

State of California
California Energy Commission
Minutes of the February 10, 2016, Energy Commission Business Meeting

The meeting was called to order by Chair Weisenmiller. The Pledge of Allegiance was led by Chair Weisenmiller.

Present:

Robert B. Weisenmiller, Chair

Karen Douglas, Commissioner

J. Andrew McAllister, Commissioner, via
teleconference

David Hochschild, Commissioner

Janea A. Scott, Commissioner

The Chair announced that Commissioner McAllister will be participating in the business meeting via teleconference from the office of National Association of State Energy Officials in Arlington, Virginia, but that he is running late and that we will announce when he is on the line.

Chair announced that the funding source for Consent Item 1a should state EPIC and not ERPA.

Chair announced Item 2 will be held.

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. UNIVERSITY OF CALIFORNIA, IRVINE. Proposed resolution approving a purchase order with The Regents of the University of California's Advanced Power and Energy Program at Irvine, for \$4,999 to co-sponsor the 2016 International Colloquium on Environmentally Preferred Advanced Generation: Microgrid Global Summit in Irvine, California from March 22 -24, 2016; and approving use of the California Energy Commission logo in co-sponsorship advertisements. (ERPA funding) Contact: Eli Harland.

Commissioner Scott moved and Commissioner Hochschild seconded approval of Item 1 and the Chair took a roll call vote, in which Commissioners Weisenmiller, Douglas, Hochschild and Scott, each voted affirmatively. The vote was 4-0.

2. ENERGY COMMISSION COMMITTEE APPOINTMENTS. Possible approval of appointments to the Energy Commission's Standing Committees and Siting Case Committees. Contact: Kevin Barker. (5 minutes)

Item 2 was held. No action taken.

3. OTAY MESA ENERGY CENTER (99-AFC-5C). Proposed order approving the petition to amend the California Energy Commission Decision. The modifications proposed in the petition would replace certain combustion section components with Advanced Gas Path components on the two existing combustion turbines and will increase the combined generating capability of both turbines by approximately 15 megawatts. Staff proposes new conditions of certification TRANS-7 and TRANS-8 to avoid potential hazards to aviation from thermal plumes. Contact: Dale Rundquist (10 minutes). Contact: Dale Rundquist. (Staff presentation: 10 minutes)

Commissioner Douglas moved and Commissioner Scott seconded approval of Item 3 and the Chair took a roll call vote, in which Commissioners Weisenmiller, Douglas, Hochschild and Scott, each voted affirmatively. The vote was 4-0.

4. PIO PICO ENERGY CENTER (11-AFC-1C). Proposed order approving the petition to amend the California Energy Commission Decision. The modification would be limited to the proposed nominal (approximately 10 percent) increase in hourly heat input. Staff has proposed modifications to Air Quality conditions of certification to keep current with the Air District conditions and to TRANS-9 to avoid potential hazards to aviation from thermal plumes. Contact: Dale Rundquist. (Staff presentation: 10 minutes)

Commissioner Douglas moved and Commissioner Scott seconded approval of Item 4 and the Chair took a roll call vote, in which Commissioners Weisenmiller, Douglas, Hochschild and Scott, each voted affirmatively. The vote was 4-0.

5. MISSION ROCK ENERGY CENTER Project (15-AFC-02). Contact: Mike Monasmith. (Staff presentation: 5 minutes)
 - a. Proposed order approving the Executive Director's recommendation to find the Mission Rock Energy Center project application for certification (AFC) data inadequate. The Mission Rock Energy Center would be a natural gas-fired, nominal 255-megawatt simple cycle electrical generating facility that would include 100 MWhr (25 MW x 4 hours) of battery storage and synchronous condenser clutch technology to provide ancillary and grid reliability services. The project would be located in Ventura County, California, approximately 2 miles west of Santa Paula, near State Highway 126.

Commissioner Douglas moved and Commissioner Scott seconded approval of Item 5 and the Chair took a roll call vote, in which Commissioners Weisenmiller, Douglas, Hochschild and Scott, each voted affirmatively. The vote was 4-0.

6. PALEN SOLAR POWER PROJECT (09-AFC-07C). Contact: Ken Celli. (Staff presentation: 5 minutes)
 - a. Proposed order addressing Palen SEGS I, LLC's petitions to: 1) change ownership to Maverick Solar, LLC; and 2) extend the deadline to begin construction to June 15, 2017, conditioned upon submittal of an application to convert the approved solar trough technology to photovoltaic technology by June 15, 2016.
 - b. Proposed order appointing a Committee to conduct further proceedings on one or both of the above-described petitions.
 - c. Possible closed session deliberation on the above-described petitions. [Government Code Section 11126(c)(3)].

Before Item 6 public comments and adjournment to closed session, Commissioner McAllister joined the meeting via telephone conference. The Commissioners adjourned to closed session.

Upon returning from the closed session and after further public discussion among the Commissioners, Commissioner Douglas moved the denial of the motion to extend the deadline of construction and Commissioner Scott seconded and the Chair took a roll call vote, in which Commissioners Weisenmiller, Douglas, McAllister, Hochschild and Scott, each voted affirmatively. The vote was unanimous (5-0). Commissioner Douglas moved the order approving transfer of ownership and Commissioner Hochschild seconded and the Chair took a roll call vote, in which

Commissioners Weisenmiller, Douglas, McAllister, Hochschild and Scott, each voted affirmatively. The vote was unanimous (5-0).

7. 2015 INTEGRATED ENERGY POLICY REPORT. Proposed resolution approving "Final Lead Commissioner 2015 Integrated Energy Policy Report" (CEC-100-2015-001-CMF). Senate Bill 1389 (Bowen, Chapter 568, Statutes of 2002) requires the Energy Commission to prepare a biennial integrated energy policy report that assesses major energy trends and issues facing the state's electricity, natural gas, and transportation fuel sectors and provides policy recommendations to conserve resources; protect the environment; ensure reliable, secure, and diverse energy supplies; enhance the state's economy; and protect public health and safety (Public Resources Code § 25301[a]). The Energy Commission prepares these assessments and associated policy recommendations every two years, with updates in alternate years, as part of the Integrated Energy Policy Report. Contact: Heather Raitt. (Staff presentation: 10 minutes)

Commissioner McAllister moved and Commissioner Douglas seconded approval of Item 7 and the Chair took a roll call vote, in which Commissioners Weisenmiller, Douglas, McAllister, Hochschild and Scott, each voted affirmatively. The vote was unanimous (5-0).

8. ENERGYPRO V7.0. Proposed resolution approving EnergyPro Version 7.0, by EnergySoft, LLC., as an alternative calculation method for demonstrating performance compliance with the nonresidential provisions of the 2016 Building Energy Efficiency Standards, [California Code of Regulations, Title 24, Part 6, and associated administrative regulations in Part 1, Chapter 10 (Standards)]. Contact: RJ Wichert. (Staff presentation: 5 minutes)

Commissioner McAllister moved and Commissioner Douglas seconded approval of Item 8 and the Chair took a roll call vote, in which Commissioners Weisenmiller, Douglas, McAllister, Hochschild and Scott, each voted affirmatively. The vote was unanimous (5-0).

9. CONSOL HOME ENERGY EFFICIENCY RATING SERVICES, INC. (CHEERS). Proposed resolution approving certification of CHEERS as a Home Energy Rating System (HERS) provider for HERS Raters conducting field verification and diagnostic testing to demonstrate compliance with the 2013 Building Energy Efficiency Standards for residential newly constructed buildings and the CHEERS HERS Data Registry as a residential data registry. Contact: Suzie Chan. (Staff presentation: 10 minutes)

Commissioner McAllister moved and Commissioner Hochschild seconded approval of Item 9 and the Chair took a roll call vote, in which Commissioners Weisenmiller, Douglas, McAllister, Hochschild and Scott, each voted affirmatively. The vote was unanimous (5-0).

10. ASPEN ENVIRONMENTAL GROUP. Proposed resolution approving Agreement 300-15-003 with Aspen Environmental Group for a \$3,000,000 contract to provide technical support for the Energy Research and Development Division's EPIC program. Work will be assigned to the contractor on an "as needed" basis. (EPIC funding) Contact: Reta Ortiz. (Staff presentation: 5 minutes)

Commissioner Douglas moved and Commissioner Scott seconded approval of Item 10 and the Chair took a roll call vote, in which Commissioners Weisenmiller, Douglas, McAllister, Hochschild and Scott, each voted affirmatively. The vote was unanimous (5-0).

11. DEVELOPING A PORTFOLIO OF ADVANCED EFFICIENCY SOLUTIONS: TECHNOLOGIES AND APPROACHES FOR MORE AFFORDABLE AND COMFORTABLE BUILDINGS, PON-13-301. This solicitation sought proposals to fund

applied research and development projects that develop next generation end-use efficiency technologies and strategies for the building sector. Funded projects must emphasize emerging energy efficiency technologies and improvements to processes and operations in new construction and existing buildings. (EPIC funding) Contact: Brad Williams. (Staff presentation: 5 minutes)

- a. ELECTRIC POWER RESEARCH INSTITUTE. Proposed resolution approving Agreement EPC-15-020 with Electric Power Research Institute (EPRI) for a \$2,705,759 grant to develop a prototype thermostat for low-income and senior housing that will overcome the lack of broadband access. The thermostat will reduce HVAC runtime and energy use, have diagnostic capabilities and provide consumers with access to energy use information. The prototype will be tested in low income and senior housing units in Northern and Southern California.

Commissioner McAllister disclosed that his wife is a professor at King Hall at UC Davis, which is not related to this project. Commissioner Douglas also disclosed that she is not teaching at King Hall law school this year, so she does not have a disclosure to make at this time.

Commissioner Scott moved and Commissioner Hochschild seconded approval of Item 11 and the Chair took a roll call vote, in which Commissioners Weisenmiller, Douglas, McAllister, Hochschild and Scott, each voted affirmatively. The vote was unanimous (5-0).

12. DRIVING THE INTEGRATION OF ELECTRIC VEHICLES TO MAXIMIZE BENEFITS TO THE GRID, PON-14-310. This solicitation sought proposals to develop technologies, tools, and methods for efficiently integrating plug-in electric vehicles into the electricity grid through smart and efficient charging and grid communication interfaces. (EPIC funding) Contact: Reynaldo Gonzalez. (Staff presentation: 5 minutes)
 - a. UNIVERSITY OF CALIFORNIA, BERKELEY. Proposed resolution approving Agreement EPC-15-013 with The Regents of the University of California, on behalf of the Berkeley campus for a \$1,500,000 grant to develop an advanced smart charging technology that maintains plug-in electric vehicle consumer needs while reducing charging loads, to achieve electricity grid benefits.

Commissioner Hochschild moved and Commissioner Scott seconded approval of Item 12 and the Chair took a roll call vote, in which Commissioners Weisenmiller, Douglas, McAllister, Hochschild and Scott, each voted affirmatively. The vote was unanimous (5-0).

13. HUNTINGTON BEACH UNION HIGH SCHOOL DISTRICT. Proposed resolution approving Agreement ARV-15-053 with Huntington Beach Union High School District for a \$500,000 grant to expand infrastructure necessary to store, distribute and dispense compressed natural gas for use in the District's current fleet of CNG school buses and for possible future expansion of CNG-fueled vehicles. (ARFVTP funding) Contact: Marc Perry. (Staff presentation: 5 minutes)

Commissioner Scott moved and Commissioner Hochschild seconded approval of Item 13 and the Chair took a roll call vote, in which Commissioners Weisenmiller, Douglas, McAllister, Hochschild and Scott, each voted affirmatively. The vote was unanimous (5-0).

14. HYDROGEN REFUELING INFRASTRUCTURE, PON-13-607. This solicitation had two goals: 1) to develop infrastructure necessary to dispense hydrogen transportation fuel; and 2) to provide needed Operation and Maintenance (O&M) funding to support hydrogen fueling operations prior to the large-scale roll-out of fuel cell electric vehicles. (ARFVTP funding) Contact: Sarah Williams. (Staff presentation: 10 minutes)

- a. AIR PRODUCTS AND CHEMICALS, INC. Proposed resolution approving Agreement ARV-15-043 with Air Products and Chemicals, Inc. for a grant, up to \$240,000 depending on the operational date of the hydrogen refueling station, to cover operation and maintenance costs of the station located at 15606 Inglewood Ave., Lawndale, CA and gather data about the station.
- b. FIRSTELEMENT FUEL, INC. Proposed resolution approving Agreement ARV-15-044 with FirstElement Fuel, Inc. for a grant, up to \$240,000 depending on the operational date of the hydrogen refueling station, to cover operation and maintenance costs of the station located at 3060 Carmel Valley Rd., San Diego, CA and gather data about the station.
- c. FIRSTELEMENT FUEL, INC. Proposed resolution approving Agreement ARV-15-045 with FirstElement Fuel, Inc. for a grant, up to \$240,000 depending on the operational date of the hydrogen refueling station, to cover operation and maintenance costs of the station located at 2855 Winchester Blvd., Campbell, CA and gather data about the station.
- d. FIRSTELEMENT FUEL, INC. Proposed resolution approving Agreement ARV-15-046 with FirstElement Fuel, Inc. for a grant, up to \$240,000 depending on the operational date of the hydrogen refueling station, to cover operation and maintenance costs of the station located at 570 Redwood Highway, Mill Valley, CA and gather data about the station.
- e. FIRSTELEMENT FUEL, INC. Proposed resolution approving Agreement ARV-15-047 with FirstElement Fuel, Inc. for a grant, up to \$240,000 depending on the operational date of the hydrogen refueling station, to cover operation and maintenance costs of the station located at 1200 Fair Oaks, South Pasadena, CA and gather data about the station.
- f. FIRSTELEMENT FUEL, INC. Proposed resolution approving Agreement ARV-15-048 with FirstElement Fuel, Inc. for a grant, up to \$240,000 depending on the operational date of the hydrogen refueling station, to cover operation and maintenance costs of the station located at 20731 Lake Forest Dr., Lake Forest, CA and gather data about the station.
- g. AIR LIQUIDE INDUSTRIAL US LP. Proposed resolution approving Agreement ARV-15-049 with Air Liquide Industrial US LP for a grant, up to \$240,000 depending on the operational date of the hydrogen refueling station, to cover operation and maintenance costs for the hydrogen refueling station located at 3601 El Camino Real, Palo Alto, CA and gather data about the station.
- h. LINDE, LLC. Proposed resolution approving Agreement ARV-15-050 with Linde LLC for a grant, up to \$240,000 depending on the operational date of the hydrogen refueling station, to cover operation and maintenance costs for the station located at 390 Foster City Blvd., Foster City, CA and gather data about the station.
- i. H2 FRONTIER, INC. Proposed resolution approving Agreement ARV-15-051 with H2 Frontier, Inc. for a grant, up to \$240,000 depending on the operational date of the mobile refueler, to cover operation and maintenance costs of the hydrogen mobile refueler based at 403 E. Gardena Blvd., Gardena, CA and gather data about the refueler.

- j. ONTARIO CNG STATION, INC. Proposed resolution approving Agreement ARV-15-052 with Ontario CNG Station, Inc. for a grant, up to \$240,000 depending on the operational date of the hydrogen refueling station, to cover operation and maintenance costs of the station located at 1850 Holt Blvd., Ontario, CA and gather data about the station.

Commissioner Scott moved and Commissioner Hochschild seconded approval of Item 14 and the Chair took a roll call vote, in which Commissioners Weisenmiller, Douglas, McAllister, Hochschild and Scott, each voted affirmatively. The vote was unanimous (5-0).

15. **Lead Commissioner or Presiding Member Reports.** The Commissioner's reported on their recent activities.
16. **Chief Counsel's Report.** None
17. **Executive Director's Report.** None
18. **Public Adviser's Report.** The Public Adviser gave the report.

Public Comment: Tiffany North, County of Riverside

Appearances:

(*by telephone)

Greg Wheatland, Ellison Schneider & Harris
Barbara McBride, Otay Mesa Energy Center
Melissa Foster, Stoel Rives, LLP
Tom Andrews, Sierra Research
Andrew Bell, Marten Law
Ian Black, EDF Renewable Energy
Tiffany North, County of Riverside
*Sara Clark, Colorado-River Indian Tribes
*Lisa Belenky, Center for Biological Diversity
*Kevin Emmerich, Basin and Range Watch
Jason Lenzmeier, CHEERS
Michael Hodgson, CHEERS
Dr. Alexander Cannara
Rochelle Becker, Alliance for Nuclear Responsibility
Valerie Winn, PG&E
Rick Owen, Citizen of Pacifica
Tim Carmichael, Southern California Gas



There being no further business, the meeting was adjourned.

Respectfully submitted,

A handwritten signature in black ink, appearing to be "Tiffany Winter".

TIFFANI WINTER
Secretariat