Part B, Section 1 - SCAQMD BACT Determination



	Source Type:				Major/LAER				
9		Application No	.:	58	81392				
South Coast Eq		Equipment Cate	Equipment Category:		Gas Turbine				
		Equipment Sub	category:	Si	mple Cycle, Nat	tural Gas			
		Date:		F	ebruary 1, 2019				
1.	EQUI	MENT INFORM	MATION		•				
А.	MANUFA	CTURER: Gener	al Electric		B. MODEL: L	MS100PA			
C.	DESCRIPT	TON: Simple Cyc	cle natural ga	s fired tu	rbine with Interco	ooler and water injection.			
D.	FUNCTION Operator turbines a	N: The equipment (CAISO) during put this location.	t is at a "Peak periods of hig	cer" plant h electric	to support Califoreity demand. It's	ornia Independent System one of five identical			
E.	SIZE/DIMI	ENSIONS/CAPACIT	Y: Net Powe	er Outpu	100.1 MW				
со	MBUSTION	SOURCES							
F.	MAXIMUN	M HEAT INPUT: 89	91.7 MMBTU/h	r					
G.	BURNER I	NFORMATION:							
		TYPE	INDIV	VIDUAL H	EAT INPUT	NUMBER			
		N/A	Rated heat inpu	ut of single	burner, in btu/hr	Number of burners			
H.	PRIMARY	FUEL: Natural Ga	ıs	I. OTHE	R FUEL: Suppleme	entary or standby fuels			
J.	OPERATIN	G SCHEDULE:	Hours 24 HR	S//DAY	7 DAYS/WEEK	52 WKS/YR			
K.	EQUIPMEN	NT COST: N/A							
L.	EQUIPMEN	T INFORMATION	COMMENTS:						
2.	COMP	ANY INFORMA	ATION						

2.	COMPANY INFORMATION	
А.	COMPANY: Walnut Creek Energy, LLC	B. FAC ID: 146536
C.	ADDRESS: 911 Bixby Drive CITY: City of Industry STATE: CA ZIP: 91	D. NAICS CODE: 221112
E.	CONTACT PERSON: Heather MacLeod	F. TITLE: Environmental Specialist
G.	PHONE NO.: - H. E	MAIL: -

3.	PERMIT INFORMATIO	N					
A.	AGENCY: SCAQMD	B. APPLICATION TYPE: NEW CONSTRUCTION					
C.	SCAQMD ENGINEER: Christian Aviles						
D.	PERMIT INFORMATION: PC ISSUANCE DATE: 9/28/12						
	P/O NO.: G53017 PO ISSUANCE DATE: 1/2/2018						
E.	START-UP DATE: 12/21/2012						
F.	OPERATIONAL TIME: 6 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 (%O₂, %CO₂, 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	СО	PM or PM ₁₀	INORGANIC
BACT Limit	2 PPMV	2.5 PPMV		4 PPMV		5 PPMV NH ₃
Averaging Time	1 HOUR	1 HOUR		1 HOUR		1 HOUR
Correction	15 % O ₂	15 % O ₂		15 % O ₂		15 % O ₂

B. OTHER BACT REQUIREMENTS: The emission limit shall not apply during turbine commissioning, start-up, shutdown, and equipment tuning.

C. BASIS OF THE BACT/LAER DETERMINATION: Achieved in Practice/New Technology

D. EMISSION INFORMATION COMMENTS: Enter any additional comments regarding Emissions Information.

5. CONTRO	DL TECHNOLOGY					
A. MANUFACTU	JRER: SCR - Haldor-Tops	oe, CO	B. MODEL	.: SCR - DNX-629, CO		
OxyCat - BA	ASF		OxyCat - Comet			
C. DESCRIPTIO	N: Ammonia Injection Gri	d with aqueous	ammonia s	tored in a 16,000 gallon		
tank						
D. SIZE/DIMENS	SIONS/CAPACITY: SCR – 1	272 cu ft: Wid	th 19 ft 6 in,	, Height 33 ft, Length 2 ft		
6 in. CO Ox	xycat - 420 cu ft of total ca	talyst volume				
E. CONTROL EQ	UIPMENT PERMIT INFORM	ATION:				
APPLICATION	N NO. 581387 PC ISSUA	NCE DATE: 9/18	/12			
PO NO.: G530	PO ISSUAN	CE DATE: 12/29/	2017			
CONTAMINANT	OVERALL CONTROL	CONTROL	DEVICE	COLI ECTION EFFICIENCY		
	EFFICIENCY	EFFICIE	NCY			
VOC	%	9	ó	%		
NOx	%	9	ó	%		
SOx	%	9	ó	%		
СО	%	%		%		
РМ	%	%		%		
PM ₁₀	%	9	, D	%		
INORGANIC	%	9	ó	%		
G. CONTROL TEC Technology.	CHNOLOGY COMMENTS Ente	er comments for a	lditional infor	mation regarding Control		

6. DEMONSTRATION OF COMPLIANCE

- A. COMPLIANCE DEMONSTRATED BY: CEMS DATA and SOURCE TEST
- B. DATE(S) OF SOURCE TEST: January 22, 2013

C. COLLECTION EFFICIENCY METHOD: N/A

- D. COLLECTION EFFICIENCY PARAMETERS: N/A
- E. SOURCE TEST/PERFORMANCE DATA: NOx average over 3 loads was 2.24 ppm @ 15% O2. NH3 average over 3 loads was 1.53 ppm@15%O2. VOC results below detection limit.
- F. TEST OPERATING PARAMETERS AND CONDITIONS: 50%, 75% and 100% loads.
- G. TEST METHODS (SPECIFY AGENCY): SCAQMD 100.1 for NOx, CO. SCAQMD 25.3 for VOC. SCAQMD 5.1 and EPA 201A/202 for PM and PM2.5
- H. MONITORING AND TESTING REQUIREMENTS: Continuous Emissions Monitoring System and Compliance test every three years.

I. DEMONSTRATION OF COMPLIANCE COMMENTS: Unit has shown compliance from source test and CEMS data.

7.	ADDITIONA								
A.	BCAT: 013709	B. CCAT:	B. CCAT: 81		C.	APPLICATION TYPE CODE: Click here to enter text.			
D.	RECLAIM FAC? E. TITLE V FAC				F.	SOURCE TEST ID(S): PR12581A			
	YES ⊠ NO □								
G.	SCAQMD SOURCE SPECIFIC RULES: Rule 2012, 409, 475, 1303(a)(1), 1703(a)(2)								
H.	. HEALTH RISK FOR PERMIT UNIT								
H1.	. MICR: Click here H2. MICR DATE: Click H3. CA here to enter a date. Cli				CER BURDEN: k here to enter text.		H4. CB DATE: Click here to enter a date.		
Н5	HIA: Click here to enter text.H6. HIA DATE: Click here to enter a date.		Click here	H7. HIC: text.	IC: Click here to enter ext.		H8. HIC DATE: Click here to enter a date.		