



SCAQMD BACT Determination

Source Type: Major/LAER
 Application No.: 538706
 Equipment Category: Flare
 Equipment Subcategory: Oil and Gas Operations
 Date: **December 10, 2015**

1. EQUIPMENT INFORMATION

A. MANUFACTURER: Flare Industries/Bekaert CEB		B. MODEL: CEB 800
C. DESCRIPTION: Enclosed ground flare with Clean Enclosed Burner		
D. FUNCTION: Process gas disposal		
E. SIZE/DIMENSIONS/CAPACITY: 24'H x 7'-9"L x 7'-9"W		
COMBUSTION SOURCES		
F. MAXIMUM HEAT INPUT: 27 MMBtu/hr		
G. BURNER INFORMATION		
TYPE	INDIVIDUAL HEAT INPUT	NUMBER
NIT mesh knitted metal fiber enclosed burner	Rated heat input of single burner, in btu/hr	1
Enter additional burner types, as needed, add extra rows		
H. PRIMARY FUEL: Process gas from Oil and Gas Operations		I. OTHER FUEL: natural gas
J. OPERATING SCHEDULE: 24 HRS/DAY 7 DAYS/WEEK 52 WKS/YR		
K. EQUIPMENT INFORMATION COMMENTS: Continuous pilot burner with thermocouple for flame detection. Propane storage provides fuel for pilot burner.		

2. COMPANY INFORMATION

A. COMPANY: Linn Operating, Inc.		B. FAC ID: 151532
C. ADDRESS: Brea-Olinda Oilfield, 2000 Tonner Canyon CITY: Brea STATE: CA ZIP: 92821		D. NAICS CODE: Click "NAICS" for link
E. CONTACT PERSON: Vince VanDelden		F. TITLE: EH&S Representative
G. PHONE NO.: 714-257-1604	H. EMAIL: vvandelden@linenergy.com	

3. PERMIT INFORMATION

A. AGENCY: SCAQMD	B. APPLICATION TYPE: NEW CONSTRUCTION
C. SCAQMD ENGINEER: Maria Vibal	
D. PERMIT INFORMATION: PC ISSUANCE DATE: 1/8/13 P/O NO.:G34773 PO ISSUANCE DATE: 2/24/2015	
E. START-UP DATE: 3/25/2013	
F. OPERATIONAL TIME: The flare will be operational at all times for disposal of process gas from Oil and Gas Operations at the site.	

4. EMISSION INFORMATION

A. BACT EMISSION LIMITS AND AVERAGING TIMES: All at 3% O ₂ , one hour averaging time.						
	VOC	NOx	SOx	CO	PM OR PM₁₀	INORGANIC
BACT Limit	10 ppmv	15 ppmv		10 ppmv		
Averaging Time	1 HR	1 HR		1 HR		
Correction	3% O ₂	3% O ₂		3% 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						
D. EMISSION INFORMATION COMMENTS: Similar flare model CEB 500, 17 MMBtu/hr operating at Oil and Gas operations in Santa Barbara APCD has been included in CARB BACT Clearinghouse with same emission limits. 99.9+% destruction for VOC and BTEX.						

5. CONTROL TECHNOLOGY

A. MANUFACTURER: Manufacturer of the equipment		B. MODEL: Model name and number	
C. DESCRIPTION: Additional description of the operation and functions of the control equipment.			
D. SIZE/DIMENSIONS/CAPACITY: An appropriate size parameter such as rated heat input, usable volume, rated filter efficiency, and/or one more characteristic dimensions.			
E. CONTROL EQUIPMENT PERMIT INFORMATION: APPLICATION NO. Click here to enter text. PC ISSUANCE DATE: Click here to enter a date. PO NO.: Click here to enter text. PO ISSUANCE DATE: Click here to enter a date.			
F. REQUIRED CONTROL EFFICIENCIES: Minimum efficiencies of the system control equipment as required by permit, or the most stringent rule requirement. The control or destruction efficiency is determined across the control device (e.g. inlet-outlet). Collection or capture efficiency is based at each point of contaminant collection in the system. Enter each contaminant that applies. Add rows as needed.			
CONTAMINANT	OVERALL CONTROL EFFICIENCY	CONTROL DEVICE EFFICIENCY	COLLECTION EFFICIENCY
VOC	___%	99.9%	___%
NOx	___%	___%	___%
SOx	___%	___%	___%
CO	___%	___%	___%
PM	___%	___%	___%
PM ₁₀	___%	___%	___%
Inorganic	___%	___%	___%
G. CONTROL TECHNOLOGY COMMENTS Enter comments for additional information regarding Control Technology.			

6. DEMONSTRATION OF COMPLIANCE

A. COMPLIANCE DEMONSTRATED BY: Source Test
B. DATE(S) OF SOURCE TEST: 3/25-26/13 & 4/19/13
C. COLLECTION EFFICIENCY METHOD: N/A
D. COLLECTION EFFICIENCY PARAMETERS: N/A
E. SOURCE TEST/PERFORMANCE DATA: NOx= 9.87ppmvd; CO=6.15ppmvd; VOC=3.93ppmvd, all at 3% O2
F. TEST OPERATING PARAMETERS AND CONDITIONS: Fired on process gas @ approx. 21.73 MMBtu/hr, Process Gas HHV 913 Btu/scf
G. TEST METHODS (SPECIFY AGENCY): ASTM D-1945 & D-3588; SCAQMD 25.3, 10.1, 100.1, 307, 5.1, 4.1, 2.1; CARB 410

H. MONITORING AND TESTING REQUIREMENTS: Include any monitoring or testing requirements and their frequency that will be enforced to maintain emission levels reported for the BACT Determination.
I. DEMONSTRATION OF COMPLIANCE COMMENTS: Enter comments for additional information for Demonstration of Compliance.

7. ADDITIONAL SCAQMD REFERENCE DATA

A. BCAT: Click here to enter text.	B. CCAT: 08	C. APPLICATION TYPE CODE: 10	
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): PR12635	
G. SCAQMD SOURCE SPECIFIC RULES: 1148.1			
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.