

DOCKETED

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Project Title:	Huntington Beach Energy Project
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Document Title:	SCAQMD Response 8/9/13 to AES regarding AQ Modeling Data
Description:	N/A
Filer:	Tiffani Winter
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From: Tom Chico [<mailto:tchico@aqmd.gov>]

Sent: Friday, August 09, 2013 1:10 PM

To: Jerry.Salamy@CH2M.com

Cc: Andrew Lee; Jillian Baker; Chris Perri; stephen.okane@AES.com; John.Frohning@CH2M.com; 'bohenkamp.carol@epa.gov'; Holladay.Cleveland@epamail.epa.gov; John Yee; Mohsen Nazemi; Elaine Chang; Qian, Wenjun@Energy

Subject: RE: AES Huntington Beach Energy Project

Jerry,

SCAQMD staff has reviewed and compared the Costa Mesa and John Wayne Airport meteorological data and recommends that the John Wayne Airport data be used for the AES Huntington Beach Energy Project for the following reasons:

1. **Less Missing Data** – EPA has established limits on the percent of missing data for meteorological data used in dispersion modeling (i.e., no more than 10% per calendar quarter). The John Wayne Airport meets this criteria whereas Costa Mesa does not. In addition, overall the John Wayne Airport has less missing data than Costa Mesa (i.e., 870 hrs vs. 2,225 hrs).
2. **John Wayne Airport Data More Current** – The period of record for the John Wayne Airport data is 2008 to 2012 whereas the period of record for the Costa Mesa data is 2005 to 2009. EPA recommends that the most current data be used.
3. **Surface Characteristics at John Wayne Airport More Similar to the Project Site** – The surface roughness at John Wayne Airport in the predominant wind direction (i.e., from the SW quadrant) is more similar to the project site than the Costa Mesa data. This is also a criteria that EPA uses to select meteorological data for dispersion modeling.
4. **Costa Mesa Data Problematic** – Depending on how the Costa Mesa data are processed the percent calms can vary from 0% to 38% (or from 0 hrs to 16,848 hrs). As a result of this review, staff has decided to remove the Costa Mesa data from the SCAQMD website until we have had a chance to more fully investigate the data.

Jillian has some preliminary comments on your processing of the John Wayne Airport data as follows:

1. **AERMINUTE Processing** - The IFWGROUPE was not applied correctly. According to the AERMINUTE user's guide (Section 3.1.2, Page 4), the Ice Free Wind Installation date for SNA (i.e., John Wayne Airport) was 8/15/2007, so the IFWGROUPE option should have been used within AERMINUTE.
2. **Anemometer Height** - Please provide a reference for the anemometer height at John Wayne airport used in AERMET Stage 3 processing. (The height is listed as 5.79 m, but anemometer heights are typically around 10 m.)
3. **Continuing Review** - Jillian is in the process of reviewing the AERSURFACE parameters and the upper air and ISH data used in AERMET. She will let you know if she has any other comments or questions.

Tom Chico
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From: Jerry.Salamy@CH2M.com [mailto:Jerry.Salamy@CH2M.com]

Sent: Wednesday, July 17, 2013 1:32 PM

To: Mohsen Nazemi

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Subject: AES Huntington Beach Energy Project (Facility ID# 115389)

Mr. Nazemi,

Attached is an addendum to the Huntington Beach Energy Project Air Dispersion Modeling Protocol.

[TN # 200042, docketed date 7/25/2013] The purpose of the addendum is to review available meteorological data proposed for use in HBEP's Prevention of Significant Deterioration modeling effort. A hard copy of this letter, including attachments, is being transmitted to your attention via overnight mail.

Please let me know if you have any questions.

*Jerry Salamy
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