March 12, 2010

California Energy Commission
Docket No. 09-AFC-8
1516 9th St.
Sacramento, CA 95814

**Genesis Solar Energy Project - Docket Number 09-AFC-8**

Docket Clerk:

Included with this letter is one hard copy and one electronic copy of the *Application for Authority to Construct and Permit to Operate and Application for Gasoline Dispensing Facilities to the MDAQMD.*

Sincerely,

Emily Festger (for Tricia Bernhardt)
Project Manager/Tetra Tech EC

cc: Mike Monasmith / CEC Project Manager
March 10, 2010

Mr. Richard Wales  
APCD Engineer  
Mojave Desert Air Quality Management District  
14306 Park Avenue  
Victorville, CA 92392

Dear Mr. Wales:

On behalf of Genesis Solar, LLC, attached please find the following for the Genesis Solar Energy Project:

- Application for Authority to Construct and Permit to Operate
- Application for Gasoline Dispensing Facilities
- Gasoline Tank Emission Calculation
- Fixed Roof Tank Emission Calculation (Diesel Fuel – revised from the previous calculation to accommodate a 3,600 gal tank)
- Application fee of $452.00 ($226.00 per form)

Please feel free to contact me should you have any questions.

Sincerely,

Emily Festger (for Tricia Bernhardt)  
Tetra Tech EC, Inc.

Cc: Meg Russell (Genesis Solar, LLC)  
    Mike Monosmith (California Energy Commission)

Attachment
**APPLICATION FOR AUTHORITY TO CONSTRUCT AND PERMIT TO OPERATE**

1. Permit To Be Issued To (company name to receive permit):
   Genesis Solar, LLC

2. Mailing/Billing Address (for above company name):
   700 Universe Blvd., Juno Beach, FL 33408

3. Facility or Business License Name (for equipment location):
   Genesis Solar Energy Project

4. Facility Address - Location of Equipment (if same as for company, enter "Same"): Riverside County, Blythe, CA

5. Contact Name/Title: Duane McCloud
   Email Address: duane.mccloud@nexteraenergy.com
   Phone/Fax Nos.: (561) 694-3577

6. Application is hereby made for Authority To Construct (ATC) and Permit To Operate (PTO) the following equipment:
   1-2000 gallon gasoline storage tank (see supplemental gas tank form)

7. Application is for:
   - New Construction
   - Modification*
   - Change of Owner*  
   *Current Permit Number:

8. Type of Organization (check one):
   - Individual Owner
   - Partnership
   - Corporation
   - Utility
   - Local Agency
   - State Agency
   - Federal Agency

9. General Nature of Business:
   Solar Electric Power Generation
   Principal Product: Electricity
   SIC Code (if known):

10. Distances (feet and direction to closest):
    See AFC for this data.

11. Facility Annual Throughput by Quarters (percent):
    | Jan-Mar | Apr-Jun | Jul-Sep | Oct-Dec |
    | 25      | 25      | 25      | 25      |

12. Expected Facility Operating Hours:
    | Hrs/Day | Days/Wk | Wks/Yr | Total Hrs/Yr |
    | 16      | 7       | 52     | 5840       |

13. Do you claim Confidentiality of Data (if yes, state nature of data on reverse in Remarks)? Yes [X] No

14. Signature of Responsible Official:
    Official Title: Director
    Typed or Printed Name of Responsible Official: Scott A. Busa
    Phone Number: (561) 691-2889
    Date Signed: 1-28-2010

**For District Use Only**

Application Number: Invoice Number: Permit Number: Company/Facility Number:

2/26/2010
15. Stack Emissions Information:

<table>
<thead>
<tr>
<th>Stack No.</th>
<th>Stack Height</th>
<th>FT. agl</th>
<th>Stack Diameter</th>
<th>FT.</th>
<th>Exhaust Temp</th>
<th>F deg</th>
<th>ACFM</th>
<th>Exhaust Flow Rate</th>
<th>FT/SEC</th>
<th>Exhaust Velocity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
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<td>3</td>
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<td></td>
</tr>
</tbody>
</table>

additional stacks

See supplemental gas tank form.

Stack Height is the distance above ground level to discharge point (feet)
Stack Diameter is the diameter (or equivalent circular diameter) of discharge point (nearest tenth foot)
If using cross-sectional area (A in square feet), equivalent diameter is $D = (1.273A)^{0.5}$
Exhaust Temp in degrees F, actual or estimated to nearest 50 deg F
Exhaust Flow Rate at discharge point in actual cubic feet per minute (ACFM)
Exhaust Velocity in feet per second, design or measured

16. Remarks (basis for confidentiality of data, process description, modification description, etc.):

None, See AFC Sections on Air Quality and Public Health, and Appendices.

If you wish to specify process information as proprietary or confidential, space is provided for this purpose. The kinds and rates of emissions may not be held confidential; emissions are subject to public disclosure.
MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT
14306 Park Avenue, Victorville, CA 92392-2383
(760) 245-1661 Facsimile: (760) 245-2022
http://www.mdaqmd.ca.gov Eldon Heaston
Executive Director

APPLICATION FOR GASOLINE DISPENSING FACILITIES

1. Permit To Be Issued To (company name to receive permit):
   Genesis Sclar, LLC
   35-2303285

2. Mailing/Billing Address (for above company name):
   700 Universe Blvd., Juno Beach, FL 33408

3. Facility or Business License Name (for equipment location):
   Genesis Solar Energy Project

4. Facility Address - Location of Equipment (if same as for company, enter "Same"):
   Riverside County, Blythe, CA
   Location UTM or Lat/Long:
   33°38'5.39"N, 114°57'20.53"W

5. Contact Name/Title:
   Duane McCord
   Phone/Fax Nos.:
   (561) 694-3577

6. Application is for:
   For modification or change of owner:
   ☑ New Construction ☐ Modification* ☐ Change of Owner*
   *Current Permit Number:
   
7. Type of Organization (check one):
   ☑ Individual Owner ☐ Partnership ☑ Corporation ☐ Utility ☐ Local Agency ☐ State Agency ☐ Federal Agency

8. Vapor Control Equipment:
   Compliance w/ARB Exec. Order:
   Phase I: ☐ Two-Point ☑ Coaxial G-70- any CARB approved Phase I system
   Phase II: ☐ Balance ☐ Assist ☐ None G-70- any CARB approved Phase II system
   If Phase II is complying with Exec Order G-70-52, Exhibit # is:

9. Dispensers: No., Type, Make & Model: 1 dispenser, unknown at this time

10. Nozzles:
    Fuel or Octane Number
    No. of Existing Nozzles: 0
    No. of Nozzles to Add: 1
    No. of Nozzles to Remove: 0
    New Total No. of Nozzles: 1

11. Nearest Receptors:
    Distance (feet or meters):
    Residential Property Line
    Off-site Workplace Property Line
    School Property Line n/a
    Medical Facility Structure n/a

12. Signature of Responsible Person:
    Print or Type Name: Scott A. Busa
    Title: Director
    Date: 1/28/2010

- For District Use Only -

Application Number: Invoice Number: Permit Number: Company/Facility Number:

2/26/2010 Page 1 of 2
<table>
<thead>
<tr>
<th>Tank Number</th>
<th>Type</th>
<th>Remove?</th>
<th>Partition?</th>
<th>Capacity (gallons)</th>
<th>Product</th>
<th>Position</th>
<th>Fill Tube Type</th>
<th>Overfill Protect?</th>
<th>Vert Valve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>2000</td>
<td>gasoline</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
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</table>

17. Fuel Throughput or Sales (gallons):

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<tr>
<th>Fuel</th>
<th>Monthly</th>
<th>Annual</th>
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</thead>
<tbody>
<tr>
<td>Gasoline</td>
<td>&lt;900</td>
<td>10768</td>
</tr>
<tr>
<td>Diesel</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes: see emissions sheet attached

- Gasoline is defined as any organic liquid... having a Reid Vapor Pressure of 200 mm Hg (3.9 psi) or greater, and used as a motor vehicle fuel... [District Rule 461]
- Gasoline includes but is not limited to all octanes (87U, 89U, 92U and various "high performance") of gasoline, methanol, ethanol, and "aviation gasoline" (AvGas).
GASOLINE TANK EMISSION CALCULATION

Reference: AP-42, Section 5.2, 6/08

***** Input *****

Program is Applicable to All Grades/Types of Gasoline

UNDERGROUND TANK FILLING

<table>
<thead>
<tr>
<th>Type</th>
<th>Factor (lb/1000 gal)</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balanced Submerged Filling</td>
<td>0.3</td>
<td>Phase 1 Varec</td>
<td></td>
</tr>
<tr>
<td>Submerged Filling</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Splash Filling</td>
<td>0</td>
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</tr>
<tr>
<td>Tank Breathing</td>
<td>1</td>
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<td></td>
</tr>
<tr>
<td>Spillage</td>
<td>0.7</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

VEHICLE REFUELING

<table>
<thead>
<tr>
<th>Type</th>
<th>Value (gals/yr)</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controlled</td>
<td>10768</td>
<td>1.1 Phase II VAREC</td>
</tr>
<tr>
<td>Uncontrolled</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

Intermediate Calculations

\[
\begin{align*}
TP &= 10.768 \\
EF &= 3.1 \\
\end{align*}
\]

***** Output *****

Total VOC Losses (lb/yr): 33.3808

<table>
<thead>
<tr>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>lb/day</td>
<td>0.09</td>
</tr>
<tr>
<td>lb/hr</td>
<td>0.004</td>
</tr>
<tr>
<td>(TPY)</td>
<td>0.0166904</td>
</tr>
</tbody>
</table>

* Enter 0 for any category which is not applicable.
FIXED ROOF TANK EMISSION CALCULATION

Reference: AP-42, Section 7.1, 9/97

Emissions Scenario:

X: PTE

***** Input *****

Number of Similar Tanks: 1

Stored Substance ID: Diesel Fuel

Tank ID: Tank 1

Year: Any

Tank Cap: 3500 gallons

Vapor Molecular Wt: 130

Vapor Pressure (psia): 0.00648

Tank Diameter (ft): 6

Tank Height/Length (ft): 9.5

Avg. Vapor Space Height (ft): 4

Avg. Diurnal Temp Change (degF): 28

Paint Factor: 1

Small Tank Adj Factor: 1

Product Factor: 1

Turnover Factor: 3.18

Throughput (gals/yr): 6391

Intermediate Calculations

TP = 6.39

Q = 0.01

D = 22.19

H = 2.03

T = 5.29

***** Output *****

Uncontrolled Emissions

Breathing Loss (lb/yr): 3.66

Working Loss (lb/yr): 0.41

Total VOC Losses (lb/yr): 4.07

Controlled Emissions

Control System Eff. (frac): 0

Total VOC Losses (lb/yr): 4.07

(lb/day): 0.0111

(lb/hr): 0.0005

(TPY): 0.0020

Additional References: *API Bulletin #2518, October 1991
TTECI-2007
APPLICATION FOR CERTIFICATION FOR THE
GENESIS SOLAR ENERGY PROJECT

Docket No. 09-AFC-8
PROOF OF SERVICE
(Revised 2/22/10)

APPLICANT
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Juno Beach, Florida 33408

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Meg Russel/Project Manager
Duane McCloud/Lead Engineer
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Robin Mayer
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Jennifer Jennings
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publicadviser@energy.state.ca.us

*indicates change
I, Emily Festger, declare that on March 12, 2010, I served and filed copies of the attached Application for Authority to Construct and Permit to Operate, and Application for Gasoline Dispensing Facilities to the MDAQMD dated March 10, 2010. The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at: [http://ww.energy.ca.gov/sitingcases/genesis_solar].

The documents have been sent to both the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission’s Docket Unit, in the following manner:

(Check all that Apply)

FOR SERVICE TO ALL OTHER PARTIES:

x sent electronically to all email addresses on the Proof of Service list;

x by personal delivery or by depositing in the United States mail at Sacramento, California with first-class postage thereon fully prepaid and addressed as provided on the Proof of Service list above to those addresses NOT marked “email preferred.”

AND

FOR FILING WITH THE ENERGY COMMISSION:

x sending an original paper copy and one electronic copy, mailed and emailed respectively, to the address below (preferred method);

OR

_____ depositing in the mail an original and 12 paper copies, as follows:

CALIFORNIA ENERGY COMMISSION
Attn: Docket No. 09-AFC-8
1516 Ninth Street, MS-4
Sacramento, CA 95814-5512
docket@energy.state.ca.us

I declare under penalty of perjury that the foregoing is true and correct.

Original Signed By:

[Signature]