Attachment M Air Pollution Control Device Sheet

(AFTERBURNER SYSTEM)

Control Device ID No. (must match Emission Units Table):

Equipment Information

1.	Manufacturer: Model No.	2.	☐ Thermal Energy Recovery ☐ Recuperative (Conventional) ☐ Catalytic			
3.	Provide diagram(s) of unit describing capture system with duct arrangement and size of duct, air volume, capacity, horsepower of movers. If applicable, state hood face velocity and hood collection efficiency.					
4.	Combustion chamber dimensions:	5.	Stack Dimensions:			
	Length: ft		Height:	ft		
	Diameter: ft		Diameter:	ft		
6.	Cross-sectional area: ft ² Combustion (destruction) efficiency:	7.	Retention or residence time of	materials in		
0.	,	′ ·	combustion chamber:	materiais in		
	Estimated: %		Maximum:	sec		
	Minimum guaranteed: %		Minimum:	sec		
8.	Throat diameter: ft	9.	Combustion Chamber Volume:	ft ³		
10.	Fuel used in burners:	11.	Burners per afterburner:			
	Natural Gas		Number of burners:			
	Fuel Oil, Number:		BTU/hr for burner:	BTU/hr		
	Other, specify:					
12.	Fuel heating value of natural gas: BTU/lb	13.	Flow rate of natural gas:	ft ³ /min		
11		15.	Expected frequency of catalyst replace			
14.	Is a catalyst material used?: Yes No If yes, catalyst material used:		Expected inequality of eathly of replace	vr(s)		
	ii yes, catalyst material useu.	16.	Date catalyst was last replaced:	<u> </u>		
			Month/Year:			
17.	Space Velocity of the catalyst material used:	18.	Catalyst area: ft ²			
	1/hour	19.	Volume of catalyst bed: ft ³			
20.	Minimum loading:	21.	Temperature catalyst bed inlet:	°F		
	Maximum loading:		Temperature catalyst bed outlet:	°F		
22.	22. Explain degradation or performance indicator criteria determining catalyst replacement:					
23.	Heat exchanger used?	24.	Heat exchanger surface area?	ft ²		
	Describe heat exchanger:	-	Average thermal efficiency:	%		
26.	Temperature of gases: After preheat:		°F Before preheat:	°F		
27.	Dilution air flow rate: ft³/minut					
28. Describe method of gas mixing used:						

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Waste Gas (Emission Stream) to be Burned

29.	Name	Quantity Grains of H ₂ S/100 ft ²	Quantity-Dens (LB/hr, ft ³ /hr, et		rce of Material		
			(==,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
30.	Estimate total combust	tibles to afterburner	lb/hr or ACF/hr				
31.	31. Estimated total flow rate to afterburner or catalyst including materials to be burned, carrier gases, auxil						
	fuel, etc.:		ACF/hr, or scfm				
	Total flow rate = Flue g	gas flow rate					
32.	Afterburner operating p	parameters:	During maximum operation of feeding unit(s)	During typical operation of feedi unit(s)	During minimum operation of feeding unit(s)		
	Combustion chamber t	emperature in °F					
	Emission stream gas to	emperature in					
	Combined gas stream	entering catalyst bed in					
	Flue stream leaving the	e catalyst bed					
	Emission stream flow r	rate (scfm)					
	Efficiency (VOC Reduc	ction)	%	%	%		
	Efficiency (Other; spec	ify contaminant)	%	%	%		
33.	33. Inlet Emission stream parameters: Maximum Typical						
	Pressure (mmHg):						
	Heat Content (BTU/scf						
	Oxygen Content (%):						
	Moisture Content (%):						
	Are halogenated organ Are particulates present Are metals present?		☐ No ☐ No ☐ No				
34.	34. For thermal afterburners, is the combustion chamber temperature continuously monitored and recorded? Yes No						
35.	5. For catalytic afterburners, is the temperature rise across the catalyst bed continuously monitored and recorded? Yes No						
36.	6. Is the VOC concentration of exhaust monitored and recorded? Yes No						
37.	7. Describe any air pollution control device inlet and outlet gas conditioning processes (e.g., gas cooling, gas reheating, gas humidification):						
38.	Describe the collection	material disposal system:					
		erburner Control Device in					

Please propose m	g parameters. Please propose	and Testing eporting in order to demonstrate compliance with the testing in order to demonstrate compliance with the RECORDKEEPING:				
REPORTING:		TESTING:				
MONITORING:		ocess parameters and ranges that are proposed to be strate compliance with the operation of this process				
RECORDKEEPING: REPORTING: TESTING:	equipment or air control device. Please describe the proposed recordkeeping that will accompany the monitoring. Please describe any proposed emissions testing for this process equipment on air pollution control device. Please describe any proposed emissions testing for this process equipment on air pollution control device.					
41. Manufacturer's Guaranteed Capture Efficiency for each air pollutant.						
42. Manufacturer's Gua	aranteed Control Efficiency for eac	ch air pollutant.				
43. Describe all operati	ng ranges and maintenance proce	edures required by Manufacturer to maintain warranty.				