

YOUR STATION SCORECARD

	Client:	YOUR STATION			
	Location:	ANYWHERE USA		2/10/2020	
	Application:	Cold-side ESP			
		Item	Units	Unit #2	Recomnd'd
1	Operating & Performance Data	Gas Volume	acfm	800000	
2		Gas Velocity	ft/sec	4.34	< 4.0
3		Gas Temperature	°C		
4			°F	359	< 320
5		Inlet Dust Loading	gr/dscf		
6		Treatment Time	sec	8.3	> 11
7		Aspect Ratio	ft/ft	1.03	> 1.2
8		Specific Collecting Area (SCA) ₁₂	ft ² / kacfm	N/A	
9		Specific Collecting Area (SCA) ₉	ft ² / kacfm	369	> 380
10	Precipitator Arrangement	Preceding Dust Collectors - Type		NONE	
11		No.& Arrangement	No.	N/A	
12		No. of Precipitator Boxes (ESP)	No.	1	
13		No. of Chambers/ESP	No.	3	
14		No. Electrical Fields/ESP	No.	4	4 or greater
15		No. Electrical Cells/Transformer	No.	1	
16		No. Gas Passages/Chamber	No.	39	< 30
17		Width of Gas Passage	inches	9	
18	Collecting System	Nom. Width	feet	9	
19		Nom. Height	feet	36	
20		Treatment Length	feet	36	
21		Collecting Area/Transformer	ft ²	25,272	< 18,000
22		Collecting Area/Box	ft ²	294,840	
23		Collecting Area/Unit	ft ²	294,840	
24	High Voltage System	HV Electrode Type		Wght'd Wire	Rigid Elec.
25		HV Electrode Type & Thickness	inch	0.109" dia.	
26		No. Support Insulators/ Frame	No.	2	
27		HV Frame Total/Mech. Field	No.	1	
28	Transformer-Rectifiers	No. Total/ESP	No.	12	
29		No. Total/Field	No.	3	
30		Rating Elec. Field 1-2	KV/mA	45/1200	45KV
31		Rating Elec. Field 3-8	KV/mA	45/1500	45KV
32		Current Density (microAmps/ft ²)			
33		Field 1-2	as noted	48.8	10-25
34		Field 3-8	as noted	61.0	25-70
35		Type of Power Supply		T/R	
36	Rapping System	Type Collecting System Rapper		MIGI	
37		No. of Plate Rappers/Box	No.	160	
38		Collecting Area / Rapper	ft ²	1843	< 1500
39		Type HV System Rapper		ELEC. VIB.	
40		No. of HV Rappers/HV Frame	No.	2	
41		Linear Ft./HV Rapper	Ft.	4212	< 4000
42		Type Distribution Plate Rapper		MIGI	
43		No. of Dist.Plate Rapper/Ch.	No.		

BASED ON COLLECTING GOOD RESISTIVITY DUST