

STATE OF CALIFORNIA
California Energy Commission

Minutes of the September 22, 2010, Energy Commission Business Meeting.

The meeting was called to order at 10:04 by Chairman Karen Douglas. The Pledge of Allegiance was lead by Chairman Douglas.

Present:

Karen Douglas, Chairman
James D. Boyd, Vice Chair
Jeffrey D. Byron, Commissioner

Anthony Eggert, Commissioner
Robert B. Weisenmiller, Commissioner

1. CONSENT CALENDAR. (Items on the Consent Calendar will be taken up and voted on as a group. A commissioner may request that an item be moved and discussed later in the meeting.)
 - a. TRANSMISSION AND REGIONAL PLANNING POLICY COMMITTEE. Possible approval of the Transmission and Regional Planning Policy Committee recommendation to file joint comments with the California Public Utilities Commission on the Federal Energy Regulatory Commission (FERC) Notice of Proposed Rulemaking entitled *Transmission Planning and Cost Allocation by Transmission Owning and Operating Public Utilities* [Docket RM10-23-000], which would in part modify FERC Order 890. Contact: Stephen Adams.

At the request of Commissioner Byron, Item 1a was moved to discussion.

- b. UNIVERSITY OF CALIFORNIA, RIVERSIDE. Possible approval of Amendment 1 to Contract 500-07-012 with the Regents of the University of California, Riverside, to extend the contract 16 months and adjust rates to reflect rising benefits costs. The project is evaluating the performance of natural gas vehicles using various natural gas blends, and the air emissions from using those gases. Contact: Marla Mueller.
 - c. CITY OF IMPERIAL BEACH. Possible approval of amending Energy Efficiency Conservation Block Grant Agreement CBG-09-104 with the City of Imperial Beach to reallocate \$53,847 from the 'Materials/Supplies' category to 'Non-Labor Contract Expenses.' The change will streamline the project so that the purchase and installation of 159 induction cobrahead streetlights can be performed under one contract. (ARRA funding.) Contact: Serena Fong.
 - d. CITY OF SAN BUENAVENTURA. Possible approval of an amendment to Loan 011-09-ECE-ARRA and its Letter of Agreement to correct the recipient's name from City of Ventura to City of San Buenaventura. Contact: Joseph Wang.
 - e. STATE CONTROLLER'S OFFICE. Possible approval of Amendment 1 to Contract 400-09-010 with the State Controller's Office, adding \$22,385 to continue to provide warrant issuance support to the California Cash For

Appliances program. The amendment will enable the State Controller's Office to make the technical changes necessary to support the July 29, 2010 expansion of the rebate program. (ARRA funding.) Contact: Lorraine White.

Commissioner Byron moved and Commissioner Weisenmiller seconded approval of the Consent Calendar and Item 1a. The vote was unanimous. (5-0)

2. CITY OF WEST SACRAMENTO. Possible approval of the City of West Sacramento's proposed Locally Adopted Energy Standards for residential and nonresidential newly constructed buildings to require greater energy efficiency than the 2008 Building Energy Efficiency Standards. Contact: Joe Loyer. (5 minutes)

Commissioner Eggert moved and Commissioner Byron seconded approval of the City of West Sacramento's locally adopted energy standards. The vote was unanimous. (5-0)

3. CITY OF OAKLAND. Possible approval of the City of Oakland's proposed Locally Adopted Energy Standards for residential and nonresidential newly constructed buildings and additions and alterations to existing buildings to require greater energy efficiency than the 2008 Building Energy Efficiency Standards. Contact: Joe Loyer. (5 minutes)

Commissioner Eggert moved and Vice Chair Boyd seconded approval of the City of Oakland's locally adopted energy standards. The vote was unanimous. (5-0)

4. CALIFORNIA STATEWIDE COMMUNITIES DEVELOPMENT AUTHORITY. Possible approval of Contract 400-10-003 for \$33,176,912 with California Statewide Communities Development Authority to support Energy Upgrade California, the state-wide energy and water efficiency and renewable energy generation retrofit program for single- and multi-family residential and commercial buildings. (ARRA funding.) Contact: Panama Bartholomy. (20 minutes)

Commissioner Eggert moved and Vice Chair Boyd seconded approval of Contract 400-10-003. The vote was unanimous. (5-0)

5. ELECTRIC POWER RESEARCH INSTITUTE. Possible approval of Contract 500-10-022 for \$1,856,899 with Electric Power Research Institute (EPRI) to accelerate adoption of adjustable-speed drive technology and embedded communication and control technologies in the appliance market. (PIER electricity funding.) Contact: Bradley Meister. (5 minutes)

Commissioner Byron moved and Vice Chair Boyd seconded approval of Contract 500-10-022. The vote was unanimous. (5-0)

6. PORTLAND ENERGY CONSERVATION, INC. Possible approval of Contract 400-10-002 for \$1.5 million with Portland Energy Conservation, Inc. to provide technical support services for the planning and implementation of a comprehensive program to improve the energy efficiency of existing residential and nonresidential buildings, as required by AB 758. (ARRA and ERPA funding.) Contact: Martha Brook. (10 minutes)

Commissioner Byron moved and Commissioner Eggert seconded approval of Contract 400-10-002. The vote was unanimous. (5-0)

7. CALIFORNIA INSTITUTE FOR ENERGY AND ENVIRONMENT. Possible approval of Amendment 2, adding \$440,966 to Work Authorization MRA-070-02 under contract 500-02-004 with the Regents of the University of California - California Institute for Energy and Environment. The project is to evaluate candidate underground cable sensing techniques. The increased funding is to perform additional work making prototypes for testing the techniques that have been developed under this contract. (PIER electricity funding.) Contact: Jamie Patterson. (5 minutes)

Commissioner Byron moved and Vice Chair Boyd seconded approval of the amendment to Work Authorization MRA-070-02. The vote was unanimous. (5-0)

8. UNIVERSITY OF CALIFORNIA, SANTA BARBARA. Possible approval of Contract 500-10-021 for \$383,787 with the Regents of the University of California, Santa Barbara to create a framework for assessing cumulative biological impacts resulting from solar energy projects in the California desert. (PIER electricity funding.) Contact: Misa Milliron. (5 minutes)

Commissioner Byron moved and Vice Chair Boyd seconded approval of Contract 500-10-021. The vote was unanimous. (5-0)

9. GAS TECHNOLOGY INSTITUTE. Possible approval of Agreement PIR-10-021 for a grant of \$400,000 to Gas Technology Institute to demonstrate the effectiveness of a commercially available membrane filtration system to clean and reuse wastewater for evaporative cooling. (PIER electricity funding.) Contact: Richard Sapudar. (5 minutes)

Commissioner Eggert moved and Commissioner Byron seconded approval of Agreement PIR-10-021. The vote was unanimous. (5-0)

10. TRUSTEES OF THE CALIFORNIA STATE UNIVERSITY. Possible approval of three grant applications, totaling \$279,170, from the Public Interest Energy Research (PIER) program's Energy Innovations Small Grants Solicitation. (PIER electricity funding.) Contact: Diana Mircheva. (10 minutes)

Commissioner Byron moved and Vice Chair Boyd seconded approval of the three grant applications. The vote was unanimous. (5-0)

- a. 10-01-07T, University of California Los Angeles, *Bonding of Metal-Plastic Composites for Lightweight, Fuel Efficient Vehicles*, \$89,920. This project's objective is to determine the feasibility of using a manufacturing technique called atmospheric pressure plasma to activate material surfaces and promote adhesive bonding. The resulting metal-polymer material will weigh half as much as sheet steel and will retain the same appearance and structural durability.
- b. 10-01-05T, Momentum Dynamics Corporation, Malvern, Pennsylvania, *Wireless Electric Vehicle Recharging Systems*, \$95,000. This project's objective is to determine the feasibility of using magnetic resonance induction for wireless

electric vehicle charging. Field testing will be conducted on a commercial shuttle van.

- c. 10-01-13T, University of California, Davis, *Smart Photovoltaic PHEV/EV Charging System Using Second-Life Lithium Batteries*, \$94,250. This project's objective is to determine the feasibility of using second-life lithium-ion traction batteries in a photovoltaic powered electric vehicle charging station with a Smart Grid interface.
11. TRUSTEES OF THE CALIFORNIA STATE UNIVERSITY. Possible approval of two grant applications, totaling \$189,700, from the Public Interest Energy Research (PIER) program's Energy Innovations Small Grants Solicitation. (PIER natural gas funding.) Contact: Diana Mircheva. (10 minutes)

Item 11 will be re-noticed for a future Business Meeting agenda.

- a. 10-01-06T, Exergy Technologies, Napa, California, *Multi-Fuel Super-Compound Energy Efficiency Analysis*, \$95,000. This project's objective is to determine the feasibility of flex-fuel supercharged compound cycle engines for use in light-truck vehicles. Software models will be developed based on performance testing on a stock engine and modified to a compound configuration.
 - b. 10-01-01T, Multispark, LLC, San Diego, California, *Application of Novelty Spark Plug in Compressed Natural Gas Engines*, \$94,700. This project's objective is to determine the feasibility of modifying a patented spark plug for application in a compressed natural gas engine. Heat range value and tip geometry will be adjusted to optimize the performance of the spark plug.
12. LAWRENCE BERKELEY NATIONAL LABORATORY. Possible approval of Work Authorization UC MRA-02-087, under Contract 500-02-004 with the Regents of the University of California for an amount not to exceed \$220,593. Work will be done by the Lawrence Berkeley National Laboratory to develop a roadmap on innovative technologies and concepts for beneficial use of carbon dioxide. (PIER electricity funding.) Contact: John Reed. (5 minutes)

Vice Chair Boyd moved and Commissioner Byron seconded approval of Work Authorization UC MRA-02-087. The vote was unanimous. (5-0)

13. ANDES CONSULTING, LLC. Possible approval of Purchase Order 10-409.00-001 for \$225,000 with Andes Consulting, LLC, to provide programming services for application and database development and support for the Energy Commission's information systems. In addition, the vendor will document the systems, and transition support to Energy Commission staff. This agreement will provide the Information Technology Services Branch with a vehicle to obtain timely development and support services for the Commission's essential application and database systems. (ERPA funding.) Contact: Atlas Hill. (5 minutes)

Commissioner Eggert moved and Commissioner Byron seconded approval of Purchase Order 10-409.00-001. The vote was unanimous. (5-0)

14. **BEST MANAGEMENT PRACTICES AND GUIDANCE MANUAL: DESERT RENEWABLE ENERGY PROJECTS.** Possible approval of *Best Management Practices and Guidance Manual: Desert Renewable Energy Projects*, a Renewable Energy Action Team report issued by the U.S. Bureau of Land Management, Fish and Wildlife Service; California Department of Fish and Game; and the Energy Commission to fulfill Executive Order S-14-08 and U.S. Department of Interior Secretarial Order 3285 directives. Contact: Eugenia Laychak. (10 minutes)

Item 14 is deferred to a future Business Meeting.

15. **IVANPAH SOLAR ELECTRIC GENERATING STATION (07-AFC-5).** Possible adoption of the Presiding Member's Proposed Decision on the Ivanpah Solar Electric Generating Station, and Errata. The proposed project is three solar thermal power plants and shared facilities in close proximity to the Ivanpah Dry Lake, in San Bernardino County, California on federal land managed by the Bureau of Land Management. The proposed project would generate 400 megawatts. Contact: Paul Kramer. (35 minutes)

Commissioner Byron moved and Vice Chair Boyd seconded adoption of the Presiding Member's Proposed Decision, Errata, and changes to the Errata agreed to at this meeting, and the three adoption orders circulated in draft form. The vote was unanimous. (5-0)

16. **Minutes:** Possible approval of the minutes of the September 15, 2010, Business Meeting.

Commissioner Eggert moved and Commissioner Byron seconded approval of the Minutes. The vote was 4-0-1. Vice Chair Boyd abstained.

17. **Commission Committee Presentations and Discussion:**

Vice Chair Boyd reported on the recent meeting of the National Petroleum Council.

18. **Chief Counsel's Report:**

Chief Counsel Michael Levy requested a closed session pursuant to Government Code Section 11126(e) to discuss *California Communities Against Toxics et al v. South Coast Air Quality Management District* (Los Angeles County Superior Court, BS124624); and *Western Riverside Council of Governments v. Department of General Services* (Riverside County Superior Court RIC10005849); and to determine whether facts and circumstances exist that warrant the initiation of litigation; or that constitute a significant exposure to litigation against the Commission.

19. **Executive Director's Report:** None.

20. **Public Adviser's Report:** None.

21. **Public Comment:** None.

22. **Internal Organization and Policy.** None.

Appearances:

Mr. Randall Goodwin, City of West Sacramento
Ms. Heather Klein, City of Oakland
Ms. Kathleen Vogel, California Public Utilities Commission
Mr. Jeffrey Harris, Ellison Schneider and Ellis, LLP
Mr. John Woolard, BrightSource Energy, Inc.
Ms. Barbara Boyle, Sierra Club
Ms. Ileene Anderson, Center for Biological Diversity
Mr. Greg Suva, California Native Plant Society
Mr. Bart Brizzee, County of San Bernardino
Mr. Michael Connor, Western Watershed Project
Mr. Kevin Emmerich, Basin and Range Watch
Mr. Lloyd Gunn, Desert Advisory Committee
Mr. Conrad Lancz

There being no further business, the meeting was adjourned to closed session.

Respectfully submitted,

HARRIET KALLEMEYN
Secretary to the Commission