

DOCKETED

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September 25, 2014

VIA E-FILING

Carlsbad Energy Center Project Petition to Amend (07-AFC-06C)
Mike Monasmith, Project Manager
Joe Douglas, Compliance Project Manager
Paul Kramer – Hearing Officer
California Energy Commission
1516 Ninth Street
Sacramento, CA 95814-5512


Re: Petition to Remove Obsolete Facilities to Support Construction and
Petition to Amend the Carlsbad Energy Center Project (07-AFC-06C)
Supplemental Responses to Data Request Set 2 (Nos. 49 and 50)

Dear Mr. Monasmith and Mr. Douglas:

On September 23, 2014, Carlsbad Energy Center LLC (“**Project Owner**”) filed responses to California Energy Commission staff (“**Staff**”) Data Request Set 2 (Nos. 31 – 58) (the “**Data Responses**”), subject to Project Owner’s prior objections to Data Request Nos. 34 - 37 and request for additional response time for Data Request Nos. 31 – 33, 38, 39 and 58, regarding the Petition to Remove Obsolete Facilities to Support Construction (“**PTR**”) of the Carlsbad Energy Center Project (07-AFC-06C) (“**CECP**”), and Petition to Amend (“**PTA**”) the CECP. In the Data Responses, Project Owner agreed to provide under separate cover, tables containing information related to Data Requests 49 and 50. Accordingly, Project Owner hereby provides those tables to Staff.

Please contact me if you have questions.

Locke Lord LLP

By: 

John A. McKinsey
Attorneys for Carlsbad Energy Center LLC

JAM: awph

Enclosure

Carlsbad Energy Center Project Petition to Amend

(07-AFC-06C)

Data Response Set 2 (Responses to Data Requests 49 to 50)

Submitted to
California Energy Commission

Prepared by
Carlsbad Energy Center LLC

With Assistance from

CH2MHILL®

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Santa Ana, CA 92707

September 25, 2014

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DR50-1 Water Use During EPS Decommissioning and Demolition

Introduction

Attached are Carlsbad Energy Center LLC's (Project Owner) responses to the California Energy Commission (CEC) Data Request Set 2 (numbers 31 through 58) regarding the modified Carlsbad Energy Center Project (07-AFC-06C) (CECP) proposed in Project Owner's Petition to Amend (PTA). Any capitalized terms not defined in this Supplemental Data Response Set 2 (Nos. 49 and 50) shall have the meanings given to them in the PTA.

The responses are grouped by individual discipline or topic area. Within each discipline area, the responses are presented in the same order as the CEC presented them and are keyed to the applicable Data Request numbers.

New or revised graphics or tables are numbered in reference to the associated Data Request number. For example, the first table used in response to Data Request 1 would be numbered Table DR1-1. The first figure used in response to Data Request 1 would be Figure DR1-1, and so on. Figures or tables from the CECP PTA that have been revised have "R1" following the original number, indicating revision 1.

Additional tables, figures, or documents submitted in response to a data request (for example, supporting data, stand-alone documents such as plans, folding graphics, etc.) are found at the end of each discipline-specific section and are not sequentially page-numbered consistently with the remainder of the document, though they may have their own internal page numbering system.

Soil and Water Resources (49–50)

DATA REQUEST

49. Please provide a month-by-month water needs matrix for the 24-month amended CECP construction schedule. The matrix should include the quantities of recycled water, seawater (for desalination) and/or potable water necessary for this phase of the project in gallons/minute (gpm) or acre-feet/year (afy).

Response:

Table DR49-1 contains the requested water usage information. The table is based on using potable water for months 1 through 20, as this source is currently available in sufficient quantities using portable temporary water storage tanks to fill the water trucks. This supply will allow CECP construction to begin and continue through month 20 of the construction schedule. The City of Carlsbad anticipates that recycled water from the City's reclaimed water facility will be available in spring 2017. Therefore, in month 21, Project Owner anticipates it will transition to using recycled water during construction.

Based on the applicant's letter filed September 24, 2014, purified ocean water is not anticipated to be used as a water source for CECP.

TABLE DR49-1
Water Use During CECP Construction

Month	Construction Activity	Water Source	Use (gal. per day)	Use* (gal. per month)
1	Site Preparation	Potable	60,000	1,500,000
2	Site Preparation	Potable	120,000	3,000,000
3	Site Preparation	Potable	90,000	2,250,000
4	Foundations	Potable	90,000	2,250,000
5	Foundations	Potable	75,000	1,875,000
6	Foundations	Potable	75,000	1,875,000
7	Set Equipment	Potable	60,000	1,500,000
8	Set Equipment	Potable	60,000	1,500,000
9	Set Equipment	Potable	60,000	1,500,000
10	Set Equipment	Potable	60,000	1,500,000
11	Set Equipment	Potable	60,000	1,500,000
12	Set Equipment	Potable	60,000	1,500,000
13	Set Equipment	Potable	60,000	1,500,000
14	Construct Balance of Plant	Potable	75,000	1,875,000
15	Construct Balance of Plant	Potable	75,000	1,875,000
16	Construct Balance of Plant	Potable	75,000	1,875,000
17	Construct Balance of Plant	Potable	75,000	1,875,000
18	Construct Balance of Plant	Potable	75,000	1,875,000

TABLE DR49-1

Water Use During CECP Construction

Month	Construction Activity	Water Source	Use (gal. per day)	Use* (gal. per month)
19	System Fills	Potable	120,000	3,000,000
20	System Fills	Potable	90,000	2,250,000
21	Commissioning	Recycled	90,000	2,250,000
22	Commissioning	Recycled	72,000	1,800,000
23	Commissioning	Recycled	72,000	1,800,000
24	Grading	Recycled	108,000	2,700,000
			TOTAL	142.5 acre-feet

* Based on 25 working days per month.

DATA REQUEST

50. Please also provide a month-by-month water needs matrix for the 36 month EPS decommissioning and demolition schedule (including the 12 month equipment removal and demolition-preparation period, the 22 month, 7-step above-ground facilities demolition period, and the 2-month site grading and contouring period). Like the matrix above, please indicate the approximate quantities of reclaimed (recycled) water, seawater (for desalination) and/or potable water necessary for this phase of the project in gallons/minute (gpm) or acre-feet/year (afy).

Response:

Table DR50-1 contains the requested information. This table assumes that potable water is the only source available on the west side of the railroad tracks, supplied via existing infrastructure. The use of existing water storage tanks infrastructure eliminates the hazards associated with transporting water overland from the CECP facility.

TABLE DR50-1

Water Use During EPS Decommissioning and Demolition

Month	Construction Activity	Water Source	Use (gal. per day)	Use* (gal. per month)
1	Equipment Removal	Potable	18,800	470,000
2	Equipment Removal	Potable	18,800	470,000
3	Equipment Removal	Potable	18,800	470,000
4	Equipment Removal	Potable	18,800	470,000
5	Equipment Removal	Potable	18,800	470,000
6	Equipment Removal	Potable	18,800	470,000
7	Equipment Removal	Potable	18,800	470,000
8	Equipment Removal	Potable	18,800	470,000
9	Equipment Removal	Potable	18,800	470,000

TABLE DR50-1

Water Use During EPS Decommissioning and Demolition

Month	Construction Activity	Water Source	Use (gal. per day)	Use* (gal. per month)
10	Equipment Removal	Potable	18,800	470,000
11	Equipment Removal	Potable	18,800	470,000
12	Equipment Removal	Potable	18,800	470,000
13	Above-Grade Building Demolition	Potable	112,500	2,812,500
14	Above-Grade Building Demolition	Potable	112,500	2,812,500
15	Above-Grade Building Demolition	Potable	112,500	2,812,500
16	Above-Grade Building Demolition	Potable	150,000	3,750,000
17	Above-Grade Building Demolition	Potable	150,000	3,750,000
18	Above-Grade Building Demolition	Potable	150,000	3,750,000
19	Above-Grade Building Demolition	Potable	150,000	3,750,000
20	Above-Grade Building Demolition	Potable	150,000	3,750,000
21	Above-Grade Building Demolition	Potable	187,500	4,687,500
22	Above-Grade Building Demolition	Potable	187,500	4,687,500
23	Above-Grade Building Demolition	Potable	225,000	5,625,000
24	Above-Grade Building Demolition	Potable	225,000	5,625,000
25	Above-Grade Building Demolition	Potable	225,000	5,625,000
26	Above-Grade Building Demolition	Potable	225,000	5,625,000
27	Above-Grade Building Demolition	Potable	225,000	5,625,000
28	Above-Grade Building Demolition	Potable	187,500	4,687,500
29	Above-Grade Building Demolition	Potable	187,500	4,687,500
30	Above-Grade Building Demolition	Potable	187,500	4,687,500
31	Above-Grade Building Demolition	Potable	187,500	4,687,500
32	Above-Grade Building Demolition	Potable	150,000	3,750,000
33	Above-Grade Building Demolition	Potable	150,000	3,750,000
34	Above-Grade Building Demolition	Potable	75,000	1,875,000
35	Grading	Potable	150,000	3,750,000
36	Grading	Potable	150,000	3,750,000
			TOTAL	316.5 acre-feet

* Based on 25 working days per month.