## AQMD

## Part B, Section I: SCAOMD BACT Determination

Source Type: Major/LAER Application No.: 546360 **Equipment Category:** I.C. Engine, Digester Gas Fired Equipment Subcategory: Date: **April 4, 2017 EQUIPMENT INFORMATION** A. MANUFACTURER: Cooper Bessmer MODEL: LSVB-12-SGC C. DESCRIPTION: Spark Ignition, four strokes with modified turbocharged-intercooled, V-12 type FUNCTION: On-site electrical power generation SIZE/DIMENSIONS/CAPACITY: 3471 HP, driving 2500 kW generator COMBUSTION SOURCES MAXIMUM HEAT INPUT: ---G. BURNER INFORMATION **TYPE** INDIVIDUAL HEAT INPUT **NUMBER** H. PRIMARY FUEL: Digester and/or natural I. OTHER FUEL: ---J. OPERATING SCHEDULE: 24 HRS/DAY 7 DAYS/WEEK 52 WKS/YR K. EQUIPMENT COST: Not Available L. EQUIPMENT INFORMATION COMMENTS: Engine is equipped with an exhaust heat recovery steam generator, 5,008,500 Btu/hr capacity and digester gas cleaning system to remove siloxanes and other contaminants that may damage and reduce performance of SCR and oxidation exhaust control system. Inlet siloxane loading levels of less than 1 ppmv for D4 and less than 5 ppmv for D5. 2. **COMPANY INFORMATION** A. COMPANY: Orange County Sanitation District B. FAC ID: 017301 D. NAICS CODE: C. ADDRESS: 10844 Ellis Avenue CITY: Fountain Valley STATE: CA ZIP: 92708 E. CONTACT PERSON: Terry Ahn F. TITLE: Regulatory Specialist G. PHONE NO.: 714-593-7082 EMAIL: tahn@ocsd.com

3.	PERMIT	<b>INFORMATION</b>	V
J.	T TATALATE		

A.	AGENCY: SCAQMD	B.	APPLICATION TYPE:	PERMIT TO OPERATE
C.	SCAQMD ENGINEER:			
D.	PERMIT INFORMATION:		PC ISSUANCE DATE:	
	P/O NO.: G45189		PO ISSUANCE DATE: 3/3/2017	
E.	START-UP DATE:			
F.	OPERATIONAL TIME:			

## 4. EMISSION INFORMATION

A. BACT EMISSION LIMITS AND AVERAGING TIMES:

	VOC	NOX	SOX	СО	PM or PM <sub>10</sub>	Inorganic
BACT Limit	30 ррм	11 ррм		250 ррм	Rule 404	
Averaging Time	Per 1110.2 requirements	Per 1110.2 requirements		Per 1110.2 requirements		
Correction	15% O <sub>2</sub>	15% O <sub>2</sub>		15% O <sub>2</sub>		

- B. OTHER BACT REQUIREMENTS: Compliance with emission requirements of Rule 1110.2(d)(1)(C)
- C. BASIS OF THE BACT/LAER DETERMINATION: New listing to show compliance with the more stringent Rule 1110.2. Other (add comment)
- D. EMISSION INFORMATION COMMENTS:

5. CONTRO	OL TECHNOLOGY		
A. MANUFACT	URER: Johnson Matthey, In	nc. B. MODE	EL: 79449
C. DESCRIPTIO	N: Selective Catalytic Red	luction and Catalytic Oxid	lizer
	SIONS/CAPACITY: SCR me oxide or platinum with 200 (		
	QUIPMENT PERMIT INFORMA N NO. 559225 PC ISSUANCE 96 PO ISSUANCE		
F. REQUIRED Commissions.	ONTROL EFFICIENCIES: Mair	ntain compliance with Rule 11	10.2(d)(1)(C) for engine
CONTAMINANT	OVERALL CONTROL EFFICIENCY	CONTROL DEVICE EFFICIENCY	COLLECTION EFFICIENCY
VOC	%	%	%
NOx	%	%	%
SOx	%	%	%
СО	%	%	%
PM	%	%	%
$PM_{10}$	%	%	%
INORGANIC	%	%	%
	CHNOLOGY COMMENTS Mai compliance with Rule 431.1.	ntain compliance with Rule 11	10.2(d)(1)(C) for engine
6. DEMON	STRATION OF COMPLI	IANCE	
	E DEMONSTRATED BY: South on Struct (A/N 497717).	urce test conducted when	equipment was under
	SOURCE TEST: November 2	20, 2014	
C. COLLECTION	N EFFICIENCY METHOD:		
	N EFFICIENCY PARAMETERS	·.	
D. COLLECTION	N EFFICIENCY PARAMETERS	o: 	
E. SOURCE TES	T/PERFORMANCE DATA:		
F. TEST OPERA	TING PARAMETERS AND CO	NDITIONS:	
	DDS (SPECIFY AGENCY): NOx ned using SCAQMD Method 25.3		SCAQMD Method 100.1.
H. MONITORING	G AND TESTING REQUIREME	ENTS: Compliance with Rule 1	110.2(f)
I. DEMONSTRA	TION OF COMPLIANCE COM	MENTS:	

7	<b>ADDITIONAL</b>	SCAOMD	REFERENCE	DATA
/ •	ADDITIONAL	BCAQMID	KELEKEILCE	DAIA

A.	BCAT:	B. CCAT:		C. APPLICATIO	N TYPE CODE:		
D.	RECLAIM FAC?	E. TITLE V FAC:	E. TITLE V FAC:		F. SOURCE TEST ID(S):		
	YES □ NO □	YES □ NO					
G.	. SCAQMD SOURCE SPECIFIC RULES:						
H.	H. HEALTH RISK FOR PERMIT UNIT						
H1.	MICR:	H2. MICR DATE:	H3. CAN	CER BURDEN:	H4. CB DATE:		
H5:	HIA:	H6. HIA DATE:	H7. HIC:		H8. HIC DATE:		