

DOCKETED

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January 6, 2014

VIA E-FILING


El Segundo Energy Center Petition to Amend (00-AFC-14C)
Craig Hoffman, Project Manager
California Energy Commission
1516 Ninth Street
Sacramento, CA 95814-5512

Re: El Segundo Energy Center Petition to Amend (00-AFC-14C)
Response to Data Request Set Five (#94)

Dear Mr. Hoffman:

El Segundo Energy Center LLC submits the enclosed response to the California Energy Commission staff's Data Request Set 5 dated December 6, 2013, regarding the Petition to Amend the El Segundo Energy Center project (00-AFC-14C). Please contact me or my colleague Allison Harris if there are questions about the enclosure.

Locke Lord LLP

By: 

John A. McKinsey
Attorneys for El Segundo Energy Center LLC

JAM:awph

Enclosure

El Segundo Energy Center Petition to Amend

(00-AFC-14C)

Data Responses, Set 5

(Response to Data Request 94)

Submitted to
California Energy Commission

Prepared by
El Segundo Energy Center LLC

January 6, 2014

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Introduction

Attached are El Segundo Energy Center LLC's (ESEC LLC) responses to the California Energy Commission (CEC) Staff's Data Request Set 5, regarding the project proposed in the El Segundo Energy Center (ESEC) Petition to Amend (00-AFC-14C) (PTA). ESEC LLC's response and the related table are numbered in reference to Data Request number 94. For example, the table used in ESEC LLC's response to Data Request 94 is numbered Table DR94-1.

Traffic and Transportation (94)

BACKGROUND

Staff will evaluate exhaust stack plume velocities at El Segundo Energy Center (ESEC). The facility owner provided exhaust stack parameters for gas turbines and the auxiliary boiler. Staff needs the exhaust stack parameters for the dry cooling tower.

DATA REQUEST

94. Please provide the following information regarding the exhaust parameters for the dry cooling tower when operating at full load (maximum heat rejection).
- a) Heat Rejection Rate (MW/hr)
 - b) Total Air Flow Rate (lbs/hour)
 - c) Air Temperature Increase (Exhaust Temperature minus Ambient Temperature)

Response: Table DR94-1 below contains the requested information.

Table DR94-1: Dry Cooling Tower Exhaust Parameters When Operating at Full Load

BASE (INDUCED DRAFT FANS)		
Exhaust parameters for the dry cooling tower when operating at full load		
Item	Data	Remarks
a) Heat Rejection Rate (MW/hr)	295.42 MWth	Based on General Electric's Heat Balance Diagram
b) Total Air Flow Rate (lbs/hr)	45,657,772 lbs/hr	
c) Air Temperature Increase (Exhaust Temperature minus Ambient Temperature) °F	92.3°F	
d) Air inlet velocity and temperature, °F	8.92 ft/sec /83.7°F	Air inlet face velocity of the tower (inlet side of Heller Dry Cooling deltas)
e) Air outlet velocity and temperature, °F	28.64 ft/sec /176°F	Air velocity at fan exit