



Section I - South Coast AQMD BACT/LAER Determination

Source Type: **Major/LAER**
 Application No.: **571478**
 Equipment Category: **I.C. Engine**
 Equipment Subcategory: **Stationary, Non-Emergency, Electrical Generator**
 Date: **February 5, 2021**

1. EQUIPMENT INFORMATION

A. MANUFACTURER: Generac		B. MODEL: 6.8GNGD-100	
C. DESCRIPTION: I.C. Engine, Stationary, Non-Emergency, Rich-Burn			
D. FUNCTION: SoCalGas' Aliso Canyon Storage Facility is an underground natural gas storage site. This is one of four prime engines generating electrical power to remote sites where various equipment is located, such as pumps and/or compressors and/or controls.			
E. SIZE/DIMENSIONS/CAPACITY: 147 BHP, naturally aspirated, 10 cylinders driving a 100 kW generator and 385 BHP, naturally aspirated, 6 cylinders driving a 250 kW generator.			
COMBUSTION SOURCES			
F. MAXIMUM HEAT INPUT: N/A			
G. BURNER INFORMATION: N/A			
TYPE	INDIVIDUAL HEAT INPUT	NUMBER	
N/A	N/A	N/A	
Enter additional burner types, as needed, add extra rows			
H. PRIMARY FUEL: NATURAL GAS		I. OTHER FUEL: N/A	
J. OPERATING SCHEDULE: Hours 24 Days 7 Weeks 52			
K. EQUIPMENT COST: N/A			
L. EQUIPMENT INFORMATION COMMENTS: This engine was retrofitted with the Tecogen Ultra Retrofit Emissions Kit.			

2. COMPANY INFORMATION

A. COMPANY: Southern California Gas Company		B. FAC ID: 800128	
C. ADDRESS: 12801 Tampa Ave. CITY: Northridge STATE: CA ZIP: 91326		D. NAICS CODE: 486210	
E. CONTACT PERSON: John Clarke		F. TITLE: Principal Air Quality Specialist	
G. PHONE NO.: (818) 700-3812		H. EMAIL: JCLARKE1@SEMPRAUTILITIES.COM	

3. PERMIT INFORMATION

A. AGENCY: South Coast AQMD	B. APPLICATION TYPE: MODIFICATION
C. SCAQMD ENGINEER: Roy Olivares	
D. PERMIT INFORMATION: PC ISSUANCE DATE: 9/9/16 P/O NO.: G52129 PO ISSUANCE DATE: 8/13/2019	
E. START-UP DATE: 6/19/2017	
F. OPERATIONAL TIME: 2+ years	

4. EMISSION INFORMATION

A. BACT EMISSION LIMITS AND AVERAGING TIMES: List all criteria contaminant or precursor emission limits, including facility limits, on the permit(s) that affects the equipment. Include units, averaging times and corrections (%O ₂ , %CO ₂ , dry, etc). For VOC, values must include if the concentration is reported as methane, hexane or any other compound. VOC mass emissions should include the molecular weight-to-carbon ratio, if applicable.						
	VOC	NOx	SOx	CO	PM OR PM₁₀	INORGANIC
BACT Limit	0.1 lbs/MW-hr	0.07 lbs/MW-hr		0.2 lbs/MW-hr		
Averaging Time	15 min	15 min		15 min		
Correction	15% O ₂	15% O ₂		15% O ₂		
B. OTHER BACT REQUIREMENTS: Concise description of the BACT requirements for each regulated contaminant from the equipment, other than the requirements list in Section 4(A).						
C. BASIS OF THE BACT/LAER DETERMINATION: Achieved in Practice/New Technology						
D. EMISSION INFORMATION COMMENTS:						

5. CONTROL TECHNOLOGY

A. MANUFACTURER: TECOGEN / DCL		B. MODEL: SSC150/2-DC49 CC	
C. DESCRIPTION: Tecogen Ultra Emissions Retrofit Kit control system, comprised of Three-Way Catalyst (DCL) with Air/Fuel Ratio Controller (Continental Controls Air/Fuel Ratio Controller Model EGO2) and Oxidation Catalyst (Tecogen proprietary).			
D. SIZE/DIMENSIONS/CAPACITY: N/A			
E. CONTROL EQUIPMENT PERMIT INFORMATION: APPLICATION NO. same PC ISSUANCE DATE: same PO NO.: same PO ISSUANCE DATE: same			
F. REQUIRED CONTROL EFFICIENCIES: .			
CONTAMINANT	OVERALL CONTROL EFFICIENCY	CONTROL DEVICE EFFICIENCY	COLLECTION EFFICIENCY
VOC	___%	___%	___%
NOx	___%	___%	___%
SOx	___%	___%	___%
CO	___%	___%	___%
PM	___%	___%	___%
PM ₁₀	___%	___%	___%
INORGANIC	___%	___%	___%
G. CONTROL TECHNOLOGY COMMENTS: This system is retrofitted with an electrical load bank, which must be operated in order to continuously meet permitted emissions limits. Catalyst life has been short due to system back pressure, condensation, and high exhaust temperatures.			

6. DEMONSTRATION OF COMPLIANCE

A. COMPLIANCE DEMONSTRATED BY: Source Test
B. DATE(S) OF SOURCE TEST: 10/22-26/19
C. COLLECTION EFFICIENCY METHOD: N/A
D. COLLECTION EFFICIENCY PARAMETERS: N/A
E. SOURCE TEST/PERFORMANCE DATA:N/A
F. TEST OPERATING PARAMETERS AND CONDITIONS:
G. TEST METHODS (SPECIFY AGENCY): South Coast AQMD
H. MONITORING AND TESTING REQUIREMENTS:

I. DEMONSTRATION OF COMPLIANCE COMMENTS: This test includes results for five engines at So Cal Gas' Aliso Canyon storage facility.

7. ADDITIONAL SCAQMD REFERENCE DATA

A. BCAT: 040001	B. CCAT: 00	C. APPLICATION TYPE CODE: 60	
D. RECLAIM FAC? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	E. TITLE V FAC: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	F. SOURCE TEST ID(S): 18316	
G. SCAQMD SOURCE SPECIFIC RULES: Rule 1110.2			
H. HEALTH RISK FOR PERMIT UNIT			
H1. MICR: Click here to enter text.	H2. MICR DATE: Click here to enter a date.	H3. CANCER BURDEN: Click here to enter text.	H4. CB DATE: Click here to enter a date.
H5: HIA: Click here to enter text.	H6. HIA DATE: Click here to enter a date.	H7. HIC: Click here to enter text.	H8. HIC DATE: Click here to enter a date.