PREPARED DIRECT TESTIMONY OF DAVID ASHUCKIAN ON BEHALF OF THE
CALIFORNIA ENERGY COMMISSION REGARDING THE ISSUE OF RETIREMENT
OF AGING POWER PLANTS AS ADDRESSED IN THE LONG-TERM
PROCUREMENT PLANS OF SAN DIEGO GAS & ELECTRIC COMPANY (SDG&E)

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6 Q1: Please state your name and business address.

A1: My name is David Ashuckian. My business address is California Energy Commission, 1516 9th Street, Sacramento, California 95814.

10 Q2: Please briefly describe your responsibilities at the California Energy Commission.

12 A2: I am employed as manager of the Electricity Analysis Office of the Systems 13 Assessment & Facilities Siting Division of the California Energy Commission (Energy ¹⁴ Commission). In this capacity, my responsibilities include managing the work of professional staff engaged in conducting independent, objective analyses of California's ¹⁶ electricity and natural gas systems, market, and operations.

18 Q3: Please summarize your educational and professional background.

19 A3: I am a Professional Engineer registered in the State of California. I obtained my ²⁰ Bachelor of Science degree in Mechanical Engineering in 1992 from California State ²¹ University Sacramento, in addition to my Bachelors degree in Criminal Justice which ²² was obtained in 1981 from California State University Sacramento. My employment at ²³ the Energy Commission began in 1998. My professional experience at the Energy ²⁴ Commission includes managing the activities of the Electricity Analysis Office (EAO) for ²⁵ the last 4 years. The function of the Electricity Analysis Office is to provide independent, objective analysis of the electricity market and electrical system

operation.. As manager of the EAO, I supervise 35 professionals who have expertise in the following subject matter areas: Electric Generation Systems Electrical Engineering Mechanical. In my capacity as Manager of the EAO, I am responsible for managing the development of the Summer Outlook Report, and a number of the electricity and natural gas reports that Energy Commission staff have developed for the 2003, 2004, and 2005 Integrated Energy Policy Reports. I have also served as policy advisor to Commissioner Boyd, supervised the Energy Commission's Transportation Technology Program and have served as the Energy Commission's spokesperson on electricity system need before the Governor's Office, Legislature and the Joint Agency Energy Action Plan.

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12 Q4: Please state the purpose of your testimony.

A4: The purpose of my testimony is to sponsor the position of the Energy Commission in this proceeding on the issue of the retirement of aging power plants by providing the California Public Utilities Commission (CPUC) with an evaluation of SDG&E's Long Term Procurement Plan (LTPP) on that issue. The issue of APP retirement is addressed by the IOUs in Section IV, C. Supply Forecasts, and Section IV, H.,

Candidate Resource Plans of their respective LTPPs. This testimony is intended to provide CPUC with the Energy Commission's assessment of how the SDG&E is planning to reduce its reliance on aging gas-fired plants through planning for long-term contracts with new, fuel efficient units, in order to reduce long-term financial risk to its ratepayers.

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Specifically, the purpose of this testimony is to provide:

- 1. Identification of the requirements of the Assigned Commissioner's Ruling and Scoping Memo on the Long-term Procurement Phase of R.06-02-013, dated September 25, 2006 (Scoping Memo) that are applicable to IOUs with respect to aging power plants:
- 2. Identification of the pertinent recommendations set forth in the Energy Commission's 2005 Integrated Energy Policy Report (IEPR) and associated report entitled "Transmittal of 2005 Energy Report Range of Need and Policy Recommendations to the California Public Utilities Commission (Transmittal Report) that are applicable to the aging power plant requirements set forth in the Scoping Memo (item 1 above);
- 3. A description of the substance of the IOU's Long Term Procurement Plan (LTPP) with respect to aging power plant issues;
- 4. An analysis of whether the IOU's LTPPs comply with the requirements of the Assigned Commissioner's Ruling and Scoping Memo on the Long-Term Procurement Phase of R.06-02-103 (Scoping Memo) with respect to the aging power plant issues identified in item 1 above;
- 5. An analysis of whether the IOUs' LTPPs comply with the requirements of the IEPR with respect to the aging power plant issues in item 2 above;

Scoping Order, at p. 22.
 Scoping Order, page 21

Q6: What is the significance of the above guidance to the issue of how aging power plants are treated in the LTPP? **A6:** The need for new resources is influenced by assumptions regarding the retirement of aging plants, many of which are more than 40 years old. This is acknowledged, for example, in SCE's LTPP which states that: "[The] need for new resources before 2013 in the SP-26 geographical area...is influenced by the amount of retirements of existing generation that actually occurs."3 10 11 Just as the CPUC has established that it is not sufficient to assume that needed new resources will simply show up, it equally insufficient to assume that aging resources will 13 simply continue indefinitely. It is therefore the recommendation of the Energy Commission that CPUC should not deem it sufficient for an IOU's LTPP to assume that ¹⁵ aging power plants will not be retired. 16 17 It is the recommendation of the Energy Commission that the IOUs should directly 18 address the issue of retirement of aging power plants in their LTPPs by identifying 19 therein and using specific assumptions concerning the retirement of aging plants that reflect the policy directives set forth in the Energy Commission's IEPR and Transmittal ²¹ Report. 22 | \\\ 23 W 24 W 25

³ SCE 2007 – 2016 Long-term Procurement Plan, Vol. 1B, p. 33.

Q7: What does the 2005 IEPR and Transmittal Report recommend that the CPUC should direct IOUs to do in their 2006 procurement plans?

A7: The Energy Commission's *Transmittal of 2005 Energy Report: Range of Need and Policy Recommendations to the California Public Utilities Commission* (the "Transmittal Report") called for "an orderly transition to the retirement of [aging] plants by 2012," as "continued reliance on these plants is not in the economic interest of IOU customers[;]... it would be imprudent for the IOUs to contract with the aging units beyond that time." The reason this policy is important is that virtually all of the state's aging power plants operate at high heat rate capacities that would typically not be sufficiently dispatched in the open market to cover their fixed costs and justify their continued operation. While it is likely true that operation of some of these aging plants is necessary to meet local reliability, it is the position of the Energy Commission that the state is best served by repowering the plants that are in locations critical to the state's electricity system.

Maintaining many older plants on life support at low capacity factors has the negative effect of deterring or preventing construction of more efficient plants..

18 The Transmittal Report states:

"As noted in the 2004 Energy Report Update, aging power plants currently play an important role in the state's electricity system, including 'provid[ing] local reliability services...; contribut[ing] to regional and statewide reliability...; and help[ing] alleviate transmission system congestion. . . .' While these [aging] plants have provided needed resources during the last several years and will unavoidably play a role in the near term, the state cannot afford to rely

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Transmittal Report, p. 57 Transmittal Report a7t page 14.

Transmittal Report at page 58.

Transmittal Report, at p. 56

⁸ Transmittal Report, at p. 57.

indefinitely on power plants that are 30 years old or older. Instead, the state must begin an orderly process to retire them."5

"The Energy Commission is reporting the aging plant replacement energy and capacity amounts in this manner to emphasize the need for IOU planning and procurement activities in the 2006 procurement cycle to accommodate the recommended replacement of all of these aging plants. Because continued reliance on these plants is not in the economic interest of IOU customers, it would be imprudent for the IOUs to contract with the aging units beyond that time."6

12 The *Transmittal Report* asserts that to the extent that these plants can be replaced by demand response programs, efficiency programs, renewable resources, combined heat and power (CHP), and an appropriate level of conventional power plants, the state will see significant benefits in terms of reliability, reduced reliance on natural gas, reduced greenhouse gas emissions, and other environmental benefits.⁷

18 To facilitate an orderly transition to the retirement of these plants by 2012, the Transmittal Report included a four-year ramp-up of this increment, starting with 25 percent of the utilities' share of energy or capacity in 2009, and increasing to 50 percent, 75 percent and the full share in 2010, 2011, and 2012, respectively.8

¹⁰ SDG&E 2007 – 2016 Long-term Procurement Plan, Exhibit IV-10

Docket Optical System - Fwd: Re: Can you docket the staff testimony in the CPUC's LTPP here at the Commission under 06-IEP-

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Michael Doughton Attachments: Michael Doughton

DOS,

Can you Please docket the attached electronic files in 06-IEP-1J?

thanks.