South Coast AQMD

Part D, SCAQMD BACT Determination

Source Type: Minor
Application No.: 548863

Equipment Category:

Food Oven

Equipment Subcategory: Ribbon Burner ≤ 500°F

Date: March 24, 2017

	Date.		Wiai Cii 24, 2017		
1.	EQUIPMENT INFORM	ATION			
A.	MANUFACTURER: Internation	onal Multifood	B. MODEL:	1400	
C.	DESCRIPTION: Griddle Type	e oven with rib	bon burners		
D.	FUNCTION: Food oven with	griddle type tr	ays used to bake Eng	glish muffins	
E.	SIZE/DIMENSIONS/CAPACITY	: 6' W X 70'I	L x 5'-4"H		
CO	MBUSTION SOURCES				
F.	MAXIMUM HEAT INPUT: 2.5	9 MMBtu/hr			
G.	BURNER INFORMATION				
	TYPE	INDIVID	UAL HEAT INPUT	NUMBER	
F	LYNN MODEL 122HN SERIES			63	
	856				
H.	PRIMARY FUEL: NATURAL	L GAS I.	OTHER FUEL:		
J.	OPERATING SCHEDULE:	24 HRS/DAY 7	DAYS/WEEK 52	WKS/YR	
K.	EQUIPMENT COST: TBD				
L.	EQUIPMENT INFORMATION COMMENTS: PERMITTED LIMIT OF < 49 LB VOC/DAY				

2. COMPANY INFORMATION

A.	COMPANY: Aryzta, LLC		B. FAC ID: 173864
C.	ADDRESS: 1220 S. Baker St. CITY: Ontario STATE: CA ZIP:	91761	D. NAICS CODE: 311812
E.	CONTACT PERSON: Michael Wu		F. TITLE: Asst Dir. of Engineering
		T	Engineering
G.	PHONE NO.: 714-256-6900	H. EMAIL: r	nichael.wu@aryzta.com

3.	PERMIT	INFORMATION	i
~ •	1 11111111		

A. AGENCY: SCAQMD B. APPLICATION TYPE: OTHER

C. SCAQMD ENGINEER: Tracy Nguyen

D. PERMIT INFORMATION: PC ISSUANCE DATE: 9/4/13

P/O NO.: G26836 PO ISSUANCE DATE: 9/4/2013

E. START-UP DATE:

F. OPERATIONAL TIME: > 5 years

4. EMISSION INFORMATION

A. BACT EMISSION LIMITS AND AVERAGING TIMES:

A. DACI	A. BACI EMISSION EIMITS AND AVERAGING TIMES.						
	VOC	NOX	SOX	co	PM or PM ₁₀	INORGANIC	
BACT Limit		30 ppmvd	Natural Gas	Compliance with SCAQMD Rule 1153.1	Natural Gas		
Averaging Time		1 HR					
Correction		3% O2					

B. OTHER BACT REQUIREMENTS:

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

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

_	CONTRACT	TECTIMAL (NOT.
5.	CONTROL	TECHNOLO	ДŦY

A.	MANUFACTURER:	В.	MODEL:

C. DESCRIPTION:

D. SIZE/DIMENSIONS/CAPACITY:

E. CONTROL EQUIPMENT PERMIT INFORMATION:

APPLICATION NO. PC ISSUANCE DATE: PO NO.: PO ISSUANCE DATE:

F. REQUIRED CONTROL EFFICIENCIES:

OVERALL CONTROL EFFICIENCY	CONTROL DEVICE EFFICIENCY	COLLECTION EFFICIENCY
%	%	%
%	%	%
%	%	%
%	%	%
%	%	%
%	%	%
%	%	%
	##	EFFICIENCY EFFICIENCY % % % % % % % % % %

G. CONTROL TECHNOLOGY COMMENTS.

- A. COMPLIANCE DEMONSTRATED BY: Source Tests R12019 and R11208
- B. DATE(S) OF SOURCE TEST: 3/9/2011 and 11/9/2011 when facility was named Fresh Start Bakeries (Fac ID: 149457) and Application # 513897
- C. COLLECTION EFFICIENCY METHOD:
- D. COLLECTION EFFICIENCY PARAMETERS:
- E. SOURCE TEST/PERFORMANCE DATA: CO2 equivalency used due to high O2 content, highest zone concentration 27.76 ppmvd NOx @3%O2.
- F. TEST OPERATING PARAMETERS AND CONDITIONS: Test conducted during "normal operations."
- G. TEST METHODS (SPECIFY AGENCY): SCAQMD Method 100.1

H.	MONITORING AND TESTING REQUIREMENTS:
I.	DEMONSTRATION OF COMPLIANCE COMMENTS:

A.	BCAT: 000255		B. CCAT:		C.	APPLICATIO	ON TYPE CODE: 40
D.	D. RECLAIM FAC? E. TITLE		E. TITLE V FAC:		F.	SOURCE TES	ST ID(S): R12019,
	YES □ NO ⊠		YES □ NO) ×		R11208	
G.	G. SCAQMD SOURCE SPECIFIC RULES: 1153, 1153.1						
H.	HEALTH RISK FOR	R PERI	MIT UNIT				
H1.	MICR:	H2.	MICR DATE:	H3. CAN	NCEF	R BURDEN:	H4. CB DATE:
H5	: HIA:	H6.	HIA DATE:	Н7. НІС	:		H8. HIC DATE:

Part D, SCAQMD BACT Determination Source Type: Minor Application No.: 548869

Equipment Category:

South Coast AQMD

Food Ovens

Equipment Subcategory: Ribbon Burners with CatOx

Date: March 24, 2017

	Date:		March 24, 201	17		
1.	EQUIPMENT INFORM	MATION				
A.	MANUFACTURER: Baking	Technology (2		: Baketech Maxisaver Bun		
	identical ovens)		Oven			
C.	DESCRIPTION: Two identic	cal food ovens ver	nted to a 2.7 MM	Btu/hr Catalytic Oxidizer		
D.	FUNCTION: Two food over	n with ribbon burn	ners used to bake	buns		
E.	SIZE/DIMENSIONS/CAPACIT	Y: 33'-0" L X 48	3'-4" W X 11'-0"	Н		
CO	MBUSTION SOURCES					
F.	MAXIMUM HEAT INPUT: 7.	3 MMBtu/hr each	oven			
G.	BURNER INFORMATION					
	TYPE	INDIVIDU	AL HEAT INPUT	NUMBER		
	FLYNN 1622HN		•	24 each oven		
	MAXON MPAKT EB4	2.7 MM	MBtu/hr	1 Cat Ox		
H.	H. PRIMARY FUEL: NATURAL GAS I. OTHER FUEL:					
J.	OPERATING SCHEDULE:	24 HRS/DAY 7	DAYS/WEEK 52	2 WKS/YR		
K.	EQUIPMENT COST: TBD					
L.	EQUIPMENT INFORMATION	COMMENTS: TEMI	$P RANGE \leq 500^{\circ}F$	7		

2. COMPANY INFORMATION

A.	COMPANY: Aryzta, LLC		B. FAC ID: 173864
C.	ADDRESS: 1220 S. Baker St. CITY: Ontario STATE: CA ZIP:	91761	D. NAICS CODE:
E.	CONTACT PERSON: Michael Wu		F. TITLE: Asst. Dir. of Engineering
G.	PHONE NO.: 714-256-6900	H. EMAIL: r	nichael.wu@aryzta.com

3.	PERMIT	INFORMA	TION
J.	T TAXABLE		

A. AGENCY: SCAQMD B. APPLICATION TYPE: OTHER

C. SCAQMD ENGINEER: Marilyn Potter

D. PERMIT INFORMATION: PC ISSUANCE DATE:

P/O NO.: G14787 PO ISSUANCE DATE: 9/13/2013

E. START-UP DATE:

F. OPERATIONAL TIME: > 9 years. Prev. operated under Fresh Start Bakeries

4. EMISSION INFORMATION

A. BACT EMISSION LIMITS AND AVERAGING TIMES:

A. BIGT EMBOTON EMITO AND AVERAGINO TIMES.							
	VOC	NOx	SOX	CO	PM OR PM ₁₀	INORGANIC	
BACT Limit	95% overall control (mass basis)	30 ppmvd (both ovens and Catalytic Oxidizer)	Natural Gas	Compliance with SCAQMD Rules 407 and 1153.1	Natural Gas		
Averaging Time	1 HR	1 HR					
Correction		3% O2					

- B. OTHER BACT REQUIREMENTS:
- C. BASIS OF THE BACT/LAER DETERMINATION: Achieved in Practice/New Technology
- D. EMISSION INFORMATION COMMENTS: Enter any additional comments regarding Emissions Information.

5. CONTROL TECHNOLOGY

A. MANUFACTURER: CSM Worldwide B. MODEL: 180A

C. DESCRIPTION: Catalytic oxidizer used to control VOC emissions vented from two bun ovens

D. SIZE/DIMENSIONS/CAPACITY: 25 Catalyst module with 2.7 MMBtu/hr

E. CONTROL EQUIPMENT PERMIT INFORMATION:

APPLICATION NO. 548869 PC ISSUANCE DATE:

PO NO.: G27030 PO ISSUANCE DATE: 9/13/2016

F. REQUIRED CONTROL EFFICIENCIES:

CONTAMINANT	OVERALL CONTROL EFFICIENCY	CONTROL DEVICE EFFICIENCY	COLLECTION EFFICIENCY			
VOC	95%	%	%			
NOx	%	%	%			
SOx	%	%	%			
СО	%	%	%			
PM	%	%	%			
PM ₁₀	%	%	%			
INORGANIC	%	%	%			

G. CONTROL TECHNOLOGY COMMENTS. Minimum catalyst inlet temperature 600°F

- A. COMPLIANCE DEMONSTRATED BY: Source Test PR07086
- B. DATE(S) OF SOURCE TEST: 4/3/2011 NOx cat ox burner (Appl file 518219), NOx Ovens 1 and 2 (Appl file 460942, 460943) 9/24/2007, VOC control of cat ox (Appl file 460945) 9/20/2007.
- C. COLLECTION EFFICIENCY METHOD:
- D. COLLECTION EFFICIENCY PARAMETERS:
- E. SOURCE TEST/PERFORMANCE DATA: 96.6% overall VOC control eff. Highest concentration 28.2 ppmvd NOx @ 3% O2
- F. TEST OPERATING PARAMETERS AND CONDITIONS: Test conducted during normal load.
- G. TEST METHODS (SPECIFY AGENCY): SCAQMD Methods 100.1, 25.1, 25.3

H.	MONITORING AND TESTING REQUIREMENTS:
	_
I.	DEMONSTRATION OF COMPLIANCE COMMENTS:
I.	DEMONSTRATION OF COMPLIANCE COMMENTS:

A.	BCAT: 000255		B. CCAT: 16			C. APPLICATION TYPE CODE: 30		
D.	RECLAIM FAC?		E. TITLE V FAC:			F. SOURCE TEST ID(S): PR07086		ST ID(S): PR07086
	YES □ NO ⊠		YES \square NO \boxtimes		\boxtimes			
G.	G. SCAQMD SOURCE SPECIFIC RULES: 1153, 1153.1							
H.	H. HEALTH RISK FOR PERMIT UNIT							
H1.	MICR:	H2. I	MICR DATE: H3.		H3. CAN	CER	BURDEN:	H4. CB DATE:
H5:	: HIA:	H6. 1	HIA DATE: H7. I		H7. HIC:			H8. HIC DATE:

South Coast AQMD

Part D, SCAQMD BACT Determination

Source Type: Minor Application No.: 548341

Equipment Category:

Flexographic Printing Press

Equipment Subcategory: w/ Regenerative Thermal Oxidizer

	Date:		Ma	rch 28, 2017		
1.	EQUIPMENT INFORM	IATION				
A.	MANUFACTURER: Hot Jin	Ironworks	F	B. MODEL:	HJ-222	
C.	DESCRIPTION: Flexographic Printing Press 4 color. Demonstrates compliance with Rule 1130(c)(1) through provisions of 1130(c)(5).					
D.	FUNCTION: Printing of food packaging					
E.	E. SIZE/DIMENSIONS/CAPACITY: Two identical presses contained in enclosure. Second press operating under Appl. 548337					
co	MBUSTION SOURCES					
F.	MAXIMUM HEAT INPUT: P1	ess electric h	eater; RTC) 1.35 MMB	tu/hr	
G.	BURNER INFORMATION					
	TYPE	INDIV	IDUAL HE	AT INPUT	NUMBER	
	MAXON KINEDIZER	1.3	5 MMBtu/	'hr	1	
H.	I. PRIMARY FUEL: NATURAL GAS I. OTHER FUEL:					
J.	OPERATING SCHEDULE:	24 HRS/DAY	5 DAYS	WEEK 52	WKS/YR	
K.	EQUIPMENT COST: TBD					
L.	. EQUIPMENT INFORMATION COMMENTS:					

COMPANY INFORMATION 2.

A.	COMPANY: Asia Plastics	B. FAC ID: 103149		
C.	ADDRESS: 9347 Rush St. CITY: S. El Monte STATE: CA	ZIP:	91733	D. NAICS CODE: 32311
E.	CONTACT PERSON: Kent Ung	F. TITLE: President		
G.	PHONE NO.: 626-448-8100	Н.	EMAIL: a	siaplasticsinc@yahoo.com

3. PERMIT INFORMATION

A. AGENCY: SCAQMD B. APPLICATION TYPE: NEW CONSTRUCTION

C. SCAQMD ENGINEER: Farah Milner

D. PERMIT INFORMATION: PC ISSUANCE DATE: 7/10/13

P/O NO.: G43434 PO ISSUANCE DATE: 10/21/2016

E. START-UP DATE:

F. OPERATIONAL TIME: 12/9/2013 source test date. > 3 years

4. EMISSION INFORMATION

A. BACT EMISSION LIMITS AND AVERAGING TIMES:

	VOC	NOx	SOx	CO	PM or PM ₁₀	Inorganic
BACT Limit	Overall Control Efficiency 95%	RTO: Compliance with SCAQMD Rule 1147				
Averaging Time	1 HR	30 MIN				
Correction	Mass basis	@ 3% O ₂				

- B. OTHER BACT REQUIREMENTS: Method 204 Permanent Total Enclosure, Combustion Chamber Temperature ≥ 1500°F, Chamber Retention Time ≥0.3 seconds, chamber temperature interlock system
- C. BASIS OF THE BACT/LAER DETERMINATION: Achieved in Practice/New Technology
- D. EMISSION INFORMATION COMMENTS: Flexographic press has an electric heater

5. CONTROL TECHNOLOGY

- A. MANUFACTURER: Ship and Shore B. MODEL: SSE-3K-95X-RTO
- C. DESCRIPTION: RTO to vent and combust VOC emissions from a flexographic printing press
- D. SIZE/DIMENSIONS/CAPACITY: 1.35 MMBtu/hr natural gas fired with two ceramic heat exchanger beds
- E. CONTROL EQUIPMENT PERMIT INFORMATION:

 APPLICATION NO. 548337 PC ISSUANCE DATE: 7/10/13

 PO NO.: G43432 PO ISSUANCE DATE: 10/21/2016
- F. REQUIRED CONTROL EFFICIENCIES:

CONTAMINANT	OVERALL CONTROL EFFICIENCY	CONTROL DEVICE EFFICIENCY	COLLECTION EFFICIENCY
VOC	95%	95%	100%
NOx	%	%	%
SOx	%	%	%
CO	%	%	%
PM	%	%	%
PM ₁₀	%	%	%
INORGANIC	%	%	%

G. CONTROL TECHNOLOGY COMMENTS NOx emissions in compliance with SCAQMD Rule 1147

- A. COMPLIANCE DEMONSTRATED BY: Source Test
- B. DATE(S) OF SOURCE TEST: December 9, 2013
- C. COLLECTION EFFICIENCY METHOD: EPA Method 204
- D. COLLECTION EFFICIENCY PARAMETERS: PTE Static Pressure ≤ 0.01" H2O
- E. SOURCE TEST/PERFORMANCE DATA: VOC: Inlet 1.5 lb C1/hr, Exhaust 0.075 lb C/hr, Exhaust 0.081 lb VOC/hr. NOx: Startup 0.064 lb NOx/hr, Normal 0.026 lb NOx/hr
- F. TEST OPERATING PARAMETERS AND CONDITIONS: RTO Startup Burner at 99.9%, Burner during normal operation 52-66%; Oxidizer inlet 2730 acfm; oxidizer exh 3680 acfm; Press 1 1100 ft/hr; Press 2 7000 ft/hr
- G. TEST METHODS (SPECIFY AGENCY): SCAQMD 25.1, 25.3, 100.1

H.	MONITORING AND TESTING REQUIREMENTS:
I.	DEMONSTRATION OF COMPLIANCE COMMENTS: Rule 1130 minimum requirement is 70% overall control, equipment permitted at 95% overall control

A.	BCAT: 000276		B. CCAT: 12		C. APPLICATION TYPE CODE: 10			
D.	RECLAIM FAC?		E. TITLE V FAC:		F. SOURCE TEST ID(S):		ST ID(S):	
	YES □ NO ⊠		YES \square NO \boxtimes					
G.	G. SCAQMD SOURCE SPECIFIC RULES:							
H.	H. HEALTH RISK FOR PERMIT UNIT							
H1.	. MICR:	H2.	MICR DATE: H3. C.		H3. CAN	CER	BURDEN:	H4. CB DATE:
Н5	: HIA:	Н6.	HIA DATE:	IIA DATE:		C:		H8. HIC DATE:



Part D, SCAQMD BACT Determination

Source Type: Minor
Application No.: 515931

Equipment Category: Heatset Lithographic Printing

Press

Equipment Subcategory: w/ Regenerative Thermal Oxidizer

Date: March 28, 2017

	Date:		March 28, 2017				
1.	EQUIPMENT INFORM	1ATION					
A.	MANUFACTURER: Beiren		B. MODEL:	3845			
C.	DESCRIPTION: Heatset lithographic press with two Megtec 3.2 MMBtu/hr ovens vented to a 1.2 MMBtu/hr Adwest RTO.						
D.	p. FUNCTION: Printing of newspaper inserts						
E.	. SIZE/DIMENSIONS/CAPACITY: Press: 8 color 38" wide, RTO two ceramic heat exchangers and a 40 HP exhaust blower						
CO	MBUSTION SOURCES						
F.	MAXIMUM HEAT INPUT: Pr	ess: 6.4 MMF	Stu/hr; RTO 1.2 MMB	tu/hr			
G.	BURNER INFORMATION						
	TYPE	INDIV	IDUAL HEAT INPUT	NUMBER			
	MAXON CYCLOMAX	1.6	6 MMBtu/hr	4			
	MAXON KINEMAX	1.2	MMBtu/hr	1			
H.	PRIMARY FUEL: NATURAL	GAS	I. OTHER FUEL:				
J.	OPERATING SCHEDULE:	24 HRS/DAY	7 DAYS/WEEK 52	WKS/YR			
K.	EQUIPMENT COST: TBD						
L.	EQUIPMENT INFORMATION COMMENTS:						

2. COMPANY INFORMATION

A.	COMPANY: Freedom Communications	B. FAC ID: 81797	
C.	ADDRESS: 1701 S. Lewis CITY: Anaheim STATE: CA ZI	D. NAICS CODE: 511110	
E.	CONTACT PERSON: Greg Engler	F. TITLE: Pressroom Mgr	
G.	PHONE NO.: 714-953-7882	H. EMAIL:	

3.	PERMIT	INFORMA	TION
J.	T TAXABLE		

A. AGENCY: SCAQMD B. APPLICATION TYPE: NEW CONSTRUCTION

C. SCAQMD ENGINEER: Emmanuel Quizon

D. PERMIT INFORMATION: PC ISSUANCE DATE:

P/O NO.: G17024

PO ISSUANCE DATE: 3/6/2012

E. START-UP DATE:

F. OPERATIONAL TIME: 11/8/2007 source test date. > 9 years

4. EMISSION INFORMATION

A. BACT EMISSION LIMITS AND AVERAGING TIMES:

	I. BIGT EMISSION ENVIRONMENTALIS.								
	VOC	NOx	SOx	CO	PM or PM ₁₀	INORGANIC			
BACT Limit	Overall Control Efficiency 99%	Ovens:30 ppmv RTO: Compliance with SCAQMD Rule 1147							
Averaging Time	1 HR	30 MIN							
Correction	Mass basis	All @ 3% O ₂							

- B. OTHER BACT REQUIREMENTS: Combustion Chamber Temperature ≥ 1595°F, Chamber Retention Time ≥0.3 seconds, chamber temperature interlock system. Control efficiency only applies to ink usage (permitted condition)
- C. BASIS OF THE BACT/LAER DETERMINATION: Achieved in Practice/New Technology
- D. EMISSION INFORMATION COMMENTS: Equipment complies with VOC limits through provisions of SCAQMD Rule 1130(c)(5).

_	CONTROL	TEATINE	
			1 M - V
-7-			

A. MANUFACTURER: Adwest B. MODEL: RETOX 4.0 RTO95

C. DESCRIPTION: RTO vents and combust VOC emissions from a lithographic printing press

D. SIZE/DIMENSIONS/CAPACITY: 1.20 MMBtu/hr natural gas fired with two ceramic heat exchanger beds

E. CONTROL EQUIPMENT PERMIT INFORMATION:

APPLICATION NO. 460266 PC ISSUANCE DATE:

PO NO.: F99092 PO ISSUANCE DATE: 9/18/2008

F. REQUIRED CONTROL EFFICIENCIES:

CONTAMINANT	OVERALL CONTROL EFFICIENCY	CONTROL DEVICE EFFICIENCY	COLLECTION EFFICIENCY
VOC	99%	99.5%	99.5%
NOx	%	%	%
SOx	%	%	%
СО	%	%	%
PM	%	%	%
PM ₁₀	%	%	%
INORGANIC	%	%	%

G. CONTROL TECHNOLOGY COMMENTS NOx emissions in compliance with SCAQMD Rule 1147. 99.5% collection efficiency assigned based on 1997 SCAQMD Compliance Advisory. 99% overall control efficiency chosen by applicant.

۸	COMPLIA	NCF I	DEMO	NCTR	ATED	$\mathbf{p}\mathbf{v}$	Source T	Pet
A.	COMPLIE	MNCEL	JEWIC		TICLE	DI.	Source 1	COL

- B. DATE(S) OF SOURCE TEST: December 9, 2013
- C. COLLECTION EFFICIENCY METHOD: Smoke Test
- D. COLLECTION EFFICIENCY PARAMETERS: 99.5% collection efficiency assigned based on SCAQMD Permitting policy. Smoke test was conducted to verify collection of process air. Collection efficiency only applies to ink usage (permitted condition)
- E. SOURCE TEST/PERFORMANCE DATA: Oven 19.8ppmvd NOx @3% O2. VOC 99.77% Dest. Eff, 99.27% overall eff.

_		ODED		D . D .	LETTE	4 3 TT	CONTRACT	\sim
H	THOTA	NDHR	ATTING 2	$\nu_{\Lambda}\nu_{\Lambda}$	METERS	$\Lambda N \Pi \Lambda$	CONDITION	C
1 .	11201	\mathbf{O}	Δ I II \times I		IIVIII I IIIVO	Δ III		١) .

- G. TEST METHODS (SPECIFY AGENCY): SCAQMD 25.1, 25.3, 100.1
- H. MONITORING AND TESTING REQUIREMENTS:
- I. DEMONSTRATION OF COMPLIANCE COMMENTS:

A.	. BCAT: 000272 B. CCAT: 12			C. APPLICATION TYPE CODE: 10				
D.	RECLAIM FAC?		E. TITLE V F	AC:		F. SOURCE TEST ID(S):		ST ID(S):
	YES □ NO ☒		YES □	NO	\boxtimes			
G.	G. SCAQMD SOURCE SPECIFIC RULES:							
Н.	HEALTH RISK FOR	R PERN	AIT UNIT					
H1.	MICR:	H2. I	MICR DATE:		H3. CAN	CER	BURDEN:	H4. CB DATE:
H5:	: HIA:	H6. I	HIA DATE:		H7. HIC:			H8. HIC DATE:

Part D, SCAQMD BACT Determination



Source Type: Minor

Application No.: 487295

Equipment Category:

Food Oven

Equipment Subcategory: Direct Fired

Date: March 24, 2017

	Date.		1410	ai (ii 27, 2 01						
1.	EQUIPMENT INFORM	IATION								
A.	MANUFACTURER: Werner	Ppfleiderer		B. MODEL:	1F62837/1					
C.	DESCRIPTION: Two zone 4	8" wide oven								
D.	FUNCTION: Food oven with	ı low NOx bu	irners use	ed to bake aln	nond cookies					
_		7 202 72 1 3	V 72 422 V	V V C2 0211						
E.	SIZE/DIMENSIONS/CAPACITY	i: 20 -7 L 2	A / -4 V	V X 6 -9 H						
CO	MBUSTION SOURCES									
F.	MAXIMUM HEAT INPUT: 2.4	MMBtu/hr								
G.	BURNER INFORMATION									
	TYPE	INDIV	IDUAL HI	EAT INPUT	NUMBER					
	LOW NOX	1.2	MMBtu	/hr	2					
H.	PRIMARY FUEL: NATURAL	LGAS	I. OTHER	R FUEL:						
J.	J. OPERATING SCHEDULE: 24 HRS/DAY 7 DAYS/WEEK 52 WKS/YR									
K.	E. EQUIPMENT COST: TBD									
L.	EQUIPMENT INFORMATION C	COMMENTS: T	EQUIPMENT INFORMATION COMMENTS: TEMP RANGE 500-560°F							

2. COMPANY INFORMATION

A.	COMPANY: JSL Foods Inc.		B. FAC ID: 136986
C.	ADDRESS: 2222 ½ Davie Ave. CITY: Los Angeles STATE: CA	ZIP: 90040	D. NAICS CODE:
E.	CONTACT PERSON: Gregorio Torres		F. TITLE: Plant Mgr
G.	PHONE NO.: 323-797-9999	H. EMAIL:	gtorres@jslfoods.com

3.	PERMIT	INFORMA	TION
J.	T TAXABLE		

A. AGENCY: SCAQMD B. APPLICATION TYPE: PO NO PC

C. SCAQMD ENGINEER: Kim Le

D. PERMIT INFORMATION: PC ISSUANCE DATE:

P/O NO.: G5819

PO ISSUANCE DATE: 1/1/2010

E. START-UP DATE:

F. OPERATIONAL TIME: > 7 years

4. EMISSION INFORMATION

A. BACT EMISSION LIMITS AND AVERAGING TIMES:

	VOC	NOx	SOX	CO	PM or PM ₁₀	Inorganic
BACT Limit		30 ppmvd	Natural Gas	Compliance with SCAQMD Rules 407 and 1153.1	Natural Gas	
Averaging Time		1 HR				
Correction		3% O2				

- B. OTHER BACT REQUIREMENTS:
- C. BASIS OF THE BACT/LAER DETERMINATION: Achieved in Practice/New Technology
- D. EMISSION INFORMATION COMMENTS: Enter any additional comments regarding Emissions Information.

=	CONTD	Ω T	TECHNOL	\mathbf{OCV}
D.	CUNIK	() _		l II T

A.	MANUFACTURER:	B.	MODEL:

C. DESCRIPTION:

D. SIZE/DIMENSIONS/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	%	%	%
СО	%	%	%
PM	%	%	%
PM ₁₀	%	%	%
INORGANIC	%	%	%

G. CONTROL TECHNOLOGY COMMENTS.

- A. COMPLIANCE DEMONSTRATED BY: Source Tests PR10302
- B. DATE(S) OF SOURCE TEST: 10/22/2010
- C. COLLECTION EFFICIENCY METHOD:
- D. COLLECTION EFFICIENCY PARAMETERS:
- E. SOURCE TEST/PERFORMANCE DATA: 2 zones, Highest zone concentration 22.3 ppmvd NOx, 111 ppmvd CO both at 3%O2.
- F. TEST OPERATING PARAMETERS AND CONDITIONS: Test conducted during normal load.
- G. TEST METHODS (SPECIFY AGENCY): SCAQMD M. 100.1

H.	MONITORING AND TESTING REQUIREMENTS:
т	DEMONSTRATION OF COMPLIANCE COMMENTS
1.	DEMONSTRATION OF COMPLIANCE COMMENTS:

A.	BCAT: 000255	B. CCAT:		C. APPLICATION TYPE CODE: 30		
D.	RECLAIM FAC?	E. TITLE V FAC		F. SOURCE TEST ID(S): PR10302		
	YES □ NO ⊠	YES □ N	O 🛛			
G.	SCAQMD SOURCE	SPECIFIC RULES: 1153	, 1153.1			
H.	H. HEALTH RISK FOR PERMIT UNIT					
H1.	. MICR:	H2. MICR DATE:	H3. CAN	ICER BURDEN:	H4. CB DATE:	
H5	: HIA:	H6. HIA DATE:	H7. HIC		H8. HIC DATE:	

South Coast AQMD

Part D: NonSCAQMD BACT Determination

Source Type: Minor
Application No.: 533039

Equipment Category: I.C. Engine, Stationary, Non-Emergency, Electrical Generators

Equipment Subcategory:

	Date:		April 26, 2	2012		
1.	EQUIPMENT INFOR	MATION				
A.	MANUFACTURER: GM/Te	ecogen	В. МО	DEL:	TECODRIVE 7400	
C.	DESCRIPTION: Spark Ignit	tion, Rich Bu	rn, Four-Cycle, 8	cylind	lers.	
D.	FUNCTION: On-site electric	ical power ger	neration			
E.	SIZE/DIMENSIONS/CAPACITY: 108 HP, driving 75 KW generator					
CO	COMBUSTION SOURCES					
F.	F. MAXIMUM HEAT INPUT:					
G.	G. BURNER INFORMATION					
	TYPE	INDIV	/IDUAL HEAT INPU	JT	NUMBER	
H.	PRIMARY FUEL: NATURA	AL GAS	I. OTHER FUEL:			
J.	OPERATING SCHEDULE:	24 HRS/DAY	7 DAYS/WEEK	52	WKS/YR	
K.	EQUIPMENT COST: Not Avail	able				
L.	EQUIPMENT INFORMATION selective catalytic converter.	COMMENTS: 1	Engine is equipped w	ith emi	ssion control consisting of non-	
2.	COMPANY INFORMA	ATION				
A.	COMPANY: Lake Forest II	Master Assoc	В.	FAC	ID: 170558	
C.	ADDRESS: 24752 Toledo V CITY: Lake Forest STATE:	•		. NAI	CS CODE:	
E.	CONTACT PERSON: JoAnn	Burrows	F	. TITL	E: General Manager	
G.	PHONE NO.: 949-586-0860		H. EMAIL: jbu	rrows	@lf2.org	

3. PERMIT INFORMATION

A. AGENCY: SCAQMD B. APPLICATION TYPE: PO NO PC

C. SCAQMD ENGINEER: Chingli Lin

D. PERMIT INFORMATION: PC ISSUANCE DATE: 4/26/12

P/O NO.: G17651 PO ISSUANCE DATE: 4/26/2012

E. START-UP DATE: 1/29/2013

F. OPERATIONAL TIME: 4+ years

4. EMISSION INFORMATION

A. BACT EMISSION LIMITS AND AVERAGING TIMES:

71. Drici	i. Bitel Emission Emilio and Aventorio Invies.							
	VOC	NOx	SOX	co	PM or PM ₁₀	INORGANIC		
BACT Limit	0.1 lb/mw-hr	0.07 lb/mw-hr		0.2 LB/MW-HR	RULE 404			
Averaging Time	Per 1110.2 requirements	Per 1110.2 requirements		Per 1110.2 requirements				
Correction								

- B. OTHER BACT REQUIREMENTS: Compliance with emission requirements of Rule 1110.2(d)(1)(L)
- C. BASIS OF THE BACT/LAER DETERMINATION: Compliance with Rule 1110.2(d)(1)(L) and achieved in practiceOther (add comment)
- D. EMISSION INFORMATION COMMENTS: Enter any additional comments regarding Emissions Information.

_	CONTROL	TEATINE	
			1 M - V
-7-			

- A. MANUFACTURER: SUD-CHEMIE NSCR B. MODEL: ENVICAT 7319
- C. DESCRIPTION: Non-Selective Catalytic Converter with automatic air/fuel ratio controller, Tecogen, model Teconet Stoichiometric AFRC.
- D. SIZE/DIMENSIONS/CAPACITY: ---
- E. CONTROL EQUIPMENT PERMIT INFORMATION:

APPLICATION NO. 533039 PC ISSUANCE DATE: 4/26/12 PO NO.: G17651 PO ISSUANCE DATE: 4/26/2012

F. REQUIRED CONTROL EFFICIENCIES: Maintain compliance with Rule 1110.2(d)(1)(L) for engine emissions.

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

G. CONTROL TECHNOLOGY COMMENTS two stage system with three way catalyst followed by air injection and additional catalyst. Manages air/fuel ratio slightly rich of stoichiometric via oxygen sensors located before and after the first stage three way catalyst.

- A. COMPLIANCE DEMONSTRATED BY: Source test.
- B. DATE(S) OF SOURCE TEST: January 29, 2013
- C. COLLECTION EFFICIENCY METHOD:
- D. COLLECTION EFFICIENCY PARAMETERS:
- E. SOURCE TEST/PERFORMANCE DATA: NOx = 0.027 lb/MWe-hr, CO = 0.067 lb/MWe-hr, VOC = 0.04 lb/MWe-hr.
- F. TEST OPERATING PARAMETERS AND CONDITIONS:
- G. TEST METHODS (SPECIFY AGENCY): NOx, CO and O2 determined using SCAQMD Method 100.1. VOC determined using SCAQMD Method 25.3.

H.	MONITORING AND TESTING REQUIREMENTS: Compliance with Rule 1110.2(f)
I.	DEMONSTRATION OF COMPLIANCE COMMENTS:

A.	A. BCAT: B. CCAT:			C.	APPLICATION	ON TYPE CODE:		
D.	RECLAIM FAC?	E.	TITLE V I	FAC:		F. SOURCE TEST ID(S):		ST ID(S):
	YES □ NO □		YES □	NO l				
G.	G. SCAQMD SOURCE SPECIFIC RULES:							
H.	H. HEALTH RISK FOR PERMIT UNIT							
H1.	MICR:	H2. MIC	MICR DATE: H3. CA		H3. CAN	ICER 1	BURDEN:	H4. CB DATE:
H5:	: HIA:	H6. HIA	HIA DATE:		H7. HIC:			H8. HIC DATE:

South Coast AQMD

Part D, SCAQMD BACT Determination

Source Type: Minor
Application No.: 475618

Equipment Category:

Food Oven

Equipment Subcategory: Ribbon Burner > 500°F

Date: March 24, 2017

	Date.	IN	Wiarch 24, 2017			
1.	EQUIPMENT INFORM	MATION				
A.	MANUFACTURER: Tecnom	naiz	B. MODEL:	T-1200 NG		
C.	DESCRIPTION: Corn Tortil	la Oven No. 1				
D.	o. FUNCTION: Food oven with ribbon type burners used to bake corn tortillas					
E.	E. SIZE/DIMENSIONS/CAPACITY: 20'-7" L X 7'-4" W X 6'-9"H					
CO	MBUSTION SOURCES					
F.	MAXIMUM HEAT INPUT: 2.	7 MMBtu/hr				
G.	BURNER INFORMATION					
	TYPE	INDIVIDUAL I	HEAT INPUT	NUMBER		
	RIBBON	0.079 MMF	Btu/hr	34		
H.	H. PRIMARY FUEL: NATURAL GAS I. OTHER FUEL:					
J.	OPERATING SCHEDULE: 24 HRS/DAY 7 DAYS/WEEK 52 WKS/YR					
K.	. EQUIPMENT COST: TBD					
L.	EQUIPMENT INFORMATION (COMMENTS:				

2. COMPANY INFORMATION

A.	COMPANY: Mission Foods		B. FAC ID: 153640
C.	ADDRESS: 14200 Arminta St. CITY: Panorama City STATE: CA	ZIP: 91402	D. NAICS CODE: 31183
E.	CONTACT PERSON: Kelli Kimberly		F. TITLE: Environmental Director
G.	PHONE NO.: 909-980-3566	H. EMAIL: k	celli_kimberly@missionfoods.com

3.	PERMIT	INFORMATION	i
~ •	1 11111111		

A. AGENCY: SCAQMD B. APPLICATION TYPE: NEW CONSTRUCTION

C. SCAQMD ENGINEER: Hassan Namaki

D. PERMIT INFORMATION: PC ISSUANCE DATE: 1/1/10

P/O NO.: G19902 PO ISSUANCE DATE: 8/16/2012

E. START-UP DATE:

F. OPERATIONAL TIME: > 5 years

4. EMISSION INFORMATION

A. BACT EMISSION LIMITS AND AVERAGING TIMES:

	VOC	NOX	SOX	CO	PM or PM ₁₀	INORGANIC
BACT Limit		60 ppmvd	Natural Gas	Compliance with SCAQMD Rules 407 and 1153.1	Natural Gas	
Averaging Time		1 HR				
Correction		3% O2				

B. OTHER BACT REQUIREMENTS:

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

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

_	CONTRACT	TECTIMAL (N 17
5.	CONTROL	TECHNOLO	ДŦY

A.	MANUFACTURER:	B.	MODEL:

C. DESCRIPTION:

D. SIZE/DIMENSIONS/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	%	%	%
СО	%	%	%
PM	%	%	%
PM ₁₀	%	%	%
INORGANIC	%	%	%

G. CONTROL TECHNOLOGY COMMENTS.

- A. COMPLIANCE DEMONSTRATED BY: Source Tests PR10242
- B. DATE(S) OF SOURCE TEST: 1/12/2012
- C. COLLECTION EFFICIENCY METHOD:
- D. COLLECTION EFFICIENCY PARAMETERS:
- E. SOURCE TEST/PERFORMANCE DATA: 2 zones, Highest zone concentration 52.6 ppmvd NOx, 915 ppmvd CO both at 3%O2.
- F. TEST OPERATING PARAMETERS AND CONDITIONS: Test conducted during "normal load," 89.1% firing rate
- G. TEST METHODS (SPECIFY AGENCY): SCAQMD M. 100.1

H.	MONITORING AND TESTING REQUIREMENTS:
	-
I.	DEMONSTRATION OF COMPLIANCE COMMENTS:

A. BCAT: 000264		B. CCAT:		C. APPLICATION TYPE CODE: 40				
D. RECLAIM FAC?			E. TITLE V FAC:		F. SOURCE TEST ID(S): PR10242			
YES □ NO ⊠			YES □ NO ⊠					
G.	G. SCAQMD SOURCE SPECIFIC RULES: 1153, 1153.1				153.1			
H. HEALTH RISK FOR PERMIT UNIT								
H1	. MICR:	H2. I	MICR DATE:		H3. CAN	CER	BURDEN:	H4. CB DATE:
H5: HIA: H6. HI		HIA DATE: H7. HIC:				H8. HIC DATE:		

South Coast AQMD

Part D: NonSCAQMD BACT Determination

Source Type: Minor

Application No.: 558783

Equipment Category: I.C. Engine, Stationary, Non-

Emergency, Electrical Generators

Equipment Subcategory:

	Date:		Apri	1 14, 2015				
1.	EQUIPMENT INFORM	MATION						
A.	MANUFACTURER: GM/Te	cogen	В.	MODEL:	TECODRIVE 7400			
C.	DESCRIPTION: Spark Ignit	tion, Rich Bu	n, Four-Cyc	le, 8 cylind	lers.			
D.	FUNCTION: On-site electrical power generation							
E.	SIZE/DIMENSIONS/CAPACITY: 108 HP, driving 75 KW generator							
CO	COMBUSTION SOURCES							
F.	MAXIMUM HEAT INPUT:	-						
G.	G. BURNER INFORMATION							
	ТҮРЕ	INDIV	/IDUAL HEA	T INPUT	NUMBER			
H.	PRIMARY FUEL: NATURA	L GAS	I. OTHER F	UEL:				
J.	OPERATING SCHEDULE:	24 HRS/DAY	7 DAYS/W	VEEK 52	WKS/YR			
K.	EQUIPMENT COST: Not Avail	able						
L.	. EQUIPMENT INFORMATION COMMENTS: Engine is equipped with emission control consisting of non-selective catalytic converter.							
2.	COMPANY INFORMA	ATION						
A.	COMPANY: Playa Capital C	Company LLC	C	B. FAC	CID: 176353			
C.	C. ADDRESS: 12852 Runway Road				D. NAICS CODE:			
	CITY: Playa Vista STATE:							
E.	5 1 5 1				E: VP Residential Dev.			
G.	PHONE NO.: 310-448-4682	,	H. EMAIL derek f		ıd@brookfieldrp.com			

3. PERMIT INFORMATION

A. AGENCY: SCAQMD B. APPLICATION TYPE: NEW CONSTRUCTION PERMIT TO OPERATE

C. SCAQMD ENGINEER: Jason Taylor

D. PERMIT INFORMATION: PC ISSUANCE DATE: 3/18/14

P/O NO.: G39943 PO ISSUANCE DATE: 4/14/2015

E. START-UP DATE: 8/21/2015

F. OPERATIONAL TIME: 1+ years

4. EMISSION INFORMATION

A. BACT EMISSION LIMITS AND AVERAGING TIMES:

	VOC	NOX	SOX	СО	PM OR PM ₁₀	INORGANIC
BACT Limit	0.222 lb/mw-hr	0.156 LB/MW-HR		0.444 lb/mw-hr	Rule 404	
Averaging Time	Per Rule 1110.2 requirements	Per Rule 1110.2 requirements		Per Rule 1110.2 requirements		
Correction						

- B. OTHER BACT REQUIREMENTS: Compliance with emission requirements of Rule 1110.2(d)(1)(L)
- C. BASIS OF THE BACT/LAER DETERMINATION: Compliance with Rule 1110.2(d)(1)(L) and achieved in practiceOther (add comment)
- D. EMISSION INFORMATION COMMENTS: Enter any additional comments regarding Emissions Information.

5.	CONTROL	TECHNOI	OGY
J.			

- A. MANUFACTURER: SUD-CHEMIE NSCR B. MODEL: ENVICAT 7319
- C. DESCRIPTION: Non-Selective Catalytic Converter with automatic air/fuel ratio controller, Tecogen, model Teconet Stoichiometric AFRC.
- D. SIZE/DIMENSIONS/CAPACITY: ---
- E. CONTROL EQUIPMENT PERMIT INFORMATION:

APPLICATION NO. 558783 PC ISSUANCE DATE: 3/18/14 PO NO.: G39943 PO ISSUANCE DATE: 4/14/2015

F. REQUIRED CONTROL EFFICIENCIES: Maintain compliance with Rule 1110.2(d)(1)(L) for engine emissions.

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

G. CONTROL TECHNOLOGY COMMENTS two stage system with three way catalyst followed by air injection and additional catalyst. Manages air/fuel ratio slightly rich of stoichiometric via oxygen sensors located before and after the first stage three way catalyst.

- A. COMPLIANCE DEMONSTRATED BY: Source test.
- B. DATE(S) OF SOURCE TEST: August 21, 2015
- C. COLLECTION EFFICIENCY METHOD:
- D. COLLECTION EFFICIENCY PARAMETERS:
- E. SOURCE TEST/PERFORMANCE DATA: NOx = 0.014 lb/MWe-hr, CO = 0.083 lb/MWe-hr, VOC = 0.116 lb/MWe-hr.
- F. TEST OPERATING PARAMETERS AND CONDITIONS:
- G. TEST METHODS (SPECIFY AGENCY): NOx, CO and O2 determined using SCAQMD Method 100.1. VOC determined using SCAQMD Method 25.3.

H.	MONITORING AND TESTING REQUIREMENTS: Compliance with Rule 1110.2(f)
I.	DEMONSTRATION OF COMPLIANCE COMMENTS:

A.	. BCAT:		B. CCAT:		C. APPLICATION TYPE CODE:			
D.	D. RECLAIM FAC?		E. TITLE V FAC:		F. SOURCE TEST ID(S):			
	YES □ NO □		YES □ NO □					
G.	G. SCAQMD SOURCE SPECIFIC RULES:							
H.	H. HEALTH RISK FOR PERMIT UNIT							
H1.	MICR:	H2. MICR DATE: H3.			H3. CAN	ICER 1	BURDEN:	H4. CB DATE:
H5:	: HIA:	H6. HIA	DATE:		H7. HIC:			H8. HIC DATE:

South Coast AQMD

Part D, SCAQMD BACT Determination

Source Type: Minor

Application No.: **Oven - 567948, CatOx - 569302**

Equipment Category: Food Oven

Equipment Subcategory: Infrared burners

Date: March 24, 2017

1.	EQUIPMENT INFORM	ATION				
A.	MANUFACTURER: Custom		B. MODEL:			
C.	DESCRIPTION: Food oven with only infrared burners vented to a catalytic oxidizer to control VOC emissions					
D.	FUNCTION: Food oven equipped with infrared burners used to bake pita and other flat breads					
E.	SIZE/DIMENSIONS/CAPACITY	: 7' W x 19' L x 11	'H with a 0.5 I	HP combustion blower		
CO	MBUSTION SOURCES					
F.	MAXIMUM HEAT INPUT: 2.1	98 MMBtu/hr)		
G.	. BURNER INFORMATION					
	ТҮРЕ	INDIVIDUAL H	IEAT INPUT	NUMBER		
				314		
H.	PRIMARY FUEL: NATURAL	GAS I. OTHE	R FUEL:			
J.	7. OPERATING SCHEDULE: 24 HRS/DAY 7 DAYS/WEEK 52 WKS/YR					
K.	EQUIPMENT COST: TBD					
L.	EQUIPMENT INFORMATION COMMENTS: UNCONTROLLED (INLET) VOC EMISSIONS 1.038 LB/HR (PERMIT EVALUATION) IS EQUAL TO 24.9 LB VOC/DAY. PERMIT LIMITS TO 1440 TON BAKERY PROD/MONTH AND 0.7752% YEAST					

2. COMPANY INFORMATION

A.	COMPANY: Rich Products Corporation	B. FAC ID: 178261
C.	ADDRESS: 3401 W. Segerstrom Ave. CITY: Santa Ana STATE: CA ZIP: 92704	D. NAICS CODE: 311812
E.	CONTACT PERSON: Jim Niemeyer	F. TITLE: Maintenance Manager
G.	PHONE NO.: 714-559-6826 H. EMAII	: jniemeyer@rich.com

3. PERMIT INFORMATION

A. AGENCY: SCAQMD B. APPLICATION TYPE: MODIFICATION

C. SCAQMD ENGINEER: Tracy Nguyen

D. PERMIT INFORMATION: PC ISSUANCE DATE:

P/O NO.: G43298 PO ISSUANCE DATE: 10/14/2016

E. START-UP DATE: 10/14/2014

F. OPERATIONAL TIME: > 1 year (10/14/14 source test date)

4. EMISSION INFORMATION

A. BACT EMISSION LIMITS AND AVERAGING TIMES:

	VOC	NOx	SOX	СО	PM or PM ₁₀	INORGANIC
BACT Limit	95% by weight overall Control	Oven: 30 ppm CatOx: 30 ppm	Nat Gas	Compliance with SCAQMD Rules 407 and 1153.1	Nat Gas	
Averaging Time	1 HR	1 HR				
Correction	TGNMO as CH4	Oven: 3%O2 Cat Ox: 3%O2				

- B. OTHER BACT REQUIREMENTS:
- C. BASIS OF THE BACT/LAER DETERMINATION: Achieved in Practice/New Technology
- D. EMISSION INFORMATION COMMENTS: Enter any additional comments regarding Emissions Information.

5. CONTROL TECHNOLOGY

- A. MANUFACTURER: Western Combustion B. MODEL: 30
- C. DESCRIPTION: Catalytic oxidizer with low NOx burner venting Oven No. 2 and control VOC emission released by yeast in baking products
- D. SIZE/DIMENSIONS/CAPACITY: Maxon Oven Pak LE13 burner, 1.3 MMBTu/hr burner. 4 Pt catalyst Modules.
- E. CONTROL EQUIPMENT PERMIT INFORMATION:

APPLICATION NO. 569302 PC ISSUANCE DATE: Change ownership PO NO.: G43249 PO ISSUANCE DATE: 10/12/2016

F. REQUIRED CONTROL EFFICIENCIES:

CONTAMINANT	OVERALL CONTROL EFFICIENCY	CONTROL DEVICE EFFICIENCY	COLLECTION EFFICIENCY	
VOC	95%	95%	%	
NOx	%	%	%	
SOx	%	%	%	
СО	%	%	%	
PM	%	%	%	
PM ₁₀	%	%	%	
INORGANIC	%	%	%	

G. CONTROL TECHNOLOGY COMMENTS Permitted limit minimum 600°F catalyst inlet temperature. 100% collection efficiency required to meet efficiency limits.

- A. COMPLIANCE DEMONSTRATED BY: Source test PR14211
- B. DATE(S) OF SOURCE TEST: 10/14-16/2014 when the Cat Ox was Appl # 557729
- C. COLLECTION EFFICIENCY METHOD: EPA M.204
- D. COLLECTION EFFICIENCY PARAMETERS:
- E. SOURCE TEST/PERFORMANCE DATA: 98.4% destruction eff, Inlet VOC to Cat Ox 2.4 lb/hr, Exh VOC 0.03 lb/hr. Exhaust of cat ox: Normal load NOx with production 22.1 ppmvd @ $3\%O_2$ (0.05 lb NOx/hr) and 21.2 ppmvd CO @ $3\%O_2$ (0.14 lb CO/hr)
- F. TEST OPERATING PARAMETERS AND CONDITIONS: Cat Bed inlet Temp 650°F.
- G. TEST METHODS (SPECIFY AGENCY): SCAQMD 25.1, 25.3, 100.1

TS:
ENTS:

A. BCAT: 000255	B. CCAT: 06	B. CCAT: 06		C. APPLICATION TYPE CODE:				
D. RECLAIM FAC?	E. TITLE V FA	E. TITLE V FAC:		F. SOURCE TEST ID(S): PR14211				
YES □ NO [YES □ NO ☒ YES □ NO ☒							
G. SCAQMD SOURCE SPECIFIC RULES:								
H. HEALTH RISK FOR PERMIT UNIT								
H1. MICR: H2. MICR DATE: H3. CA			ICER BURDEN:	H4. CB DATE:				
H5: HIA:	H6. HIA DATE:	H7. HIC:		H8. HIC DATE:				

Lithographic Printing Press Cost Effectiveness Calculations for Regenerative Thermal Oxidizer as control - Freedom Communications

Litho Printing Presses Info

Manufacturer: Beiren

Model: 3845, 8-Color, Oven Dry

Oven: MegTech Systems, Model 350, 2x3.2MMBtu/hr & 2x1.6MMBtu/hr

Operation Schedule: 24 hr/day, 365 days/yr (Avg.)

Control TechnologyRTO - Adwest Technologies
Model SSE-3K-95X-RTO, 1.2MMBtu/hr

\$

207,100

Capital	Cost
Equipm	ent

Direct & Indirect Installation Total Capital	\$ \$	200,000 407,100
Operating Cost		
Direct & Indirect	\$	135,000
Total Average Annual	\$	135,000
Present Value of Capital Costs	\$	407,100
Present Value of Annual Costs (10 years @ 4%)	\$	1,094,850
Total 10-Year Capital Cost	\$	1,501,950

Uncontrolled Emissions (lbs/day)	•	181.6
Overall Control Efficiency		99%
Controlled Emissions (lbs/day)		180
Controlled Emissions (tons/10 years)		328
Cost per ton of VOC controlled	\$	4,578

MSBACT maximum cost effectiveness (\$/ton)	\$	28,886
	COST	EFFECTIVE

MSBACT maximum cost effectiveness (\$/ton)

\$ 23,484 \$ 86,658 COST EFFECTIVE

AVERAGE

1st quarter 2006 M&S cost effectiveness (1302.3)

INCREMENTAL

70,451 1st quarter 2006 M&S cost effectiveness (1302.3)

Notes:

- ➤ Calculations were based on Regenerative Thermal Oxidizer permit application no. 460266 submitted by applicant controlling VOC emissions from a Lithographic Printing Press drying oven and cost info provided by RTO manufacturer.
- ▶181.59 lbs/day of uncontrolled VOC emissions was the baseline used in determining cost effectiveness

\$

- ➤ Maximum allowed cost effectiveness was based on 1st quarter 2017 Marshall & Swift index
- >Incremental costs are assumed to be the same since there is no more stringent control technology

Flexographic Printing Press Cost Effectiveness Calculations for Regenerative Thermal Oxidizer as control - Asia Plastics

Flexo Printing Presses Info

Manufacturer: Hon Jin Iron Works Model: HJ-222, 4-Color, Air Dry Model HJ-HS6001, 6-Color, Air Dry

Operation Schedule: 16 hr/day, 365 days/yr

Γ	ntr	~I ⁻		hnc	Noc	11/
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RTO - Ship & Shore Model SSE-3K-95X-RTO, 1.35MMBtu/hr

Capita	I Cost
--------	--------

Equipment	\$ 160,000
Direct & Indirect Installation	\$ 140,000
Total Capital	\$ 300,000

Operating Cost

\$ 124,720
\$ 124,720
\$ 300,000
\$ 1,011,479
\$ 1,311,479
\$

Uncontrolled Emissions (lbs/day)	•	133
Control Efficiency	g	95%
Controlled Emissions (lbs/day)	•	127
Controlled Emissions (tons/10 years)	2	231
Cost per ton of VOC controlled	\$	5,675

MSBACT maximum cost effectiveness ROG (\$/ton) \$	28,886
---	--------

MSBACT maximum cost effectiveness ROG (\$/ton)	\$	28,886	
	COST	EFFECTIVE	AVERAGE
	\$	28,107	1st quarter 2013 M&S cost effectiveness (1558.7)
MSBACT maximum cost effectiveness ROG (\$/ton)	\$	86,658	
	COST	EFFECTIVE	INCREMENTAL

84,322

Notes:

1st quarter 2013 M&S cost effectiveness (1558.7)

\$

>Calculations were based on Regenerative Thermal Oxidizer permit application no. 548337 submitted by applicant controlling VOC emissions from two Flexographic Printing Presses, 6-color and 4-color. In addition to cost information provided by applicant.

^{▶133.3} lbs/day of uncontrolled VOC emissions was the baseline used in determining cost effectiveness

Maximum allowed cost effectiveness was based on 1st quarter 2017 Marshall & Swift index

[➤]Incremental costs are assumed to be the same since there is no more stringent control technology

Bakery Oven Cost Effectiveness Calculations for Regenerative Thermal Oxidizer (RTO) as control - Bon Appetit

Oven Information

Manufacturer: GPA Orlandi Model: Turbo termo oven 25 Rating/Fuel: 5,000,000 Btu/hr

4 Burners, 3x1MM Btu/hr & 1x2MM Btu/hr Outside Dimensions: 86'-5"L, 15'-5"W, 6'-3"H Operation Schedule: 24 hr/day, 360 days/yr

	RTO - Alliance Corporation Model Boxidizer 2-bed, .96 therms/hr			
Capital Cost Equipment Direct Installation Indirect Installation Total Capital	\$ 150,166 \$ 85,600 \$ 18,020 \$ 253,786			
Operating Cost Direct & Indirect Total Average Annual	\$ 42,046 \$ 42,046			
Present Value of Capital Costs Present Value of Annual Costs (10 years @ 4%) Total 10-Year Capital Cost	\$ 253,786 \$ 340,993 \$ 594,779			
Uncontrolled Emissions (lbs/day) Control Efficiency Controlled Emissions (lbs/day) Controlled Emissions (tons/10 years) Cost per ton of VOC controlled	30 95% 29 52 \$ 11,435			
MSBACT maximum cost effectiveness ROG (\$/ton)	\$ 28,886 COST EFFECTIVE	AVERAGE		
MSBACT maximum cost effectiveness ROG (\$/ton)	\$ 86,658 COST EFFECTIVE IN	NCREMENTAL		

Notes:

➤ Calculations were based on cost effectiveness analysis submitted by applicant in April 2017 for Bakery Oven permit application no. 523867 that was evaluated for cost-effectiveness for expected 15.56 lbs/day of uncontrolled VOC emissions and cost estimates from another RTO manufacturer.

^{▶30} lbs/day of uncontrolled VOC emissions was the baseline used in determining cost effectiveness

Maximum allowed cost effectiveness was based on 1st quarter 2017 Marshall & Swift index

>Incremental costs are assumed to be the same since there is no more stringent control technology

Bakery Oven Cost Effectiveness Calculations for Catalytic Oxidizer as control- Bon Appetit

Oven Information

Manufacturer: GPA Orlandi Model: Turbo termo oven 25 Rating/Fuel: 5,000,000 Btu/hr

4 Burners, 3x1MM Btu/hr & 1x2MM Btu/hr Outside Dimensions: 86'-5"L, 15'-5"W, 6'-3"H Operation Schedule: 24 hr/day, 360 days/yr

Control Technology CSM

Cat-Ox Model 30A, 0.80MMBtu/hr

Capital Cost Equipment Direct Installation Indirect Installation Total Capital	\$\$\$\$	460,438 277,455 56,416 794,309
Operating Cost		
Direct	\$	75,136
Indirect	\$	2,000
Total Average Annual	\$	77,136
Present Value of Capital Costs	\$	794,309
Present Value of Annual Costs (10 years @ 4%)	\$	625,573
Total 10-Year Capital Cost	\$	1,419,882

Uncontrolled Emissions (lbs/day)	30
Control Efficiency	95%
Controlled Emissions (lbs/day)	28.50
Controlled Emissions (tons/10 years)	51.30
Cost per ton of VOC controlled	\$ 27,678

MSBACT maximum cost effectiveness (\$/ton) \$ 28,886

COST EFFECTIVE

MSBACT maximum cost effectiveness (\$/ton) \$ 86,658 COST EFFECTIVE

Notes

- Calculations were based on cost effectiveness analysis submitted by applicant in April 2017 for Bakery Oven permit application no. 523867 that was evaluated for cost-effectiveness for expected 15.56 lbs/day of uncontrolled VOC emissions.
- ➤ 30 lbs/day of uncontrolled VOC emissions was the baseline used in determining cost effectiveness
- Maximum allowed cost effectiveness was based on 1st quarter 2017 Marshall & Swift index
- Incremental costs are assumed to be the same since there is no more stringent control technology

Bakery Oven Cost Effectiveness Calculations for Catalytic Oxidizer as control - Aryzta, Ontario

Oven Information (two identical ovens vented)

Manufacturer: Baking Technology Model: Baketech Maxisaver bun oven

Rating/Fuel: 7,300,000 Btu/hr

24 Burners, Flynn no. 162HN, 30ppm NOx Outside Dimensions: 48'-4"L, 33'-0"W, 11"-0"H Operation Schedule: 24 hr/day, 360 days/yr

Operation Schedule: 24 hr/day, 360 days/yr			
Control Technology Cat-Ox	x Mode	CSM el 180A, 2.7MMBtu/hr	
Capital Cost Equipment Direct Installation	\$ \$ \$	709,769 45,000	
Indirect Installation Total Capital	\$ \$	71,000 825,769	
Operating Cost			
Direct and Indirect	\$	37,178	
Total Average Annual	\$	37,178	
Present Value of Capital Costs	\$	825,769	
Present Value of Annual Costs (10 years @ 4%) Total 10-Year Capital Cost	\$ \$	301,514 1,127,283	
·	*		
Uncontrolled Emissions (lbs/day)		114	
Control Efficiency		95% 108.64	
Controlled Emissions (lbs/day) Controlled Emissions (tons/10 years)		195.56	
Cost per ton of VOC controlled	\$	5,765	
MSBACT maximum cost effectiveness ROG (\$/ton)	\$	28,886	
		ST EFFECTIVE	AVERAGE
MCDACT magazine una cost effective acces DCC (#/#===)	\$	24,573	1st quarter 2007 M&S cost effectiveness (1362.7)
MSBACT maximum cost effectiveness ROG (\$/ton)	\$	86,658 ST EFFECTIVE	INCREMENTAL
	\$	73,719	1st quarter 2007 M&S cost effectiveness (1362.7)
	Ψ	10,110	131 quartor 2007 MixO Cost effective 11833 (1302.7)

Notes:

[➤] Calculations were based on cost effectiveness analysis provided by applicant for Cat-Ox under application no. 548869 venting two bakery ovens appl. Nos. 548863 & 548866 for expected 114.36 lbs/day of uncontrolled VOC emissions.

Since applicant stated that these costs are almost 10 years old, cost effectiveness based on 1st quarter 2007 Marshall & Swift index was also used.

>Incremental costs are assumed to be the same since there is no more stringent control technology

10-20-2000 Rev. 0 1-5-2018 Rev. 1

Equipment or Process: Dryer or Oven

Criteria Pollutants								
Subcategory/ Rating/Size	VOC	NOx	SOx	СО	PM10	Inorganic		
Carpet Oven		80 ppmvd, corrected to 3% O ₂ (10-20-2000)	Natural Gas (1990)		Natural Gas (1990)			
Rotary, Spray and Flash Dryers ¹⁾		Natural Gas with Low NOx Burner (10-20-2000)	Natural Gas (1990)		Natural Gas with Baghouse (1990)			
Tray, Agitated Pan, and Rotary Vacuum Dryers		Natural Gas with Low NOx Burner (10-20-2000)	Natural Gas (1990)		Natural Gas (1990)			
Tenter Frame Fabric Dryer		60 ppmvd Corrected to 3% O ₂ (10-20-2000)	Natural Gas (10-20-2000)		Natural Gas (10-20-2000)			
Other Dryers and Ovens – Direct and Indirect Fired ²		30 ppmvd corrected to 3% O ₂ (04-10-98)	Natural Gas (10-20-2000)		Natural Gas (10-20-2000)			

^{1.} Dryers for foodstuff, pharmaceuticals, aggregate & chemicals.

* Means those facilities that are not major polluting facilities as defined by Rule 1302 - Definitions

^{4.2.} Does not include food or bakery ovens. See listing for "Food Oven."

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<u>1-5-2018 Rev. 0</u>

Equipment or Process: Food Oven

			<u>Criteria Pollutants</u>						
Subcategory ¹	Rating/	VOC	<u>NOx</u>	SOx	<u>CO</u>	<u>PM10</u>	Inorganic		
	Size								
Ribbon			60 ppmvd @ 3%	Natural Gas	Compliance with	Natural Gas (1-			
<u>Burner</u>	> 500°F		O ₂ (1-5-2018)	<u>(1-5-2018)</u>	applicable SCAQMD	<u>5-2018)</u>			
	<u>> 300 1</u>				Rules 407 or				
					1153.1(1-5-2018)				
	< 5000F		30 ppmvd @ 3%	Same as	Same as above	Same as above			
	≤ 500°F		O_2 (1-5-2018)	<u>above</u>					
Direct Fired			30 ppmvd @ 3%						
Burner			O_2 (1-5-2018)						
<u>Infrared</u>			30 ppmvd @ 3%						
<u>Burner</u>			<u>O₂ (1-5-2018)</u>						
Add-on		Catalytic oxidizer	Compliance with						
Control for		with 95% overall	SCAQMD Rule						
Bakery Oven		control efficiency	1147 (1-5-2018)						
processing		(mass basis); catalyst							
<u>yeast</u>		<u>inlet temperature ≥</u>							
leavened		600°F; ceramic							
products with		<u>prefilter (1-5-2018)</u>							
emissions ≥									
30 lb									
VOC/day									
1									

^{*} Means those facilities that are not major polluting facilities as defined by Rule 1302 - Definitions

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

Best Available Control Technology (BACT) Guidelines for Non-Major Polluting Facilities*

(Continued on next page)

¹Indirect Fired units may be subject to Rules 1146 and 1146.1 and BACT for Process Heater

			Criteria Pollutants						
Subcategory	Rating/ Size	<u>VOC</u>	<u>NOx</u>	SOx	<u>CO</u>	<u>PM10</u>	<u>Inorganic</u>		
Other Burners			Compliance with SCAQMD Rules and Regulations						

^{*} Means those facilities that are not major polluting facilities as defined by Rule 1302 - Definitions

10-20-2000 Rev. 0 7-14-2006 Rev. 1 12-02-2016 Rev. 2 1-5-2018 Rev. 3

Equipment or Process:

I.C. Engine, Portable ¹

		Criteria Pollutants					
Subcategory	Rating/Size	VOC	NOx	$NOx + NMHC^2$	SOx	СО	PM
Compression- Ignition ³	50 ≤ HP < 75			Tier 4 Final: 4.7 grams/kW-hr (3.5 grams/bhp-hr) (12-02-2016)	Diesel fuel with a sulfur content no greater than 0.0015% by weight (Rule 431.2). (6-6-2003)	Tier 4 Final: 5.0 grams/kW-hr (3.7 grams/bhp-hr) (12-02-2016)	Tier 4 Final: 0.03 grams/kW-hr (0.02 grams/bhp-hr) and CARB ATCM for portable diesel engines ⁴ (12-02-2016)
	75≤ HP < 175 ⁻⁵		Tier 4 FinalInterim: 3.40.40 grams/kW-hr (2.50.30 grams/bhp-hr) (1-5-2018)	Tier 4 FinalInterim: NMHC only: 0.19 grams/kW-hr (0.14 grams/bhp-hr) (1-5-2018)		Tier 4 FinalInterim: 5.0 grams/kW-hr (3.7 grams/bhp-hr) (1-5-2018)	Tier 4 FinalInterim: 0.02 grams/kW-hr (0.01 grams/bhp-hr) and CARB ATCM for portable diesel engines ⁴ (1-5-2018)
	175 ≤ HP < 750		Tier 4 Final: 0.40 grams/kW-hr (0.30 grams/bhp- hr) (12-02-2016)	Tier 4 Final: NMHC only: 0.19 grams/kW-hr (0.14 grams/bhp-hr) (12-02-2016)		Tier 4 Final: 3.5 grams/kW-hr (2.6 grams/bhp-hr) (12-02-2016)	Tier 4 Final: 0.02 grams/kW-hr (0.01 grams/bhp-hr) and CARB ATCM for portable diesel engines ⁴ (12-02-2016)

^{*} Means those facilities that are not major polluting facilities as defined by Rule 1302 - Definitions

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

Best Available Control Technology (BACT) Guidelines for Non-Major Polluting Facilities*

			Criteria Pollutants					
Subcategory	Rating/Size	VOC	NOx	$NOx + NMHC^2$	SOx	CO	PM	

(Continued on Next Page)

Compression- Ignition ³	≥750 HP ⁵		Tier 4 Interim: For Generator Sets > 1200 HP: 0.67 grams/kW-hr (0.50 grams/bhp-hr) For All Engines Except "Generator Sets > 1200 HP": 3.5 grams/kW-hr (2.6 grams/bhp-hr) (12-02-2016)	Tier 4 Interim: NMHC only: 0.4 grams/kW-hr (0.30 grams/bhp-hr) (12-02-2016)	Diesel fuel with a sulfur content no greater than 0.0015% by weight (Rule 431.2). (6-6-2003)	Tier 4 Interim: 3.5 grams/kW-hr (2.6 grams/bhp-hr) (12-02-2016)	Tier 4 Interim: 0.10 grams/kW-hr (0.07 grams/bhp- hr)and CARB ATCM for portable diesel engines ⁴ (12-02-2016)
Spark Ignition	All	1.5 grams/bhp- hr, or 240 ppmvd as methane @ 15% O2 (4-10-1998)	1.5 grams/bhp-hr, or 80 ppmvd @ 15% O2 (4-10-1998)			2.0 grams/bhp-hr, or 176 ppmvd @ 15% O2 (4-10-1998)	

Notes:

- 1) BACT for "I.C. Engine, Portable" is determined by deemed complete date of permit application not date of manufacture or installation.
- 2) NMHC + NOx means the sum of non-methane hydrocarbons and oxides of nitrogen emissions, unless specified as "NMHC only", which only includes NMHC emissions.
- 3) The engine must be certified by U.S. EPA or CARB to meet the Tier 4 emission requirements of 40 CFR Part 89 Control of Emissions from New and In-use Nonroad Compression-Ignition Engines shown in the table– or otherwise demonstrate that it meets the Tier 4 emission limits. If, because of the averaging, banking, and trading program, there is no new engine from any manufacturer that meets the above standards, then the engine must meet the family emission limits established by the manufacturer and approved by U.S. EPA. Based on the model year, the CARB Airborne Toxic Control Measure (ATCM) for Portable Diesel Engines (see www.arb.ca.gov/diesel/peatcm/peatcm.htm) requires in-use portable diesel engines to be certified to Tier 1, 2, 3 or 4 by their respective deadlines, all of which have passed. All exceptions allowed in the ATCM are also allowed in this guideline.

^{*} Means those facilities that are not major polluting facilities as defined by Rule 1302 - Definitions

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

Best Available Control Technology (BACT) Guidelines for Non-Major Polluting Facilities*

- 4) The CARB ATCM also requires in-use portable diesel engines to meet fleet-average PM standards beginning 1/1/2013. The PM limits in the table apply only to filterable PM.
- 5) CARB has extended the Tier 4 Final requirements deadline "until further notice" for Portable, Compression-Ignition Engines for $\frac{75 \le HP}{175}$ and $\frac{175}{175}$ and $\frac{$

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1-5-2018 Rev. 0

Equipment or Process: I.C. Engine, Stationary, Non-Emergency, Electrical Generators

		<u>Criteria Pollutants</u>							
Subcategory/ Rating/Size	<u>VOC</u>	NOx	SOx	<u>CO</u>	<u>PM10</u>	<u>Inorganic</u>			
≥ 50 bhp	Compliance with SCAQMD Rule 1110.2 (1-5-2018)	Compliance with SCAQMD Rule 1110.2 (1-5-2018)	See Clean Fuels Policy in Part C of the BACT Guidelines (1-5-2018)	Compliance with SCAQMD Rule 1110.2 (1-5-2018)	See Clean Fuels Policy in Part C of the BACT Guidelines (1-5-2018) Compliance with Rule 1470 (1-5-2018)				
Landfill or Digester Gas Fired	Compliance with SCAQMD Rule 1110.2 (1-5-2018)	Compliance with SCAQMD Rule 1110.2 (1-5-2018)	Compliance with SCAQMD Rule 431.1 (1-5-2018)	Compliance with SCAQMD Rule 1110.2 (1-5-2018)					

¹⁾ This BACT listing was adapted from the previous "I.C. Engine, Stationary, Non-Emergency," Part D BACT listing.

^{*} Means those facilities that are not major polluting facilities as defined by Rule 1302 - Definitions

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12-02-2016 Rev. 0 1-5-2018 Rev. 1

Equipment or Process: - I.C. Engine, Stationary, Non-Emergency, Non-Electrical Generators

	Criteria Pollutants					
Subcategory/ Rating/Size	VOC	NOx	SOx	СО	PM10	Inorganic
> 50 bhp	Compliance with SCAQMD Rule 1110.2 (12-02-2016)	Compliance with SCAQMD Rule 1110.2 (12-02-2016)	See Clean Fuels Policy in Part C of the BACT Guidelines (12-02-2016)	Compliance with SCAQMD Rule 1110.2 (12-02-2016)	See Clean Fuels Policy in Part C of the BACT Guidelines (12-02-2016) Compliance with Rule 1470 (12-02-2016)	
Landfill or Digester Gas Fired ²¹	Compliance with SCAQMD Rule 1110.2 0.8 grams/bhp-hr (12 02 2016)(1-5-2018)	Compliance with SCAQMD Rule 1110.2 0.60 grams/bhp-hr_(12-02-2016)(1-5-2018)	Compliance with SCAQMD Rule 431.1 (12-02-2016)	Compliance with SCAQMD Rule 1110.22.5 grams/bhp hr (12 02 2016)(1-5-2018)		

This BACT listing was adapted from the "I.C. Engine, Stationary, Non-Emergency." An additional listing for "I.C. Engine, Stationary, Non-Emergency, Electrical Generators," is currently under development. Until the amendment is developed, Stationary, Non-Emergency, Electrical Generators will be subject to "I.C. Engine, Stationary, Non-Emergency."

²⁾¹⁾ For the adoption of this new listing, the requirements for this subcategory were transferred directly from the existing requirements under "I.C. Engine, Stationary, Non-Emergency." The requirements are not new, but the date listed was updated to reflect the date of adoption of the new listing.

^{*} Means those facilities that are not major polluting facilities as defined by Rule 1302 - Definitions

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10-20-2000 Rev. 0 7-9-2004 Rev. 1 12-3-2004 Rev. 2 1-5-2018 Rev. 3

Equipment or Process: L.C. Engine, Stationary, Non-Emergency

Subcategory/ Rating/Size	VOC	NOx	SOx	CO	PM ₁₀	Inorganic
< 2064 bhp	0.15 grams/bhp hr (4-10-98)	0.15 grams/bhp-hr (4-10-98)	See Clean Fuels Policy in Part C of the BACT Guidelines (10-20-2000)	0.60 grams/bhp hr (4-10-98)	See Clean Fuels Policy in Part C of the BACT Guidelines (10-20-2000) Compliance with Rule 1470. (12-3-2004)	
≥ 2064 bhp	25 ppm @ 15% O ₂ (7 9 2004)	9 ppmvd @ 15% O ₂ (7 9 2004)	Same as Above (10-20-2000)	33 ppmvd @ 15% O ₂ (5 8 98)	Same as Above (7-9-2004)	Ammonia: 10 ppmvd @ 15% O ₂ (7-9-2004)
Landfill or Digester Gas Fired	0.8 grams/bhp hr (4-10-98)	0.60 grams/bhp hr (4-10-98)	Compliance with Rule 431.1 (10-20-2000)	2.5 grams/bhp hr (4-10-98)		

^{*} Means those facilities that are not major polluting facilities as defined by Rule 1302 - Definitions

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10-20-2000 Rev. 0 12-5-2003 Rev. 1 7-14-2006 Rev 2 1-5-2018 Rev 3

Equipment or Process: Printing (Graphic Arts)

	Criteria Pollutants					
Subcategory	VOC	NOx	SOx	CO	PM10	Inorganic
	Inks with ≤ 1.5 Lbs VOC/Gal, Less Water and					
Flexographic	Less Exempt Compounds (1990); or use of UV/EB					
	or water-based inks/coatings ≤ 180 g VOC/L.					
	Compliance with SCAQMD Rules 1130 and 1171					
	(12-5-2003) (1-5-2018)					
<u>Control</u>	For add-on control required by SCAQMD Rule	Compliance				
	1130(c)(5) or other District requirement:	with SCAQMD				
	EPA M. 204 Permanent Total Enclosure (100%)	Rule 1147 (1-5-				
	collection) vented to RTO with 95% overall	<u>2018)</u>				
	<u>control efficiency; Combustion Chamber: Temp ≥</u>					
	1500° F ¹ , Retention Time > 0.3 seconds (1-5-2018)					
Letterpress	Compliance with SCAQMD Rules 1130 and 1171					
	(12-5-2003)					
Lithographic or	Low VOC Fountain Solution (\leq 8% by Vol.				Oven Venting	
Offset, Heatset	VOC); Low Vapor Pressure (≤ 10 mm Hg VOC				to an	
	Composite Partial Pressure ¹⁾) or Low VOC (≤ 100				Afterburner (≥	
	g/l) Blanket and Roller Washes; Oil-Based or UV-				0.3 Sec.	
	Curable Inks; and Compliance with SCAQMD				Retention Time	
	Rules 1130 and 1171 (7-14-2006) (1-5-18)				$at \ge 1400^{-9}F;$	
					95% Overall	
					Efficiency)	
					(10-20-2000)	
<u>Control</u>	Oven Venting to an Afterburner (≥ 0.3 Sec.	Compliance				

^{*} Means those facilities that are not major polluting facilities as defined by Rule 1302 - Definitions

	Criteria Pollutants					
Subcategory	VOC	NOx	SOx	CO	PM10	Inorganic
	Retention Time at $\geq 1595^{\circ}F^{1}$; 99% Overall	with SCAQMD				
	Efficiency)	Rule 1147 (1-5-				
	(10-20-2000)(1-5-2018)	2018)				

(Continued on next page)

Lithographic or	Same As Above			
Offset, Non-				
Heatset				
Rotogravure or	Compliance with SCAQMD Rules 1130 and 1171			
Gravure—	(10-20-2000)			
Publication and				
Packaging				
Screen Printing	Compliance with SCAQMD Rules 1130.1 and			
and Drying	1171 (12 5 2003); or use of Rule 1130.1 and 1171			
	compliant UV/EB or water-based inks/coatings.			
	<u>(1-5-2018).</u>			

(Continued on Next Page)

^{*} Means those facilities that are not major polluting facilities as defined by Rule 1302 - Definitions

1) VOC COMPOSITE PARTIAL PRESSURE is the sum of the partial pressures of the compounds defined as VOCs. VOC Composite Partial Pressure is calculated as follows:

$$\underline{PPc} = \sum_{i=1}^{n} \frac{\underline{\left(W_{i} \ \right) \left(VP_{i} \ \right)}}{\underline{MW_{i}}}$$

$$\frac{\underline{Ww}}{\underline{MWw}} + \frac{\underline{We}}{\underline{MWe}} + \sum_{i=1}^{n} \frac{\underline{W_{i}}}{\underline{MW_{i}}}$$

Where:	PPc =	VOC composite partial pressure at 20°C in mm Hg
	Wi =	Weight of the "i"th VOC compound in grams
	MWi =	Molecular weight of "i"th VOC compound in grams per gram mole
	VPi =	Vapor pressure of the "i"th VOC compound at 20°C in mm Hg
		Weight of water in grams
	<u> MWw = </u>	Molecular weight of water in grams per gram mole
		Weight of exempt compound in grams
	MWe =	Molecular weight of exempt compound in grams per gram-mole

For multiple exempt compounds:
$$We / MWe = \sum_{j=1}^{n} Wej / MWej$$

12) or temperature demonstrating equivalent overall control efficiency in a District-approved source test.