

**DOCKET**

**00-AFC-1C**

DATE July 31 2009

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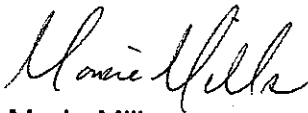
July 31, 2009

California Energy Commission  
Docket Unit  
1516 Ninth Street  
Sacramento, CA 95814-5512

Subject: **DECLARATION OF GARY RUBENSTEIN AND DECLARATION OF STEVE ROYALL DOCKET NO. (00-AFC-1C)**

Enclosed for filing with the California Energy Commission is the original **DECLARATION OF GARY RUBENSTEIN AND DECLARATION OF STEVE ROYALL**, for the Gateway Generating Station Docket No.(00-AFC-1C).

Sincerely,



Marie Mills

STATE OF CALIFORNIA  
Energy Resources  
Conservation and Development Commission

In the Matter of:

Complaint Against Gateway  
Generating Station

Brought by ACORN, Local Clean  
Energy, Alliance, CARE, et al.

**DOCKET NO. 00-AFC-1C**

**DECLARATION OF GARY  
RUBENSTEIN**

I, Gary Rubenstein, declare as follows:

1. I am presently employed by Sierra Research, as a Senior Partner.
2. A copy of my professional qualifications and experience is included with the attached testimony and is incorporated by reference in this Declaration.
3. I prepared the attached testimony relating to the Complaint Against Gateway Generating Station brought by ACORN, Local Clean Energy, Alliance, CARE, et al.
4. It is my professional opinion that the attached prepared testimony is valid and accurate with respect to issues that it addresses.
5. I am personally familiar with the facts and conclusions related in the attached prepared testimony and if called as a witness could testify competently thereto.

I declare under penalty of perjury, under the laws of the State of California, that the foregoing is true and correct to the best of my knowledge and that this declaration was executed at Sacramento, CA on July 31, 2009.

  
Gary Rubenstein

STATE OF CALIFORNIA

Energy Resources  
Conservation and Development Commission

In the Matter of:

Complaint Against Gateway  
Generating Station

Brought by ACORN, Local Clean  
Energy, Alliance, CARE, et al.

DOCKET NO. 00-AFC-1C

DECLARATION OF STEVE ROYALL

I, Steve Royall, declare as follows:

1. I am presently employed by Pacific Gas & Electric Company (PG&E), as Senior plant manager of the Gateway and Colusa Generating Stations.
2. A copy of my professional qualifications and experience is included with the attached testimony and is incorporated by reference in this Declaration.
3. I prepared the attached testimony relating to the Complaint Against Gateway Generating Station brought by ACORN, Local Clean Energy, Alliance, CARE, et al.
4. It is my professional opinion that the attached prepared testimony is valid and accurate with respect to issues that it addresses.
5. I am personally familiar with the facts and conclusions related in the attached prepared testimony and if called as a witness could testify competently thereto.

I declare under penalty of perjury, under the laws of the State of California, that the foregoing is true and correct to the best of my knowledge and that this declaration was executed at Gateway Generating Station, CA on July 31, 2009.

  
\_\_\_\_\_  
Steve Royall

I. Name: Gary Rubenstein  
Steve Royall

II. Purpose:

Our testimony addresses facts pertinent to Pacific Gas & Electric Company's (PG&E) Answer to Complaints Against Gateway Generating Station Brought by ACORN, Local Clean Energy, Alliance, CARE, et al. and specific responses to questions requested by the Siting Committee's Notice of Evidentiary Hearing and Committee Order dated July 27, 2009.

III. Qualifications:

Gary Rubenstein - I am presently employed at Sierra Research, and have been for the past 27 years and am presently a Senior Partner with that organization. I have a Bachelor of Science Degree in Engineering and I have over 35 years of experience in the field of air pollution research and control. I have provided air quality support to PG&E relative to the Gateway Generating Station since 2005, when PG&E was considering the acquisition of the then-Contra Costa Unit 8 project. A detailed description of my qualifications is contained in the attached resume.

Steve Royall - I am presently employed at PG&E and have been for the past 2 years and am presently a senior plant manager with that organization. I am currently assigned to both Colusa and Gateway as plant manager. I had primary responsibility for plant operation during the construction, commissioning and commercial operation of the Gateway facility. I have been in the power generation business for thirty years in a variety of roles. I have been involved in the commissioning of eight power plants and held managerial positions at many others. A detailed description of my qualifications is contained in the attached resume.

To the best of our knowledge all referenced documents and all of the facts contained in this testimony are true and correct. To the extent this testimony contains opinions, such opinions are our own. We make these statements and provide these opinions freely and under oath for the purpose of constituting sworn testimony in this proceeding.

IV. Exhibits

In addition to this written testimony, I am sponsoring the following exhibits in this proceeding.

**Exhibit No. 300.** Commission Decision dated May 30, 2001

- Exhibit No. 301** PG&E's Petition for Amendment (Dry Cooling Amendment), dated December 2006
- Exhibit No. 302** PG&E's Petition for Amendment (NOISE-8), dated April 16, 2007
- Exhibit No. 303** Commission Order approving Petition for Amendment (NOISE-8), dated May 23, 2007
- Exhibit No. 304** Commission Order approving Petition for Amendment (Dry Cooling Amendment), dated August 1, 2007
- Exhibit No. 305** PG&E's Petition for Amendment (refrigerant in inlet air chiller), dated November 5, 2007
- Exhibit No. 306** PG&E's Petition for Amendment (add two water tanks), dated November 14, 2007
- Exhibit No. 307** Commission Order approving Petition for Amendment (refrigerant in inlet air chiller), dated December 5, 2007
- Exhibit No. 308** Commission Order approving Petition for Amendment (add two water tanks), dated January 2, 2008
- Exhibit No. 309** PG&E's Petition for Amendment (air quality conditions), dated January 15, 2008
- Exhibit No. 310** PG&E's Petition for Amendment (sewer line change), dated February 15, 2008
- Exhibit No. 311** Commission Staff Approval of Petition for Amendment (sewer line change) as insignificant amendment, dated February 19, 2008
- Exhibit No. 312.** PG&E's Withdrawal of Petition for Amendment (air quality conditions), dated February 13, 2008
- Exhibit No. 313.** PG&E's Petition to Amend Various Air Quality Conditions (consistency amendment), dated May 7, 2009
- Exhibit No. 314** June 2004 EPA/BAAQMD PSD Re-Delegation Agreement

**Exhibit No. 315** PG&E and BAAQMD Compliance Agreement  
concerning Conditions of Certification AQ-29, 30 and  
32, dated November 25, 2008

V. Opinion and Conclusions

Responses to questions in the CEC Order:

**1. Has GGS begun commercial operation?**

**Response**

Yes.

**2. If GGS has been operating commercially, when did commercial operations begin?**

**Response**

GGS began commercial operation on January 4, 2009.

**3. Is GGS operating in conformity with the Conditions of Certification specified in the May 30, 2001 Final Decision on the Application for Certification including all subsequent Amendments to those Conditions of Certification approved by the Energy Commission?**

**Response**

Yes.

**4. Has GGS implemented the modifications specified in the May 7, 2009 Petition to Amend the project?**

**Response**

The May 7, 2009 Petition to Amend the project sought minor modifications to the following conditions of certification:

- Revise the facility PM10 emission limits to reflect elimination of the wet cooling tower.

The CEC license was amended in August 2007 to replace the wet cooling tower with a dry cooling system (Order No. 07-0801-2). Although references to the wet cooling tower were deleted and replaced with conditions relating to the wet surface-air cooler that is part of the dry

cooling system, the annual facility-wide PM10 emissions limits were not reduced to reflect the elimination of the PM10 emissions attributable to the cooling tower. This proposed change will reduce the allowable annual PM10 emissions from the facility from 112.2 tpy to 105.0 tpy in condition AQ-24, and correspondingly reduces the required offsets in conditions AQ-39 and AQ-40.1. GGS is in compliance with the current PM10 emission limit, which is higher than the limit proposed in the May 2009 Petition.

- Replace the permitted natural gas-fired preheater with a smaller dewpoint heater and increase allowable daily hours of operation.

The license includes a natural gas-fired fuel gas preheater rated at 12 MMBtu/hr (HHV). The license includes a condition limiting the heater to 16 hours per day of operation. PG&E substituted a smaller dewpoint heater rated at approximately 6.5 MMBtu/hr (HHV). Because the heat input rating of the dewpoint heater is less than 10 MMBtu/hr and the unit is fueled exclusively with natural gas, it is exempt from permitting under BAAQMD Rule 2, Section 2-1-114.1.2.2. PG&E has requested written concurrence from the District staff that the dewpoint heater is exempt from the requirement to obtain a permit, and has asked the District to eliminate the permit condition in the facility's current Authority to Construct related to the fuel gas heater, since the fuel gas heater was not installed.

As a separate matter, the District amended condition 47 in 2002 to limit daily heat input, rather than daily hours of operation, for the fuel gas heater in the original ATC. The CEC license still limits operation of the fuel gas heater to 16 hours per day, and does not contain a daily heat input limit. PG&E may need to operate the dewpoint heater up to 24 hours per day under extreme cold-weather conditions. In May 2009 Petition we propose to change AQ-47 from a limit on daily operating hours to a limit on daily heat input, consistent with the change that was made to the air permit in 2002. However, since the heat input rating of the dewpoint heater is only 6.5 MMBtu/hr, the daily limit for AQ-47 will be  $6.5 \text{ MMBtu/hr} * 24 \text{ hrs/day} = 156 \text{ MMBtu/day}$ , lower than the 192 MMBtu/day limit that is equivalent to the operational limit in the current license. The change in size and type of fuel gas heater also affects conditions AQ-5 and AQ-24.

The proposed changes in the May 2009 Petition would make these conforming changes to the CEC license.

To date, GGS has operated the smaller dewpoint heater in compliance with the current conditions of certification, and will continue to do so unless and until the Commission approves the requested amendment.

- Replace a motor driven fire water pump with a 300 kW Diesel fire pump at the facility.

The original project design called for an electric motor-driven fire water pump. However, PG&E was required by the fire marshal to install a Diesel fire pump engine. A permit application was filed with the District for this engine in December 2007; a corresponding petition for amendment was filed with the Commission in January 2008. When the January 2009 amendment application was withdrawn in January 2009, a second application for the Diesel fire pump engine was filed with the air district in March 2009. Copies of these applications were provided to the CEC. As part of the May 2009 petition, PG&E is requesting that the CEC add the new Diesel fire pump engine to the GGS license.

GGs operated the new Diesel engine for testing, for not more than 21 hours, during initial commissioning activities, prior to receipt of the permit for this engine. Upon discovering this error, GGS reported this violation to the BAAQMD and CEC CPM on October 14, 2008, and removed the engine from service, replacing it with a temporary, compliant engine that is operating under a state/district approved Portable Equipment Registration Program permit. Both the BAAQMD and CEC CPM were notified of this replacement. GGS is still seeking approval from both the BAAQMD and Commission for the permanent installation of the Diesel fire pump engine that has been required by the fire marshal.

- Revise references to "Contra Costa Unit 8" and "CC8" to reflect the current project name.

The Commission license makes numerous references to "Contra Costa Unit 8" and "CC8"; however, on January 3, 2007, the Commission approved a change to the project's name to Gateway Generating Station. The May 2009 Petition seeks to make conforming name changes throughout the Conditions of Certification. Since this name change involves no substantive requirements, GGS is operating in compliance with the current conditions of certification.

- Delete references to power augmentation.

The previous project owner proposed the use of power augmentation steam injection to increase plant output under certain operating conditions. In its August 2007 order, the Commission approved a design change eliminating the use of power steam augmentation. However, some air quality conditions of certification continue to refer to power steam augmentation. The May 2009 Petition seeks to eliminate these stray references to the power steam augmentation system that was deleted from the project design with the Commission's approval in August 2007.



With respect to these amendments, GGS is operating in compliance with the current conditions of certification since the elimination of power steam augmentation did not result in any changes to the plant's allowable emission rates or operating conditions.

- Provide for an optional diluent monitor.

Due to a typographic error, the original license required that the owner use a CO<sub>2</sub> monitor to measure the level of dilution in exhaust gases during the commissioning period, instead of the industry-standard O<sub>2</sub> monitor. The comparable monitoring requirement for post-commissioning emissions allowed the operator the choice of either a CO<sub>2</sub> or O<sub>2</sub> monitor. The previous owner had sought and received approval from the BAAQMD for the O<sub>2</sub> monitor during commissioning in 2002. However, the previous owner failed to obtain a conforming amendment to the Conditions of Certification. The details of the monitoring system, including the use of an O<sub>2</sub> diluent monitor, were submitted to the CEC CPM on August 21, 2008. GGS is operating in compliance with the current conditions of certification, which allow for the use of either an O<sub>2</sub> or CO<sub>2</sub> diluent monitor post-commissioning.

5. If the answer to question 4 is "yes," when were the modifications specified in the May 7, 2009 Petition to Amend the project implemented?

**Response**

Please see the responses to Question 4.

6. If any modifications described in questions 4 and 5 above require changes to any Conditions of Certification in the Final Decision or in subsequent amendments approved by the Energy Commission, please specify which Conditions of Certification require changes.

**Response**

Please see Attachment C in Exhibit 313 (May 2009 Petition for Amendment) which details the conditions of certification for which changes are requested.

**Differences between January 2008 Amendment Petition and May 2009 Amendment Petition**

The May 2009 Amendment Petition represents a subset of the changes requested in the January 2008 Amendment Petition. The following project

changes were requested in the January 2008 Amendment Petition, and then were withdrawn without resubmittal.

- Change the allowable emissions rates for the gas turbines during startup operations.

In the January 2008 Petition, GGS proposed to increase some of the allowable emission rates during startups, decrease others, and add some new emission limits during startups that were not present in the original license. (Reference Table 3, Attachment A to the January 2008 Petition.) GGS has complied with, and continues to comply with, the startup emission limits contained in the current conditions of certification.

- Reduce the permitted hourly emission rates for NO<sub>x</sub>, CO and PM<sub>10</sub>

In the January 2008 Petition, GGS proposed to decrease some of the permitted hourly emission limits for NO<sub>x</sub>, CO and PM<sub>10</sub>. (Reference Table 2, Attachment A to the January 2008 Petition.) GGS has complied with, and continues to comply with, the hourly emission limits contained in the current conditions of certification.

- Increase the allowable daily and annual CO emission rates for the facility

In the January 2008 Petition, GGS proposed to increase the allowable daily and annual CO emission limits for the facility. (Reference Table 7, Attachment A to the January 2008 Petition.) GGS has complied with, and continues to comply with, the daily and annual CO emission limits contained in the current conditions of certification.

- Change the allowable emission rates from the facility during commissioning activities

In the January 2008 Petition, GGS proposed to increase certain commissioning period emission limits for CO and POC, and decrease certain commissioning period emission limits for PM<sub>10</sub>. (Reference Table 9, Attachment A to the January 2008 Petition.) GGS complied with the commissioning emission limits contained in the current conditions of certification. The commissioning period ended in January 2009, and these limits are no longer in effect.



**sierra  
research.**

1801 J Street  
Sacramento, CA 95811  
Tel: (916) 444-6666  
Fax: (916) 444-8373  
Ann Arbor, MI  
Tel: (734) 761-6666  
Fax: (734) 761-6755

## Résumé

### **Gary S. Rubenstein**

#### Education

1973, B.S., Engineering, California Institute of Technology

#### Professional Experience

8/81 to present      Senior Partner  
Sierra Research

As one of the founding partners of Sierra Research, responsibilities include project management and technical and strategy analysis in all aspects of air quality planning and strategy development; project licensing and impact analysis; emission control system design and evaluation; rulemaking development and analysis; vehicle inspection and maintenance program design and analysis; and automotive emission control design, from the initial design of control systems to the development of methods to assess their performance in customer service. As the Partner principally responsible for Sierra Research's activities related to stationary sources, he has supervised the preparation of control technology assessments, environmental impact reports and permit applications for numerous industrial and other development projects, including over 17,000 megawatts of electrical generating capacity, throughout the United States.

While with Sierra, Mr. Rubenstein has managed and worked on numerous projects, including preparation of nonattainment plans; preparation and review of emission inventories and control strategies; preparation of the air quality portions of environmental review documents for controversial transportation, energy, mineral industry and landfill projects; preparation of screening health risk assessments and supporting analyses; and the development of air quality mitigation programs. Mr. Rubenstein has managed the preparation of air quality licensing applications for over 13,000 megawatts of generating capacity before the California Energy Commission, and has managed air quality analyses for over 21,000 megawatts of generating capacity in a variety of jurisdictions.

Mr. Rubenstein has presented testimony and served as a technical expert witness before numerous state and local regulatory agencies, including the U.S. Environmental Protection Agency, California State Legislative Committees, the California Air Resources Board, the California Energy Commission, the California Public Utilities Commission, numerous California air pollution control districts, the Connecticut Department of Environmental Protection, the Hawaii Department of Health, and the

Alabama Department of Environmental Management. Mr. Rubenstein has also served as a technical expert on behalf of the California Attorney General and Alaska Department of Law, and has provided expert witness testimony in a variety of administrative and judicial proceedings.

6/79 to 7/81                      Deputy Executive Officer  
California Air Resources Board

Responsibilities included policy management and oversight of the technical work of ARB divisions employing over 200 professional engineers and specialists; final review of technical reports and correspondence prepared by all ARB divisions prior to publication, covering such diverse areas as motor vehicle emission standards and test procedures, motor vehicle inspection and maintenance, and air pollution control techniques for sources such as oil refineries, power plants, gasoline service stations and dry cleaners; review of program budget and planning efforts of all technical divisions at ARB; policy-level negotiations with officials from other government agencies and private industry regarding technical, legal, and legislative issues before the Board; representing the California Air Resources Board in public meetings and hearings before the California State Legislature, the California Energy Commission, the California Public Utilities Commission, the Environmental Protection Agency, numerous local government agencies, and the news media on a broad range of technical and policy issues; and assisting in the supervision of over 500 full-time employees through the use of standard principles of personnel management and motivation, organization, and problem solving.

7/78 – 7/79                      Chief, Energy Project Evaluation Branch  
Stationary Source Control Division  
California Air Resources Board

Responsibilities included supervision of ten professional engineers and specialists, including the use of personnel management and motivation techniques; preparation of a major overhaul of ARB's industrial source siting policy; conduct of negotiations with local officials and project proponents on requirements and conditions for siting such diverse projects as offshore oil production platforms, coal-fired power plants, marine terminal facilities, and almond-hull burning boilers.

During this period, Mr. Rubenstein was responsible for the successful negotiation of California's first air pollution permit agreements governing a liquefied natural gas terminal, coal-fired power plant, and several offshore oil production facilities.

10/73 to 7/78

Staff Engineer  
Vehicle Emissions Control Division  
California Air Resources Board

Responsibilities included design and execution of test programs to evaluate the deterioration of emissions on new and low-mileage vehicles; detailed analysis of the effect of California emission standards on model availability and fuel economy; analysis of proposed federal emission control regulations and California legislation; evaluation of the cost-effectiveness of vehicle emission control strategies; evaluation of vehicle inspection and maintenance programs, and preparation of associated legislation, regulations and budgets; and preparation of detailed legal and technical regulations regarding all aspects of motor vehicle pollution control. Further duties included preparation and presentation of testimony before the California Legislature and the U.S. Environmental Protection Agency; preparation of division and project budgets; and creation and supervision of the Special Projects Section, a small group of highly trained and motivated individuals responsible for policy proposals and support in both technical and administrative areas (May 1976 to July 1978).

### Credentials and Memberships

Air & Waste Management Association (Member, Board of Directors, Golden West Section; Member, Board of Directors, Mother Lode Chapter)

American Society of Mechanical Engineers

Qualified Environmental Professional, Institute of Professional Environmental Practice, 1994

### Selected Publications (Author or Co-Author)

"Dealing with the Scarcity of PM Offsets," presented to Law Seminars International: Air Quality Regulation in California on April 15, 2008, in Los Angeles, CA.

"Field Demonstration of a Dilution-Based Particulate Measurement System," presented to Stationary Source Sampling and Analysis for Air Pollutants on March 5, 2008, in San Diego, CA.

"The California Global Warming Solutions Act of 2006 – Implementation Considerations," presented to Law Seminars International: Energy in California 2007 on September 17, 2007, in San Francisco, CA.

"Preparing for and Conducting Air Quality Compliance Audits," presentation to California Desert Air Working Group on October 19, 2006, in Big Bear Lake, CA.

“Test Results from Sugar Cane Bagasse and High Fiber Cane Co-fired with Fossil Fuels,” Biomass and Bioenergy, Vol. 30, Issue 6. pp. 565-574. June 2006.

“Gas Turbine Particulate Matter Emissions – Update,” Presentation to ASME/EIGTI Turbo Exp. on June 9, 2005 in Reno, NV.

“Gas Turbine Startup Emissions,” Presentation to ASME/IGTI Turbo Expo on June 9, 2005 in Reno, NV.

“Gas Turbine Particulate Matter Emissions – Update,” Presentation to ASME/IGTI Turbo Expo on June 18, 2003 in Atlanta, GA.

“Sources of Uncertainty When Measuring Particulate Matter Emissions from Natural Gas-Fired Combustion Turbines,” Presented to Air & Waste Management Association on March 30, 2001 in San Diego, CA.

“An Analysis of the Effect on Emissions of Allowing Drive-Thru Service Lanes,” Sierra Research Report No. SR97-11-01, prepared for California Business Properties Association, November 10, 1997.

“Searles Valley Air Quality Study (SVAQS) Final Report,” Sierra Research Report No. SR94-02-01, prepared for North American Chemical Company, February 1994.

“Regulatory Strategies for Reducing Emissions from Marine Vessels in California Waters,” Sierra Research Report No. SR91-10-01, prepared for the California Air Resources Board, October 4, 1991.

“An Analysis of the Effect on Emissions of Eliminating Drive-Thru Services Lanes,” Sierra Research Report No. SR91-07-03, prepared for California Restaurant Association, July 25, 1991.

“Development of the CALIMFAC California I/M Benefits Model,” Sierra Research Report No. SR-91-01-01, prepared for the California Air Resources Board, Agreement No. A6-173-64, January 1991.

“Criteria Pollutant Emission Inventory for the Coachella Valley Study Area,” Sierra Research Report No. SR90-11-01, prepared for South Coast Air Quality Management District, November 1990.

“User’s Guide to the CALIMFAC California I/M Benefits Model,” Prepared for the California Air Resources Board, May 1990.

“Potential Emissions and Air Quality Effects of Alternative Fuels – Final Report,” Sierra Research Report No. SR89-03-04, prepared for Western States Petroleum Association, March 28, 1989.

"Interprecursor Offset Ratios for Ozone in the Searles Valley," Sierra Research Report No. SR89-03-02, prepared for Kerr-McGee Chemical Company, March 17, 1989.

"An Assessment of the Quality of California's Air Pollution Emissions Inventory," Sierra Research Report No. SR88-05-01, prepared for Western Oil and Gas Association, May 1988.

"Trends in Visibility-Related Emissions Affecting the R-2508 Restricted Airspace," Sierra Research Report No. SR88-05-02, prepared for Western Oil and Gas Association, May 1988.

"Volume I, Executive Summary: Impacts of Air Quality Regulations on Visibility-Related Emissions in the California R-2508 Restricted Airspace," Sierra Research Report No. SR88-03-02, prepared for Western Oil and Gas Association, March 1988.

"Volume II, Determination of California Air Basins Which Can Affect Visibility in the R-2508 Restricted Airspace," Sierra Research Report No. SR88-03-03, prepared for Western Oil and Gas Association, March 1988.

"Air Quality Impact Analysis for the Soledad Biomass Resource Recovery Project," Sierra Research Report No. SR87-10-01, prepared for Western Forest Power Corp., October 1987.

"Air Quality Impact Analysis for the Honey Lake Biomass Power Plant Project," Sierra Research Report No. SR87-05-01, prepared for GeoProducts-Zurn/NEPCO, May 22, 1987.

"1986 Update to the Kern County Nonattainment Area Plan," Sierra Research Report No. SR86-03-01, prepared for Kern County Air Pollution Control District and Kern Council of Governments, March 1986.

"An Analysis of Test Results on Grancor Pollution Control Devices for Automotive Retrofit Programs," Sierra Research Report No. SR85-09-01, prepared for Grancor, September 1985.

"Temperature Correction Factors for California's Motor Vehicle Emissions Model," Sierra Research Report No. SR85-06-01, prepared for the California Air Resources Board, June 1985.

"Critique of the EPA I/M Benefits Model for 1980 and Older Model Cars," Sierra Research Report No. SR85-06-02, prepared for the California Air Resources Board, June 1985.

"Emission Factors for 1980 and Later Model Year California Passenger Cars and Light-Duty Trucks," Sierra Research Report No. SR85-06-03, prepared for the California Air Resources Board, June 1985.

"Technology Assessment for Light-Duty Vehicle Compliance with a 0.4g/m NOx Standard," Sierra Research Report No. SR85-06-04, prepared for the California Air Resources Board, June 1985.

"Development of California's I/M Credits Model," Sierra Research Report No. SR85-06-06, prepared for the California Air Resources Board, June 1985.

"Evaluation of Automotive CO Emissions Control Techniques at Low Temperatures (METFAC Report 2)," Sierra Research Report No. SR84-11-01, prepared for Alaska Department of Environmental Conservation, November 1984.

"Critical Metal Consumption in Automotive Catalysts – Trends and Alternatives," Sierra Research Report No. SR83-12-01, prepared for Congress of the United States, Office of Technology Assessment, December 1983.

"Low Temperature Automotive Emissions (METFAC, Report 2)," Sierra Research Report No. SR83-11-01, prepared for Alaska Department of Environmental Conservation, November 1983.

"Proposed Emission Cutpoints for the Anchorage Inspection and Maintenance Program," Sierra Research Report No. SR83-06-01, prepared for Municipality of Anchorage, Alaska, June 1983.

"A Study of Air Pollution Offsets for Cogeneration and Resource Recovery Technologies in Kern County – Interim Report: Project Inventory," Sierra Research Report No. SR82-01-01, prepared for Kern County Air Pollution Control District and Kern County Council of Governments, January 1983.

"Automotive Retrofit Devices for Improving Cold Weather Emissions and Fuel Economy," Sierra Research Report No. SR82-10-01, prepared for U.S. Army Cold Regions Research and Engineering Laboratory, October 1982.

"Carbon Monoxide Air Quality Trends in Fairbanks, Alaska," Sierra Research Report No. SR82-09-01, prepared for Fairbanks North Star Borough, September 1982.

"Cogeneration and Resource Recovery in Kern County – Final Report," Sierra Research Report No. SR82-06-01, prepared for Kern County Air Pollution Control District and Kern County Council of Governments, June 1982.

"Cold Weather CO Problems – An Analysis of Research Needs," Sierra Research Report No. SR82-04-01, prepared for Alaska Department of Environmental Conservation, April 1982.



"The Potential for the Use of Catalytic NOx Controls on Stationary Sources in California," Sierra Research Report No. SR82-02-01, February 1982.

"Staff Report - Cogeneration Technology and Resource Recovery Status Report," California Air Resources Board, November 1981.

"The Effect of Clean Air Act Amendments on High Altitude Passenger Cars," Sierra Research Report No. SR81-09-01, September 1981.

"Staff Report - Public Meeting to Discuss Proposed Guidelines for the Control of Emissions from Coal-Fired Power Plants (81-11-2)," California Air Resources Board, June 1981.

"Staff Report - Public Hearing to Consider Amendments to Title 13, Section 1960.1, CAC, Regarding Exhaust Emission Standards and Test Procedures for 1983 and Subsequent Model Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles," California Air Resources Board, May 1981.

"Staff Report - Suggested Control Measure for the Control of Hydrogen Sulfide Emissions from Geothermal Operations at the Geysers Known Geothermal Resources Area (81-6-1)," California Air Resources Board, April 1981.

"Staff Report - Proposed Methodology for Calculating a NOx Amelioration Factor for Light-Duty Diesel Vehicles," California Air Resources Board, April 1981.

"Staff Report - A Proposed Air Resources Board Policy Regarding Incineration as an Acceptable Technology for PCB Disposal," California Air Resources Board, March 1981.

"Staff Report - Public Meeting to Discuss a Proposed Air Resources Board Policy Regarding Incineration as an Acceptable Technology for PCB Disposal," California Air Resources Board, March 1981.

"Staff Report - Suggested Control Measure for the Control of Oxides of Nitrogen Emissions from Electric Utility Gas Turbines (81-4-2)," California Air Resources Board, March 1981.

"Staff Report - Public Hearing to Consider Amendments to Title 13, Section 1956.7, CAC, Regarding Exhaust Emission Standards and Test Procedures for 1984 and Subsequent Model Heavy Duty Engines (81-1-1)," California Air Resources Board, January 1981.

"Gasohol: Technical, Economic or Political Panacea?" SAE Paper No. 800891, 1980.

"Staff Reports Related to Public Hearing to Consider Amendments to Rule 475.1 of the South Coast Air Quality Management District and to Rule 59.1 of the Ventura County Air Pollution Control District, Which Control the Emissions of Oxides of Nitrogen from Power Plants," California Air Resources Board, January 1980; March 1980; November 1980; December 1980.

"Staff Report - Public Hearing to Consider Confirmation of Emergency Adoption of Section 1960.4, Title 13, CAC, Regarding Special NOx Standards for Small-Volume Manufacturers (80-25-1)," California Air Resources Board, December 1980.

"Staff Report - Public Hearing to Consider Adoption of California Assembly- Line Test Procedures for Certain 1982 Model Year Vehicles and Adoption of Section 2060, Title 13, CAC, Incorporating the Test Procedures (80-26-4)," California Air Resources Board, December 1980.

"Staff Report - Public Hearing to Consider Repeal of 1955-1965 Model Year Motor Vehicle Exhaust Retrofit Emission Control Requirements - Title 13, CAC Section 2007 (80-20-2)," California Air Resources Board, October 1980.

"Staff Report - Public Hearing to Consider Amendments to Rule 424 of the Kern County APCD Controlling Emissions of Sulfur Oxide from Steam Generators Used in Oil Field Operations," California Air Resources Board, October 1980.

"Staff Report - Proposed Amendments to Title 13, CAC, Sections 2035-42, Regarding Warranty of Emissions-Related Components of Vehicles (80-18-1)," California Air Resources Board, September 1980.

"Staff Report - Proposed Amendment to Title 13, CAC Regarding Standards and Test Procedures for Modified Vehicles - 1981 and Subsequent Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles," California Air Resources Board, September 1980.

"Staff Report - Public Meeting to Discuss Issues Related to Power Plant Siting," California Air Resources Board, September 1980.

"Staff Report - Emergency Public Hearing to Consider Amendments to Title 13, CAC, Regarding Exhaust Emission Standards for Oxides of Nitrogen (NOx) from Vehicles Produced by Small Manufacturers for the 1982-1986 Model Years of Passenger Cars, Light-Duty Trucks and Medium- Duty Vehicles," California Air Resources Board, August 1980.

"Staff Report - Emergency Public Hearing to Consider Adoption of a Particulate Exhaust Emission Standard for 1982 and Subsequent Model Year Light-Duty Diesel Vehicles and to Consider Amending the 1982 NOx Exhaust Emission Standard for Those Vehicles (80-15-2)," California Air Resources Board," August 1980.

"Cogeneration Technology and Resource Recovery Status Report," California Air Resources Board, August 1980.

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# Steve Royall

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## **Summary of qualifications**

30 years in all aspects of the power generation business. I have been involved in the construction, commissioning and commercial operation of many combined cycle and geothermal power plants during this period.

## **Work experience**

### **2007-Present Pacific Gas and Electric**

#### **Senior Plant Manager Gateway Generating Station.**

Responsible to staff, train, commission (as the owner's commissioning manager) and operate a 600 MW 2X1 combined cycle facility located in Antioch California. This facility began commercial operation in January 2009.

Reporting directly to the Senior VP of power Generation for all fossil projects and working directly with the PG&E construction director, I am also the plant manager for the new 660 MW Colusa Generating station in Colusa California slated for Commercial operation in late 2010.

2006 to 2007 Northern California Power Agency Roseville Ca  
Plant manager, combustion turbine projects. Project manager for New Lodi combined cycle power plant.

I also served a term on a temporary assignment as the Assistant General Manager of Power Generation.

Responsible for the safe and reliable operation and maintenance of five simple cycle fast start frame 5 peaking units and one base load steam injected turbine facility. These facilities are located geographically from Roseville CA to Alameda CA presenting unique staffing and maintenance challenges. Primarily responsible for safe and reliable plant operation, budgeting for both facilities, plant personnel and for both major and routine plant maintenance. Present staff includes 16 full time employees. As AGM of power generation, primarily responsible for all NCPA generating facilities. Safe and reliable operation of all facilities (geothermal, hydro and combustion turbines), budgeting, commission staff reports and interface with member agencies. Present staff includes three plant managers and 92 full time employees.

As project manager for the new Lodi project primary responsibility revolved around initial site permitting, CEC compliance and certification as well as initial project design.

2004-2006

Calpine Corporation

Yuba City Ca

**General Manager, Sutter projects.**

As general manager, I maintained overall commercial responsibility for the safe and reliable operation of five power plants and one thermal host facility. Those duties include all contract management, budgeting, staffing, compliance and the safe operations and maintenance of each of these facilities. Additionally I worked with Western power to create the states first pseudo tie, allowing Sutter to sell 550 MW into the NP-15 market. Through a reorganization of shared staffing I was able to achieve annual cost reductions of 500K and achieve the highest project availability in the history of the Sutter energy center. Total project's staff is currently at 65 employees with a substantial total projects budget annually. Sutter projects have a unique mix of gas fired generators (merchant, Qualifying facilities and peaking units) and contract issues. I participated as a member of the Calpine fleet reliability team, which deals with all NERC, FERC and WECC issues as they relate to Calpine and their facilities.

2001-2004

Calpine Corporation

Goldendale Washington.

**Plant Manager, Goldendale Energy Center**

After a short term as the facilities operations manager, I was promoted to the plant manager role where I had primary responsibility for operational input through the project's construction phase, during commissioning and into the commercial operational phase of the project. I was responsible to manage and maintain a 270 MW combined cycle facility. The plant maintained a full time staff of 18 employees. The plant was operated as a merchant facility and dispatched as market conditions warranted. I maintained primary responsibility to manage the assets budget, maintain compliance and ensure plant reliability and availability. I was involved in a team which worked with Bonneville power and the local utility KPUD, to permit, construct and commission over twenty five miles of transmission line to the project as well as procure firm transmission from the facility.

During this period I participated in many of Calpine's performance enhancing efforts. I was an original member of the Calpine operational review for excellence plant audit team. This team identified and implemented best practices within the fleet. I was a member of the Calpine Low Cost 2003 team that examined and streamlined the Calpine central operations procurement and predictive and preventative maintenance structures. I also participated in the creation of the Calpine corporate Lock Out Tag Out program, and the corporate plant operator qualification and training program. Additionally I worked with regional peers to create a separate control area and a reserve pooling program.

1999-2001  
Ca.

Calpine Corporation

Pittsburg

Operations manager, Los Medano's (LMEC) Delta Energy Center (DEC)

As operations manager for both facilities during the construction and commissioning phase, I had primary responsibility to hire train and supervise over 35 operations staff during the construction, commissioning and operation of the two combined cycle facilities (LMEC 550 MW, DEC, 800MW). Those duties included on call duty for plant emergencies, the creation of plant operating procedures, safety training and system training. The procedures and the system training were used to start the facility. During this period I also participated in construction meetings both on site and at various corporate offices and attended all factory acceptance testing for major equipment at both sites.

1996-1999  
Ca.

Calpine Corporation

Geysers

Operating Foreman

As the operating foreman I had primary operational responsibility for several geysers plants. Those duties included all aspects of first line supervision (startup and shutdown as needed, on call responsibility and supervision for all plant operations personnel).

1986-1996

Calpine Corporation

Geysers, Ca.

Operator Technician A/Lead Operator

Operator at both Bear Canyon and West Ford Flat facilities. Duties included general plant operation during the construction, commissioning and operational phases of these plants. Those duties included on call duty, operational procedural development and trainer for all incoming operations personnel.

**References;**

Mike Rogers- President, Calpine Power Corporation (925) 479 6816.

Bryan Bertacchi, COO, Radback Energy. (916) 769 9640.

Ed Warner, NCPA power generation Hydro plant manager (209) 768-5887.



BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT  
COMMISSION OF THE STATE OF CALIFORNIA  
1516 NINTH STREET, SACRAMENTO, CA 95814  
1-800-822-6228 – [WWW.ENERGY.CA.GOV](http://WWW.ENERGY.CA.GOV)

IN THE MATTER OF THE COMPLAINT AGAINST  
**GATEWAY GENERATING STATION**

Docket No. 00-AFC-1C  
PROOF OF SERVICE  
(Revised 7/31/09)

**PROJECT OWNER**

Steve Royal  
Pacific Gas & Electric Company  
Gateway Generating Station  
3225 Wilbur Avenue  
Antioch, CA 94509  
[sgre@pge.com](mailto:sgre@pge.com)

**PROJECT OWNER'S COUNSEL**

Scott Galati  
Galati-Blek LLP  
455 Capitol Mall, Ste. 350  
Sacramento, CA 95814  
[sgalati@gb-llp.com](mailto:sgalati@gb-llp.com)

**INTERESTED AGENCIES**

Alexander G. Crockett, Esq.  
Assistant Counsel  
Bay Area Air Quality Management  
District  
939 Ellis Street  
San Francisco, CA 94109  
[scrockett@baaqmd.gov](mailto:scrockett@baaqmd.gov)

California ISO  
[e-recipient@caiso.com](mailto:e-recipient@caiso.com)

**COMPLAINANTS**

ACORN C/O  
Deborah Behles, Esq.  
James Barringer, Esq.  
Lucan Williams, Graduate Fellow  
Golden Gate Univ. School of Law  
Environmental Law & Justice Clinic  
536 Mission Street  
San Francisco, CA 94105-2968  
[dbehles@ggu.edu](mailto:dbehles@ggu.edu)  
[lwilliams@ggu.edu](mailto:lwilliams@ggu.edu)

ACORN C/O  
John Adams  
2401 Stanwell Drive  
Unit 320  
Concord, CA 94520  
[caacombpro@acorn.org](mailto:caacombpro@acorn.org)

Rory Cox  
Local Clean Energy Alliance  
436 14<sup>th</sup> Street  
Oakland, CA 94612  
[rocox@pacificenvironment.org](mailto:rocox@pacificenvironment.org)

CARE  
c/o Bob Sarvey and Rob Simpson  
27216 Grandview Avenue  
Hayward CA 94542  
[SarveyBob@aol.com](mailto:SarveyBob@aol.com)  
[rob@redwoodrob.com](mailto:rob@redwoodrob.com)

**ENERGY COMMISSION**

Jeffrey D. Byron  
Commissioner and Presiding Member  
Siting Committee  
[jbyron@energy.state.ca.us](mailto:jbyron@energy.state.ca.us)

Karen Douglas  
Chair and Associate Member  
Siting Committee  
[kldougla@energy.state.ca.us](mailto:kldougla@energy.state.ca.us)

Kenneth Celli  
Hearing Officer  
[kcelli@energy.state.ca.us](mailto:kcelli@energy.state.ca.us)

Ron Yasney  
Compliance Project Manager  
[ryasney@energy.state.ca.us](mailto:ryasney@energy.state.ca.us)

Kevin W. Bell  
Staff Counsel  
[kbell@energy.state.ca.us](mailto:kbell@energy.state.ca.us)

Elena Miller  
Public Adviser's Office  
[publicadviser@energy.state.ca.us](mailto:publicadviser@energy.state.ca.us)

**DECLARATION OF SERVICE**

I, Ashley Y. Garner, declare that on July 31, 2009, I served and filed copies of the attached **DECLARATION OF GARY RUBENSTEIN AND DECLARATION OF STEVE ROYALL**. The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list. The document has been sent to both the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, in the following manner:

**(Check all that Apply)**

**For service to all other parties:**

sent electronically to all email addresses on the Proof of Service list;

by personal delivery or by depositing in the United States mail at Sacramento, California with first-class postage thereon fully prepaid and addressed as provided on the Proof of Service list above to those addresses **NOT** marked "email preferred."

**AND**

**For filing with the Energy Commission:**

sending an original paper copy and one electronic copy, mailed and emailed respectively, to the address below (**preferred method**);

**OR**

depositing in the mail an original and 12 paper copies, as follows:

**CALIFORNIA ENERGY COMMISSION**

Attn: Docket No. 00-AFC-1C  
1516 Ninth Street, MS-4  
Sacramento, CA 95814-5512  
[docket@energy.state.ca.us](mailto:docket@energy.state.ca.us)

I declare under penalty of perjury that the foregoing is true and correct.

  
Ashley Y. Garner