

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

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

Equipment Information

1. Manufacturer: Model No.	2. Method: <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Packed Bed</td> <td><input type="checkbox"/> Venturi</td> </tr> <tr> <td><input type="checkbox"/> Spray Tower</td> <td><input type="checkbox"/> Cyclone</td> </tr> <tr> <td><input type="checkbox"/> Mechanical</td> <td><input type="checkbox"/> Orifice</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> Other, specify</td> </tr> </table>	<input type="checkbox"/> Packed Bed	<input type="checkbox"/> Venturi	<input type="checkbox"/> Spray Tower	<input type="checkbox"/> Cyclone	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Orifice	<input type="checkbox"/> Other, specify	
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<input type="checkbox"/> Other, specify									
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 the collector?									
Fan	HP								
Inlet scrubbing liquid pump:	HP								
8. What type of fan(s) will be used?									
Type of fan blade:	Number of blades:								
	Diameter of blade: in.								
Also supply a fan curve for each fan to be used.									
9. Estimated gas pressure drop at maximum flow rate: inches H ₂ O									

Scrubbing Liquor Characteristics

10. Scrubbing Liquor <table style="width: 100%; border: none;"> <thead> <tr> <th style="width: 50%; text-align: center;">Composition</th> <th style="width: 50%; text-align: center;">Weight %</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td></td> </tr> <tr> <td style="text-align: center;">2</td> <td></td> </tr> <tr> <td style="text-align: center;">3</td> <td></td> </tr> <tr> <td style="text-align: center;">4</td> <td></td> </tr> </tbody> </table>	Composition	Weight %	1		2		3		4		11. Scrubbing liquor losses (evaporation, etc.): <div style="text-align: right;">gal/1000 ACF gas</div>
Composition	Weight %										
1											
2											
3											
4											
12. Liquor pressure to scrubber: PSIA											
13. Pressure drop through scrubber: in. H ₂ O											
14. Source of liquor (explain):	15. Liquor flow rates to scrubber: <table style="width: 100%; border: none;"> <tr> <td style="text-align: right;">Design maximum:</td> <td style="text-align: right;">gal/min</td> </tr> <tr> <td style="text-align: right;">Average expected:</td> <td style="text-align: right;">gal/min</td> </tr> </table>	Design maximum:	gal/min	Average expected:	gal/min						
Design maximum:	gal/min										
Average expected:	gal/min										
16. Describe system to be used to supply liquor to collector:											
17. Give the expected solids content of the liquor:											

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 device inlet and outlet gas conditioning processes (e.g., gas cooling, gas reheating, gas humidification):			
33. Describe the collection material disposal system:			
34. Have you included Wet Collecting (Scrubber) Control Device in the Emissions Points Data Summary Sheet?			

35. Proposed Monitoring, Recordkeeping, Reporting, and Testing

Please propose monitoring, recordkeeping, and reporting in order to demonstrate compliance with the proposed operating parameters. Please propose testing in order to demonstrate compliance with the proposed emissions limits.

MONITORING:

RECORDKEEPING:

REPORTING:

TESTING:

MONITORING: Please list and describe the process parameters and ranges that are proposed to be monitored in order to demonstrate compliance with the operation of this process equipment or air control device.

RECORDKEEPING: Please describe the proposed recordkeeping that will accompany the monitoring.

REPORTING: Please describe any proposed emissions testing for this process equipment on air pollution control device.

TESTING: Please describe any proposed emissions testing for this process equipment on air pollution control device.

36. Manufacturer's Guaranteed Capture Efficiency for each air pollutant.

37. Manufacturer's Guaranteed Control Efficiency for each air pollutant.

38. Describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty.