unit/ January 2008 - Present

CALIFORNIA DEPARTMENT OF CONSERVATION

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

STATE WATER RESOURCES CONTROL BOARD

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

CALIFORNIA DEPARTMENT OF WATER RESOURCES

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

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

Division of Local Assistance - Associate Engineering Geologist/November 1992 - October 1995

KLEINFELDER, INC. (California)

Project Geologist - 4 years

EARTH SYSTEMS, INC. (California)

Staff Geologist - 3 years

**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 Supervisor of the Geosciences Unit.
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 Soil and Water Resources Section, for the High Desert Power Plant Amendment (97-AFC-1C), 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: 2/12/14

Signed: 

At: Sacramento, California

MATTHEW S. LAYTON

Experience Summary

Thirty three years of experience in the electric power generation field, including regulatory compliance and modification; research and development; licensing of nuclear, coal-fired, peaking and combined cycle power plants; and engineering and policy analysis of regulatory issues.

Education

B.S., Applied Mechanics, University of California, San Diego.

Registered Professional Engineer - Mechanical, California.

Experience

2009-present – Supervising Mechanical Engineer, Engineering Office, Siting, Transmission and Environmental Protection Division, California Energy Commission.

1987-2009 – Senior Mechanical Engineer, STEP Division, California Energy Commission. Review and evaluate power plant proposals, identify issues and resolutions; coordinate with other agencies; and prepare testimony, in the areas of:

- Air quality resources and potential impacts, and mitigation measures;
- Public Health; and
- Transmission Line Safety and Nuisance.

Prepared Commission demonstration project process; contributed to the Energy Technology Status, Energy Development, and Electricity Reports; Project Manager for demonstration projects; evaluated demonstration test plans, procedures, data and reports; disseminated test results; and managed research and development contracts.

1983-1986 – Control Systems Engineer, Bechtel Power Corporation. Managed a multi-disciplined effort to environmentally qualify client's safety related nuclear plant equipment. Performed analyses, calculations and reviews against vendor test reports, NRC guidelines and plant normal and postulated accident conditions.

1981-1983 – Engineer, GA Technologies, Inc. Supervised design and procurement of full-scale test assembly used to evaluate design changes to operating reactor graphite core assembly. Conducted experiment to determine the relationship of graphite oxidation rate to water concentration, temperature, and helium pressure. Environmentally qualified essential and safety related nuclear power plant equipment to comply with NRC guidelines.