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**TABLE 2-1  
EMISSION RATES AND CONCENTRATIONS**

	REP 1	REP 2	REP 3	AVERAGE
<b>Cupola Scrubber Stack</b>				
<u>Concentration, gr/DSCF</u>				
Filterable Particulate	0.0320	0.0368	0.0344	0.0344
<b>Metals</b>				
Arsenic	0	0	0	0
Cadmium	3.70E-05	3.55E-05	2.69E-05	3.31E-05
Chromium	8.68E-06	9.27E-06	7.07E-06	8.34E-06
Lead	0.00141	0.00291	0.00131	0.00188
Mercury	1.40E-05	7.01E-06	2.58E-06	7.86E-06
Nickel	ND (3.21E-06)	ND (2.44E-06)	ND (4.42E-06)	ND (3.36E-06)
<u>Concentration, ppmvd</u>				
Carbon Monoxide	286.7	115.8	136.6	179.7
Nitrogen Oxides as NO <sub>2</sub>	45.2	43.7	35.9	41.6
Sulfur Dioxide	0.1	0.0	0.1	0.0667
THC as Methane	13.8	50.7	46.1	36.9
<u>Emission Rate, lb/hr</u>				
Filterable Particulate	12.1	14.2	13.1	13.1
Carbon Monoxide	55.7	22.8	26.7	35.1
<b>Metals</b>				
Arsenic	0	0	0	0
Cadmium	0.0145	0.0145	0.0104	0.0131
Chromium	0.00340	0.00380	0.00272	0.00331
Lead	0.554	1.19	0.503	0.749
Mercury	5.50E-03	2.87E-03	9.93E-04	3.12E-03
Nickel	ND (1.26E-03)	ND (1.00E-03)	ND (1.70E-03)	ND (1.32E-03)
Nitrogen Oxides as NO <sub>2</sub>	14.4	14.1	11.5	13.3
Sulfur Dioxide	0.04	0	0.04	0.0267
THC as Methane	1.54	5.71	5.16	4.14

Melting Rate: 50 Tons/Hr.

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TABLE 1-1  
TEST LOG

Test Location	Sampling Objective <sup>c</sup>	Sampling Method	Test Date	Rep 1	Rep 2	Rep 3
Cupola Scrubber Stack	O <sub>2</sub> & CO <sub>2</sub>	EPA 3	05/04 05/05	CSS-M3-1 - -	CSS-M3-2 - -	- - CSS-M3-3
	As, Ca, Cr, Pb, Hg, & Ni	EPA 29	05/04 05/05	CSS-M29-1 - -	CSS-M29-2 - -	- - CSS-M29-3
	O <sub>2</sub> & CO <sub>2</sub>	EPA 3	05/04 05/05	CSS-M3-2 - -	CSS-M3-3 - -	- - CSS-M3-4
	Particulate	NJATM 1	05/04 05/05	CSS-NJ1-2 - -	- - CSS-NJ1-3	- - CSS-NJ1-4
	Flue Gas Velocity* and moisture	EPA 1-4	05/05	CSS-M4-1	CSS-M4-2	CSS-M4-3
	CO <sub>2</sub> , CO, NO <sub>x</sub> , O <sub>2</sub> , SO <sub>2</sub> , & THC	EPA 3A, 6C, 7E, & 10	05/05	CSS-CEM-1	CSS-CEM-2	CSS-CEM-3
Melt Center Emission Control Stack	O <sub>2</sub> & CO <sub>2</sub>	EPA 3	05/04	MECS-M3-1	MECS-M3-2	MECS-M3-3
	As, Ca, Cr, Pb, & Hg	EPA 29	05/04	MECS-M29-1	MECS-M29-2	MECS-M29-3
	Particulate	NJATM 1	05/04	MECS-NJ1-1	MECS-NJ1-2	MECS-NJ1-3
	O <sub>2</sub> & CO <sub>2</sub>	EPA 3	05/05	MEMC-201A/M3-1	MEMC-201A/M3-2	MEMC-201A/M3-3
	Particulate & Particulate $\leq 10 \mu\text{m}$	EPA 201A & 202	05/05	MECS-M201A/202-1	MECS-M201A/202-2	MECS-M201A/202-3
	CO <sub>2</sub> , CO, NO <sub>x</sub> , O <sub>2</sub> , SO <sub>2</sub> , & THC	EPA 3A, 6C, 7E, & 10	05/05	MECS-CEM-1	MECS-CEM-2	MECS-CEM-3

\* Performed in conjunction with EPA 3A, 6C, 7E & 10