# Section II – Other LAER/BACT Determination



E. CONTACT PERSON: Mac McCullough

G. PHONE NO.: (209) 604-6815

(		Source Type:			Major/LAER				
C	5	Application No	.:	Ν	-8044-4-0				
	uth Coast	Equipment Cate	Boiler						
A	QMD	Equipment Sub	category:	Ν	atural Ga	S			
					> 20 MMBTU/HR				
	Date:			February 2, 2024					
1.		MENT INFORM			T				
A.	MANUFAC	TURER: Cleaver	Brooks		B. MODEL: CBEX-E 700-722-250ST				
C.	equipped w Selective C	ith a CBEX Elit atalytic Reduction	e low NOx bu on (SCR) syst	urner sys tem.	tem and U	micor	tural gas-fired boiler e model DNX-1029		
D.	FUNCTION	Boiler provide	s steam for pr	ocess us	e in corrug	ated c	ontainer manufacturing		
E.	SIZE/DIME	NSIONS/CAPACIT	Y: 29.47 MN	IBTU/H	R				
CO	MBUSTION	SOURCES							
F.	MAXIMUM	HEAT INPUT: 29	9.47 MMBTU	J/HR					
G.	BURNER IN	FORMATION:							
	,	ТҮРЕ	INDIV	IDUAL H	IEAT INPUT	Г	NUMBER		
	Low N	Ox Burner	29.47	7 MMBT	U/HR		1		
п		FUEL: Natural ga		I OTHE	r fuel: N	[/ <b>A</b>			
H.	PRIMART	OEL: Natural ga	15	1. UTHE	KFUEL: IN	A			
J.	OPERATING	SCHEDULE:	24 HRS/DAY	7 DAY	S/WEEK	52	WKS/YR		
K.	EQUIPMEN	Г COST: N/A							
L.	EQUIPMENT gas.	Γ INFORMATION	COMMENTS:	The unit	shall only	be fir	ed on PUC-quality natu	ral	
2.	COMPA	<b>NY INFORM</b>	ATION						
A.	COMPANY:	Pacific Southw	est Container	, LLC		B. F	FAC ID:		
C.	ADDRESS: CITY: Mod	671 Mariposa F esto STATE:		: 95354		D. N	VAICS CODE: 322211		

F. TITLE:

H. EMAIL: macm@teampsc.com

#### 3. **PERMIT INFORMATION**

A. AGENCY: San Joaquin Valley Air Pollution Control District

B. APPLICATION TYPE: NEW CONSTRUCTION

C. SCAQMD ENGINEER: SJVAPCD Engineer: James Harader

D. PERMIT INFORMATION: PC ISSUANCE DATE:

P/O NO.: N-8044-4-2

PO ISSUANCE DATE: 9/21/2018

E. START-UP DATE: 5/7/2019

F. OPERATIONAL TIME: Over 3 years

#### 4. EMISSION INFORMATION

A. BACT EMISSION LIMITS AND AVERAGING TIMES: -							
	VOC	NOX	SOX	CO	PM or PM <sub>10</sub>	INORGANIC	
BACT Limit		2.5 PPMV 0.0030 lb/MMBtu		50 PPMV 0.037 lb/MMBtu			
Averaging Time		15 minutes		15 minutes			
Correction		3% O <sub>2</sub>		3% O <sub>2</sub>			

B. OTHER BACT REQUIREMENTS: There is a 10 ppmv ammonia slip limit, the source test shows the ammonia slip limit is 2.8 ppm. The current South Coast AQMD ammonia slip BACT is 5 ppmv.

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

D. EMISSION INFORMATION COMMENTS: Although not a part of this BACT determination, the following limits are included in the permit:

SOx - 0.00285 lb/MMBtu

PM<sub>10</sub> – 0.003 lb/MMBtu

VOC – 0.0055 lb/MMBtu

 $NH_3 - 10 PPMVD @ 3\% O_2$ 

5. CONTRO	<b>DL TECHNOLOGY</b>					
A. MANUFACTU	JRER: UMICORE		B. MODE	EL: DNX-1029		
C. DESCRIPTION: Selective Catalytic Reduction (SCR) system. The DNX® catalyst is a fiber reinforced Vanadium-Tungsten-Titania catalyst.						
D. SIZE/DIMENS	SIONS/CAPACITY: -					
	UIPMENT PERMIT INFORM	ATION:				
APPLICATION NO.:N-8044-4-0PC ISSUANCE DATE:PO NO.:N-8044-4-2PO ISSUANCE DATE:9/21/2018						
F. REQUIRED CO	ONTROL EFFICIENCIES: N/A					
CONTAMINANT	OVERALL CONTROL EFFICIENCY	CONTROL EFFICIE		COLLECTION EFFICIENCY		
VOC	%		⁄0	0/0		
NOx	%		⁄0	0⁄/0		
SOx	%	%		%		
СО	%	%		0/_0		
PM	%		⁄0	0/_0		
PM <sub>10</sub>	%	0	⁄0	0/_0		
INORGANIC	%		⁄0	%		
G. CONTROL TEC	CHNOLOGY COMMENTS: -					

## 6. DEMONSTRATION OF COMPLIANCE

- A. COMPLIANCE DEMONSTRATED BY: Source Test
- B. DATE(S) OF SOURCE TEST: 7/6/2020
- C. COLLECTION EFFICIENCY METHOD: N/A

### D. COLLECTION EFFICIENCY PARAMETERS: N/A

E. SOURCE TEST/PERFORMANCE DATA:

Pollutant	Average Test Result	Emission Limit	
NOx, ppmv @ 3% O <sub>2</sub>	1.4	2.5	
CO, ppmv @ 3% O <sub>2</sub>	<0.1	50	
NH3, ppmv @ 3% O2	2.8	10	

F. TEST OPERATING PARAMETERS AND CONDITIONS: Condition 24) All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate.

G. TEST METHODS (SPECIFY AGENCY):					
Pollutant	Test Method				
NOx	EPA Method 7E or ARB Method 100				
СО	EPA Method 10 or ARB Method 100				

H. MONITORING AND TESTING REQUIREMENTS: Monthly testing for NOx, CO, and O<sub>2</sub> using a portable analyzer and for NH<sub>3</sub> using Draeger tubes or a District approved method during each month in which source testing is not performed.

I. DEMONSTRATION OF COMPLIANCE COMMENTS: Permit Condition 18) Source testing to measure NOx, CO, and NH<sub>3</sub> emissions during steady state operation from this unit while fired on natural gas shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit.

# 7. ADDITIONAL SCAQMD REFERENCE DATA

А.	BCAT:	B. CCAT:	B. CCAT:		C. APPLICATION TYPE CODE:		
D.	<b>RECLAIM FAC?</b>	E. TITLE V FAC:	E. TITLE V FAC:		ST ID(S):		
	YES D NO D	YES 🛛 N	ЪС				
G.	G. SCAQMD SOURCE SPECIFIC RULES:						
Н.	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:		