



Section I – South Coast AQMD LAER/BACT Determination

Source Type: **Major/LAER**

Application No.: **618396**

Equipment Category: **Flare**

Equipment Subcategory: **Landfill Gas Fired**

Date: **TBD**

1. EQUIPMENT INFORMATION		
A. MANUFACTURER: John Zink		B. MODEL: 13' x 60' Zule LF
C. DESCRIPTION: Enclosed flare, landfill gas (LFG) fired, automatic air damper, 250 HP combustion air blower, and propane gas pilots.		
D. FUNCTION: Flare #4 incinerates landfill gas vented from landfill gas collection system. Flare #4 is part of a two-flare system.		
E. SIZE/DIMENSIONS/CAPACITY: 12' – 8" ID. x 60'-0" H., 167.15 MMBtu/hr, three LFG blowers, each 200 BHP, 5,500 SCFM, common to flare #3.		
COMBUSTION SOURCES		
F. MAXIMUM HEAT INPUT: 167.15 MMBtu/hr		
G. BURNER INFORMATION:		
TYPE	INDIVIDUAL HEAT INPUT	NUMBER
ZULE LF	20.89 MMBtu/hr	8
H. PRIMARY FUEL: Landfill gas		I. OTHER FUEL: Propane gas (pilot)
J. OPERATING SCHEDULE: 24 HRS/DAY 7 DAYS/WEEK 52 WKS/YR		
K. EQUIPMENT COST: N/A		
L. EQUIPMENT INFORMATION COMMENTS: N/A		

2. COMPANY INFORMATION	
A. COMPANY: USA Waste of Cal (El Sobrante Landfill)	B. FAC ID: 113674
C. ADDRESS: 10910 Dawson Canyon Road CITY: Corona STATE: CA ZIP: 92883	D. NAICS CODE: 562212
E. CONTACT PERSON: Cody Cowgill	F. TITLE: Site Engineer
G. PHONE NO.: 951-277-5106	H. EMAIL: ccowgill@wm.com

3. PERMIT INFORMATION	
A. AGENCY: South Coast AQMD	B. APPLICATION TYPE: NEW CONSTRUCTION
C. SCAQMD ENGINEER: Andres Palomino	
D. PERMIT INFORMATION: P/C ISSUANCE DATE: 4/27/21 P/O NO.: R-G64402 P/O ISSUANCE DATE: 4/27/2021	
E. START-UP DATE: 2021	
F. OPERATIONAL TIME: > 4 years	

4. EMISSION INFORMATION						
A. BACT EMISSION LIMITS AND AVERAGING TIMES:						
	VOC	NOx	SOx	CO	PM OR PM10	INORGANIC
BACT Limit	0.006 lb/MMBtu*	0.025 lb/MMBtu		0.06 lb/MMBtu	5 lb/MMSCF	
Averaging Time	1 HR	1 HR		1 HR	1 HR	
Correction						
B. OTHER BACT REQUIREMENTS: * VOC emissions reported as hexane						
C. BASIS OF THE BACT/LAER DETERMINATION: Achieved in Practice/New Technology						
D. EMISSION INFORMATION COMMENTS: Maximum 6,325 SCFM landfill gas (Condition #12 - project specific). 1,400 °F minimum exhaust temperature during operation (Condition #8 – project specific).						

5. CONTROL TECHNOLOGY			
A. MANUFACTURER: N/A		B. MODEL: N/A	
C. DESCRIPTION: N/A			
D. SIZE/DIMENSIONS/CAPACITY: N/A			
E. CONTROL EQUIPMENT PERMIT INFORMATION: APPLICATION NO.: N/A PC ISSUANCE DATE: N/A PO NO.: N/A PO ISSUANCE DATE: N/A			
F. REQUIRED CONTROL EFFICIENCIES: N/A			
CONTAMINANT	OVERALL CONTROL EFFICIENCY	CONTROL DEVICE EFFICIENCY	COLLECTION EFFICIENCY
VOC	___%	___%	___%
NOx	___%	___%	___%
SOx	___%	___%	___%
CO	___%	___%	___%
PM	___%	___%	___%
PM10	___%	___%	___%
INORGANIC	___%	___%	___%
G. CONTROL TECHNOLOGY COMMENTS: N/A			

6. DEMONSTRATION OF COMPLIANCE						
A. COMPLIANCE DEMONSTRATED BY: Source Test						
B. DATE(S) OF SOURCE TEST: Initial Source Test: July 14, 2021 Subsequent Compliance Source Tests: July 21, 2022; July 27, 2023; July 23, 2024; and May 29, 2025.						
C. COLLECTION EFFICIENCY METHOD: N/A						
D. COLLECTION EFFICIENCY PARAMETERS: N/A						
E. SOURCE TEST/PERFORMANCE DATA:						
Pollutants	Source Test Results					Permit Limit
	7/14/2021	7/21/2022	7/27/2023	7/23/2024	5/29/2025	
PM10 (lb/MMSCF)	3.26	4.64	3.96	2.29	4.96	5.00
VOC* (lb/MMBtu)	0.0034	0.0023	0.0043	0.0054	0.0058	0.006
NOx (lb/MMBtu)	<0.014	<0.017	<0.015	0.013	0.01	0.025
CO (lb/MMBtu)	<0.021	<0.041	<0.04	<0.04	<0.04	0.06
* As Hexane						

F. TEST OPERATING PARAMETERS AND CONDITIONS: Flow rate between 2,631 DSCFM to 4,538 DSCFM landfill gas. Temperatures ranged between 1,501 °F and 1,562 °F.
G. TEST METHODS (SPECIFY AGENCY): South Coast AQMD Methods 25.3, 100.1, 5.1, 2.1, and 4.1
H. MONITORING AND TESTING REQUIREMENTS: Source Testing annually for Methane, TGNMO, NO _x , CO, SO _x , PM10, O ₂ , N ₂ , H ₂ O, temperature, and flow.
I. DEMONSTRATION OF COMPLIANCE COMMENTS: N/A

7. ADDITIONAL SOUTH COAST AQMD REFERENCE DATA

A. BCAT: N/A	B. CCAT: 50	C. APPLICATION TYPE CODE: 10	
D. RECLAIM FAC? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	E. TITLE V FAC: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	F. SOURCE TEST ID(S): PR25121, PR24120, PR23148, PR22102, and PR21330	
G. SOUTH COAST AQMD SOURCE SPECIFIC RULES: Rule1150.1			
H. HEALTH RISK FOR PERMIT UNIT			
H1. MICR: 3.99E-08	H2. MICR DATE:12/20/20	H3. CANCER BURDEN:	H4. CB DATE:
H5: HIA: <1	H6. HIA DATE:12/20/20	H7. HIC: <1	H8. HIC DATE: 12/20/20



Section I – South Coast AQMD LAER/BACT Determination

Source Type: **Major/LAER**
 Application No.: **621901**
 Equipment Category: **Landfill Gas Sulfur Control System**
 Equipment Subcategory: **Sulfur Pre-Treatment System Prior to Combustion**
 Date: **TBD**

1. EQUIPMENT INFORMATION			
A. MANUFACTURER: -		B. MODEL: -	
C. DESCRIPTION: Landfill Gas (LFG) Treatment System. Two scavenger vessels in series with at least 4,000 pounds of BSR-50 media, and particulate filter vessel.			
D. FUNCTION: Landfill gas produced at OCWR FRB landfill is sent to this LFG treatment system to reduce the sulfur concentration prior to being routed to Flare #6 (Application No. 614468). A portion of the landfill gas is routed to the treatment canisters. Another portion of the LFG is left untreated and bypasses the system, where it is mixed with the treated gas and supplies Flare #6 with inlet H ₂ S at concentrations below permit requirements.			
E. SIZE/DIMENSIONS/CAPACITY: 4,000 SCFM design capacity			
COMBUSTION SOURCES			
F. MAXIMUM HEAT INPUT: N/A			
G. BURNER INFORMATION: N/A			
TYPE		INDIVIDUAL HEAT INPUT	NUMBER
H. PRIMARY FUEL: N/A			I. OTHER FUEL: N/A
J. OPERATING SCHEDULE:	HRS/DAY	DAYS/WEEK	WKS/YR
K. EQUIPMENT COST: N/A			
L. EQUIPMENT INFORMATION COMMENTS: Landfill opened in 1990. LFG contains 47% methane. During 2024, the total reduced sulfur from the untreated landfill gas ranged from 127 ppmv to 181 ppmv and H ₂ S from the untreated landfill gas ranged from 113 ppmv to 160 ppmv.			

2. COMPANY INFORMATION	
A. COMPANY: OC Waste and Recycling, FRB	B. FAC ID: 69646
C. ADDRESS: 11002 Bee Canyon Road CITY: Irvine STATE: CA ZIP: 92602	D. NAICS CODE: 562212
E. CONTACT PERSON: Sam Pascual	F. TITLE: Senior Civil Engineer
G. PHONE NO.: (949) 262-2424	H. EMAIL: sam.pascual@ocwr.ocgov.com

3. PERMIT INFORMATION

A. AGENCY: South Coast AQMD	B. APPLICATION TYPE: OTHER
C. SCAQMD ENGINEER: Duoduo Bao	
D. PERMIT INFORMATION: P/C ISSUANCE DATE: 7/15/21 P/O NO.: N/A P/O ISSUANCE DATE: TBD	
E. START-UP DATE: 6/28/2023	
F. OPERATIONAL TIME: > 2 years	

4. EMISSION INFORMATION

A. BACT EMISSION LIMITS AND AVERAGING TIMES:							
	VOC	NOx	SOx	CO	PM OR PM10	INORGANIC*	
BACT Limit			*			60	85
Averaging Time						Monthly	Daily
Correction							
B. OTHER BACT REQUIREMENTS: * Per application No. 614468, Permit to Construct Condition # 29: 60 PPMV and 85 PPMV concentration averaged monthly and daily, respectively, inlet to the combustion equipment.							
C. BASIS OF THE BACT/LAER DETERMINATION: Achieved in Practice/New Technology							
D. EMISSION INFORMATION COMMENTS: After being treated by the sulfur control system and then mixed with the raw LFG, the total sulfur as H ₂ S of the flow of gas into Flare #6 is required to meet the total sulfur limit as listed above for the inlet of the flare (A/N 614468).							

5. CONTROL TECHNOLOGY

A. MANUFACTURER:	B. MODEL:		
C. DESCRIPTION: Raw landfill gas supply line, two scavenger vessels in series, each 60" Dia. X 96" H. with at least 4,000 pounds of BSR-50 media, particulate filter vessel, and a LFG bypass line.			
D. SIZE/DIMENSIONS/CAPACITY: 4,000 SCFM design capacity			
E. CONTROL EQUIPMENT PERMIT INFORMATION: APPLICATION NO. _____ PC ISSUANCE DATE: _____ PO NO.: _____ PO ISSUANCE DATE: _____			
F. REQUIRED CONTROL EFFICIENCIES:			
CONTAMINANT	OVERALL CONTROL EFFICIENCY	CONTROL DEVICE EFFICIENCY	COLLECTION EFFICIENCY
VOC	___%	___%	___%
NOx	___%	___%	___%
SOx	___%	___%	___%
CO	___%	___%	___%
PM	___%	___%	___%
PM10	___%	___%	___%
INORGANIC	___%	___%	___%
G. CONTROL TECHNOLOGY COMMENTS: Permit requires maximum concentration only and does not specify a control efficiency. Controlling H ₂ S in process stream reduces SOx emissions.			

6. DEMONSTRATION OF COMPLIANCE

A. COMPLIANCE DEMONSTRATED BY: Source Test			
B. DATE(S) OF SOURCE TEST: 2/21/2024			
C. COLLECTION EFFICIENCY METHOD:			
d. COLLECTION EFFICIENCY PARAMETERS:			
E. SOURCE TEST/PERFORMANCE DATA:			
Flare # 6 Inlet	Date of Source Test	2/21/2024	12/30/2024
	Sulfur as H ₂ S (ppmv)	27	13.49
F. TEST OPERATING PARAMETERS AND CONDITIONS:			
G. TEST METHODS (SPECIFY AGENCY): South Coast AQMD Method 307-91			
H. MONITORING AND TESTING REQUIREMENTS: Sampling port is maintained at inlet gas line to the Flare #6, annual source testing in accordance with Rule 1118.1 and Rule 1150.1			
I. DEMONSTRATION OF COMPLIANCE COMMENTS:			

7. ADDITIONAL SOUTH COAST AQMD REFERENCE DATA

A. BCAT: 370950	B. CCAT: N/A	C. APPLICATION TYPE CODE: 10	
D. RECLAIM FAC? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	E. TITLE V FAC: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	F. SOURCE TEST ID(S): 23168	
G. SOUTH COAST AQMD SOURCE SPECIFIC RULES: Rule 431.1			
H. HEALTH RISK FOR PERMIT UNIT			
H1. MICR: -	H2. MICR DATE: -	H3. CANCER BURDEN: -	H4. CB DATE: -
H5. HIA: -	H6. HIA DATE: -	H7. HIC: -	H8. HIC DATE: -

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Section I- South Coast AQMD LAER/BACT Determination

Source Type: **Major/LAER**
 Application No.: **564386**
 Equipment Category: **Landfill Gas Sulfur Control System**
 Equipment Subcategory: **Sulfur Pre-Treatment System Prior to Combustion**
 Date: **TBD**

1. EQUIPMENT INFORMATION

A. MANUFACTURER: HydroCat		B. MODEL: G-Series	
C. DESCRIPTION: Sulfur Control System (SCS) with a design capacity of 9,000 SCFM consisting of five fixed bed pressure vessels in parallel and Continuous Fuel Gas Monitoring System (CFGMS) monitors total sulfur concentration.			
D. FUNCTION: Fixed bed pressure vessels chemically react with the landfill gas (LFG), removing H ₂ S from the gas stream. The fully treated LFG enters the supply header which provides fuel to the seven internal combustion engines, each driving a 3.37 MW electrical generator. The total reduced sulfur concentration at the inlet header to the engines is measured by CFGMS.			
E. SIZE/DIMENSIONS/CAPACITY: 9,000 SCFM design capacity			
COMBUSTION SOURCES			
F. MAXIMUM HEAT INPUT: N/A			
G. BURNER INFORMATION: N/A			
TYPE		INDIVIDUAL HEAT INPUT	
		NUMBER	
H. PRIMARY FUEL:		I. OTHER FUEL:	
J. OPERATING SCHEDULE: HRS/DAY		DAYS/WEEK	
		WKS/YR	
K. EQUIPMENT COST: N/A			
L. EQUIPMENT INFORMATION COMMENTS: Landfill opened in 1990. LFG contains 47% methane. During 2024, the total reduced sulfur from the untreated landfill gas ranged from 127 ppmv to 181 ppmv and H ₂ S from the untreated landfill gas ranged from 113 ppmv to 160 ppmv.			

2. COMPANY INFORMATION

A. COMPANY: Bowerman Power LFG, LLC		B. FAC ID: 157152	
C. ADDRESS: 11002 Bee Canyon Access Road CITY: Irvine STATE: CA ZIP: 92602		D. NAICS CODE: 221119	
E. CONTACT PERSON: Sharon Frank		F. TITLE: Environmental Compliance Manager	
G. PHONE NO.: (412) 747-8722		H. EMAIL: sfrank@montaukenegy.com	

3. PERMIT INFORMATION

A. AGENCY: South Coast AQMD	B. APPLICATION TYPE: CHANGE OF CONDITIONS
C. SCAQMD ENGINEER: Ray Ronquillo	
D. PERMIT INFORMATION: PC ISSUANCE DATE: 10/30/14 PO NO.: G50661 (A/N 564386) PO ISSUANCE DATE: 2/14/2018	
E. START-UP DATE: 3/1/2016	
F. OPERATIONAL TIME: > 10 years	

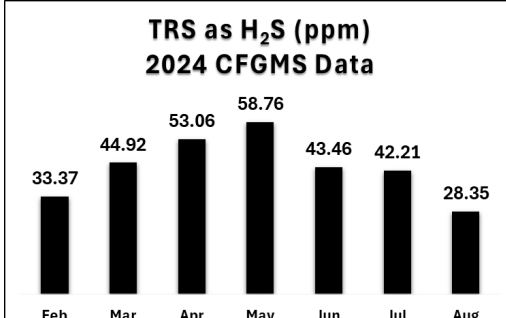
4. EMISSION INFORMATION

A. BACT EMISSION LIMITS AND AVERAGING TIMES:							
	VOC	NOx	SOx	CO	PM OR PM ₁₀	INORGANIC* PPMV	
BACT Limit			*			60	85
Averaging Time						Monthly	Daily
Correction							
B. OTHER BACT REQUIREMENTS: * Permit Condition # 4: The landfill gas at the inlet gas supply to the engines shall contain no more than 60 PPMV averaged monthly and 85 PPMV averaged daily, total sulfur compounds, calculated as H ₂ S.							
C. BASIS OF THE BACT/LAER DETERMINATION: Achieved in Practice/New Technology							
D. EMISSION INFORMATION COMMENTS: The total sulfur concentration at the inlet header supply line to the engines is measured and monitored by a CFGMS. When the sulfur removal efficiency of the system diminishes in time, as evidenced by the CFGMS readings, the operator is prompted to change out media in the vessel.							

5. CONTROL TECHNOLOGY

A. MANUFACTURER:		B. MODEL:	
C. DESCRIPTION: LFG SCS consisting of 5 fixed bed vessels in parallel, with approximately 70,233 pounds of Hydrocat G-series solid granular reactant media or equivalent in each vessel. Four out of five of the vessels are operating in parallel at one time, with the fifth being a standby vessel. Each vessel has an isolation valve for use while functioning as a standby vessel. Total sulfur as H ₂ S of the blended LFG is monitored by the CFGMS at the engines inlet header.			
D. SIZE/DIMENSIONS/CAPACITY: 9,000 SCFM system design capacity.			
E. CONTROL EQUIPMENT PERMIT INFORMATION:			
APPLICATION NO.: 564386		PC ISSUANCE DATE: 10/30/2014	
PO NO.: G50661		PO ISSUANCE DATE: 2/14/2018	
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	___%	___%	___%
NO _x	___%	___%	___%
SO _x	___%	___%	___%
CO	___%	___%	___%
PM	___%	___%	___%
PM ₁₀	___%	___%	___%
INORGANIC	___%	___%	___%
G. CONTROL TECHNOLOGY COMMENTS: Permit requires maximum concentration only and does not specify a control efficiency. Controlling H ₂ S in process stream reduces SO _x emissions.			

6. DEMONSTRATION OF COMPLIANCE

A. COMPLIANCE DEMONSTRATED BY: CFGMS																																							
B. DATE(S) OF SOURCE TEST: CFGMS data from 2/1/2024 through 8/31/2024																																							
C. COLLECTION EFFICIENCY METHOD: N/A																																							
D. COLLECTION EFFICIENCY PARAMETERS: N/A																																							
E. SOURCE TEST/PERFORMANCE DATA:																																							
 <p>TRS as H₂S (ppm) 2024 CFGMS Data</p> <table border="1"> <thead> <tr> <th>Month</th> <th>Value (ppm)</th> </tr> </thead> <tbody> <tr> <td>Feb</td> <td>33.37</td> </tr> <tr> <td>Mar</td> <td>44.92</td> </tr> <tr> <td>Apr</td> <td>53.06</td> </tr> <tr> <td>May</td> <td>58.76</td> </tr> <tr> <td>Jun</td> <td>43.46</td> </tr> <tr> <td>Jul</td> <td>42.21</td> </tr> <tr> <td>Aug</td> <td>28.35</td> </tr> </tbody> </table>		Month	Value (ppm)	Feb	33.37	Mar	44.92	Apr	53.06	May	58.76	Jun	43.46	Jul	42.21	Aug	28.35	<table border="1"> <thead> <tr> <th colspan="4">CFGMS Data for 2/1/24 through 8/31/24</th> </tr> <tr> <th colspan="4">Total Reduced Sulfur (ppmv)</th> </tr> <tr> <th colspan="2">Highest Monthly Average</th> <th colspan="2">Highest Daily Average</th> </tr> <tr> <th>Measured</th> <th>BACT Limit</th> <th>Measured</th> <th>BACT Limit</th> </tr> </thead> <tbody> <tr> <td>58.76</td> <td>60</td> <td>69</td> <td>85</td> </tr> </tbody> </table>		CFGMS Data for 2/1/24 through 8/31/24				Total Reduced Sulfur (ppmv)				Highest Monthly Average		Highest Daily Average		Measured	BACT Limit	Measured	BACT Limit	58.76	60	69	85
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F. TEST OPERATING PARAMETERS AND CONDITIONS:
G. TEST METHODS (SPECIFY AGENCY):
H. MONITORING AND TESTING REQUIREMENTS: The total sulfur concentration at the inlet supply line at the inlet header to the engines is measured and monitored by a CFGMS.
I. DEMONSTRATION OF COMPLIANCE COMMENTS: CFGMS averaged from 15 min intervals.

7. ADDITIONAL SCAQMD REFERENCE DATA

A. BCAT: 370950	B. CCAT: N/A	C. APPLICATION TYPE CODE: 60	
D. RECLAIM FAC? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	E. TITLE V FAC: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	F. SOURCE TEST ID(S): -	
G. SCAQMD SOURCE SPECIFIC RULES: Rule 431.1			
H. HEALTH RISK FOR PERMIT UNIT			
H1. MICR: -	H2. MICR DATE: -	H3. CANCER BURDEN: -	H4. CB DATE: -
H5: HIA: -	H6. HIA DATE: -	H7. HIC: -	H8. HIC DATE: -

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Section I - South Coast AQMD LAER/BACT Determination

Source Type: **Major/LAER**
 Application No.: **649020 & 649856**
 Equipment Category: **Linear Generator**
 Equipment Subcategory: **Non-Emergency Electrical Generator, Natural Gas Fired**
 Date: **TBD**

1. EQUIPMENT INFORMATION

A. MANUFACTURER: Mainspring Energy		B. MODEL: MSE-230-NG	
C. DESCRIPTION: The Mainspring Energy linear generator is a power generation technology that uses a thermochemical reaction to create linear motion that is directly converted into electricity. Each Mainspring Energy linear generator module consists of two identical cores (reaction zone and electrical generator). Each core includes an air-to-fuel ratio controller and is vented to an oxidation catalyst.			
D. FUNCTION: Mainspring linear generator uses a low-temperature reaction to produce electricity and is used as a stationary prime power source at this facility.			
E. SIZE/DIMENSIONS/CAPACITY: Each core is 120 kW			
COMBUSTION SOURCES			
F. MAXIMUM HEAT INPUT:			
G. BURNER INFORMATION			
	TYPE	INDIVIDUAL HEAT INPUT	NUMBER
	N/A	N/A	N/A
H. PRIMARY FUEL: Natural gas*		I. OTHER FUEL: N/A	
J. OPERATING SCHEDULE: 24 HRS/DAY 7 DAYS/WEEK 52 WKS/YR			
K. EQUIPMENT COST: N/A			
L. EQUIPMENT INFORMATION COMMENTS: * Per Rule 1110.3, Natural Gas means a mixture of gaseous hydrocarbons, with at least 80 percent methane by volume, and of pipeline quality, such as the gas sold or distributed by any utility company regulated by the California public utilities commission.			

2. COMPANY INFORMATION

A. COMPANY: Mainspring Energy, Incorporated		B. FAC ID: 189493	
C. ADDRESS: 1150 N Pepper Ave CITY: Colton STATE: CA ZIP: 92324		D. NAICS CODE: 445110	
E. CONTACT PERSON: Corrie Zupo		F. TITLE: Manager of Air Compliance	
G. PHONE NO.: (424) 241-8959		H. EMAIL: corrie.zupo@mainspringenergy.com	

3. PERMIT INFORMATION

A. AGENCY: South Coast AQMD	B. APPLICATION TYPE: CHANGE OF CONDITIONS
C. SCAQMD ENGINEER: Kraig Morris	
D. PERMIT INFORMATION: PC ISSUANCE DATE: P/O NO.: G75824 & G75826 PO ISSUANCE DATE: 4/25/2024	
E. START-UP DATE: 2021	
F. OPERATIONAL TIME: > 1 year	

4. EMISSION INFORMATION

A. BACT EMISSION LIMITS AND AVERAGING TIMES:						
	VOC	NOx	SOx	CO	PM OR PM₁₀	INORGANIC
BACT Limit	10 PPMVD	2.5 PPMVD		12 PPMVD		
Averaging Time	15 Minutes	15 Minutes		15 Minutes		
Correction	15% O ₂	15% O ₂		15% O ₂		
B. OTHER BACT REQUIREMENTS: N/A						
C. BASIS OF THE BACT/LAER DETERMINATION: Achieved in Practice/New Technology						
D. EMISSION INFORMATION COMMENTS: N/A						

5. CONTROL TECHNOLOGY

A. MANUFACTURER: Johnson Matthey	B. MODEL: MC6T-6F-2
C. DESCRIPTION: Oxidation catalyst	
D. SIZE/DIMENSIONS/CAPACITY: N/A	
E. CONTROL EQUIPMENT PERMIT INFORMATION: N/A APPLICATION NO.: N/A PC ISSUANCE DATE: N/A PO NO.: N/A PO ISSUANCE DATE: N/A	
F. REQUIRED CONTROL EFFICIENCIES: N/A	

CONTAMINANT	OVERALL CONTROL EFFICIENCY	CONTROL DEVICE EFFICIENCY	COLLECTION EFFICIENCY
VOC	___%	___%	___%
NOx	___%	___%	___%
SOx	___%	___%	___%
CO	___%	___%	___%
PM	___%	___%	___%
PM ₁₀	___%	___%	___%
INORGANIC	___%	___%	___%

G. CONTROL TECHNOLOGY COMMENTS:

Condition 7) This equipment shall be equipped with an air-to-fuel ratio controller with an oxygen sensor.

Condition 8) This equipment shall not be operated unless its exhaust is vented to the oxidation catalyst which is in full operation, and which is in good operation condition at all times.

Condition 9) The owner or operator shall inspect the oxidation catalyst every six months of operations in accordance with the recommendation(s) of the oxidation catalyst manufacturer and determine if it needs to be cleaned or washed.

Condition 10) The operator shall wash the catalyst or replace the catalyst media at least after 12,000 hours of operation.

6. DEMONSTRATION OF COMPLIANCE

A. COMPLIANCE DEMONSTRATED BY: Source Test
B. DATE(S) OF SOURCE TEST: 2/21/2023
C. COLLECTION EFFICIENCY METHOD: N/A
D. COLLECTION EFFICIENCY PARAMETERS: N/A

E. SOURCE TEST/PERFORMANCE DATA:							
Parameter	Core 1			Core 2			Permit Limit
	Normal Load	Max. Load	Min. Load	Normal Load	Max. Load	Min. Load	
CO, PPM @ 15% O ₂	2.51	2.49	<2.09*	2.24	<1.85*	<2.34*	12
NO _x , PPM @ 15% O ₂	1.98	1.82	<1.05*	2.25	2.29	<1.17*	2.5
VOC, PPM @ 15% O ₂	7.48	-	-	8.87	-	-	10

* Concentration is below 20% of analyzer range and reported at 20% range.

F. TEST OPERATING PARAMETERS AND CONDITIONS:
 Condition 14.A) The test shall measure NO_x, VOC, CO, CO₂, oxygen content, moisture content, temperature, and exhaust flow rate at the exhaust of the equipment.
 Condition 14.B) The test shall be conducted in accordance with the source testing requirements of Rule 1110.3.

G. TEST METHODS (SPECIFY AGENCY):
 South Coast AQMD Method 100.1 for NO_x, O₂, CO₂, and CO (3 runs, 24-36 mins each)
 South Coast AQMD Method 2.3 for velocity (3 runs, 24 mins each)
 South Coast AQMD Method 4.1 for moisture (3 runs, 24 mins each)
 South Coast AQMD Method 25.3 for VOC (1 run (duplicate canisters), 30 mins)

H. MONITORING AND TESTING REQUIREMENTS:
 Condition 13) The owner or operator shall conduct a source test once every five years from the date of the previous source test and not later than the last day of the calendar month that the test is due.
 Condition 16) The owner or operator shall conduct diagnostic emissions checks by the use of a portable NO_x, CO, and oxygen analyzer at least once every two years from the date of the previous emission check and not later than the last day of the calendar month that the test is due.

I. DEMONSTRATION OF COMPLIANCE COMMENTS: Each core is operated and tested independently.

7. ADDITIONAL SCAQMD REFERENCE DATA

A. BCAT: 040005	B. CCAT: -	C. APPLICATION TYPE CODE: 66	
D. RECLAIM FAC? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	E. TITLE V FAC: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	F. SOURCE TEST ID(S): R24377	
G. SCAQMD SOURCE SPECIFIC RULES: Rule 1110.3			
H. HEALTH RISK FOR PERMIT UNIT			
H1. MICR: -	H2. MICR DATE: -	H3. CANCER BURDEN: -	H4. CB DATE: -
H5. HIA: -	H6. HIA DATE: -	H7. HIC: -	H8. HIC DATE: -



Section I – South Coast AQMD LAER/BACT Determination

Source Type: **Major/LAER**
 Application No.: **622653**
 Equipment Category: **Lithographic or Offset Printing,**
 Equipment Subcategory: **Non-Heatset (UV Dryer), Sheet-fed**
 Date: **TBD**

1. EQUIPMENT INFORMATION		
A. MANUFACTURER: KBA		B. MODEL: 164
C. DESCRIPTION: Lithographic printing press system consisting of a sheet-fed lithographic printing press (coating unit, Infrared (IR) dryer (175-kW total), Ultraviolet (UV) dryer, 170-kW total, and exhaust system with one 6.7 horsepower (HP) fan.		
D. FUNCTION: The equipment is used for commercial printing of various paper products.		
E. SIZE/DIMENSIONS/CAPACITY: Six-color, 64-inch sheet-fed printing press		
COMBUSTION SOURCES		
F. MAXIMUM HEAT INPUT:		
G. BURNER INFORMATION		
TYPE	INDIVIDUAL HEAT INPUT	NUMBER
N/A	N/A	N/A
H. PRIMARY FUEL: N/A		I. OTHER FUEL: N/A
J. OPERATING SCHEDULE: 24 HRS/DAY 7 DAYS/WEEK 52 WKS/YR		
K. EQUIPMENT COST: N/A		
L. EQUIPMENT INFORMATION COMMENTS: -		

2. COMPANY INFORMATION	
A. COMPANY: The Foster Printing Co., Inc.	B. FAC ID: 165897
C. ADDRESS: 700 E Alton Ave. CITY: Santa Ana STATE: CA ZIP: 92705	D. NAICS CODE: 323111
E. CONTACT PERSON: Dennis Blackburn	F. TITLE: President
G. PHONE NO.: (714) 731-2000	H. EMAIL: dennis@fosterprint.com

3. PERMIT INFORMATION

A. AGENCY: South Coast AQMD	B. APPLICATION TYPE: PO NO PC
C. SCAQMD ENGINEER: Walter Quintos	
D. PERMIT INFORMATION: P/C ISSUANCE DATE: - P/O NO.: G64772 P/O ISSUANCE DATE: 3/26/2021	
E. START-UP DATE: 10/6/2020	
F. OPERATIONAL TIME: > 5 years	

4. EMISSION INFORMATION

A. BACT EMISSION LIMITS AND AVERAGING TIMES:						
	VOC	NOx	SOx	CO	PM OR PM10	INORGANIC
BACT Limit	≤ 8% By Vol. * ≤ 100 G/L **					
Averaging Time						
Correction						
B. OTHER BACT REQUIREMENTS: Permit Condition # 5: This equipment shall be operated in compliance with Rule 1130 and 1171.						
C. BASIS OF THE BACT/LAER DETERMINATION: Achieved in Practice/New Technology						
D. EMISSION INFORMATION COMMENTS: * VOC content of fountain solution ** VOC content of blanket and roller washes Facility wide limit of 900 lb VOC per month.						

7. ADDITIONAL SOUTH COAST AQMD REFERENCE DATA

A. BCAT: 000377		B. CCAT: -		C. APPLICATION TYPE CODE: 30	
D. RECLAIM FAC? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		E. TITLE V FAC: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		F. SOURCE TEST ID(S):	
G. SOUTH COAST AQMD SOURCE SPECIFIC RULES: Rules 1130 and 1171					
H. HEALTH RISK FOR PERMIT UNIT					
H1. MICR: 0		H2. MICR DATE: 11/5/20		H3. CANCER BURDEN: 0	
H4. CB DATE: 11/5/20		H5: HIA: 0.88		H6. HIA DATE: 11/5/20	
H7. HIC: 0.12		H8. HIC DATE: 11/5/20			

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