

DOCKETED

Docket Number:	12-AFC-02C
Project Title:	Huntington Beach Energy Project - Compliance
TN #:	210116
Document Title:	Huntington Beach Energy Project-Petition to Amend
Description:	Staff's Data Requests, A75 through A77
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CALIFORNIA ENERGY COMMISSION

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AES Southland, LLC
Steven O'Kane
690 Studebaker Road
Long Beach, CA 90803

February 1, 2016

Regarding: **Huntington Beach Energy Project – Petition to Amend (12-AFC-02C),
Staff's Data Requests, A75 through A77**

Dear Mr. O'Kane,

Pursuant to Title 20, California Code of Regulations, section 1716, the California Energy Commission staff requests the information specified in the enclosed data requests. The information requested is necessary to: 1) more fully understand the project, 2) assess whether the facility will be constructed and operated in compliance with applicable regulations, 3) assess whether the project will result in significant environmental impacts, and 4) assess potential mitigation measures.

These data requests, numbered A75 through A77, are being made in the technical area of Air Quality. Written responses to the enclosed data requests are due to the Energy Commission staff on or before February 21, 2016.

If you are unable to provide the information requested, need additional time, or object to providing the requested information, please send a written notice to the Committee and to me within 20 days of receipt of this notice. The notification must contain the reasons for the inability to provide the information or the grounds for any objections (see Title 20, California Code of Regulations, section 1716 (f)).

If you have any questions regarding the enclosed data requests, please call me at (916) 653-8236 or email me at John.Heiser@energy.ca.gov.

Sincerely,

A handwritten signature in blue ink that reads "John Heiser".

John Heiser
Siting Project Manager

Enclosure (Data Request Packet)

cc: Docket (12-AFC-02C)
POS List

**HUNTINGTON BEACH ENERGY PROJECT PETITION TO
AMEND
(12-AFC-02C)**

Energy Commission Staff's Data Requests A75-A77

February 1, 2016

Technical Area: Air Quality
Author: Wenjun Qian

AIR QUALITY

BACKGROUND

The Huntington Beach Energy Project (HBEP) Petition to Amend (PTA, TN# 206087) Table 5.1-14 note c states that the fuel use of the auxiliary boiler was based on operation at 100 percent load and the computed annual fuel use assumed 120 startups and 8,760 hours of operation. PTA Table 5.1-14 shows the maximum hourly fuel use of 70.8 million British thermal units per hour (MMBtu/hr) and annual fuel use of 310,096 MMBtu/year. Based on these numbers, staff computes that the auxiliary boiler would operate about 4,380 ($=310,096/70.8$) hours per year, instead of 8,760 hours, if operated at full load.

In the Alamitos Energy Center's response to South Coast Air Quality Management District (TN# 207265) dated January 7, 2016, AES stated that the auxiliary boiler would be operated at its minimum turndown rate until a combined-cycle turbine start is requested. To be conservative, AES assumed an average hourly fuel consumption of 35.3 (MMBtu/hr) rather than the hourly fuel consumption at minimum turndown rate. Staff would like to know if the same assumptions were used for the Amended HBEP.

The proposed HBEP auxiliary boiler would be equipped with a selective catalytic reduction (SCR) system, which would use 19 percent aqueous ammonia to reduce NOx emissions. The Petition to Amend (TN# 206087) Table 5.1-13 shows 5 ppmvd (or 0.3 lbs/hr) ammonia slip from the SCR of the auxiliary boiler. However, staff is not able to find the annual ammonia emissions estimated or analyzed in the health risk assessment for the Amended HBEP.

DATA REQUESTS

- A75. Please provide the expected annual operating profile for the auxiliary boiler of the Amended HBEP, accounting for startup, startup duration, and operations at various loads.
- A76. Please provide the annual ammonia emissions estimates for the auxiliary boiler in lbs per year or tons per year.
- A77. Please include the ammonia emissions of the auxiliary boiler in the health risk assessment.