



# SOLAR TURBINES INCORPORATED

July 31, 1989

SUBSIDIARY OF CATERPILLAR INC.

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TEL: (619) 544-5000, TLX: 895046

County of San Diego Air Pollution Control District  
9150 Chesapeake Drive  
San Diego, CA 92123-1095

Attn: Mr. Craig D. Anderson

Re: San Marcos Landfill Gas-to-Energy Project AC Nos. 870535 &amp; 870536

Dear Mr. Anderson:

In accordance with your request Solar has recalibrated the fuel gas flowmeter and recorded flows with two units running simultaneously and each unit running independently. The following calculations show how this latest calibration is reflected in each unit's fuel flow.

On July 22, 1989 the plant's Rosemount flowmeter was recalibrated using a Fluke 1610-12652. It should be noted that the flowmeter was initially found to have an overstated flowrate of 2.8%.

On July 29, 1989 both units were run simultaneously, and the measured fuel flow at 66°F (air inlet temp.), 468 Btu/SCF fuel heat value, 1552 KW and 105°F fuel temperature was 39,312 SCF/hr. TG #1 at 64°F (air inlet temp.), 493 Btu/SCF fuel heat value, 813 KW and 101°F fuel temperature, the fuel flow was 19,728 Btu/SCF. TG #2 at 69°F (air inlet temp.), 492 Btu/SCF fuel heat value, 788 KW and 117°F fuel temperature, the fuel flow was 18,768 Btu/SCF.

Therefore, the measured flow of 38,984 SCF/hr. during the June 26 & 27 air quality test at 64.4°F (air inlet temp.), 468 Btu/SCF fuel heat value, 1493 KW and 114°F fuel temperature, the fuel flow was corrected to 37,924 SCF/hr. and TG #1 at 739 KW with 468 Btu/SCF fuel heat value, adjusted for the July 29, 1989 test results, the fuel flow would be 18,979 SCF/hr. and TG #2 at 754 KW with 468 Btu/SCF fuel heat value, adjusted for the July 29, 1989 test results, the fuel flow would be 18,945 SCF/hr. = 315.75 scfm <sup>316.92 scfm</sup>

These corrected fuel flow values will be provided to Petro Chem to be included in the final air quality test report submitted to the County.

Please contact me at (619) 544-5446 if you have any questions.

Very truly yours,

  
Robert J. Anuskiewicz, Manager  
Waste-Energy Operations & Management

RJA/np/6476p/11

cc Ms. Leslie Johnson, Petro Chem Environmental Services  
Petro Chem Panafax No. 213/492-1026

TOTAL P.01