

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING AND COMPLIANCE DIVISION PERMIT APPLICATION EVALUATION AND CALCULATIONS	PAGES 2	PAGE 1
	APPL NO 577290	DATE 9/16/2015
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TITLE V PERMIT REVISION EVALUATION
(De-Minimis Significant Revision)

APPLICANT'S NAME: SUNSHINE GAS PRODUCERS, L.L.C.

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FACILITY ID: 139938

Background:

Sunshine Gas Producers, LLC (SGP), is a Title V facility. SGP is a landfill gas to energy (LFGTE) facility, located on Sunshine Canyon Landfill, designed to produce 24.5 MW gross power by combusting landfill gas in five gas turbines. Electricity produced is sold to Pacific Gas & Electric (PG & E).

This application, No.577290, was submitted for Title V permit revision on 08/07/2015 to include the following applications for modification by increase in equipment design heat input rate from 48.1 to 61.0 MMBTU/HR, with revised emission rates for criteria pollutants. Revise permit conditions as deemed necessary.

<u>Application #</u>	<u>Equipment</u>	<u>Current PC</u> 04/08/2015	<u>Initial PC</u> 04/27/2012
577289	Gas Turbine #1	571762	480567
577288	Gas Turbine #2	571763	480568
577287	Gas Turbine #3	571764	480569
577286	Gas Turbine #4	571767	480570
577285	Gas Turbine #5	571765	480571

Most recent Title V facility permit was issued on April 9, 2015.

June 30, 2015 Title V inspection report indicated that equipment were operating in compliance. Gas turbines were source tested January 12-16, 2015.

Evaluation:

SGP has requested for modification by increase in equipment design heat input rate from 48.1 to 61.0 MMBTU/HR, with revised emission rates for criteria pollutants. Permit conditions are revised as deemed necessary. Engineering evaluation for the proposed modification for gas turbine (s) is included here for reference.

Facility Wide Conditions:

Revised Condition No. 7 for the total heat input rate (MMBTU/HR) for the landfill gas processed by monitoring total volume of LFG and its heat content (BTU/SCF).

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Revised Condition No. 9 for the facility wide daily emission rate for oxides of sulfur (SO₂).

SECTION D: Facility Description and Equipment Specific Conditions

Proposed permits to operate for the five (5) LFG combustion turbines with conditions are included under Section D of the facility permit.

The proposed revision is considered a de-minimis significant revision and public notice is not required; however, it is subject to 45-day EPA review and comment period.

Rules Evaluation:

Compliance with a Reg. XXX -Title V permits and applicable Rules and Regulations are expected.

Conclusions & Recommendations:

Issue the Title V permit upon completion of EPA review. Include approved POs to Section D.