Section I: AQMD BACT Determinations

Application No.: 413559

Equipment Category – Dryer or Oven

1.	GENERAL INFORMATION			DATE: 9/15/20	04					
Α.	MANUFACTURER: Spray Systems									
В.	TYPE: Direct-Fired Makeup Air Heate Automotive Type Side-Draft Spray E	ed Makeup Air Heater for C. MODE		MD1000 (Spray Booth)						
D.	STYLE: Manual application of coatings by workers within spray booth									
E.	APPLICABLE AQMD RULES: 401, 402									
F.	COST: \$ (NA) SOURCE	E OF COS	ST DATA:							
G.	OPERATING SCHEDULE: 10 HRS/DA	·Υ	4 ^{DA}	AYS/WK	50 ^v	/KS/YR				
2.	EQUIPMENT INFORMATION			APP. NO.: 41355	59					
Α.	FUNCTION: Heats spray booth ventilation air to control booth temperature. This spray booth is used for application of coatings and for drying/curing coated parts used in manufacture of aerial refueling system components. The booth is in use approximately half time on a batch basis with batch times running typically one to three hours. Booth temperature varies from approximately 70F to a maximum of 130F, depending on the operation taking place. The facility operates 4 days/week, two 10-hr shifts per day.									
В.	MAXIMUM HEAT INPUT: 1.9 MMBtu/hr									
D.	BURNER INFORMATION: NO.: 1	TYPE	Low-NO		<u> </u>					
E.	PRIMARY FUEL: Natural Gas		F. OTHER F							
g. 130										
3.	COMPANY INFORMATION			APP. NO.: 41355	59					
Α.	NAME: Sargent Fletcher				B. SIC	3728				
C.	ADDRESS: 9400 East Flair Drive CITY: El Monte		STATE: (CA ^z	^{ZIP:} 917	31				
D.	CONTACT PERSON: Gilbert Tanon			E. PHONE NO.:	526-402	-2205				
4.	PERMIT INFORMATION			APP. NO.: 41355	59					
A.	AGENCY: SCAQMD		B. APPLICAT	rion type: new co	nstructi	on				
C.	AGENCY CONTACT PERSON: Emmanuel Quiz	on		D. PHONE NO.:	909-396	3-2523				
E.	PERMIT TO CONSTRUCT/OPERATE INFORMATION: CHECK IF NO P/C	P/C N P/O N	413559 lo.: F67626		NCE DATE:	5/27/2003 4/6/2004				
F.	START-UP DATE: October 2003									

5.	EMISSION INFORMATION	APP. NO.:	413559		
A.	PERMIT				
A1.	PERMIT LIMIT: Spray booth temperature no	t to exceed 130F. NOx	not to exceed 30)	
	ppmvd@3%O2 (30-Minute average).				
A2.	BACT/LAER DETERMINATION: NOx: 30 ppmvd@	93%O2			
A3.	BASIS OF THE BACT/LAER DETERMINATION:				
B.	CONTROL TECHNOLOGY				
B1.	MANUFACTURER/SUPPLIER: Eclipse Combustion	on			
B2.	TYPE: Nozzle-Mix Low-NOx burner				
B3.	DESCRIPTION: Winnox WX 200				
B4.	CONTROL EQUIPMENT PERMIT APPLICATION DATA:	P/C NO.:	ISSUANCE DATE:		
		P/O NO.:	ISSUANCE DATE:		
B5.	WASTE AIR FLOW TO CONTROL EQUIPMENT:	FLOW RATE:			
	ACTUAL CONTAMINANT LOADING:	BLOWER HP	:		
B6.	WARRANTY: Manufacturer guaranteed 30	ppmvd@3%O2 NOx an	d 5 ppmvd CO.		
B7.	PRIMARY POLLUTANTS: NOx, CO, VOC, PM	10			
B8.	SECONDARY POLLUTANTS:				
B9.	SPACE REQUIREMENT:				
B10.	LIMITATIONS:			B11.	UNUSED
B12.	OPERATING HISTORY: The makeup air heater	has been in regular use	since October 2	003.	
B13.	UNUSED	B14. UNUSED			
C.	CONTROL EQUIPMENT COSTS				
C1.	CAPITAL COST: CHECK IF INSTAL	LATION COST IS INCLUDED IN EQUIP			
	EQUIPMENT: \$ INSTALLATION: \$	$(NA)^{ ext{SOURCE OF COST DATA}}$	A:		
C2.	ANNUAL OPERATING COST: \$ (NA)	SOURCE OF COST DATA	A:		
D.	DEMONSTRATION OF COMPLIANCE				
D1.	STAFF PERMFORMING FIELD EVALUATION:				
	ENGINEER'S NAME: INSP	ECTOR'S NAME:	DATE:		
D2.	COMPLIANCE DEMONSTRATION:				
D3.	VARIANCE: NO. OF VARIANCES: None	DATES:			
	CAUSES:				
D4.	VIOLATION: NO. OF VIOLATIONS: None	DATES:			
	CAUSES:				
D5.	MAINTENANCE REQUIREMENTS:			D6.	UNUSED

5. EMISSION INFORMATION

APP. NO.: 413559

D7. SOURCE TEST/PERFORMANCE DATA RESULTS AND ANALYSIS:

DATE OF SOURCE TEST: 11/10/2003

CAPTURE EFFICIENCY:

DESTRUCTION EFFICIENCY:

OVERALL EFFICIENCY:

SOURCE TEST/PERFORMANCE DATA: 20.76% O2 (dry vol.), 0.23% CO2 (dry vol.), 0.21 ppmvd NOx, 1.3 ppmvd CO---PPMVD@3%O2: 27 NOx, 162 CO

OPERATING CONDITIONS: Normal. Booth temperature 130F.

AQMD Method 100.1. Test report was approved by AQMD Monitoring & Source Test Engineering group. Minimum 20% of analyzer range requirement was waived in this case. Based on USEPA's Method 19, the NOx emission rate is .011 lb/MMBtu using the CO2 F-factor method and .033 lb/MMBtu using the O2 F-factor method. Both are less than the .036 lb/MMBtu emission rate that is equivalent to 30 ppmvd@3%O2.

6. COMMENTS

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