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September 27, 2004

David Turner
Federal Energy Regulatory Commission
Office of Energy Projects
888 First Street, NE
Washington, DC 20426

RE: Application for Panel Member list for Hydropower Licensing Study
Dispute Resolution (Docket No. AD04-4-000)

Dear Mr. Turner:

I am applying to be included on the above referenced panel member list. My responses to the four items listed in the application are below.

1) Technical Expertise : Socio-Economics

After working at Pacific Gas & Electric Company for ten years in a variety of positions, I earned an MBA and M.S. in Energy & Resources from the University of California at Berkeley in 2001. For the last three years I have managed my own successful energy and water resources consulting firm specializing in making complex analyses accessible to a variety of stakeholders.

My work has included analyzing two years of electricity and air emissions permit trading activity for evidence of gaming on the part of generators for the Electricity Oversight Board, developing models to compare electric generation costs for a variety of technologies for the California Energy Commission, building a reservoir re-operations model in support of increased instream flows without adverse impacts to agricultural deliveries

for the San Joaquin River System for CALFED, developing a hydrogenation model for the Pit River System for the California Hydropower Reform Coalition and writing an economic analysis of a proposed hydroelectric project in a FERC licensing case for the Sierra Club. I have participated in several FERC licensing and re-licensing cases, analyzing the economic and generation impacts of various operating requirements. I am proficient with economic input-output analysis (using IMPLAN), and statistical analysis (JMP, STATA). I also have extensive experience in analyzing financial and rate impacts of proposed projects to a utility. With extensive business experience in the energy industry, I am able to quickly and independently understand and analyze a wide range of issues in energy and water resources.

Prior to attending graduate school at U.C. Berkeley, I worked for ten years at PG&E in positions of increasing responsibility. I developed and advocated regulatory policy leading teams into both natural gas and electric industry restructuring. I led the team implementing major reforms in California's Natural Gas Industry under an accelerated deadline, and represented PG&E at contentious meetings with the California ISO developing electric transmission policy, resulting in savings of over \$60 million per year. During electric industry restructuring, I selected and implemented a new risk management system for energy trading and filled in as an energy trader for several months. I also developed extensive spreadsheet models for rate analysis, pricing and financial risk management, accelerating the speed and quality of management reporting and customer negotiations. Throughout my years at PG&E I wrote testimony for and participated in legal and regulatory proceedings.

2) Knowledge of construction and operation impacts

I have built reservoir operations models and am quite familiar with the effects of operating rules on storage capacity, flood protection, water deliveries, instream flows, and hydroelectric generation. I have developed models analyzing the potential for increasing fish flows without adversely impacting agricultural water deliveries and flood protection, including probabilistic analysis of the potential for spill events or water shortages due to modification in reservoir operations. I have also developed models analyzing the impacts of various minimum instream flow regimes on hydroelectric generation and generation costs and revenues. I am also generally familiar with flow patterns required for anadromous fish

populations and the potential impacts of operations on spawning and migration. While I am most experienced in economic analysis, I am also quite familiar with stream restoration.

3) Knowledge of relevant laws.

With coursework in water law and extensive experience analyzing water transfers, I am experienced in the application of water law on reservoir operations and downstream impacts as well as water transfers. I am familiar with the appropriative, riparian and mixed-use doctrines used in the western states as well as the more important case law developments. I am also familiar with the application of public trust, beneficial use, and federal reserved rights to water transfers and reservoir operations.

Through several years of negotiating Qualifying Facilities contracts for PG&E, I am familiar with PURPA. I have also worked on electric utility and natural gas pipeline rate cases before the CPUC and FERC and am familiar with the accounting and rate making regulations at both the state and federal level. I worked on implementing PG&E's rules and tariffs in both gas and electric industry restructuring and am very familiar with FERC Order 888 and the implementing of retail competition and regional transmission operators.

Again, though I specialized in economics, I am also familiar with the Endangered Species Act, the National Environmental Policy Act, and the Wild and Scenic Rivers Act, particularly as they relate to reservoir and aqueduct operations and water transfers.

4) Ability to Promote Constructive Communications

My office specializes in making complex and technical analyses available and transparent to a variety of non-technical stakeholders in legal and regulatory forums. Nearly every project I work on involves summarizing and presenting results of detailed models and analyses in a thorough, clear and concise manner. I am adept at interpreting and highlighting the most salient findings for a particular audience. I frequently receive positive feedback from my clients as being a clear and concise writer and presenter.

My work often involves working with parties on several sides of an issue. I've represented utilities as well as environmental groups and facilitated

meetings between the two. With an MBA and utility experience I understand the economic and financial implications of operating and policy decisions. I also have an academic and professional background in energy and water resources and frequently work with environmental groups supporting an increased dedication of resources towards aquatic and riparian habitats.

I also have training and experience in conflict management, mediation and facilitation that I draw on regularly in representing clients in legal and regulatory proceedings and leading contentious meetings to productive conclusions.

References

Richard Roos-Collins
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OBJECTIVE

Providing strategic insights through integrated financial, economic and hydrologic analysis. Proven record managing independent energy and water resource consulting firm, earning joint Masters Degree, and analyzing, advocating, and negotiating policy and resource issues over ten years through natural gas and electric industry restructuring at Pacific Gas & Electric.

EDUCATION

University of California, Berkeley Haas School of Business, Master of Business Administration Energy and Resources Group, Master of Science, Energy and Water Resources	1998-2001
Tufts University, Medford, MA BA in Economics and German, Magna Cum Laude	1985-1989

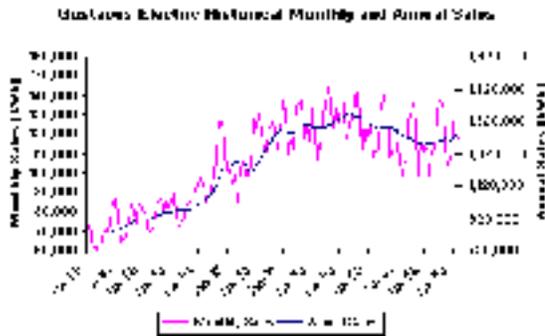
WORK EXPERIENCE

Independent Consultant, 100th Meridian Managed all aspects of successful energy and water resources consulting business. Specialized in making complex analyses and models accessible and transparent to variety of stakeholders in regulatory forums. Developed hydrologic, financial and economic models and analyses for reservoir re-operation, hydro generation, energy and air emissions permit trading and water transfers.	2000-Present
Summer Intern, Commissioner Duque's Office, CPUC Analyzed the restructuring of the natural gas and electric industries and made recommendations regarding water wheeling legislation.	Summer 2000
Senior Resource Analyst, Electric Transmission Services, PG&E Developed and promoted policy changes before the California Independent System Operator, saving PG&E over \$60 million in annual payments. Successfully advocated progressive solutions in uncertain regulatory environment, summarizing and presenting controversial proposals in concise, well-written documents and in public meetings.	1998-1999
Senior Resource Planner, Power Market Planning Structured and implemented extensive Energy Trading Risk Management System. Created and analyzed hedging strategies for energy trading. Developed extensive spreadsheets and databases for risk measurement, pricing analysis and deal evaluation that significantly improved accuracy, confidence and responsiveness of sales team.	1997-1998
Senior Market Analyst, Gas Services Developed and advocated transportation and storage pricing strategies, increasing margins and earning revenues of \$7 million per month from sales of storage and transportation products. Improved customer relations through responsive and thorough pricing support for sales staff.	1994-1997

OTHER EXPERIENCE

Resource Analyst, Gas Regulatory Policy and Analysis, PG&E	1991-1994
Contract Negotiator, Qualifying Facilities Contracts, PG&E	1989-1991
Course Instructor, Colorado Outward Bound School	Summer 1995

100TH MERIDIAN PROJECT EXAMPLES

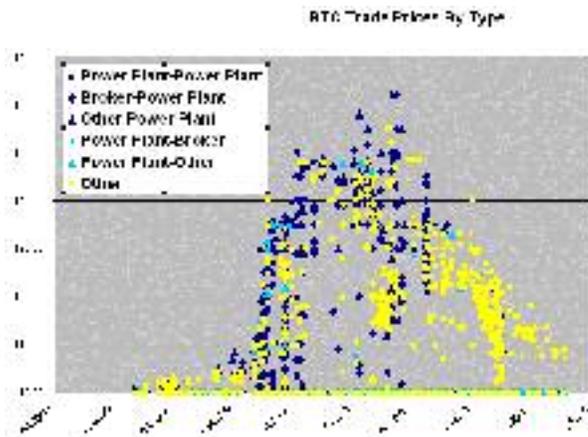
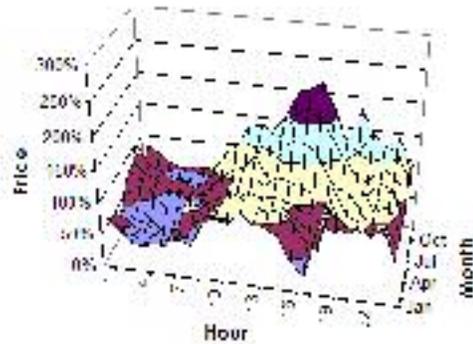


Economic Analysis of Proposed Falls Creek Hydro Project: *The Sierra Club*

Economic analysis of the 800 kW Falls Creek Hydroelectric Project proposed by Gustavus Electric Co. in Alaska. Found that Gustavus Electric's assumptions were unreasonably optimistic and that the project was likely to generate power at costs closer to \$0.40/kWh than the \$0.14/kWh indicated in the project application.

Pit River Hydro Generation Model: *California Hydropower Reform Coalition*

Developed a robust yet intuitive Excel/Visual Basic model to estimate hydropower generation at different flows on the Pit River System. Faced with a second model showing costs as much as 50% lower than PG&E's, the utility was encouraged to reveal its model and discuss alternative assumptions and approaches. The California Hydropower Reform Coalition made a convincing case for minimum flows that are nearly twice as high as those proposed by PG&E.



Electricity and Air Emissions Permit Trading Analysis: *Electricity Oversight Board*

A Microsoft Access database combining nearly two years of hourly electric generation and price data with NOx emissions and emissions permit trading activity. Analyzed trading activity of various industry participants to demonstrate how air emission permit trading could be used to manipulate power prices.

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