AP32 Section:	12.5.1
Background Chapter	3
Reference:	43
Title:	Stack test report summary sheets for IPSCO Steel, Mobile, AL. Testing conducted on October 2, 2001. Received from Doug Carr, Alabama Department of Environmental Management on April 10, 2002.

Stack Test Report

Report generated on 11/05/2001

Facility Name: **IPSCO Steel** Facility Number: **503-8065 X001**

Source Name: **Electric Arc Furnace** Title V?: Yes Test Date: **10/02/2001**

Source Information

Pollutants	Allowables	Regulations	Subpart/Chapter
PM	0.0052 gr/dscf	NSPS	AAa
Opacity	3%	NSPS	AAa

ESB inspector: **DKC** Signature: _____ Date: 11-8-01

Observation Information

Test Methods: **5, 6c, 9**

Test Company: AAS Initial Test?: Yes

EMS Observer: **KF** ESB Observer: DKC Activity: STACK TEST

Evaluation Information

Report Received by ADEM: Evaluator:

Report Submitted to EMS: Date Evaluation Finished

Pollutant	Run #1	Run #2	Run #3	Average	Units
PM	.0004	.0004	.0002	.0003	gr/dscf
SO_2	0.2300	0.5800	0.4000	0.4049	lb/Ton
SO_2	34.1582	95.6486	60.3406	63.3825	lb/Hr

Baghouse VE 0.0%

Melt Shop VE 3.3%

D.H.S. VE 0.0%

Signature: K Flowers Date: 11-08-01

FACILITY NAME: IPSCO
FACILITY NUMBER: 503-8065-X001
EVALUATION BY: KF

TEST DATE: 10/02/01
TESTED BY: AAS
EVAL. DATE: 11/08/2001

METHOD 6C - SULFUR DIOXIDE EMISSIONS

MONITOR SPAN = 25

RANGE	Cyl. (ppm)	Mon. (ppm)	% OF SPAN	
ZERO	0	-0.03	0.12%	
MID	12.07	12.13	0.24%	
HIGH	24.8	24.80	0.00%	
ZERO	0	-0.22	0.88%	RECAL
MID	12.07	12.36	1.16%	
HIGH	24.8	24.63	0.68%	

< 2% Allowable Calibration Error
< 3% Allowable Drift
< 5% Allowable System Bias

	UPSCALE					ZERO				
RUN	INITIAL SYSTEM RESPONSE (ppm)	INITIAL BIAS (% OF SPAN)	FINAL SYSTEM RESPONSE (ppm)	FINAL BIAS (% OF SPAN)	MONITOR DRIFT (% OF SPAN)	INITIAL SYSTEM RESPONSE (ppm)	INITIAL BIAS (% OF SPAN)	FINAL SYSTEM RESPONSE (ppm)	FINAL BIAS (% OF SPAN)	MONITOR DRIFT (% OF SPAN)
1	12.13	0.0%	11.84	1.2%	1.2%	-0.03	0.00%	0.01	0.16%	0.16%
2	12.36	0.0%	12.33	0.1%	0.1%	-0.22	0.00%	-0.07	0.60%	0.60%
3	12.33	0.1%	12.06	1.2%	1.1%	-0.07	0.60%	-0.19	0.12%	0.48%

EMISSIONS

RUN #	1	2	3	AVG	
Cs	3.68	10.94	6.89	5.29	PPM
Cs (CORR)	3.71	10.71	6.87	2.00	PPM

FLOW RATE (FROM FLOW SHEET)	923639.0	896476.0	881237.0	900450.7	DSCFM
PRODUCTION	149.40	164.50	149.10	154.33	TONS/HR
MASS RATE	34.1582	95.6486	60.3406	63.3825	LB/HR
EMISSIONS	0.23	0.58	0.40	0.4049	LB/TON

COMPANY: IPSCO STEEL
FAC NO: 503-8065-X001
EVAL. BY: KF
SOURCE: ELECTRIC ARC FURNACE

TEST DATE: 10/02-03/01
TESTED BY: AAS
EVAL. DATE: 11/06/01

RUN #	1	2	3
Start Time	1507	750	1359
F FACTOR			
^H("H2O)	0.998	1.331	1.283
SQRT ^p	0.623	0.601	0.590
tm	95	99	104
ts	176	173	170
Pb	29.85	29.97	29.97
Ps	29.83	29.95	29.95
Vm	166.894	206.534	190.625
Y	0.994	0.994	0.994
%CO2	0.0	0.0	0.0
%O2	20.9	20.9	20.9
%CO	0.00	0.00	0.00
Vlc (ml)	62.9	70.4	65.7
Mn (mg) PM	3.60	5.50	2.80
Cp	0.840	0.840	0.840
As (sqft)	490.87	490.87	490.87
dn	0.246	0.269	0.269
time	260.0	292.0	270.0

	RUN 1	RUN 2	RUN 3	AVERAGE	
An	3.30E-04	3.95E-04	3.95E-04		
Pm	29.92	30.07	30.06		
Md	28.84	28.84	28.84		
Vwstd	2.961	3.314	3.092		
Vmstd	157.805	194.860	178.045		
Bws	1.8	1.7	1.7		
Bws THEO.	46.0	43.1	40.3		%
Bws MEAS.	1.8	1.7	1.7		%
Ms	28.64	28.65	28.65		%
vs	38.6	37.1	36.3	37.3	fps
Q	1135969	1091421	1068332	1098574	acf/m
Qstd	923639	896476	881237	900451	sdcf/m
vn	194.160	237.329	215.932		

% ISOKINETIC	98	93	93		
Cs	0.0004	0.0004	0.0002	0.0003	gr/sdcf
PMR	2.7814	3.3400	1.8293	2.6502	#/hr