

Minutes of the August 15, 2007, Energy Commission Business Meeting.

The meeting was called to order by Chairman Jackalyne Pfannenstiel. The Pledge of Allegiance was lead by Chairman Pfannenstiel.

Present:

Jackalyne Pfannenstiel, Chairman

James D. Boyd, Vice Chair

John L. Geesman, Commissioner

Jeffrey D. Byron, 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. ARROWHEAD SYMPOSIUM. Possible approval of a co-sponsorship of \$2,000, staff time and use of the Energy Commission's name for the Annual Arrowhead Symposium: *Transportation, Land Use, and Environmental Connection, "Planning for Growth: Demographics, Employment, Housing and Resources"* in Lake Arrowhead, California, October 14-16, 2007. Contact: Panama Bartholomy.
 - b. SOUTHERN CALIFORNIA CLEAN VEHICLE TECHNOLOGY EXPO. Possible approval of a co-sponsorship of \$4,950 and use of the Energy Commission's name for the Southern California Clean Vehicle Technology Expo, October 16-17, in Ontario, California. Contact: Asish Gautam.
 - c. UNIVERSITY OF CALIFORNIA, DAVIS – CENTER FOR AQUATIC BIOLOGY. Possible approval of use of the Energy Commission logo on materials for a conference presenting the results of PIER-funded research on the ecological effects of pulsed flow discharges from hydropower plants. Contact: Joseph O'Hagan.
 - d. LAWRENCE BERKELEY NATIONAL LABORATORY. Possible approval of Amendment 1 to PIER Work Authorization MR-051 with the U. S. Department of Energy, Lawrence Berkeley National Laboratory, under the UC Master Research Agreement Number 500-02-004 with The Regents of the University of California – Office of the President/CIEE, for a no cost time extension of twelve months from August 31, 2007 to August 31, 2008, for *Transmission Cost Allocation Methodologies*. Contact: Jamie Patterson.

Commissioner Geesman moved and Commissioner Boyd seconded approval of the Consent Calendar. The vote was unanimous. (4-0)

2. CALIFORNIA RESOURCES AGENCY. Possible approval of Amendment 1 adding \$135,000 to Contract 200-07-001 with the California Resources Agency. The additional funding is for the Resources Agency's Climate Change Executive. (ERPA funding.) Contact: Cheryl Raedel/Randy Roesser. (5 minutes)

Item 2 was removed from the agenda.

3. SHANDAM CONSULTING. Possible approval of Purchase Order 07-409.00-003 for \$200,000 to Shandam Consulting for information technology network engineering and architecture services that are highly specialized where the knowledge and expertise is not available within Commission staff. (ERPA funding.) Contact: Derek Davis. (5 minutes)

Commissioner Boyd moved and Commissioner Geesman seconded approval of Purchase Order 07-409.00-003. The vote was unanimous. (4-0)

4. UNIVERSITY OF CALIFORNIA, BERKELEY-CENTER FOR THE BUILT ENVIRONMENT. Possible approval of Contract 500-06-049 for \$600,000 with the UC Berkeley Center for the Built Environment. The project is expected to: (1) improve commissioning and energy analysis tools for underfloor air distribution systems for building ventilation; (2) investigate comfort and energy aspects of efficient radiant building cooling systems; (3) investigate and integrate a commercial fenestration design tool with the CBE thermal comfort simulation tool; and, (4) improve the usability of the thermal comfort simulation tool. (PIER electricity funding.) Contact: Chris Scruton. (5 minutes)

Item 4 was returned to the Research, Development and Demonstration Committee for review.

5. TRUSTEES OF THE CALIFORNIA STATE UNIVERSITY. Possible approval of seven grant applications, totaling \$619,913, in response to Solicitation Cycle 06-01G of the Energy Innovations Small Grant Program. (PIER funding.) Contact: Dave Michel. (10 minutes)
 - a. Altex Technologies Corporation, Sunnyvale, CA. (06-01-11G) *High Efficiency and Power System for CCHP Applications*, \$94,915.
 - b. Functional Coating Technology, LLC, Evanston, IL. (06-01-12G) *Highly Efficient Production of Electricity and Syngas Using a Natural-Gas Fuel Cell*, \$94,998.
 - c. Meruit, Inc., Santa Monica, CA. (06-01-06G) *Testbed Design for Gas Turbine Exhaust Pressure Recovery*, \$50,000.
 - d. Energy Concepts Company, LLC, Annapolis, MD. (06-01-05G) *Solar Thermal Heat Pump/Chiller*, \$95,000.
 - e. Oregon State University, Corvallis, OR. (06-01-30G) *Enabling the Thermochemical Production Of Hydrogen From Water: Investigating Of The Bunsen Reaction In A Low Vapor Pressure Solvent*, \$95,000.
 - f. University of Southern California, Los Angeles, CA. (06-01-29G) *A Pore Flow Reactor for Landfill Gas Clean-up*, \$95,000.
 - g. Colorado State University, Fort Collins, CO. (06-01-20G) *Feasibility Assessment of Operating Gas Engines on Alternative Gas Fuels*, \$95,000.

Commissioner Geesman moved and Commissioner Byron seconded approval of the seven recommended grant applications. The vote was unanimous. (4-0)

6. TRUSTEES OF THE CALIFORNIA STATE UNIVERSITY (CSU). Possible approval of nine grant applications, totaling \$853,675, in response to Solicitation Cycle 06-03 of the Energy Innovations Small Grant Program. (PIER funding.) Contact: Dave Michel. (10 minutes)

- a. University of Southern California, Los Angeles, CA. (06-03-59) *Carbon Molecular Sieve Membrane with Tunable Properties*, \$95,000.
- b. GC Environmental, Inc. Anaheim, CA. (06-03-40) *UV-Photodecomposition of Siloxane*, \$95,000.
- c. Engsysco, Inc., Ann Arbor, MI. (06-03-56) *Feasibility Analysis of Clean Room Airflow Reduction Based on Establishment of Theoretical Basis and Required Validation*, \$95,000.
- d. Clustered Systems, Menlo Park, CA. (06-03-24) *Fanless Cooling System for Servers and Storage Systems*, \$95,000.
- e. Nexajoule, Inc., Boulder, CO. (06-03-26) *Residential Sub-Wetbulb Evaporative Chiller System*, \$95,000.
- f. Desert Research Institute, Reno, NV. (06-03-31) *Utility Monitoring System Hardware Development*, \$94,859.
- g. University of California, Santa Cruz, Castro Valley, CA. (06-03-42) *Evaluation of a CO2 Mitigation Option for California Coastal Power Plants*, \$95,000.
- h. San Diego State University, San Diego, CA. (06-03-07) *Feasibility Study of a Flexible Symmetrical Turbine Blade for Wind Energy Conversion*, \$94,856.
- i. EPB Consulting Group, Moraga, CA. (06-03-50) *Residential Integrated Ventilation Energy Controller*, \$93,960.

Commissioner Geesman moved and Commissioner Byron seconded approval of the nine recommended grant applications. The vote was unanimous. (4-0)

7. UNIVERSITY OF CALIFORNIA, DAVIS. Possible approval of Contract 500-07-004 for \$114,996 with the University of California, Davis to investigate climate-induced range shifts of commercially and ecologically important tree species in the Sierra Nevada. (PIER electricity funding.) Contact: Guido Franco. (5 minutes)

Commissioner Geesman moved and Commissioner Boyd seconded approval of Contract 500-07-004. The vote was unanimous. (4-0)

8. **Minutes**

- Approval of the June 20, 2007, Business Meeting Minutes.

No action was taken as there was not a quorum of members who were present at the June 20 meeting.

- Approval of the August 1, 2007, Business Meeting Minutes.

Commissioner Boyd moved and Commissioner Geesman seconded approval of the August 1, 2007 minutes. The vote was 3-0-1. Chairman Pfannenstiel abstained.

9. **Commission Committee Presentations/Discussion**

10. **Chief Counsel's Report** – None

11. **Executive Director's Report** - None

12. **Legislative Director's Report** – None

13. **Public Adviser's Report** – None

14. **Public Comment** – None

There being no further business, the meeting was adjourned at 10:35.

Respectfully submitted,

HARRIET KALLEMEYN
Secretary to the Commission