## Attachment M Air Pollution Control Device Sheet (WET COLLECTING SYSTEM-SCRUBBER)

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

	Equipment Information				
1.	Manufacturer:		2. Method:		/enturi
					Cyclone Drifice
	Model No.			Other, specify	511100
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.	Provide a scale diagram of the scrubber showing internal construction. Please include packing type and size, spray configurations, baffle plates, and mist eliminators.				
5.	What type of liquid entrainment eliminators or system will be used? Submit a schematic diagram showing thickness, mesh, and material of construction.				
6.	Describe the scrubber's construction material:				
7.	What will be the power requirements of	of the collector	?		
_	Fan HP	P Inlet scrubbing liquid pump: HP			HP
8.	What type of fan(s) will be used?				
	Type of fan blade:	Number of t	plades:	Diameter of blade:	in.
	Also supply a fan curve for each fan to	be used.			
9.	Estimated gas pressure drop at maxim	num flow rate:		inches H <sub>2</sub> O	
Scrubbing Liquor Characteristics					
10.	Scrubbing Liquor			iquor losses (evaporation,	,
10.		Weight %		iquor losses (evaporation,	etc.): 000 ACF gas
10.	Scrubbing Liquor		11. Scrubbing I	iquor losses (evaporation,	,
10.	Scrubbing Liquor Composition		11. Scrubbing I	iquor losses (evaporation, gal/1	000 ACF gas
10.	Scrubbing Liquor Composition		11. Scrubbing I 12. Liquor pres	iquor losses (evaporation, gal/1	000 ACF gas
10.	Scrubbing Liquor Composition 1 2		11. Scrubbing I 12. Liquor pres	iquor losses (evaporation, gal/10 sure to scrubber:	000 ACF gas PSIA
	Scrubbing Liquor Composition 1 2 3		<ol> <li>Scrubbing I</li> <li>Liquor pres</li> <li>Pressure dr</li> </ol>	iquor losses (evaporation, gal/10 sure to scrubber:	000 ACF gas PSIA
	Scrubbing Liquor Composition 1 2 3 4		<ol> <li>Scrubbing I</li> <li>Liquor pres</li> <li>Pressure dr</li> <li>Liquor flow</li> </ol>	iquor losses (evaporation, gal/10 sure to scrubber: rop through scrubber:	000 ACF gas PSIA
	Scrubbing Liquor Composition 1 2 3 4		<ul> <li>11. Scrubbing I</li> <li>12. Liquor pres</li> <li>13. Pressure dr</li> <li>15. Liquor flow Des</li> </ul>	iquor losses (evaporation, gal/10 sure to scrubber: rop through scrubber: rates to scrubber:	000 ACF gas PSIA in. H <sub>2</sub> O
14.	Scrubbing Liquor Composition 1 2 3 4 Source of liquor (explain):	Weight %	<ul> <li>11. Scrubbing I</li> <li>12. Liquor pres</li> <li>13. Pressure dr</li> <li>15. Liquor flow</li> <li>Des</li> <li>Ave</li> </ul>	iquor losses (evaporation, gal/10 sure to scrubber: rop through scrubber: rates to scrubber: sign maximum:	000 ACF gas PSIA in. H <sub>2</sub> O gal/min
14.	Scrubbing Liquor Composition 1 2 3 4	Weight %	<ul> <li>11. Scrubbing I</li> <li>12. Liquor pres</li> <li>13. Pressure dr</li> <li>15. Liquor flow</li> <li>Des</li> <li>Ave</li> </ul>	iquor losses (evaporation, gal/10 sure to scrubber: rop through scrubber: rates to scrubber: sign maximum:	000 ACF gas PSIA in. H <sub>2</sub> O gal/min
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14.	Scrubbing Liquor Composition 1 2 3 4 Source of liquor (explain):	Weight %	<ul> <li>11. Scrubbing I</li> <li>12. Liquor pres</li> <li>13. Pressure dr</li> <li>15. Liquor flow</li> <li>Des</li> <li>Ave</li> </ul>	iquor losses (evaporation, gal/10 sure to scrubber: rop through scrubber: rates to scrubber: sign maximum:	000 ACF gas PSIA in. H <sub>2</sub> O gal/min
14.	Scrubbing Liquor Composition 1 2 3 4 Source of liquor (explain): Describe system to be used to supply	Weight %	<ul> <li>11. Scrubbing I</li> <li>12. Liquor pres</li> <li>13. Pressure dr</li> <li>15. Liquor flow</li> <li>Des</li> <li>Ave</li> </ul>	iquor losses (evaporation, gal/10 sure to scrubber: rop through scrubber: rates to scrubber: sign maximum:	000 ACF gas PSIA in. H <sub>2</sub> O gal/min
14.	Scrubbing Liquor Composition 1 2 3 4 Source of liquor (explain):	Weight %	<ul> <li>11. Scrubbing I</li> <li>12. Liquor pres</li> <li>13. Pressure dr</li> <li>15. Liquor flow</li> <li>Des</li> <li>Ave</li> </ul>	iquor losses (evaporation, gal/10 sure to scrubber: rop through scrubber: rates to scrubber: sign maximum:	000 ACF gas PSIA in. H <sub>2</sub> O gal/min

18. If the liquor is to be recirculated, describe any treatment performed:							
19.	Data for Venturi Scrubber:			20. Data	for Packed Tow	ers:	
	Throat Dimensions:				Type of Pack	ing:	
	(Specify Units)	ft/sec			Superficial G	as Velocity th	rough Bed:
	Throat Velocity:	11/560					
		Gas	Stream C	haracteris			
21.	Gas flow into the collector:			22. Gas s	stream temperat		
	ACF @	°F and	PSIA		Inlet:		°F
23	Gas flow rate:			24 Partic	Outle ulate Grain Loa		°F /scf
	Design Maximum:	ACFM			Inlet:		
	Average Expected:	ACFM			Outle		
25.	Emission rate of each pollu		o and out	of collecto		÷L.	
			N		OL	Л	Guaranteed
	Pollutant						Minimum Collection
		lb/hr	grain	s/act	lb/hr	grains/acf	Efficiency
	A						
	В						
	С						
	D						
	-						
	E						
26.	Type of pollutant(s) control	led: 🗌 SO,	¢		Odor		
	Particulate (type):				Other:		
27.	By what method were the u	incontrolled emis	sions cal	culated?	Material Ba	alance	Stack Test
	Pilot Test	Other:					
28.	Dimensions of stack:	Height		ft.	Diame	eter	ft
29.	Supply an equilibrium curve	e and/or solubility	/ data (at	various ter	mperatures) for	the proposed	system.
30.	Supply a curve showing pr rating of collector.	oposed collectio	n efficier	ncy versus	gas volume fro	m 25 to 100 p	percent of design

Particulate Distribution				
31. Complete the table:	Particle Size Distribution at Inlet to Collector	Fraction Efficiency of Collector		
Particulate Size Range (microns)	Weight % for Size Range	Weight % for Size Range		
0 – 2				
2 – 4				
4 - 6				
6 – 8				
8 – 10				
10 – 12				
12 – 16				
16 – 20				
20 - 30				
30 - 40				
40 - 50				
50 - 60				
60 – 70				
70 – 80				
80 - 90				
90 – 100				
>100				
32. Describe any air pollution control reheating, gas humidification):		ng processes (e.g., gas cooling, gas		
33. Describe the collection material di				
34. Have you included <b>Wet Collect</b> Sheet?	ing (Scrubber) Control Device in th	ne Emissions Points Data Summary		

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: TESTING:	
MONITORING:	monitored in order to demons	process parameters and ranges that are proposed to be trate compliance with the operation of this process	
RECORDKEEPING: REPORTING:			
TESTING:	Please describe any proposed pollution control device.	emissions testing for this process equipment on air	
	aranteed Capture Efficiency for ea		
37. Manufacturer's Gua	aranteed Control Efficiency for eac	h air pollutant.	
38. Describe all operat	ing ranges and maintenance proce	edures required by Manufacturer to maintain warranty.	