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BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Order Instituting Rulemaking on the Commission's own motion to consider alternative-fueled vehicle tariffs, infrastructure and policies to support California's greenhouse gas emissions reduction goals.

Rulemaking 09-08-009
(Filed August 20, 2009)

**ADMINISTRATIVE LAW JUDGE'S RULING PROVIDING
ADDITIONAL GUIDANCE ON LOAD RESEARCH REPORTS**

This ruling provides additional guidance to the investor-owned utilities (IOUs) regarding their Phase 3 compliance obligations.

1. Background

The Commission initiated this rulemaking proceeding on August 24, 2009, as part of its efforts to ready the electric infrastructure for light-duty passenger plug-in hybrid electric vehicles and battery electric vehicles (collectively "Electric Vehicles"). The Commission issued two major decisions in this proceeding (Decision (D.) 10-07-044 and D.11-07-029), before issuing a July 28, 2011 scoping memo initiating Phase 3 of the proceeding.

Phase 3 of this proceeding set forth instructions and deadlines for three compliance reports: the Notification Assessment Report, the Submetering Roadmap Report, and the Load Research Report. This ruling provides additional guidance on the requirements for the Load Research Report.

2. Load Research Report

The Phase 2 Decision (D.11-07-029) directed the utilities to develop a load research plan that would evaluate the following cost impacts and behavior patterns related the electric vehicle charging:

1. Track and quantify all new load and associated upgrade costs in a manner that allows Electric Vehicle load and related costs to be broken out and specifically identified. This information shall be collected and stored in an accessible format useful to the Commission.
2. Evaluate how metering arrangements and rate design impact Electric Vehicle charging behavior.
3. To the extent relevant, determine whether participation in demand response programs impacts Electric Vehicle charging behavior.
4. Determine how charging arrangements, including metering options and alternative rate schedules impact charging behavior at multi-dwelling units.
5. Evaluate whether distribution costs are increased by different charging levels, i.e., Level 1, Level 2, and quick charging, in public locations.
6. Separately track costs associated with Electric Vehicle-related residential service facility upgrade costs and treated as “common facility costs” between the effective date of this decision and June 30, 2013, and propose a policy and procedural mechanism to address these residential upgrade costs going forward.¹

The Phase 2 Decision also ordered the utilities to hold a workshop on this topic in January 2012.

¹ Ordering Paragraph 6 of D.11-07-029.

On December 1, 2011, the utilities submitted their Load Research Plan. A workshop was held on February 16, 2012 to discuss the load research plan, following a Commission extension to the workshop deadline.

As noted in a January 31, 2012 ruling, Energy Division recommends that additional data be collected beyond the currently available metering data used in the Load Research Report. The currently collected metering data does not provide insight into charging behavior away from home (at workplaces or public sites) or in instances where residential charging is done under a whole house rate, and how this charging behavior might be impacted by tariff rates or charging levels.

3. Next Step

To accommodate this request, IOUs should file a revised research proposal to collect additional detailed data needed to assist the Commission obtain a more complete picture of charging behavior. At a minimum, the data collected must specifically address load research requirements #2, #4, and #5. The IOUs should consult with the Air Resources Board to identify opportunities to collaborate on this research topic. On June 28, 2012 the Air Resources Board approved the report entitled *Planned Air Pollution Research, Fiscal Year 2012-2013* (Resolution 12-24) which allows for the further development of the Advanced Plug-in Electric Vehicle Travel and Charging Behavior research project. The IOUs are

directed to file a Tier 2 advice letter with the Commission outlining their research plan and any requested funding needs on or before September, 30, 2012.

IT IS SO RULED.

Dated August 21, 2012, at San Francisco, California.

/s/ REGINA DEANGELIS

Regina DeAngelis

Administrative Law Judge