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February 11, 2011

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**VIA EMAIL AND HAND DELIVERY**

Mr. Eric Solorio, Siting Project Manager  
California Energy Commission  
1516 Ninth Street  
Sacramento, CA 95814


<b>DOCKET</b>	
<b>11-AFC-1</b>	
DATE	Feb 11 2011
RECD.	Feb 11 2011

**Re: Pio Pico Energy Center Project (11-AFC-1)  
Applicant's Amendment to Application for Permits, San Diego Air Pollution  
Control District**

Dear Mr. Solorio:

On behalf of Pio Pico Energy Center, LLC ("Applicant"), please find enclosed herein Applicant's amendment to the application relating to the requisite air permits for the Pio Pico Energy Center project. Please do not hesitate to contact Mr. Jenkins or our office should you have any questions about this filing.

Respectfully submitted,

  
Kimberly J. Hellwig  
Paralegal

KJH:jmw

cc: David Jenkins, Pio Pico Energy Center, LLC (via email)  
Maggie Fitzgerald, URS Corporation, Inc. (via email)  
John A. McKinsey, Esq., Stoel Rives LLP (via email)

February 9, 2011



**sierra  
research**

1801 J Street  
Sacramento, CA 95811  
Tel: (916) 444-6666  
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Steven Moore  
Senior Air Pollution Control Engineer  
San Diego Air Pollution Control District  
10124 Old Grove Road  
San Diego, CA 92131-1649

Re: Amendment to Application for Permits for Pio Pico Energy Center  
Application No. ADCP-2010-APP-001251

Dear Mr. Moore:

On behalf of Apex Power Group, LLC (Apex), Sierra Research is submitting for District review the enclosed amendment to the application for the Pio Pico Energy Center (PPEC), to be located in Otay Mesa, California. This project is subject to Certification by the California Energy Commission.

Attached for your review are District application forms and a copy of the Application for Certification submitted to the CEC.

The principal change from the previously submitted application is a change in the location of the project site.

Please do not hesitate to call me if you have any questions.

Sincerely,

Steve Hill

cc: Gary Chandler, PPEC  
David Jenkins, PPEC  
Maggie Fitzgerald, URS  
John McKinsey, Stoel Rives, LLC

Enclosures

# SAN DIEGO AIR POLLUTION CONTROL DISTRICT

## PERMIT / REGISTRATION APPLICATION

### APPLICATION INSTRUCTIONS - FORM APCD 116

#### GENERAL

1. The owner or designated agent must complete and sign this multi-copy form and file it with one copy of all attachments, required supplementary forms, drawings and the appropriate fee.
2. The appropriate fee (payable to "County of San Diego APCD") must be submitted with this Permit/Registration Application. Application processing will not begin until the full required fee has been received. Excess fees will be refunded upon completion of the application process. If you do not know the appropriate fee or need to discuss the information required, please contact the District at (858) 586-2600 and ask for assistance in determining an application fee.

#### REASON FOR SUBMITTAL OF APPLICATION

1. New Installation - check if you are installing equipment that does not currently have a District Permit to Operate.
2. Existing Unpermitted Equipment or Rule 11 Change - check if applying for installed existing equipment that is currently unpermitted or equipment that is now subject to District Rules due to Rule 11 changes.
3. Modification of Existing Permitted Equipment - check if you are making a change to equipment with a current District Permit to Operate. (List affected PO #(s) on line 12)
4. Amendment to Existing Authority to Construct or Permit/Registration Application - check this line if you are amending a previously submitted application form or if amending a current Authority to Construct. (List affected Application #(s) on line 12)
5. Change of Equipment Location - check if you are moving non-portable equipment with a current District Permit to Operate. (List affected PO #(s) on line 12)
6. Change of Equipment Ownership - check if you are now the owner of equipment with a current District Permit to Operate under a different owner. (List affected PO #(s) on line 12)
7. Change of Permit Conditions - check if equipment with a current Permit to Operate requires changes to the existing operating conditions. (List affected PO #(s) on line 12)
8. Change Permit to Operate Status to Inactive - check if you wish to maintain your current Permit to Operate but are not going to operate the equipment. (List affected PO #(s) on line 12)
9. Banking Emissions - check if you are retiring equipment with a current District Permit to Operate and wish to bank the emissions for future credits. (List affected PO #(s) on line 12)
10. Registration of Portable Equipment - check this line if you are applying for registration of portable equipment.
11. Other - check for any action not covered by #(s) 1 thru 10.
12. List affected AP/PO#(s) - if you checked #'s 3 or 5-9, list current Permit to Operate Number(s) affected or if you checked #4, list existing Application number whether or not an Authority to Construct has been issued.

#### APPLICANT INFORMATION

13 thru 17 are self-explanatory.

18 thru 27 are self-explanatory, complete Items B, C, and D only if different from Item A.

#### EQUIPMENT/PROCESS INFORMATION

Check Stationary (e.g. gasoline service site, dry cleaning facility, etc.) or Portable (abrasive blast pot, roofing kettle, etc.) depending upon the type of equipment for which you are filing an application. Also check Yes if the equipment is portable and will operate more than 180 consecutive days at a single site. Otherwise, check No.

28 thru 36 are self-explanatory.

#### INDEMNIFICATION

In accordance with District Rule 40(d)(8)(vi), the applicant, to the extent the applicant is at fault in causing liability to the District, shall indemnify the District (including its agents, officers and employees) from any claim, action, liability, or proceeding to attack, set aside, void or annul the applicant's project or any of the proceedings, acts or determinations taken, done or made as a result of the District's processing and/or approval of the project. The applicant's obligation to indemnify shall include, but not be limited to, payment of all court costs and attorneys' fees, costs of any judgments or awards against the District, damages, and/or settlement costs, which arise out of the District's processing and/or approval of the applicant's project, except that an applicant shall only be responsible for indemnifying the District according to the proportion of fault caused by the applicant, as determined by a court. By signing and submitting this application, an applicant agrees to such indemnification.

PERMIT / REGISTRATION APPLICATION

SUBMITTAL OF THIS APPLICATION DOES NOT GRANT PERMISSION TO CONSTRUCT OR TO OPERATE EQUIPMENT EXCEPT AS SPECIFIED IN RULE 24(d)

IMPORTANT REMINDERS: Read instructions on the reverse side of this form prior to completing this application. Please ensure that all of the following are included before you submit the application:

- Appropriate Permit Fee, Completed Supplemental Form(s), Signature on Application

REASON FOR SUBMITTAL OF APPLICATION: (check the appropriate item and enter Application (AP) or Permit to Operate (PO) number if required)

- 1. New Installation, 2. Existing Unpermitted Equipment or Rule 11 Change, 3. Modification of Existing Permitted Equipment, 4. Amendment to Existing Authority to Construct or AP, 5. Change of Equipment Location, 6. Change of Equipment Ownership, 7. Change of Permit Conditions, 8. Change Permit to Operate Status to Inactive, 9. Banking Emissions, 10. Registration of Portable Equipment, 11. Other (Specify) APCD2010-APP-001251, 12. List affected AP/PO#(s):

APPLICANT INFORMATION

- 13. Name of Business (DBA) Pio Pico Energy Center, LLC
14. Nature of Business Electric Power Generation
15. Does this organization own or operate any other APCD permitted equipment at this or any other adjacent locations in San Diego County? Yes No
16. Type of Ownership Corporation Partnership Individual Owner Government Agency Other
17. Name of Legal Owner (if different from DBA)

Form with sections A. Equipment Owner, B. Authority to Construct, C. Permit to Operate, D. Billing Information. Fields include Name, Mailing Address, City, State, Zip, Phone, FAX.

EQUIPMENT/PROCESS INFORMATION: Type of Equipment: Stationary Portable.

If portable, will operation exceed 12 consecutive months at the same location Yes No

- 28. Equipment Location Address Alta Road and Calzada de la Fuente Road City Otay Mesa Parcel No. APN648-040-45
29. State California Zip 92154 Phone FAX
30. Site Contact Dave Jenkins Title Project Manager Phone (317) 431-1004
31. General Description of Equipment/Process Simple-cycle natural gas-fired turbines for electrical power generation

- 32. Application Submitted by Owner Operator Contractor Consultant Affiliation Sierra Research

EXPEDITED APPLICATION PROCESSING: I hereby request Expedited Application Processing and understand that:

- 33. a) Expedited processing will incur additional fees and permits will not be issued until the additional fees are paid in full (see Rule 40(d)(8)(iv) for details).
b) Expedited processing is contingent on the availability of qualified staff. c) Once engineering review has begun this request cannot be cancelled.
d) Expedited processing does not guarantee action by any specific date nor does it guarantee permit approval.

I hereby certify that all information provided on this application is true and correct.

- 34. SIGNATURE Date February 9, 2011
35. Print Name Steve Hill Title Senior Engineer
36. Company Sierra Research Phone (510) 684-3671 E-mail Address shill@sierraresearch.com

APCD USE ONLY

Form with fields for AP #, ID #, Cust. No., Sector, UTM's X, Y, SIC, Receipt #, Date, Amt Rec'd \$, Fee Code, Engineering Contact, Fee Code, AP Fee \$, T&M Renewal Fee \$, Refund Claim #, Date, Amt \$, Application Generated By, NV#, NC #, Other, Date, Inspector.

**SAN DIEGO AIR POLLUTION CONTROL DISTRICT**

<b>SUPPLEMENTAL APPLICATION INFORMATION</b>
<b>FEE SCHEDULE 20 D, E, F, G, H</b>

<b>San Diego APCD Use Only</b>
<b>Appl. No.:</b>
<b>ID No.:</b>

**GAS TURBINE**

1 **COMPANY NAME:** Pio Pico Energy Center, LLC

2 **ADDRESS:** Alta Road and Calzada de la Fuente Road

3 **A. EQUIPMENT AND PROCESS DESCRIPTION**

4 **ENGINE USE:** *(Check all that apply.)*

5 Power Generation: 300000 kw      Steam Generation: \_\_\_\_\_ lbs/hr steam

6 Other (Specify capacity): \_\_\_\_\_

7 **ENGINE SPECIFICATIONS:**

8 Manufacturer: General Electric      Model No.: LMS 100 PA      S/N: \_\_\_\_\_

9 HP Rating: \_\_\_\_\_      Fuel Consumption Rate: 902.6 MM BTU/HR

10 1. Type of Liquid Fuel Used\*: N/A      Fuel Rate(Specify Units): N/A

11      Maximum %sulfur by wt. in fuel\*: N/A %

12 2. Type of Gaseous Fuel Used\*: Natural Gas      Fuel Rate: 885,800 cfh

13      Maximum Grains PM/100DSCF @ 12% O<sub>2</sub>: \_\_\_\_\_ grains/100dscf

14 **B. EMISSION CONTROL EQUIPMENT** *(Check all that apply)*

15  Low NOx burner     Water injection     SCR w/ Ammonia injection     Hydrogenous     Aqueous

16 Describe the control equipment to be installed and submit its technical data:

17 For detailed data please see attached documentation

18 \_\_\_\_\_

19 \_\_\_\_\_

20 \_\_\_\_\_

21 **C. EMISSION DATA**

22 Provide the manufacturer's specifications and emission factors (lbs/1,000 lbs of fuel) for oxides of nitrogen (NOx),  
23 Carbon monoxide (CO), Hydrocarbons (HC), and particulate matter (PM) for the engine at different power settings with  
24 corresponding engine exhaust flow rates and temperatures.

25 **D. EXHAUST STACK AND BLDG. DIMENSIONS** (if air quality modeling is required).

26 Stack location: ground (i.e., roof top, wall, ground), direction:  vertical  horizontal

27 Stack dimensions: internal 14.5 ft. diameter, or \_\_\_\_\_ ft. wide x \_\_\_\_\_ ft. long

28 Stack dimensions: external \_\_\_\_\_ ft. diameter, or \_\_\_\_\_ ft. wide x \_\_\_\_\_ ft. long  
(If other shape, then supply sketch of stack cross section)

29 Use an attached page to provide this information for each engine at each power setting.

30 Stack height: Above roof: \_\_\_\_\_ ft. Above ground level: 100 ft.

31 Site elevation above mean sea level (MSL) 635 ft.

32 Building dimensions: length \_\_\_\_\_ ft.; width \_\_\_\_\_ ft.; height \_\_\_\_\_ ft.  
(Supply sketch w/position of exhaust stack)

33 Supply a plot plan showing the test cell/stand location with respect to nearby streets, property lines, and buildings.

34 **E. OTHER EMISSION PRODUCING EQUIPMENT AT THE SITE**

35 APCD permitted  Yes  No

36 Non permitted  Yes  No

37 **F. ADDITIONAL INFORMATION** For detailed data please see attached documentation \_\_\_\_\_

38 Fuel use reported in Section A is per turbine. This application is for three turbines. \_\_\_\_\_

39 Firing rate on line 9 is HHV \_\_\_\_\_

40 **G. OPERATING SCHEDULE:\*** Hours/day: 24 Days/yr: 4337

\* Emission calculations will be performed using these values and permit conditions may result to comply with applicable rules.

41 **Name of Preparer:** Steve Hill **Title:** Senior Engineer

42 **Phone Number:** (510 ) 684-3671 **Date:** 2/3/11

**NOTE TO APPLICANT:**

Before acting on an application for Authority to Construct or Permit to Operate, the District may require further information, plans, or specifications. Forms with insufficient information may be returned to the applicant for completion, which will cause a delay in application processing and may increase processing fees. The applicant should correspond with equipment and material manufacturers to obtain the information requested on this supplemental form.