

## DOCKETED

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<b>TN #:</b>	203311
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<b>Organization:</b>	Locke Lord LLP
<b>Submitter Role:</b>	Applicant Representative
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November 4, 2014

VIA E-FILING

Carlsbad Energy Center Project (07-AFC-06C)  
Mike Monasmith, Project Manager  
California Energy Commission  
1516 Ninth Street  
Sacramento, CA 95814-5512

Re: Carlsbad Energy Center Project Petition to Amend (07-AFC-06C)  
Response to Data Request Set 2 (No. 58)

Dear Mr. Monasmith:

California Energy Commission staff ("**Staff**") filed Data Request Set 2 (Nos. 31–58) (TN 202992) (the "**Data Requests**") on August 27, 2014, regarding Carlsbad Energy Center LLC's ("**Project Owner**") 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. Project Owner hereby submits responses to Data Request No. 58.

Please contact me if you have questions.

Locke Lord LLP

By: 

John A. McKinsey  
Attorneys for Carlsbad Energy Center LLC

JAM:dh  
Enclosure

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# Carlsbad Energy Center Petition to Amend

(07-AFC-06C)

## Data Response Set 2 (Response to Data Request 58)

Submitted to  
California Energy Commission

Prepared by  
Carlsbad Energy Center LLC

With Assistance from

**CH2MHILL®**

6 Hutton Centre Drive Suite 700  
Santa Ana, CA 92707

November 4, 2014

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# Introduction

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Attached are Carlsbad Energy Center LLC (Applicant) responses to the California Energy Commission (CEC) Data Request, Set 2 – DR 58) regarding the Carlsbad Energy Center Project (CECP) (07-AFC-06C) Petition to Amend (PTA).

New or revised graphics or tables are numbered in reference to the 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.

# Visual Resources (58)

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## BACKGROUND

Visual simulations provided in the Petition to Amend (PTA) omitted several KOPs used in the 2009 Final Staff Assessment (FSA) to analyze key sensitive receptor viewpoints for the proposed Carlsbad Energy Center Project (CECP). In order to support and effectively communicate the analysis of all KOPs in the PTA Preliminary Staff Assessment, staff requires simulations for the amended project that includes every KOP analyzed in the November, 2009 CECP FSA for purposes of consistency and uniformity. The omitted KOPs include KOPs 8, 9, 10, 11.

## DATA REQUEST

58. Please provide simulations for the proposed amended CECP from KOPs 8, 9, 10 and 11 (KOP locations/base photographs as presented in staff's FSA, as presented in November of 2009).

### Response:

In response to this request, the Applicant has prepared simulations of the views from KOPs 8, 9, 10, and 11 that depict the baseline conditions and the views as they would appear with the Amended CECP in place. These simulations were prepared using photographs that were taken in late September and early October 2014. In addition, the Applicant has prepared updated versions of the simulations from KOPs 1, 2, 3, 3a, 4, 5, 6, 7, and CP that were created using photos taken in early October 2014 that capture the current condition from these views, including the existing condition of the vegetation on and surrounding the CECP site.

Figure DR58-1 is a map on an aerial photo base that depicts the project site and the surrounding area and indicates the locations of the KOPs.

Figures DR58-2 through DR58-14 present the simulations of the views from each of the KOPs. The "A" image on each figure depicts the baseline view, which is the view as it would appear with removal of the construction cranes and other construction activities associated with the Poseidon desalinization project that is currently (fall 2014) visible on and adjacent to the CECP site, the addition of the currently licensed CECP, the completion of the Poseidon desalinization project which is now under construction, and the addition of the planned City of Carlsbad new sewer lift station. The "B." image is the simulation of the view as it would appear with the development of the amended CECP. In addition to depicting current vegetative conditions, the new simulations also reflect recent revisions to the design of the Amended Project's transmission line

In retaking the existing view photograph from KOP 10, the view looking toward the CECP site from within the existing Encina Power Station site, it was necessary to make a slight change in the location of the view. The original viewpoint was located at point that is now very close to the Poseidon desalination facility that is under construction. When this point was visited to re-take the original photo, it was discovered that because of the point's proximity to the Poseidon facility, the Poseidon structure would completely fill the view, creating a view that would provide very little insight into the relationships of the licensed CECP and proposed Amended CECP to the area around the existing Encina Power Station. To capture a view that would be more useful in understanding the relationships of the licensed CECP and amended CECP, a new viewpoint was used for this KOP that was located farther away from the Poseidon facility. This viewpoint allows more of the Poseidon facility to be included in the view, and provides a better basis for understanding and comparing the extent to which the licensed CECP and Amended CECP would be visible from the Encina Power Station site.

# Visual Resources (58)

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In retaking the existing view photograph from KOP 10, the view looking toward the CECP site from within the existing Encina Power Station site, it was necessary to make a slight change in the location of the view. The original viewpoint was located at point that is now very close to the Poseidon desalination facility that is under construction. When this point was visited to re-take the original photo, it was discovered that because of the point's proximity to the Poseidon facility, the Poseidon structure would completely fill the view, creating a view that would provide very little insight into the relationships of the licensed CECP and proposed Amended CECP to the area around the existing Encina Power Station. To capture a view that would be more useful in understanding the relationships of the licensed CECP and amended CECP, a new viewpoint was used for this KOP that was located farther away from the Poseidon facility. This viewpoint allows more of the Poseidon facility to be included in the view, and provides a better basis for understanding and comparing the extent to which the licensed CECP and Amended CECP would be visible from the Encina Power Station site.

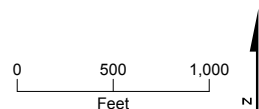




#### LEGEND

- ▮ Encina Power Station Site
- ▮ Amended CECP Project Site
- ▮ Poseidon Desalination Site
- ▮ Footprint of the Amended Project's Major Features

● → KOP



**Figure DR58-1**  
**Aerial View of Project Site and**  
**Locations of Key Observation Points**  
*Carlsbad Energy Center Project*  
*Carlsbad, California (07-AFC-06)*  
*Petition to Amend*





A. Baseline view toward project site from Carlsbad Boulevard with the licensed CECP and the Poseidon Desalinization Project in place.



B. View from Carlsbad Boulevard toward the project site with the Amended Project in place.

**Figure DR58-2**  
**KOP 1 – View from Carlsbad Boulevard Looking South**  
*Carlsbad Energy Center Project*  
*Carlsbad, California (07-AFC-06C)*  
*Petition to Amend*





A. View toward project site from the Pannonia Trail with the licensed CECP and the Poseidon Desalinization Project in place.



B. View from the Pannonia Trail toward the project site with the Amended Project in place.

**Figure DR58-3**  
**KOP 2 – View from Pannonia Trail at Capri Park**  
*Carlsbad Energy Center Project*  
*Carlsbad, California (07-AFC-06C)*  
*Petition to Amend*





A. View from the end of Cove Drive toward the project site with the licensed CECP in place.



B. View from the end of Cove Drive toward the project site with the Amended Project in place, including removal of the Encina Power Station.

**Figure DR58-4**  
**KOP 3 – View from the End of Cove Drive**  
*Carlsbad Energy Center Project*  
*Carlsbad, California (07-AFC-06C)*  
*Petition to Amend*





A. View toward project site from Adams Street with the licensed CECP in place.



B. View from Adams Street toward the project site with the Amended Project in place.

**Figure DR58-5**  
**KOP 3A – View from Adams Street**  
*Carlsbad Energy Center Project*  
*Carlsbad, California (07-AFC-06C)*  
*Petition to Amend*





A. View from the end of Hoover Street with the licensed CECP in place.



B. View from the end of Hoover Street toward the project site with the Amended Project in place.

**Figure DR58-6**  
**KOP 4 – View from the End of Hoover Street**  
*Carlsbad Energy Center Project*  
*Carlsbad, California (07-AFC-06C)*  
*Petition to Amend*





A. View from the end of Harbor Drive with the licensed CECP in place.



B. View from the end of Harbor Drive toward the project site with the Amended Project in place.

**Figure DR58-7**  
**KOP 5 – View from the End of Harbor Drive**  
*Carlsbad Energy Center Project*  
*Carlsbad, California (07-AFC-06C)*  
*Petition to Amend*





A. View from Southbound I-5 at Agua Hedionda Lagoon with the licensed CECP in place.



B. View from Southbound I-5 at Agua Hedionda Lagoon toward the project site with the Amended Project in place.

**Figure DR58-8**  
**KOP 6 – View from Southbound I-5 at Agua Hedionda Lagoon**  
*Carlsbad Energy Center Project*  
*Carlsbad, California (07-AFC-06C)*  
*Petition to Amend*





A. View toward the project site from Northbound I-5 north of Cannon Road with the licensed CECP in place.



B. View toward the project site from Northbound I-5 north of Cannon Road with the Amended Project in place.

**Figure DR58-9**  
**KOP 7 – View from Northbound I-5 North of Cannon Road**  
*Carlsbad Energy Center Project*  
*Carlsbad, California (07-AFC-06C)*  
*Petition to Amend*





A. View looking toward the CECP site. The licensed power plant’s HRSGs and stacks would be readily visible.



B. View toward the CECP site as it would appear with development of the Amended CECP. The Amended Project stacks and the tops of some of the transmission structures would be visible as distant elements in the view.

**Figure DR58-10**  
**KOP 8 – View from Carlsbad Boulevard at the**  
**Encina Power Station Outfall**  
*Carlsbad Energy Center Project*  
*Carlsbad, California (07-AFC-06C)*  
*Petition to Amend*





A. Baseline view looking toward the CECP site that is equivalent to the view seen by passengers on train cars passing adjacent to the site. The licensed power plant’s HRSGs and stacks would be readily visible.



B. View toward the CECP site equivalent to the view seen by passengers on train cars passing adjacent to the site as it would appear after the development of the Amended CECP. Only the tops of the Amended project’s stacks would be visible in this view.

**Figure DR 58-11**  
**KOP 9 – View from Passenger Rail Car on the Tracks**  
**Adjacent to the Project Site**  
*Carlsbad Energy Center Project*  
*Carlsbad, California (07-AFC-06C)*  
*Petition to Amend*





A. Baseline view from within the Encina Power Station site looking toward the CECP site. The tops of the licensed power plant stacks and transmission structures would be visible behind the Poseidon desalination facility.



B. View toward the CECP site as it would appear after the development of the Amended CECP. The Amended project's power plant and the transmission structures associated with it would, in this view, be completely screened by the Poseidon desalination facility.

**Figure DR 58-12**  
**KOP 10 – View from Inside the Encina Site**  
*Carlsbad Energy Center Project*  
*Carlsbad, California (07-AFC-06C)*  
*Petition to Amend*





A. View looking toward southeast toward the CECP site from the rail corridor.



B. View looking southeast toward the CECP site from the rail corridor as it would appear with development of the Amended CECP.

**Figure DR58-13**  
**KOP 11 – View from Railroad Tracks at the Crossing**  
**of the Agua Hedionda Channel**  
*Carlsbad Energy Center Project*  
*Carlsbad, California (07-AFC-06C)*  
*Petition to Amend*





A. View from Cannon Park toward the project site with the licensed CECP in place.



B. View from Cannon Park with the with the Amended Project in place.

**Figure DR58-14**  
**KOP CP – View from Cannon Park**  
*Carlsbad Energy Center Project*  
*Carlsbad, California (07-AFC-06C)*  
*Petition to Amend*