U. S. Steel
Clairton Works
400 State Street
Clairton, PA 15025-1855

October 20, 1993

Allegheny County Health Department
Department of Air Quality
301 Thirty-ninth Street
Pittsburgh, PA 15201

ATTN: Mr. Edwin J. Taylor

SUBJECT: Quarterly Boiler CEM Report
USS Clairton Works

Dear Mr. Taylor:

I have enclosed with this letter the USS Clairton Works #2 Boiler CEM report for the third quarter of 1993. In addition, I have attached a copy of an explanation for the extended period of nonavailability which occurred in the month of August.

Please refer questions regarding this report to Mr. William C. Graeser at 233-1467.

Very truly yours,

H. R. McCollum
Manager-Environmental Control
USS Clairton Works

HRM/BAC
Attachment

ED_002508A_00000603-00001

Quarterly Opacity Monitor Data

Boiler #2

Opacity Monitor Data		JULY	1993 AUG	SEPT
Time >20% <60% for More than 3 min/hr	Minutes	12	18	0
Percent of service time in month >20% <60% for	Percent	0.03	0.04	0
Time >60%	Minutes	3	7	0
Percent of service time in month >60%	Percent	0.01	0.02	0
Opacity Monitor Availability	Percent	98.02	79.36	99.98

Opacity Monitor

Run Number	Calibration Filter (%)	Analyzer Reading %	Arithmetic Difference (%) Low	Medium	High
1	18.8	19.6	0.8		
1	38.9	38.9		0	
1	60.0	60.6			0.6
2	18.8	20.8	2.0		
2	38.9	38.9		0	
2	60.0	60.6			0.6
3	18.8	20.8	2.0		
3	38.9	38.1		0.8	
3	60.0	60.6			0.6
4	18.8	19.7	0.9		
4	38.9	38.1		0.8	
4	60.0	60.6			0.6
5	18.8	19.6	0.8		
5	38.9	38.5		0.4	
5	60.0	60.4			0.4
Arithmetic Mean			1.3	0.4	0.56
Confidence Coefficient (interval) cc			0.79	0.50	0.11
Calibration Error x + cc			2.25	1.87	0.47

BACKUP.XLS

0:00 7/ 1/93 through 23:59 7/31/93

Date	Hour	Reason Codes Exc	Reason Codes Inv	# Min 20-59	# Min >59	1 Max Min % Opac	4 Max Min % Opac
7/ 1/93	00		0				
7/ 2/93	01		99				
7/ 2/93	14	1		1	1	117	0
7/ 2/93	15		0				
7/ 3/93	14		99				
7/ 6/93	09	12		6	1	61	38
7/ 6/93	10	12		26	11	61	61
7/ 6/93	11	12		5	0	58	34
7/ 6/93	13	1		1	2	117	0
7/ 9/93	15		0				
7/10/93	19	24	Power Outage	0	59	117	117
7/10/93	20	24	Electrical Storm	0	60	117	117
7/10/93	21	24		1	18	117	117
7/12/93	09	1		7	0	36	31
7/28/93	11		0				
7/30/93	11	1		5	0	28	23

--- [illegible] Standard Report Form ---
[illegible]: # TWO UNIT BOILER
CEMS ID #: 1100M-0291
[illegible] Corporation -- Clairton, PA 15025 USA
0:00 7/ 1/93 Through 23:59 7/31/93

Reason Codes for Excess Emissions

1 = Fuel Related
2 = Control Equipment
3 = Start Up
4 = Shut Down
5 = Operation Related
6 = Fuel Related Coal Burning #1 Unit
7 = Precipitator Failure #2 Unit
8 = Clean Lenses/Alignment
9 = Boiler Maintenance
10 = Light Path Obstruction
11 = CEMS Source Lamp Failure
12 = Quarterly Audit
13 = Blowing Soot

Reason Codes for Invalid Hour

14 = Excess Drift, Pollutant
15 = Excess Drift, Diluent
16 = Process Down
17 = CEMS Recalibration
18 = Preventative Maintenance
19 = Pollutant Analyzer Malfunction
20 = Diluent Analyzer Malfunction
21 = Data Handling System Malfunction
22 = Sample Interface Malfunction
23 = Corrective Action
24 = Other
25 =
26 =
27 =
28 =
99 = Data through this hour

Quarterly Calibration Error Data -- Low = 2.25
Mid = 1.87
High = 0.47

Hours of Source Downtime -- 0.00

To the best of my knowledge, the information on this page represents true and accurate data.

Signed

Name: MR. THOMAS E. SCHUMACHER
Title: AREA MANAGER, UTILITIES

From 0:00 7/ 1/93 through 23:59 7/31/93

Inc # 1 Duration Hrs: 14.17
CAUSE: (0)
COMMENT: (0)
Beginning: 7/ 1/93 0:00 Ending: 7/ 1/93 14:10

Inc # 2 Duration Hrs: 0.10
CAUSE: (0)
COMMENT: (0)
Beginning: 7/ 7/93 9:47 Ending: 7/ 7/93 9:53

Inc # 3 Duration Hrs: 0.23
CAUSE: (0)
COMMENT: (0)
Beginning: 7/ 9/93 15:30 Ending: 7/ 9/93 15:44

Inc # 4 Duration Hrs: 0.02
CAUSE: (0)
COMMENT: (0)
Beginning: 7/23/93 13:16 Ending: 7/23/93 13:17

Inc # 5 Duration Hrs: 0.03
CAUSE: (0)
COMMENT: (0)
Beginning: 7/23/93 13:25 Ending: 7/23/93 13:27

Inc # 6 Duration Hrs: 0.02
CAUSE: (0)
COMMENT: (0)
Beginning: 7/23/93 13:28 Ending: 7/23/93 13:29

Inc # 7 Duration Hrs: 0.03
CAUSE: (0)
COMMENT: (0)
Beginning: 7/23/93 13:32 Ending: 7/23/93 13:34

Inc # 8 Duration Hrs: 0.02
CAUSE: (0)
COMMENT: (0)
Beginning: 7/23/93 13:38 Ending: 7/23/93 13:39

Inc # 9 Duration Hrs: 0.02
CAUSE: (0)
COMMENT: (0)
Beginning: 7/23/93 13:43 Ending: 7/23/93 13:44

Inc # 10 Duration Hrs: 0.02
CAUSE: (0)
COMMENT: (0)
Beginning: 7/23/93 13:48 Ending: 7/23/93 13:49

Inc # 11 Duration Hrs: 0.02
CAUSE: (0)
COMMENT: (0)
Beginning: 7/23/93 13:51 Ending: 7/23/93 13:52

Inc # 12 Duration Hrs: 0.03
CAUSE: (0)
COMMENT: (0)
Beginning: 7/28/93 7:51 Ending: 7/28/93 7:53

--- CEMS Downtime Report for ---

rrom 0:00 7/ 1/93 Through 23:59 7/31/93

Inc # 13 Duration Hrs: 0.02
CAUSE: (0)
COMMENT: (0)
Beginning: 7/28/93 8:59 Ending: 7/28/93 9:00

Inc # 14 Duration Hrs: 0.03
CAUSE: (0)
COMMENT: (0)
Beginning: 7/28/93 11:13 Ending: 7/28/93 11:15

--- Opacity CEMS Standard Report Form ---

--- Opacity CEMS Standard Report Form ---
Source: # TWO UNIT BOILER
CEMS ID #: 1100M-0291
USX Corporation -- Clairton, PA 15025 USA
0:00 8/ 1/93 Through 23:59 8/31/93

Date	Hour	Reason Codes Exc	Reason Codes Inv	# Min 20-59	# Min >59	1 Max Min % Opac	4 Max Min % Opac
8/11/93	08		0				
8/17/93	17		99				
8/20/93	11	1		18	7	61	61
8/24/93	09	12		9	2	61	39
8/24/93	10	12		31	7	61	61
8/24/93	11	12		2	0	57	0
8/26/93	14		0				
8/31/93	17		0				
8/31/93	18		99				

--- Opacity CEMS Standard Report Form ---
Source: # TWO UNIT BOILER
CEMS ID #: 1100M-0291
USX Corporation -- Clairton, PA 15025 USA
0:00 8/ 1/93 Through 23:59 8/31/93

Reason Codes for Excess Emissions

1 = Fuel Related
2 = Control Equipment
3 = Start Up
4 = Shut Down
5 = Operation Related
6 = Fuel Related Coal Burning #1 Unit
7 = Precipitator Failure #2 Unit
8 = Clean Lenses/Alignment
9 = Boiler Maintenance
10 = Light Path Obstruction
11 = CEMS Source Lamp Failure
12 = Quarterly Audit
13 = Blowing Soot

Reason Codes for Invalid Hour

14 = Excess Drift, Pollutant
15 = Excess Drift, Diluent
16 = Process Down
17 = CEMS Recalibration
18 = Preventative Maintenance
19 = Pollutant Analyzer Malfunction
20 = Diluent Analyzer Malfunction
21 = Data Handling System Malfunction
22 = Sample Interface Malfunction
23 = Corrective Action
24 = Other
25 =
26 =
27 =
28 =
99 = Ditto through this hour

Quarterly Calibration Error Data -- Low = 2.25
Mid = 1.87
High = 0.47

Hours of Source Downtime -- 0.00

To the best of my knowledge, the information on this page represents true and accurate data.

Signed

Name: MR. THOMAS E. SCHUMACHER
Title: AREA MANAGER, UTILITIES

--- CEMS Downtime Report for ---
Unit #2 Stack Opacity % (1-Minute)
USX Corporation -- Clairton, PA 15025 USA
From 0:00 8/ 1/93 Through 23:59 8/31/93

Inc # 1 Duration Hrs: 152.77
CAUSE: (0)
COMMENT: (0)
Beginning: 8/11/93 8:14 Ending: 8/17/93 17:00

Inc # 2 Duration Hrs: 0.02
CAUSE: (0)
COMMENT: (0)
Beginning: 8/17/93 17:05 Ending: 8/17/93 17:06

Inc # 3 Duration Hrs: 0.28
CAUSE: (0)
COMMENT: (0)
Beginning: 8/17/93 17:09 Ending: 8/17/93 17:26

Inc # 4 Duration Hrs: 0.02
CAUSE: (0)
COMMENT: (0)
Beginning: 8/20/93 4:59 Ending: 8/20/93 5:00

Inc # 5 Duration Hrs: 0.02
CAUSE: (0)
COMMENT: (0)
Beginning: 8/20/93 5:03 Ending: 8/20/93 5:04

Inc # 6 Duration Hrs: 0.13
CAUSE: (0)
COMMENT: (0)
Beginning: 8/20/93 5:06 Ending: 8/20/93 5:14

Inc # 7 Duration Hrs: 0.02
CAUSE: (0)
COMMENT: (0)
Beginning: 8/20/93 5:16 Ending: 8/20/93 5:17

Inc # 8 Duration Hrs: 0.08
CAUSE: (0)
COMMENT: (0)
Beginning: 8/20/93 5:18 Ending: 8/20/93 5:23

Inc # 9 Duration Hrs: 0.20
CAUSE: (0)
COMMENT: (0)
Beginning: 8/20/93 6:39 Ending: 8/20/93 6:51

Inc # 10 Duration Hrs: 0.02
CAUSE: (0)
COMMENT: (0)
Beginning: 8/20/93 6:53 Ending: 8/20/93 6:54

Inc # 11 Duration Hrs: 0.02
CAUSE: (0)
COMMENT: (0)
Beginning: 8/20/93 6:58 Ending: 8/20/93 6:59

Duration Hrs: 0.02
CAUSE: (0)
COMMENT: (0)
Beginning: 8/20/93 7:00 Ending: 8/20/93 7:01

--- CEMS Downtime Report for ---
Unit #2 Stack Opacity % (1-Minute)
USX Corporation -- Clairton, PA 15025 USA
From 0:00 8/ 1/93 Through 23:59 8/31/93

Inc # 13 Duration Hrs: 0.05
CAUSE: (0)
COMMENT: (0)
Beginning: 8/20/93 7:05 Ending: 8/20/93 7:08

Inc # 14 Duration Hrs: 0.03
CAUSE: (0)
COMMENT: (0)
Beginning: 8/20/93 7:10 Ending: 8/20/93 7:12

Inc # 15 Duration Hrs: 0.02
CAUSE: (0)
COMMENT: (0)
Beginning: 8/20/93 7:13 Ending: 8/20/93 7:14

Inc # 16 Duration Hrs: 0.02
CAUSE: (0)
COMMENT: (0)
Beginning: 8/22/93 23:14 Ending: 8/22/93 23:15

Inc # 17 Duration Hrs: 0.02
CAUSE: (12) REBOOT COMPUTER
COMMENT: (0)
Beginning: 8/26/93 14:39 Ending: 8/26/93 14:40

Opacity CEMS Standard Report Form ---
Source: # TWO UNIT BOILER
CEMS ID #: 1100M-0291
USX Corporation -- Clairton, PA 15025 USA
0:00 9/ 1/93 Through 23:59 9/30/93

Date	Hour	Reason Codes Exc	Reason Codes Inv	# Min 20-59	# Min >59	1 Max Min % Opac	4 Max Min % Opac
9/ 3/93	15		0				
9/24/93	18		0				

--- Opacity CEMS Standard Report Form ---
Source: # TWO UNIT BOILER
CEMS ID #: 1100M-0291
USX Corporation -- Clairton, PA 15025 USA
0:00 9/ 1/93 Through 23:59 9/30/93

Reason Codes for Excess Emissions

1 = Fuel Related
2 = Control Equipment
3 = Start Up
4 = Shut Down
5 = Operation Related
6 = Fuel Related Coal Burning #1 Unit
7 = Precipitator Failure #2 Unit
8 = Clean Lenses/Alignment
9 = Boiler Maintenance
10 = Light Path Obstruction
11 = CEMS Source Lamp Failure
12 = Quarterly Audit
13 = Blowing Soot

Reason Codes for Invalid Hour

14 = Excess Drift, Pollutant
15 = Excess Drift, Diluent
16 = Process Down
17 = CEMS Recalibration
18 = Preventative Maintenance
19 = Pollutant Analyzer Malfunction
20 = Diluent Analyzer Malfunction
21 = Data Handling System Malfunction
22 = Sample Interface Malfunction
23 = Corrective Action
24 = Other
25 =
26 =
27 =
28 =
59 = Ditto through this hour

Quarterly Calibration Error Data -- Low = 2.25
Mid = 1.87
High = 0.47

Hours of Source Downtime - 2.00

To the best of my knowledge, the information on this page represents true and accurate data.

Signed

Name: MR. THOMAS E. SCHUMACHER
Title: AREA MANAGER, UTILITIES

--- Data Acquisition System --- Downtime Report ---

USX Corporation --- Clairton, PA 15025 USA

From 0:00 9/ 1/93 Through 23:59 9/30/93

Incident No: 1	Duration Hrs: 0.02		
Beginning:	9/ 3/93 15:54	Ending:	9/ 3/93 15:56
Incident No: 2	Duration Hrs: 0.02		
Beginning:	9/10/93 10:08	Ending:	9/10/93 10:10
Incident No: 3	Duration Hrs: 0.02		
Beginning:	9/10/93 10:27	Ending:	9/10/93 10:29
Incident No: 4	Duration Hrs: 0.07		
Beginning:	9/10/93 10:33	Ending:	9/10/93 10:38
Incident No: 5	Duration Hrs: 0.05		
Beginning:	9/24/93 0:51	Ending:	9/24/93 0:55
Incident No: 6	Duration Hrs: 0.00		
Beginning:	9/27/93 16:11	Ending:	9/27/93 16:12

MEMO

Date: August 19,1993

From: Leonard M. Elias
Luther K. Gwaley
Technical Services
U. S. Steel, MS #22
Clairton Works

To: Bernard Clark
Chester Engineers
U. S. Steel, MS #71
Clairton Works

Subject: Boilerhouse
DAS Failure

The Lear Siegler Data Acquisition System at #2 Boilerhouse failed on August 11, 1993 at 0813 hours, resulting in the loss of data to the computer from both stack transmissometers. The outage lasted until 1730 hours on August 17, 1993 when the problem was corrected.

During this time, we continued to collect data from both units by means of a strip chart recorder.

The problem was found to be a failure of the Dutec I/O Plexer, an input/output device, that may have been caused by water leaking into the instrument cabinet.

A new Dutec was ordered from Michigan and shipped via Federal Express. Upon installing the new device and start-up of the system, a further problem was discovered on a printed circuit board inside the computer. This board was damaged as a result of the Dutec failure. The board was replaced and the system restored to normal service.

A metal shield was fabricated and installed above the Dutec to prevent a re-occurrence of this incident. A spare Dutec and computer I/O board are being ordered.

Leonard M. Elias

Leonard M. Elias
Technical Services
Phone: 233-1423

U. S. Steel
Clairton Works
400 State Street
Clairton, PA 15025-1855

July 14, 1993

Allegheny County Health Department
Bureau of Air Pollution Control
301 Thirty-ninth Street
Pittsburgh, PA 15201

ATTN: Mr. Edwin J. Taylor

SUBJECT: Quarterly Boiler CEM Report
USS Clairton Works

Dear Mr. Taylor:

I have enclosed with this letter the USS Clairton Works #2 Boiler CEM report for the second quarter of 1993.

Please refer questions regarding this report to Mr. William C. Graeser at 233-1467.

Very truly yours,

H. R. McCollum
Manager - Environmental Control
USS Clairton Works

HRM/BAC
Attachment

ED_002508A_00000603-00016

Quarterly Opacity Monitor Data

Boiler #2

Opacity Monitor Data		1993 APR	MAY	JUN
Time >20% <60% for More than 3 min/hr	Minutes	4	Boiler Down	0 CEM Down
Percent of service time in month >20% <60% for more than 3 min/hr	Percent	0.01	Boiler Down	0 CEM Down
Time >60%	Minutes	0	Boiler Down	0 CEM Down
Percent of service time in month >60%	Percent	0	Boiler Down	0 CEM Down
Opacity Monitor Availability	Percent	98.91	Boiler Down	0 CEM Down

Opacity Monitor

Run Number	Calibration Filter (%)	Analyzer Reading %	Arithmetic Difference (%) Low	Medium	High
1	18.8	20.8	2.0		
1	38.9	38.1		0.8	
1	60.0	61.0			1.0
2	18.8	20.8	2.0		
2	38.9	39.3		0.4	
2	60.0	61.0			1.0
3	18.8	21.2	2.3		
3	38.9	38.5		0.4	
3	60.0	61.0			1.0
4	18.8	20.8	2.0		
4	38.9	38.9		0.0	
4	60.0	61.0			1.0
5	18.8	21.2	2.3		
5	38.9	38.9		0.0	
5	60.0	61.0			1.0
Arithmetic Mean			2.1	0.32	1.0
Confidence Coefficient (interval) cc			0.27	0.56	0.0
Calibration Error x + cc			2.08	1.75	0.70

BAC/kb-93300

CEMS ID #: 1100M-0291
USX Corporation -- Clairton, PA 15025 USA
0:00 4/ 1/93 Through 23:59 4/30/93

Date	Hour	Reason Codes Exc	Reason Codes Inv	# Min 20-59	# Min >59	1 Max Min % Opac	4 Max Min % Opac
4/ 1/93	11	1		1	0	21	0
4/ 1/93	13	1		1	0	24	0
4/ 1/93	15	1		3	0	26	0
4/ 1/93	16	1		2	0	28	0
4/ 2/93	09		0				
4/ 2/93	15		99				
4/ 3/93	05	1		4	0	39	20
4/ 4/93	01		0				
4/ 4/93	03		0				
4/ 7/93	14		0				
4/10/93	21		0				
4/10/93	23		99				
4/11/93	03		0				
4/11/93	08		0				
4/11/93	11		99				
4/30/93	07	4		11	0	41	23
4/30/93	10	4		0	36	100	100
4/30/93	11	4		0	60	101	100
4/30/93	12	4		0	60	101	100
4/30/93	13	4		0	60	101	100
4/30/93	14	4		0	60	101	100
4/30/93	15	4		0	60	101	100
4/30/93	16	4		0	60	101	100
4/30/93	17	4		0	60	100	100
4/30/93	18	4		0	60	100	100
4/30/93	19	4		0	60	101	100
4/30/93	20	4		0	60	101	100
4/30/93	21	4		0	60	100	100
4/30/93	22	4		0	60	100	100
4/30/93	23	4		0	60	101	100
				0	60	101	101

Unit #2 Stack Opacity % (1-Minute)
USX Corporation -- Clairton, PA 15025 USA
From 0:00 4/ 1/93 Through 23:59 4/30/93

Inc # 1 Duration Hrs: 0.02
CAUSE: (0)
COMMENT: (0)
Beginning: 4/ 2/93 8:50 Ending: 4/ 2/93 8:51

Inc # 2 Duration Hrs: 6.82
CAUSE: (7) TRANSMISSOMETER MAINTENANCE
COMMENT: (0)
Beginning: 4/ 2/93 8:51 Ending: 4/ 2/93 15:40

Inc # 3 Duration Hrs: 1.00
CAUSE: (0)
COMMENT: (0)
Beginning: 4/ 4/93 2:01 Ending: 4/ 4/93 3:01

CEMS ID #: 1100M-0291
USX Corporation -- Clairton, PA 15025 USA
0:00 4/ 1/93 Through 23:59 4/30/93

Reason Codes for Excess Emissions

1 = Fuel Related
2 = Control Equipment
3 = Start Up
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5 = Operation Related
6 = Fuel Related Coal Burning #1 Unit
7 = Precipitator Failure #2 Unit
8 = Clean Lenses/Alignment
9 = Boiler Maintenance
10 = Light Path Obstruction
11 = CEMS Source Lamp Failure
12 = Quarterly Audit
13 = Blowing Soot

Reason Codes for Invalid Hour

14 = Excess Drift, Pollutant
15 = Excess Drift, Diluent
16 = Process Down
17 = CEMS Recalibration
18 = Preventative Maintenance
19 = Pollutant Analyzer Malfunction
20 = Diluent Analyzer Malfunction
21 = Data Handling System Malfunction
22 = Sample Interface Malfunction
23 = Corrective Action
24 = Other
25 =
26 =
27 =
28 =
99 = Ditto through this hour

Quarterly Calibration Error Data -- Low = 2.08
Mid = 1.75
High = 0.70

Hours of Source Downtime -- 7.84

To the best of my knowledge, the information on this page represents true and accurate data.

Signed Thos E Schumacher

Name: MR. THOMAS E. SCHUMACHER
Title: AREA MANAGER, UTILITIES

Source: # TWO UNIT BOILER
CEMS ID #: 1100M-0291
USX Corporation -- Clairton, PA 15025 USA
0:00 5/ 1/93 Through 23:59 5/31/93

Date	Hour	Reason Codes Exc	Reason Codes Inv	# Min 20-59	# Min >59	1 Max Min % Opac	4 Max Min % Opac
5/ 1/93	00	1		0	60	101	100
5/ 1/93	01	1		0	60	101	100
5/ 1/93	02		0				
5/31/93	23		99				

From [illegible] through [illegible]

CEM Downtime Report

Inc # 1 Duration Hrs: 844.00
CAUSE: (9)
COMMENT: (0) Boiler Outage
Beginning: 5/1/93 0:00 Ending: 6/1/93 0.00

Source: # TWO UNIT BOILER
CEMS ID #: 1100M-0291
USX Corporation -- Clairton, PA 15025 USA
0:00 5/ 1/93 Through 23:59 5/31/93

Reason Codes for Excess Emissions

1 = Fuel Related
2 = Control Equipment
3 = Start Up
4 = Shut Down
5 = Operation Related
6 = Fuel Related Coal Burning #1 Unit
7 = Precipitator Failure #2 Unit
8 = Clean Lenses/Alignment
9 = Boiler Maintenance
10 = Light Path Obstruction
11 = CEMS Source Lamp Failure
12 = Quarterly Audit
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Reason Codes for Invalid Hour

14 = Excess Drift, Pollutant
15 = Excess Drift, Diluent
16 = Process Down
17 = CEMS Recalibration
18 = Preventative Maintenance
19 = Pollutant Analyzer Malfunction
20 = Diluent Analyzer Malfunction
21 = Data Handling System Malfunction
22 = Sample Interface Malfunction
23 = Corrective Action
24 = Other
25 =
26 =
27 =
28 =
99 = Ditto through this hour

Quarterly Calibration Error Data -- Low = 2.08
Mid = 1.75
High = 0.70

Hours of Source Downtime -- 844.00

To the best of my knowledge, the information on this page represents true and accurate data.

Signed

Name: MR. THOMAS E. SCHUMACHER
Title: AREA MANAGER, UTILITIES

CEMS ID #: 1100M-0291
USX Corporation -- Clairton, PA 15025 USA
0:00 6/ 1/93 Through 23:59 6/30/93

Date	Hour	Reason Codes Exc	Reason Codes Inv	# Min 20-59	# Min >59	1 Max Min % Opac	4 Max Min % Opac
6/ 1/93	00		0				
6/30/93	23		99				

From 0:00 6/ 1/93 Through 23:59 6/30/93

CEM Downtime Report

Inc # 1 Duration Hrs: 720.00

CAUSE: (9)

COMMENT: (0) Boiler Outage

Beginning: 6/1/93 0:00 Ending: 7/ 1/93 0:00

Source: # TWO UNIT BOILER
CEMS ID #: 1100M-0291
USX Corporation -- Clairton, PA 15025 USA
0:00 6/ 1/93 Through 23:59 6/30/93

Reason Codes for Excess Emissions

1 = Fuel Related
2 = Control Equipment
3 = Start Up
4 = Shut Down
5 = Operation Related
6 = Fuel Related Coal Burning #1 Unit
7 = Precipitator Failure #2 Unit
8 = Clean Lenses/Alignment
9 = Boiler Maintenance
10 = Light Path Obstruction
11 = CEMS Source Lamp Failure
12 = Quarterly Audit
13 = Blowing Soot

Reason Codes for Invalid Hour

14 = Excess Drift, Pollutant
15 = Excess Drift, Diluent
16 = Process Down
17 = CEMS Recalibration
18 = Preventative Maintenance
19 = Pollutant Analyzer Malfunction
20 = Diluent Analyzer Malfunction
21 = Data Handling System Malfunction
22 = Sample Interface Malfunction
23 = Corrective Action
24 = Other
25 =
26 =
27 =
28 =
99 = Ditto through this hour

Quarterly Calibration Error Data -- Low = 2.08
Mid = 1.75
High = 0.70

Hours of Source Downtime -- 720.00

To the best of my knowledge, the information on this page represents true and accurate data.

Signed Thos E Schumacher

Name: MR. THOMAS E. SCHUMACHER
Title: AREA MANAGER, UTILITIES

U. S. Steel
Clairton Works
400 State Street
Clairton, PA 15025-1855

May 5, 1993

Allegheny County Health Department
Bureau of Air Pollution Control
301 Thirty-ninth Street
Pittsburgh, PA 15201

ATTN: Mr. Edwin J. Taylor

SUBJECT: Quarterly Boiler CEM Report
USS Clairton Works

Dear Mr. Taylor:

I have enclosed with this letter the USS Clairton Works #2 Boiler CEM report for the 1st quarter of 1993.

Please refer questions regarding this report to Mr. William C. Graeser at 233-1467.

Very truly yours,

H. R. McCollum
Manager - Environmental Control
USS Clairton Works

HRM/BAC
Attachment

Steel the recycled material

Quarterly Opacity Monitor Data

Boiler #2

Opacity Monitor Data		JAN	1993 FEB	MAR
Time >20% <60% for More than 3 min/hr	Minutes	2291	927	162
Percent of service time in month >20% <60% for more than 3 min/hr	Percent	5.13	2.28	0.36
Time >60%	Minutes	46	30	2
Percent of service time in month >60%	Percent	0.10	0.07	0.004
Opacity Monitor Availability	Percent	98.87	95.82	99.99

Opacity Monitor

Run Number	Calibration Filter (%)	Analyzer Reading %	Arithmetic Difference (%) Low	Medium	High
1	18.2	19.7	1.5		
1	47.1	47.0		0.1	
1	73.8	76.7			2.9
2	18.2	19.7	1.5		
2	47.1	47.8		0.7	
2	73.8	76.7			2.9
3	18.2	20.9	2.7		
3	47.1	47.8		0.7	
3	73.8	76.7			2.9
4	18.2	19.6	1.4		
4	47.1	47.0		0.1	
4	73.8	76.7			2.9
5	18.2	19.6	1.4		
5	47.1	47.8		0.7	
5	73.8	76.7			2.9
Arithmetic Mean			1.7	0.46	2.9
Confidence Coefficient (interval) cc			0.7	0.15	0.0
Calibration Error x + cc			2.45	0.34	2.7

BAC/kb-93184

--- Opacity CEMS Standard Report Form ---
Source: # TWO UNIT BOILER
CEMS ID #: 1100M-0291
USX Corporation -- Clairton, PA 15025 USA
0:00 1/ 1/93 Through 23:59 1/31/93

Date	Hour	Reason Codes Exc	Reason Codes Inv	# Min 20-59	# Min >59	1 Max Min % Opac	4 Max Min % Opac
1/ 3/93	21	1		2	0	27	0
1/ 3/93	22	1		3	0	29	0
1/ 3/93	23	1		1	0	20	0
1/ 4/93	01	1		8	0	35	25
1/ 4/93	02	13		20	0	42	30
1/ 4/93	04	13		8	0	42	32
1/ 4/93	06	1		7	0	39	27
1/ 4/93	07	1		7	0	43	27
1/ 4/93	08	1		6	0	37	25
1/ 4/93	09	1		4	0	29	23
1/ 4/93	11	1		4	0	33	23
1/ 4/93	12	1		3	0	33	24
1/ 4/93	13	1		2	0	26	0
1/ 4/93	14	1		1	0	24	0
1/ 4/93	16	1		6	0	35	25
1/ 4/93	17	13		11	0	47	32
1/ 4/93	18	1		1	0	30	0
1/ 4/93	19	1		5	0	26	24
1/ 4/93	21	13		35	1	66	51
1/ 4/93	22	13		14	0	37	32
1/ 4/93	23	13		18	0	38	32
1/ 5/93	00	1		2	0	22	0
1/ 5/93	02	1		1	0	22	0
1/ 5/93	13	1		1	0	25	0
1/ 5/93	14	1		2	0	23	0
1/ 5/93	15	1		4	0	33	22
1/ 5/93	16	1		12	0	28	26
1/ 5/93	17	1		6	0	36	25
1/ 5/93	18	13		11	0	37	31
1/ 5/93	19	13		36	3	64	49
1/ 5/93	20	13		15	0	50	43
1/ 5/93	22	1		6	0	48	30
1/ 5/93	23	1		6	0	43	25
1/ 6/93	00	13		18	0	41	39
1/ 6/93	01	13		6	0	37	30
1/ 6/93	03	1		5	0	38	27
1/ 6/93	04	1		5	0	36	27
1/ 6/93	05	1		3	0	29	0
1/ 6/93	06	1		6	0	37	29
1/ 6/93	08	1		7	0	48	27
1/ 6/93	09	1		7	0	49	29
1/ 6/93	10	1		7	0	40	25
1/ 6/93	11	1		6	0	37	31
1/ 6/93	12	1		9	0	23	21
1/ 6/93	13	9		46	0	53	39
1/ 6/93	14	9		13	0	48	34
1/ 6/93	15	1		3	0	34	0
1/ 6/93	16	1		8	0	35	30
1/ 6/93	17	1		3	0	22	0
1/ 6/93	18	1		4	0	35	20
1/ 6/93	19	1		4	0	31	20
1/ 6/93	20	9		27	0	45	31
1/ 6/93	21	1		5	0	34	24
1/ 6/93	23	1		4	0	36	22

1/ 7/93	07	1		6	0	27	24
1/ 7/93	08	1		1	1	64	0
1/ 7/93	10	1		2	0	33	0
1/ 7/93	14	9		28	0	33	29
1/ 8/93	09	1		4	0	26	21
1/ 8/93	15	1		1	0	24	0
1/ 9/93	08	1		1	0	22	0
1/ 9/93	09	1		8	0	25	25
1/12/93	13	1		10	0	25	25
1/14/93	16	1		2	0	24	0
1/14/93	18	1		9	0	36	24
1/14/93	20	1		2	0	25	0
1/14/93	21	1		3	0	23	0
1/14/93	23	13		10	0	31	26
1/15/93	00	1		1	0	21	0
1/15/93	01	13		17	0	31	23
1/15/93	02	13		10	0	43	37
1/15/93	04	13		16	0	40	37
1/15/93	05	1		2	0	22	0
1/15/93	06	1		6	0	41	25
1/15/93	07	1		6	5	73	66
1/15/93	08	9		10	0	42	31
1/15/93	09	9		16	0	38	28
1/15/93	10	9		24	0	26	23
1/15/93	11	9		43	0	51	36
1/15/93	12	9		21	0	50	39
1/15/93	13	9		10	0	21	21
1/15/93	14	9		21	0	47	38
1/15/93	15	1		2	0	22	0
1/15/93	16	13		42	0	38	26
1/15/93	17	1		7	0	47	40
1/15/93	18	1		5	0	25	22
1/15/93	19	2		18	0	53	36
1/15/93	20	1		6	0	23	20
1/15/93	21	1		8	0	49	35
1/15/93	22	2		24	0	49	42
1/15/93	23	1		3	0	21	0
1/16/93	00	13		12	0	38	35
1/16/93	02	1		2	0	31	0
1/16/93	03	1		7	0	45	35
1/16/93	05	1		9	0	51	32
1/16/93	07	1		6	0	37	28
1/16/93	08	2		3	0	29	0
1/16/93	10	2		13	0	43	33
1/16/93	12	2		5	0	36	26
1/16/93	13	2		10	0	47	37
1/16/93	14	2		11	0	23	21
1/16/93	15	1		7	0	35	25
1/18/93	00	1		2	0	27	0
1/18/93	02	2		12	0	40	29
1/18/93	03	1		3	0	27	0
1/18/93	04	13		14	0	44	30
1/18/93	05	13		39	0	43	36
1/18/93	06	1		1	0	20	0
1/18/93	07		0				
1/18/93	16		99				
1/18/93	19	1		4	0	29	20
1/18/93	20	13		6	0	34	26
1/18/93	22	13		12	0	36	34
1/19/93	00	1		7	0	34	27
1/19/93	01	1		5	0	36	25
1/19/93	02	1		2	5	61	60
1/19/93	03	1		10	0	40	32
1/19/93	05	1		7	0	35	26

1/19/93	07	13	13	7	89	74
1/19/93	08	13	14	0	40	36
1/19/93	10	13	8	2	81	44
1/19/93	11	13	18	0	38	30
1/19/93	12	1	5	0	29	20
1/19/93	13	9	17	0	44	33
1/19/93	14	1	2	0	22	0
1/19/93	15	1	9	0	45	29
1/19/93	16	2	24	0	44	36
1/20/93	02	1	2	4	61	61
1/20/93	07	1	3	0	37	0
1/20/93	10	1	17	1	62	52
1/20/93	11	1	8	0	30	22
1/20/93	12	1	13	0	42	33
1/20/93	13	1	11	0	21	21
1/20/93	14	1	16	0	47	38
1/20/93	15	1	4	0	22	20
1/20/93	16	13	10	0	46	31
1/20/93	17	13	44	0	45	36
1/20/93	18	1	3	0	43	0
1/20/93	19	13	21	3	85	55
1/20/93	21	13	9	0	52	36
1/20/93	22	13	37	0	48	39
1/20/93	23	1	12	0	23	22
1/21/93	00	1	30	0	44	41
1/21/93	02	1	1	5	62	62
1/21/93	03	1	6	0	43	31
1/21/93	04	1	3	0	42	0
1/21/93	05	1	9	0	41	28
1/21/93	06	1	2	0	21	0
1/21/93	07	1	7	0	38	26
1/21/93	08	9	12	2	73	40
1/21/93	09	9	58	2	66	56
1/21/93	10	9	12	0	36	33
1/21/93	13	1	3	0	24	0
1/21/93	17	1	3	0	33	0
1/21/93	18	1	6	0	33	26
1/21/93	20	13	15	0	39	36
1/21/93	22	1	7	0	40	29
1/21/93	23	1	5	0	34	26
1/22/93	00	1	1	0	30	0
1/22/93	01	1	12	0	46	34
1/22/93	02	1	1	5	63	63
1/22/93	03	1	7	0	41	26
1/22/93	04	1	8	0	42	37
1/22/93	06	1	13	0	41	31
1/22/93	07	9	5	2	70	28
1/22/93	08	9	7	0	29	23
1/22/93	09	9	4	0	24	21
1/22/93	10	9	1	0	25	0
1/22/93	11	9	22	0	48	40
1/22/93	12	9	5	0	23	21
1/22/93	13	9	27	4	68	62
1/22/93	14	9	7	0	35	26
1/22/93	16	13	11	0	33	27
1/22/93	18	13	17	0	47	38
1/22/93	19	1	6	0	39	28
1/22/93	20	1	1	0	35	0
1/22/93	21	1	9	0	40	28
1/22/93	23	1	3	0	30	0
1/23/93	00	1	6	0	34	29
1/23/93	02	13	20	5	62	61
1/23/93	04	13	7	0	41	31
1/23/93	05	1	16	0	43	30

1/23/93	07	13	10	0	48	34
1/23/93	09	9	7	0	33	23
1/23/93	10	9	6	0	33	27
1/23/93	12	9	12	0	38	30
1/23/93	14	9	4	0	30	20
1/23/93	15	9	4	0	32	23
1/23/93	16	1	1	0	28	0
1/23/93	17	1	6	0	33	26
1/23/93	19	1	4	0	30	20
1/23/93	20	13	5	0	31	27
1/23/93	22	13	10	0	33	28
1/24/93	00	1	2	0	25	0
1/24/93	02	1	1	5	63	63
1/24/93	03	1	1	0	20	0
1/25/93	02	1	6	0	59	59
1/25/93	07	9	6	1	65	37
1/25/93	09	9	1	0	23	0
1/25/93	11	9	3	0	25	0
1/25/93	12	9	5	0	27	22
1/25/93	14	9	10	0	27	25
1/25/93	16	1	5	0	31	25
1/25/93	17	1	5	0	33	26
1/25/93	18	1	1	0	30	0
1/25/93	19	1	1	0	21	0
1/25/93	20	1	7	0	55	38
1/25/93	21	1	1	0	25	0
1/26/93	03	1	2	5	61	61
1/26/93	10	2	4	0	29	22
1/26/93	11	1	1	2	68	0
1/26/93	12	1	3	0	25	0
1/26/93	13	1	8	1	60	57
1/26/93	14	1	2	0	40	0
1/26/93	17	1	2	0	21	0
1/26/93	18	1	4	0	24	23
1/26/93	19	1	5	0	26	24
1/26/93	20	13	9	0	30	26
1/26/93	22	13	5	0	29	23
1/26/93	23	1	4	0	26	21
1/27/93	00	1	1	0	27	0
1/27/93	02	1	2	5	63	63
1/27/93	03	1	1	0	20	0
1/27/93	08	1	3	0	43	0
1/27/93	14	1	2	0	25	0
1/27/93	16	13	11	0	33	26
1/27/93	18	13	12	0	23	22
1/28/93	02	1	2	5	62	62
1/28/93	07	9	7	0	56	35
1/28/93	10	9	13	2	65	46
1/28/93	12	9	14	0	40	34
1/28/93	14	9	7	0	35	30
1/28/93	15	9	7	0	43	31
1/28/93	16	1	2	0	45	0
1/28/93	17	13	12	0	40	34
1/28/93	19	13	11	0	37	32
1/28/93	20	13	18	0	49	44
1/28/93	22	1	16	0	43	34
1/28/93	23	13	25	0	22	21
1/29/93	00	13	33	0	38	32
1/29/93	01	13	49	0	43	31
1/29/93	02	13	47	5	62	62
1/29/93	03	1	11	0	41	34
1/29/93	05	1	7	0	33	29
1/29/93	06	1	7	0	39	29
1/29/93	08	1	14	0	40	31

[illegible]	[illegible]	1	5	0	28	23
1/29/93	12	9	2	0	26	0
1/29/93	13	9	6	0	30	22
1/29/93	14	9	5	0	21	20
1/29/93	15	1	6	0	35	26
1/29/93	16	1	5	0	34	24
1/29/93	18	1	16	0	36	33
1/29/93	20	1	4	0	27	24
1/29/93	21	1	2	0	21	0
1/29/93	23	1	2	0	27	0
1/30/93	02	1	3	4	61	60
1/30/93	04	13	19	0	30	25
1/30/93	05	13	23	0	25	24
1/30/93	06	1	7	0	30	28
1/31/93	02	1	2	5	62	62

--- Opacity CEMS Standard Report Form ---
Source: # TWO UNIT BOILER
CEMS ID #: 1100M-0291
USX Corporation -- Clairton, PA 15025 USA
0:00 1/ 1/93 Through 23:59 1/31/93

Reason Codes for Excess Emissions

1 = Fuel Related
2 = Control Equipment
3 = Start Up
4 = Shut Down
5 = Operation Related
6 = Fuel Related Coal Burning #1 Unit
7 = Precipitator Failure #2 Unit
8 = Clean Lenses/Alignment
9 = Boiler Maintenance
10 = Light Path Obstruction
11 = CEMS Source Lamp Failure
12 = Quarterly Audit
13 = Blowing Soot

Reason Codes for Invalid Hour

14 = Excess Drift, Pollutant
15 = Excess Drift, Diluent
16 = Process Down
17 = CEMS Recalibration
18 = Preventative Maintenance
19 = Pollutant Analyzer Malfunction
20 = Diluent Analyzer Malfunction
21 = Data Handling System Malfunction
22 = Sample Interface Malfunction
23 = Corrective Action
24 = Other
25 =
26 =
27 =
28 =
99 = Ditto through this hour

Quarterly Calibration Error Data -- Low = 0.00
Mid = 0.00
High = 0.00

Hours of Source Downtime -- 0.00

To the best of my knowledge, the information on this page represents true and accurate data.

Signed

Name: MR. THOMAS E. SCHUMACHER
Title: AREA MANAGER, UTILITIES

--- CEMS Downtime Report for ---
Unit #2 Stack Opacity % (1-Minute)
USX Corporation -- Clairton, PA 15025 USA
From 0:00 1/ 1/93 Through 23:59 1/31/93

Inc # 1 Duration Hrs: 8.37
CAUSE: (0)
COMMENT: (0)
Beginning: 1/18/93 7:58 Ending: 1/18/93 16:20

Inc # 2 Duration Hrs: 0.07
CAUSE: (0)
COMMENT: (0)
Beginning: 1/18/93 16:42 Ending: 1/18/93 16:46

--- Opacity CEMS Standard Report Form ---
Source: # TWO UNIT BOILER
CEMS ID #: 1100M-0291
USX Corporation -- Clairton, PA 15025 USA
0:00 2/ 1/93 Through 23:59 2/28/93

Date	Hour	Reason Codes Exc	Reason Codes Inv	# Min 20-59	# Min >59	1 Max Min % Opac	4 Max Min % Opac
2/ 1/93	02	1		1	5	62	62
2/ 1/93	10	7		9	13	102	100
2/ 2/93	02	1		6	0	60	59
2/ 2/93	09		0				
2/ 3/93	13		99				
2/ 3/93	14	1		6	2	75	47
2/ 3/93	21	1		2	0	23	0
2/ 3/93	23	1		5	0	29	22
2/ 4/93	00	1		2	5	62	62
2/ 4/93	01	1		2	0	22	0
2/ 4/93	02	1		3	0	23	0
2/ 4/93	04	1		1	0	21	0
2/ 4/93	06	1		1	0	22	0
2/ 4/93	07	1		2	0	20	0
2/ 4/93	08	1		1	0	22	0
2/ 4/93	09	2		6	0	29	24
2/ 4/93	10	2		1	0	23	0
2/ 4/93	11	2		4	0	31	23
2/ 4/93	13	2		5	0	32	25
2/ 4/93	15	1		11	0	34	30
2/ 4/93	16	1		6	0	34	24
2/ 4/93	18	1		6	0	39	26
2/ 4/93	20	1		5	0	37	24
2/ 4/93	21	1		4	0	31	23
2/ 4/93	23	1		6	0	36	25
2/ 5/93	00	1		2	6	62	62
2/ 5/93	01	13		8	0	37	25
2/ 5/93	02	13		5	0	33	26
2/ 5/93	04	1		7	0	36	25
2/ 5/93	06	1		9	0	39	27
2/ 5/93	07	1		1	0	25	0
2/ 5/93	09	1		1	2	63	0
2/ 5/93	10	12		26	11	77	77
2/ 5/93	11	12		9	0	59	44
2/ 5/93	14	1		3	0	26	0
2/ 5/93	16	1		3	0	27	0
2/ 6/93	00	1		1	6	63	63
2/ 7/93	00	1		1	6	62	61
2/ 8/93	00	1		1	6	63	63
2/ 8/93	17	1		1	0	25	0
2/ 8/93	19	1		3	0	30	0
2/ 8/93	20	1		2	0	27	0
2/ 9/93	00	1		1	6	63	63
2/ 9/93	20	1		5	0	30	21
2/ 9/93	21	1		6	0	39	26
2/ 9/93	23	1		6	0	43	28
2/10/93	00	1		2	6	63	63
2/10/93	01	1		5	0	35	22
2/10/93	02	1		5	0	30	23
2/10/93	04	1		3	0	33	0
2/10/93	14	1		2	0	28	0
2/10/93	19	1		2	0	25	0
2/10/93	21	1		3	0	25	0
2/10/93	23	1		2	0	22	0
2/11/93	00	1		2	0	23	0

[illegible]	[illegible]	4		2	0	25	0
2/11/93	07	1		2	0	22	0
2/11/93	15	1		1	0	21	0
2/11/93	17	1		3	0	21	0
2/11/93	18	1		1	0	22	0
2/11/93	20	1		2	0	22	0
2/12/93	01	1		1	0	21	0
2/12/93	03	1		1	0	20	0
2/12/93	04	1		1	0	21	0
2/12/93	06	1		1	0	20	0
2/12/93	09	1		1	0	22	0
2/12/93	11	1		2	0	24	0
2/12/93	13	1		3	0	24	0
2/12/93	16	1		2	0	22	0
2/12/93	18	1		1	0	23	0
2/12/93	19	1		1	0	20	0
2/15/93	17	1		1	0	20	0
2/15/93	19	1		2	0	24	0
2/15/93	21	1		4	0	23	20
2/16/93	00	1		1	0	24	0
2/16/93	05	1		1	0	25	0
2/16/93	07	1		4	0	26	20
2/16/93	08	1		3	0	24	0
2/16/93	10	1		4	0	29	21
2/16/93	12	1		5	0	27	21
2/16/93	13	1		3	0	25	0
2/16/93	15	1		4	0	25	22
2/16/93	16	1		5	1	61	26
2/16/93	17	13		8	0	33	31
2/16/93	18	13		3	0	28	0
2/16/93	20	1		5	0	28	23
2/16/93	22	1		4	0	28	22
2/16/93	23	1		3	0	26	0
2/17/93	01	1		5	0	28	23
2/17/93	03	1		8	0	27	24
2/17/93	04	1		3	0	27	0
2/17/93	06	1		4	0	25	22
2/17/93	08	7		38	0	33	31
2/17/93	10	1		1	0	23	0
2/17/93	14		0				
2/17/93	17	1		4	0	27	20
2/17/93	18	1		2	0	21	0
2/17/93	20	1		3	0	22	0
2/18/93	04	1		1	0	22	0
2/18/93	09	5		12	0	39	28
2/18/93	10	5		11	0	23	22
2/18/93	11	7		22	0	44	30
2/18/93	13	1		5	0	32	23
2/18/93	14	1		7	0	37	24
2/18/93	16	1		6	0	42	25
2/18/93	17	1		2	0	25	0
2/18/93	18	1		5	0	35	31
2/18/93	19	1		3	0	22	0
2/18/93	21	1		1	0	22	0
2/19/93	07	1		5	0	27	20
2/19/93	09	1		9	0	52	32
2/19/93	10	5		17	0	58	35
2/19/93	11	5		18	0	22	21
2/19/93	12	5		23	0	49	35
2/19/93	13	1		1	0	21	0
2/19/93	14	1		5	0	37	26
2/19/93	15	5		11	0	38	31
2/19/93	17	5		5	0	35	22
2/19/93	19	5		6	0	37	30

2/19/93	22	1	6	0	38	23
2/20/93	00	1	2	0	22	0
2/20/93	01	5	9	0	31	26
2/20/93	03	1	3	0	30	0
2/20/93	05	1	4	0	28	21
2/20/93	06	1	4	0	28	22
2/20/93	08	1	3	0	28	0
2/20/93	10	1	4	0	27	23
2/20/93	11	1	6	0	25	24
2/20/93	13	1	3	0	27	0
2/20/93	15	1	5	0	27	22
2/20/93	16	1	5	0	33	23
2/20/93	18	1	3	0	30	0
2/20/93	20	1	4	0	24	20
2/20/93	21	1	7	0	26	23
2/20/93	23	1	3	0	28	0
2/21/93	01	1	1	0	21	0
2/21/93	02	1	1	0	21	0
2/22/93	08	1	3	1	66	26
2/22/93	09	1	1	0	20	0
2/22/93	12	1	2	0	24	0
2/22/93	13	1	1	0	21	0
2/22/93	15	1	1	0	21	0
2/22/93	17	1	2	0	25	0
2/22/93	18	1	1	0	22	0
2/22/93	20	1	1	0	23	0
2/23/93	03	1	7	0	36	31
2/23/93	04	1	[illegible]	0	43	29
2/23/93	05	1	7	0	45	26
2/23/93	07	1	2	0	24	0
2/23/93	08	1	5	0	41	30
2/23/93	09	9	13	0	39	34
2/23/93	11	9	15	0	45	29
2/23/93	13	1	2	0	28	0
2/23/93	14	1	4	0	35	21
2/23/93	16	1	4	0	33	20
2/23/93	17	1	1	0	20	0
2/23/93	18	1	5	0	33	28
2/23/93	19	13	10	0	31	28
2/23/93	21	13	5	0	29	23
2/23/93	23	1	6	0	34	30
2/24/93	00	1	6	0	38	25
2/24/93	02	1	7	0	40	26
2/24/93	03	1	7	0	28	24
2/24/93	04	1	5	0	37	34
2/24/93	05	13	14	0	39	34
2/24/93	07	13	7	0	38	27
2/24/93	09	9	8	0	37	31
2/24/93	10	9	12	0	45	31
2/24/93	12	9	7	0	40	27
2/24/93	13	9	2	0	23	0
2/24/93	14	9	5	0	38	29
2/24/93	15	9	12	0	36	30
2/24/93	17	1	6	0	31	23
2/24/93	19	1	6	0	34	29
2/24/93	20	2	10	0	39	26
2/24/93	22	1	1	0	22	0
2/25/93	00	1	1	0	21	0
2/25/93	07	1	5	0	55	26
2/25/93	10	1	2	0	32	0
2/25/93	11	9	33	0	33	31
2/25/93	12	9	26	0	22	21
2/25/93	13	9	15	0	46	30
2/25/93	14	9	16	0	21	21

2/25/93	16	7	16	0	47	32
2/25/93	18	1	7	0	40	27
2/25/93	19	13	24	0	29	23
2/25/93	20	13	5	0	45	32
2/25/93	21	13	14	0	43	32
2/25/93	23	1	5	0	35	22
2/26/93	01	1	3	0	33	0
2/26/93	02	1	3	0	32	0
2/26/93	04	1	6	0	37	24
2/26/93	05	1	2	0	24	0
2/26/93	06	1	5	0	40	31
2/26/93	07	13	14	0	41	35
2/26/93	09	13	18	0	50	29
2/26/93	10	1	8	0	22	21
2/26/93	11	1	1	0	36	0
2/26/93	12	1	1	0	28	0

--- Opacity CEMS Standard Report Form ---
Source: # TWO UNIT BOILER
CEMS ID #: 1100M-0291
USX Corporation -- Clairton, PA 15025 USA
0:00 2/ 1/93 Through 23:59 2/28/93

Reason Codes for Excess Emissions

1 = Fuel Related
2 = Control Equipment
3 = Start Up
4 = Shut Down
5 = Operation Related
6 = Fuel Related Coal Burning #1 Unit
7 = Precipitator Failure #2 Unit
8 = Clean Lenses/Alignment
9 = Boiler Maintenance
10 = Light Path Obstruction
11 = CEMS Source Lamp Failure
12 = Quarterly Audit
13 = Blowing Soot

Reason Codes for Invalid Hour

14 = Excess Drift, Pollutant
15 = Excess Drift, Diluent
16 = Process Down
17 = CEMS Recalibration
18 = Preventative Maintenance
19 = Pollutant Analyzer Malfunction
20 = Diluent Analyzer Malfunction
21 = Data Handling System Malfunction
22 = Sample Interface Malfunction
23 = Corrective Action
24 = Other
25 =
26 =
27 =
28 =
99 = Ditto through this hour

Quarterly Calibration Error Data -- Low = 0.00
Mid = 0.00
High = 0.00

Hours of Source Downtime -- 0.00

To the best of my knowledge, the information on this page represents true and accurate data.

Signed Thos E Schumacher

Name: MR. THOMAS E. SCHUMACHER
Title: AREA MANAGER, UTILITIES

--- CEMS Downtime Report for ---
Unit #2 Stack Opacity % (1-Minute)
USX Corporation -- Clairton, PA 15025 USA
From 0:00 2/ 1/93 Through 23:59 2/28/93

Inc # 1 Duration Hrs: 27.97
CAUSE: (7) TRANSMISSOMETER MAINTENANCE
COMMENT: (0)
Beginning: 2/ 2/93 9:42 Ending: 2/ 3/93 13:40

Inc # 2 Duration Hrs: 0.02
CAUSE: (0)
COMMENT: (0)
Beginning: 2/10/93 15:35 Ending: 2/10/93 15:36

Inc # 3 Duration Hrs: 0.05
CAUSE: (0)
COMMENT: (0)
Beginning: 2/17/93 14:40 Ending: 2/17/93 14:43

Inc # 4 Duration Hrs: 0.05
CAUSE: (0)
COMMENT: (0)
Beginning: 2/17/93 14:48 Ending: 2/17/93 14:51

--- Opacity CEMS Standard Report Form ---
Source: # TWO UNIT BOILER
CEMS ID #: 1100M-0291
USX Corporation -- Clairton, PA 15025 USA
0:00 3/ 1/93 Through 23:59 3/31/93

Date	Hour	Reason Codes Exc	Reason Codes Inv	# Min 20-59	# Min >59	1 Max Min % Opac	4 Max Min % Opac
3/ 1/93	07	1		5	0	45	22
3/ 2/93	15	1		5	0	27	20
3/ 2/93	19	1		2	0	23	0
3/ 2/93	20	1		2	0	21	0
3/ 2/93	22	1		3	0	21	0
3/ 3/93	01	1		2	0	23	0
3/ 3/93	02	1		5	0	21	20
3/ 3/93	04	1		3	0	21	0
3/ 3/93	06	13		13	0	26	25
3/ 3/93	22	1		5	0	22	20
3/ 3/93	23	1		2	0	21	0
3/ 4/93	00	1		7	0	21	21
3/ 4/93	01	1		3	0	22	0
3/ 4/93	02	13		11	0	25	22
3/ 4/93	05	5		7	0	21	21
3/ 4/93	06	5		9	0	21	20
3/ 4/93	07	5		4	0	21	20
3/ 4/93	08	1		1	0	22	0
3/ 4/93	10	1		1	0	23	0
3/ 4/93	12	1		3	0	30	0
3/ 4/93	13	1		3	0	30	0
3/ 4/93	18	1		1	0	23	0
3/ 4/93	20	1		1	0	23	0
3/ 4/93	22	1		2	0	25	0
3/ 4/93	23	5		8	0	27	22
3/ 5/93	01	1		1	0	21	0
3/ 5/93	03	1		2	0	29	0
3/ 5/93	04	1		3	0	26	0
3/ 5/93	08	1		2	0	26	0
3/ 5/93	09	1		3	1	65	20
3/ 5/93	11	1		2	0	25	0
3/ 5/93	13	1		2	0	28	0
3/ 5/93	14	1		3	0	25	0
3/ 5/93	16	1		3	0	23	0
3/ 5/93	18	1		2	0	26	0
3/ 5/93	19	1		3	0	28	0
3/ 5/93	21	1		2	0	23	0
3/ 5/93	23	1		2	0	28	0
3/ 6/93	00	1		2	0	25	0
3/ 6/93	02	1		1	0	20	0
3/ 6/93	04	1		1	0	24	0
3/ 6/93	05	1		3	0	26	0
3/ 6/93	09	1		2	0	24	0
3/ 6/93	10	1		1	0	22	0
3/ 6/93	14	1		1	0	20	0
3/ 6/93	15	1		4	0	24	20
3/ 8/93	11	1		2	0	44	0
3/ 9/93	07	1		2	0	28	0
3/ 9/93	10	1		1	0	20	0
3/ 9/93	17	1		1	0	27	0
3/ 9/93	18	1		2	0	23	0
3/10/93	10	5		13	0	47	29
3/10/93	13	1		1	0	21	0
3/10/93	16	1		1	0	21	0
3/10/93	18	1		1	0	23	0

		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
3/11/93	03	1		1	0	27	0
3/11/93	04	1		5	0	34	22
3/11/93	05	13		20	1	63	48
3/11/93	07	13		5	0	31	25
3/11/93	09	1		5	0	33	25
3/11/93	10	1		5	0	27	22
3/11/93	12	1		4	0	31	21
3/11/93	13	1		1	0	21	0
3/11/93	14	1		4	0	29	21
3/11/93	15	5		8	0	28	24
3/11/93	17	1		4	0	30	21
3/12/93	08	1		1	0	23	0
3/12/93	16	1		1	0	21	0
3/15/93	08	1		2	0	48	0
3/19/93	13		0				
3/23/93	12	1		1	0	22	0
3/23/93	14	1		1	0	26	0
3/23/93	15	1		1	0	28	0
3/23/93	16	1		1	0	21	0
3/23/93	17	1		4	0	31	21
3/24/93	13	1		1	0	23	0
3/24/93	15	1		1	0	25	0
3/24/93	17	1		3	0	35	0
3/30/93	13	1		1	0	20	0
3/30/93	14	1		2	0	22	0
3/30/93	16	1		3	0	27	0
3/31/93	12	1		1	0	28	0
3/31/93	13	1		2	0	25	0
3/31/93	14	1		1	0	20	0
3/31/93	15	1		5	0	27	23
3/31/93	17	1		3	0	34	0

--- Opacity CEMS Standard Report Form ---
Source: # TWO UNIT BOILER
CEMS ID #: 1100M-0291
USX Corporation -- Clairton, PA 15025 USA
0:00 3/ 1/93 Through 23:59 3/31/93

Reason Codes for Excess Emissions

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22 = Sample Interface Malfunction
23 = Corrective Action
24 = Other
25 =
26 =
27 =
28 =
99 = Ditto through this hour

Quarterly Calibration Error Data -- Low = 0.00
Mid = 0.00
High = 0.00

Hours of Source Downtime -- 0.00

To the best of my knowledge, the information on this page represents true and accurate data.

Signed

Name: MR. THOMAS E. SCHUMACHER
Title: AREA MANAGER, UTILITIES

--- CEMS Downtime Report for ---
Unit #2 Stack Opacity % (1-Minute)
USX Corporation -- Clairton, PA 15025 USA
From 0:00 3/ 1/93 Through 23:59 3/31/93

Inc # 1 Duration Hrs: 0.03
CAUSE: (0)
COMMENT: (0)
Beginning: 3/19/93 13:21 Ending: 3/19/93 13:23