



P.O. Box 078768, West Palm Beach, FL 33407-0768
5500 Village Blvd.

FEDERAL EXPRESS

March 19, 1991

RECEIVED

MAR 21 1991

Ms. Cindy Phillips
State of Florida Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32301

DER-BAQM

RE: Sanford Plant, Unit No. 4
Orimulsion Test Burn
Monthly Compliance Reports - February, 1991

Dear Mr. Alexander:

As required by the specific conditions of the Department's permit authorizing the Orimulsion Test Burn, enclosed please find the compliance reports for the month of February, 1991 as follows:

<u>Required in Specific Condition No.</u>	<u>Report Title</u>
8.e) iii.	Fuel Analysis-As Fired for Sanford Units 3, 4, & 5 (previously submitted on 3/12/91-See copy of transmittal attached to report)
8.e) vi.	Frequency of Excess Emissions
8.e) i. & 8.e) ii.	Fuel Usage for Sanford Units 3, 4, & 5/Orimulsion Full-power Burn Days
8.e) v.	Daily Opacity Logs
8.e) iv.	Summary - NO _x & CO CEM Hourly Averages
8.e) v.	Summary - Opacity CEM 6-min. Averages

Sanford Plant, Unit No. 4
Orimulsion Test Burn
Monthly Compliance Reports-February, 1991
Page 2

For your convenience, we have compiled all the above reports into one booklet. This format will be repeated for each reporting cycle throughout the Orimulsion Test Burn.

If you have any questions, please call me at (407) 697-6926.

Sincerely,



Elsa A. Bishop
Senior Environmental Coordinator
Florida Power & Light Company

EAB:jm

Enclosure

cc: A. Alexander - DER/Orlando (w/o encl.)



FEDERAL EXPRESS

March 19, 1991

Mr. A. Alexander, Deputy Assistant Secretary
State of Florida Department of Environmental Regulation
Central Florida District
3319 Maguire Blvd., Suite 232
Orlando, Florida 32802

**RE: Sanford Plant, Unit No. 4
Orimulsion Test Burn
Monthly Compliance Reports - February, 1991**

Dear Mr. Alexander:

As required by the specific conditions of the Department's permit authorizing the Orimulsion Test Burn, enclosed please find the compliance reports for the month of February, 1991 as follows:

<u>Required in Specific Condition No.</u>	<u>Report Title</u>
8.e) iii.	Fuel Analysis-As Fired for Sanford Units 3, 4, & 5 (previously submitted on 3/12/91-See copy of transmittal attached to report)
8.e) vi.	Frequency of Excess Emissions
8.e) i. & 8.e) ii.	Fuel Usage for Sanford Units 3, 4, & 5/Orimulsion Full-power Burn Days
8.e) v.	Daily Opacity Logs
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Sanford Plant, Unit No. 4
Orimulsion Test Burn
Monthly Compliance Reports-February, 1991
Page 2

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If you have any questions, please call me at (407) 697-6926.

Sincerely,

A handwritten signature in cursive script that reads "Elsa A. Bishop". The signature is written in black ink and is positioned above the typed name and title.

Elsa A. Bishop
Senior Environmental Coordinator
Florida Power & Light Company

EAB:jm

Enclosure

cc: Cindy Phillips - DER/Tall (w/o encl.)



P.O. Box 078768, West Palm Beach, FL 33407-0768
5500 Village Blvd.

March 12, 1991

Mr. A. Alexander, Deputy Assistant Secretary
State of Florida Department of Environmental Regulation
Central Florida District
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

RE: **SO₂ Emissions**
Analyses of Fuel Fired - Orimulsion
February, 1991 Sanford Power Plant, Unit No. 4

Dear Mr. Alexander:

As required by Specific Condition 7(e) of the DER Permit for the Orimulsion Test Burn at Sanford Unit No. 4, enclosed are the analyses of Orimulsion Fuel Fired for the February, 1991 sampling period.

If you have any questions, please call me at (407) 697-6926.

Sincerely,

A handwritten signature in cursive script that reads 'Elsa A. Bishop'.

Elsa A. Bishop
Senior Environmental Coordinator
Florida Power & Light Company

EAB:jm

Enclosure

*Composite of
once per day samples
taken on days
orimum is fired.*

RECEIVED

FEB 28 1991

FLORIDA POWER & LIGHT COMPANY
POWER RESOURCES CENTRAL LABORATORY

STATE OF FLORIDA LABORATORY CERTIFICATION NUMBERS
DRINKING WATER CERTIFICATION NUMBER: 56275
ENVIRONMENTAL CHEMISTRY CERTIFICATION NUMBER: E56078

ENV. PERMITTING

SANFORD #4 (ORIMULSION) PLANT
ANALYSES OF FUEL OIL FIRED
FEBRUARY 1991

DATE SAMPLE RECEIVED AT LABORATORY	2-13-91		
API GRAVITY	9.1	ASH, % BY WEIGHT	0.23
DENSITY, g/CM ³	1.0047		
DENSITY, LB/GAL	8.384	PARTICULATE EQUIVALENT, LB/MBTU	0.18
DENSITY, LB/BBL	352.116	VANADIUM IN OIL AS V2O5, PPM	458
DENSITY, TONS/BBL	0.1761	VANADIUM IN OIL AS V, PPM	256
HEAT OF COMBUSTION, BTU/LB	12947	VISCOSITY @ SHEAR RATE OF 139.1(1/S)	460
HEAT OF COMBUSTION, MBTU/BBL	4559	@ 31.1 C, CPS	
HEAT OF COMBUSTION, BTU/GAL	108544	ASPHALTENES, % BY WEIGHT	6.2
HEAT OF COMBUSTION, MBTU/TON	25894	MAGNESIUM IN OIL AS MG, PPM	332
HEAT OF COMBUSTION, MEGAJOULES/KG	30.09	SODIUM IN OIL AS NA, PPM	50
WATER, % BY VOLUME	29	NICKEL IN OIL AS NI, PPM	70
SEDIMENT, % BY WEIGHT	0.29	IRON IN OIL AS FE, PPM	9
SULFUR, % BY WEIGHT	2.8		
SULFUR DIOXIDE EQUIVALENT, LB/MBTU	4.3		

COPIES TO: J. W. DICKEY - PRG/EDO
M. GROSSWALD - PRG/EDO
J. STANTON - PRG/EDO
PLANT MANAGER - PSN
PSN RESULTS DEPT.

D. W. KNUTSON - PRS/EDO
K. WASHINGTON - PRS/EDO
W. WAYLETT - PRS/EDO
BOB RIGHTER - PSN/PLT
ROGER MESSER - PRS/EDO

BILL PARKES - FR/GO
R. LIPPMAN - FR/GO
E. CALLANDER - FR/GO
R.N. ALLEN - JEN/NP
M. TAYLOR - PCU/PLT
E. BISHOP - JEN/NP ✓

ANALYZED BY : Y. Kousan / J. Uzica

CERTIFIED BY : H. M. Brionnell

DATE: 02-25-90

91-PSN-6



March 12, 1991

Mr. A. Alexander, Deputy Assistant Secretary
State of Florida
Department of Environmental Regulation
Central Florida District
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

RE: SO₂ Emissions
Analyses of Fuel Oil Fired
February, 1991 - Sanford Power Plant

Dear Mr. Alexander:

As required by the DER Air Operating Permits for the units at the above facilities, enclosed are the analyses of Fuel Oil Fired for the February, 1991 sampling period.

If you have any questions, please call me at (407) 697-6926.

Sincerely,

A handwritten signature in cursive script that reads "Elsa A. Bishop".

Elsa A. Bishop
Senior Environmental Coordinator
Florida Power & Light Company

EAB:jm

Enclosure

cc: Cindy Phillips - DER/Tall

FLORIDA POWER & LIGHT COMPANY
POWER RESOURCES CENTRAL LABORATORY

RECEIVED

STATE OF FLORIDA LABORATORY CERTIFICATION NUMBER
DRINKING WATER CERTIFICATION NUMBER: 56275
ENVIRONMENTAL CHEMISTRY CERTIFICATION NUMBER:

FEB 28 1991

SANFORD #3 PLANT
ANALYSES OF FUEL OIL FIRED
FEBRUARY 1991

ENV. PERMITTING

DATE SAMPLE RECEIVED AT LABORATORY	2-13-91
API GRAVITY	10.2
DENSITY, LB/GAL	8.317
DENSITY, LB/BBL	349.314
HEAT OF COMBUSTION, BTU/LB	16249
HEAT OF COMBUSTION, BTU/GAL	151777
HEAT OF COMBUSTION, MBTU/BBL	6375
WATER, % BY VOLUME	0.60
SEDIMENT, % BY WEIGHT	0.05
SULFUR, % BY WEIGHT	1.0
SULFUR DIOXIDE EQUIVALENT, LB/MBTU	1.10
ASH, % BY WEIGHT	0.05
PARTICULATE EQUIVALENT, LB/MBTU	0.03
VANADIUM IN ASH AS V2O5, % BY WEIGHT	6
VANADIUM IN OIL AS V2O5, PPM	29
VANADIUM IN OIL AS V, PPM	16
VISCOSITY, SSF @ 122F	81
ASPHALTENES, % BY WEIGHT	3.3

COPIES TO: PSN PLANT MGR.
R N ALLEN - JEN/EDC
PLANT RESULTS DEPT
K WASHINGTON - PRS/EDC

ANALYZED BY: *Harrison / S. Uzi a*

CERTIFIED BY: *H. M. McDonald*

POWER RESOURCES CENTRAL LABORATORY

MIAMI, FLORIDA

RECEIVED

MAR 13 1991

SANFORD 4&5 PLANT
ANALYSES OF FUEL OIL FIRED
FEBRUARY, 1991

ENV. PERMITTING

DATE SAMPLE RECEIVED AT LABORATORY	3-7-91
API GRAVITY	10.7
DENSITY, LB/GAL	8.287
DENSITY, LB/DBL	348.054
HEAT OF COMBUSTION, BTU/LB	18164
HEAT OF COMBUSTION, BTU/GAL	150525
HEAT OF COMBUSTION, MBTU/DBL	6322
WATER, % BY VOLUME	1.0
SEDIMENT, % BY WEIGHT	0.06
SULFUR, % BY WEIGHT	0.97
SULFUR DIOXIDE EQUIVALENT, LB/MBTU	1.07
ASH, % BY WEIGHT	0.04
PARTICULATE EQUIVALENT, LB/MBTU	0.02
VANADIUM IN ASH AS V ₂ O ₅ , % BY WEIGHT	7
VANADIUM IN OIL AS V ₂ O ₅ , PPM	29
VANADIUM IN OIL AS V, PPM	16
VISCOSITY, SSF @ 122F	69
ASPHALTENES, % BY WEIGHT	2.8

COPIES TO: PSN PLANT MGR.
R N ALLEN - JEN/EDD
PLANT RESULTS DEPT
K WASHINGTON - PRS/EDD

ANALYZED BY: J. Uzice / T. HarrisonCERTIFIED BY: H. M. Donnell

Feb. excess emissions malfunction reasons

2 hrs. (2076 min-intervals) 3 hrs = (3076 min-intervals)

malfunction ~~soot blowing~~ ~~startup~~ ~~shutdown~~ ~~load change~~

2:48

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23
- 24
- 25
- 26
- 27
- 28

36 min control problem

48 min burner problem

36 min control problem

18 min control problem & "other"

6 min "control problem"

~~24~~ 24 min (controls swinging?) dactyl log lists as load change

33 min control problem

301

30 min burner problem control problem

42 min
72 min
48 min

**FLORIDA POWER & LIGHT CO.
SANFORD PLANT
MONTHLY ORIMULSION AIR EMISSIONS REPORT**

MONTH OF February, 1991

NUMBER OF FULL POWER BURN DAYS

9.15

NUMBER OF BARRELS OF ORIMULSION BURNED

195,094

NUMBER OF DAYS ORIMULSION BURNED

23

ORIMULSION AS-FIRED MMBTU/BARREL

4.559

NUMBER OF BARRELS OF OIL BURNED

18,393

NUMBER OF DAYS OIL BURNED

5

OIL AS-FIRED MMBTU/BARREL

6.311

FEBRUARY 1991

FLORIDA POWER & LIGHT
 ORIMULSION TEST PROJECT
 SANFORD PLANT

DATE	UNIT 3			UNIT 4			UNIT 5	
	#3	#3	#4	#4	#4	#4	#5	#5
	MCF GAS	BBL OIL	BBL OIL	MCF GAS	ORIMULSION BBL	FULL POWER DAYS	BBL OIL	MCF GAS
02/01/91	5096	0	0	0	4924	0.2310	0	0
02/02/91	426	0	0	0	2729	0.1280	0	0
02/03/91	221	0	0	0	215	0.0101	0	0
02/04/91	4645	0	0	0	8259	0.3874	0	0
02/05/91	3445	0	57	0	0	0.0000	0	0
02/06/91	4321	0	0	0	6503	0.3050	0	0
02/07/91	255	0	0	0	11816	0.5542	0	0
02/08/91	240	0	0	0	12666	0.5941	0	0
02/09/91	218	0	0	0	143	0.0067	0	0
02/10/91	289	0	0	0	124	0.0058	0	0
02/11/91	1964	516	0	0	9293	0.4359	0	0
02/12/91	253	0	0	0	13767	0.6457	0	0
02/13/91	2836	0	0	0	12785	0.5997	0	0
02/14/91	4611	0	0	0	15338	0.7194	0	0
02/15/91	4790	0	6959	0	0	0.0000	5129	0
02/16/91	11328	678	7846	0	0	0.0000	6420	0
02/17/91	0	1464	3270	0	0	0.0000	3530	0
02/18/91	231	0	261	0	0	0.0000	0	0
02/19/91	5040	0	0	0	8462	0.3969	0	0
02/20/91	0	0	0	0	8884	0.4167	0	0
02/21/91	273	0	0	0	13890	0.6515	0	0
02/22/91	273	0	0	0	9649	0.4526	0	0
02/23/91	260	0	0	0	372	0.0174	0	0
02/24/91	257	0	0	0	175	0.0082	0	0
02/25/91	283	0	0	0	7120	0.3340	0	0
02/26/91	204	0	0	0	15761	0.7392	0	0
02/27/91	339	0	0	0	17662	0.8284	0	0
02/28/91	0	0	0	0	14557	0.6828	0	0
				0		0.0000	0	0
				0		0.0000	0	0
				0		0.0000	0	0
TOTALS	52098	2658	18393	0	195094	9.15	15079	0

dsk:orimulsion fn:febfue

Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO. **4 (Orimulsion)** DATE **FRI FEB 1 1991**

SIX MINUTE INTERVALS <i>Greater Than 60%</i>											Six Minute Intervals <i>760%</i>		
Time	1	2	3	4	5	6	7	8	9	10		This Hour	Last 24 Hours
12MN											12MN		
1AM											1AM		
2											2		
3										66-C4	3	1	1
4	72-C4	65-C4	66-C4			62-C2	92-C2				4	5	6
5											5		
6											6		
7									62-C1		7	1	7
8	66-C1			63-C1		66-C1	62-C1			61-C1	8	5	12
9	63-C1	-				62-C1	64-C1	63-C1	63-C1	62-C1	9	6	18
10	61-C1										10	1	19
11											11		
12N											12N		
1P											1P		
2											2		
3											3		
4							61-C1			62-C1	4	2	21
5	63-C1	66-C1	66-C1	66-C1	64-C1	64-C1	62-C1				5	7	28
6											6		
7											7		
8											8		
9											9		
10											10		
11											11		

A MALFUNCTION
MALFUNCTION

- * 1 Monitor Out of Service
- * 2 Burner Problem
- * 3 Control Problem
- * 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- * 1 Rapid Load Change
- * 2 Soot-blowing
- * 3 Liming Boiler
- * 4 Cleaning Air Pre-heater

A rapid load change is defined as a change that occurs at the rate of 0.5% per minute or more and exceeds 10% of the units rated capacity and occurs when the unit is operating at greater than 10% of rated capacity, excluding startup and shutdown.

INSTRUCTIONS

Fill in the opacity and reason code or codes in the appropriate box whenever the opacity exceeds 20% for any 6 minute period on the recorder. Example: 50A3 indicates an opacity reading of 50% attributed to control problems.

Use the comment column where additional explanation is appropriate.

Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO. **SAT** DATE **FEB 2 1991**
4 (Orimulsion)

Time	SIX MINUTE INTERVALS <i>Greater Than 60%</i>										Six Minute Intervals <i>> 60%</i>	
	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours
12MN											12MN	
1AM											1AM	
2											2	
3											3	
4											4	
5											5	
6											6	
7											7	
8											8	
9											9	
10											10	
11											11	
12N											12N	
1P											1P	
2											2	
3											3	
4											4	
5											5	
6											6	
7			B-1 95	B-1 95	B-1 95	B-1 95	B-1 95	B-1 95	B-1 95	B-1 94	7	8
8	B-1 94	B-1 95	B-1 95	B-1 95	B-1 94	B-1 92	B-1 90	B-1 93	B-1 83	B-1 63	8	10
9										C-2 61	9	1
10	C-2 85	C-2 64	C-2 65	C-2 66			C-2 72				10	5
11											11	24

A MALFUNCTION
 MALFUNCTION

- * 1 Monitor Out of Service
- * 2 Burner Problem
- * 3 Control Problem
- * 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

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Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO. _____ DATE **SUN FEB 3 1991**
4 (Orimulsion)

Time	SIX MINUTE INTERVALS <i>Greater Than 60%</i>										Six Minute Intervals <i>>60%</i>		
	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours	
12MN	-	-	-	65	-	-	62	68	71	-	12MN	4	4
1AM	79	67	69	69	-	-	-	68	-	82	1AM	6	10
2		84		92	-	86	84	84	83		2	6	16
3											3		
4											4		
5											5		
6											6		
7											7		
8											8		
9											9		
10											10		
11											11		
12N											12N		
1P											1P		
2											2		
3											3		
4											4		
5											5		
6											6		
7											7		
8											8		
9											9		
10											10		
11											11		

A MALFUNCTION
 MALFUNCTION

- * 1 Monitor Out of Service
- * 2 Burner Problem
- * 3 Control Problem
- * 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- *1 Rapid Load Change
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Use the comment column where additional explanation is appropriate.

Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO. **4 (Orimulsion)** DATE **MON FEB 4 1991**

Time	SIX MINUTE INTERVALS <i>Greater Than 60%</i>										Six Minute Intervals <i>760%</i>		
	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours	
12MN											12MN		
1AM											1AM		
2											2		
3											3		
4											4		
5						B-161	D-167	D-168	E-176	70 _{B-1}	5	THH 5	5
6							65 _B	72 _{B-1}	67 _{B-1}		6	III 3	8
7											7		
8							B1 71				8	I	9
9											9		
10						B1 62					10	I	10
11											11		
12N							C-161	C-164	C-163	C-161	12N	4	14
1P											1P		
2											2		
3											3		
4											4		
5											5		
6											6		
7											7		
8											8		
9											9		
10											10		
11											11		

A MALFUNCTION
 MALFUNCTION

- * 1 Monitor Out of Service
- * 2 Burner Problem
- * 3 Control Problem
- * 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- *1 Rapid Load Change
- 2 Soot-blowing
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A rapid load change is defined as a change that occurs at the rate of 0.5% per minute or more and exceeds 10% of the units rated capacity and occurs when the unit is operating at greater than 10% of rated capacity, excluding startup and shutdown.

INSTRUCTIONS

Fill in the opacity and reason code or codes in the appropriate box whenever the opacity exceeds 20% for any 6 minute period on the recorder. Example: 50A3 indicates an opacity reading of 50% attributed to control problems.

Use the comment column where additional explanation is appropriate.

Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO. #6
 014TU
 4 (Orimulsion)
 DATE FEB 5 1991

Time	SIX MINUTE INTERVALS <i>Greater Than 60%</i>										Six Minute Intervals <i>740%</i>		
	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours	
12MN											12MN		
1AM											1AM		
2											2		
3											3		
4											4		
5											5		
6											6		
7											7		
8											8		
9											9		
10											10		
11											11		
12N											12N		
1P						64C-2	84C-2	61C-2			1P	3	3
2		48C-2	50C-2	72C-2	89C-2	70C-2	58C-2			62C-2	2	7	10
3	61C-2	90C-2	80C-2	49C-2	C-244	C-228	C-272	C-272	C-280	C-278	3	10	20
4	C-267		C-251	C-258		C-292	C-282	C-254	C-288	C-278	4	8	28
5	C-273										5	1	29
6											6		
7											7		
8											8		
9											9		
10											10		
11											11		

A MALFUNCTION
 MALFUNCTION

- * 1 Monitor Out of Service
- * 2 Burner Problem
- * 3 Control Problem
- * 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- *1 Rapid Load Change
- 2 Soot-blowing
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INSTRUCTIONS

Fill in the opacity and reason code or codes in the appropriate box whenever the opacity exceeds 20% for any 6 minute period on the recorder. Example: 50A3 indicates an opacity reading of 50% attributed to control problems.

Use the comment column where additional explanation is appropriate.

Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO. WED FEB 6 1991
 4 (Orimulsion)

Time	SIX MINUTE INTERVALS Greater Than 60%										Six Minute Intervals 760%		
	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours	
12MN											12MN		
1AM											1AM		
2											2		
3											3		
4											4		
5											5		
6											6		
7											7		
8											8		
9									8-74		9	1	
10				8-69							10	2	
11											11	1	
12N	8-66	8-64	9-64								12N	3	
1P				68A-3	67A-3	64A-3			J2A-3	58A-3	1P	5	
2	71A-3			68C-1	61C-1						2	3	
3		63C-1									3	1	
4											4		
5											5		
6											6		
7											7		
8											8		
9											9		
10							66C-2	70C-2	80C-2	76C-2	10	4	
11	76C-2	91C-2	81C-2	90C-2	84C-2	84	71C-2	72	73	72	73	11	10

A MALFUNCTION
 MALFUNCTION

- * 1 Monitor Out of Service
- * 2 Burner Problem
- * 3 Control Problem
- * 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- *1 Rapid Load Change
- 2 Soot-blowing
- 3 Liming Boiler
- 4 Cleaning Air Pre-heater

A rapid load change is defined as a change that occurs at the rate of 0.5% per minute or more and exceeds 10% of the units rated capacity and occurs when the unit is operating at greater than 10% of rated capacity, excluding startup and shutdown.

INSTRUCTIONS

Fill in the opacity and reason code or codes in the appropriate box whenever the opacity exceeds 20% for any 6 minute period on the recorder. Example: 50A3 indicates an opacity reading of 50% attributed to control problems.

Use the comment column where additional explanation is appropriate.

Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO. **THU FEB 7 1991**
4 (Orimulsion)

Time	SIX MINUTE INTERVALS Greater Than 60%										Six Minute Intervals > 60%		
	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours	
12MN	C4 73	C4 73		C4 73	C4 B		C4 66	C4 64	C4 62	C4 63	12MN	8	8
1AM	C4 66	C4 71	C4 72	C4 74	C4 66						1AM	5	13
2											2		
3											3		
4											4		
5											5		
6									B1 61	B1 64	6	2	15
7	B1 72										7	1	16
8											8		
9											9		
10											10		
11											11	5	21
12N						A-2 69	A-2 63	A-2 62	A-2 63	A-2 61	12N	combustion control swing, could not identify cause of swing	
1P											1P		
2									60 A2	63 A2 A 61	2	3	24
3											3		
4											4		
5											5		
6											6		
7											7		
8											8		
9											9		
10											10		
11									C2 78	C2 90	11	2	26

A MALFUNCTION
 MALFUNCTION

- * 1 Monitor Out of Service
- * 2 Burner Problem
- * 3 Control Problem
- * 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- * 1 Rapid Load Change
- * 2 Soot-blowing
- * 3 Liming Boiler
- * 4 Cleaning Air Pre-heater

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Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

FRI FEB 1991

UNIT NO.	DATE
4 (Orimulsion)	

Time	SIX MINUTE INTERVALS Greater Than 60%										Six Minute Intervals 760%	
	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours
12MN	C284	C287	C285	C264	C283						5	5
1AM												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12N												
1P												
2												
3												
4												
5												
6												
7												
8												
9										C2C4 62	9	6
10	C2C4 84	C2C4 89	C2C4 86	C2C4 74		C2C4 86	C2C4 93	C2C4 83	C2C4 93	C2C4 82	10	15
11	C2C4 81	C2C4 72	C2C4 83	C2C4 64	C2C4 64		C2C4 71	C2C4 77	C2C4 66	C2C4 75	11	24

A MALFUNCTION
 MALFUNCTION

- * 1 Monitor Out of Service
- * 2 Burner Problem
- * 3 Control Problem
- * 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- * 1 Rapid Load Change
- * 2 Soot-blowing
- * 3 Liming Boiler
- * 4 Cleaning Air Pre-heater

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INSTRUCTIONS

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Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO.	DATE
4 (Orimulsion)	

Time	SIX MINUTE INTERVALS Greater Than 60%										Six Minute Intervals 760%		
	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours	
12MN			C265	C288	C285		C269				12MN	4	4
1AM	C278		C286	C286	C292	C290	C272	C291	C284	C293	1AM	9	13
2	C288	C270	C289	C292	C292	C292	C271	C267			2	8	21
3											3		
4											4		
5											5		
6											6		
7											7		
8											8		
9											9		
10											10		
11											11		
12N											12N		
1P											1P		
2											2		
3											3		
4											4		
5											5		
6											6		
7											7		
8											8		
9											9		
10											10		
11			B186	B178	B176	B184	C280	C274	C270	C270	11	8	29

A MALFUNCTION
 MALFUNCTION

- * 1 Monitor Out of Service
- * 2 Burner Problem
- * 3 Control Problem
- * 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- *1 Rapid Load Change
- 2 Soot-blowing
- 3 Liming Boiler
- 4 Cleaning Air Pre-heater

A rapid load change is defined as a change that occurs at the rate of 0.5% per minute or more and exceeds 10% of the units rated capacity and occurs when the unit is operating at greater than 10% of rated capacity, excluding startup and shutdown.

INSTRUCTIONS

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Use the comment column where additional explanation is appropriate.

Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

SUN FEB 1991

UNIT NO.	DATE
4 (Orimulsion)	

SIX MINUTE INTERVALS Greater Than 60%											Six Minute Intervals 760%		
Time	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours	
12MN	C271	C265						C281	C269		12MN	4	4
1AM	C270	C267	C271	C285	C282	C279	C284	C272		C286	1AM	9	13
2	C268	C283	C284	C269	C272	C274	C278	C273			2	8	21
3											3		
4											4		
5											5		
6											6		
7											7		
8											8		
9											9		
10											10		
11											11		
12N											12N		
1P											1P		
2											2		
3											3		
4											4		
5											5		
6											6		
7											7		
8											8		
9											9		
10											10		
11											11		

A MALFUNCTION

MALFUNCTION

- * 1 Monitor Out of Service
- * 2 Burner Problem
- * 3 Control Problem
- * 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- *1 Rapid Load Change
- 2 Soot-blowing
- 3 Liming Boiler
- 4 Cleaning Air Pre-heater

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INSTRUCTIONS

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Use the comment column where additional explanation is appropriate.

Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO. 4 (Orimulsion)	DATE MON FEB 11 1991
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Time	SIX MINUTE INTERVALS <i>Greater Than 60%</i>										Six Minute Intervals <i>> 60%</i>		
	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours	
12MN		B1 93	B1 93	B1 93	B1 93	B1 93	B1 93	B1 93	B1 91	B1 80	12MN	9	9
1AM	B1 67	B1 62	B1 61								1AM	3	12
2											2		
3											3		
4											4		
5											5		
6											6		
7											7		
8											8		
9								A-3 64	A-3 64	A-3 62	9	3 (TEMP CONTROLS)	15
10	A-3 69	A-3 78	A-3 69					C-1 62	C-1 62	C-1 65	10	6 (A-3 GOING TO AUTO)	21
11	C-1 72	C-1 66	C-1 78	C-1 66	C-1 66	C-1 64					11	6	27 JRS
12N											12N		
1P											1P		
2											2		
3											3		
4											4		
5											5		
6											6		
7											7		
8											8		
9											9		
10											10		
11								C2 62	C2 72	C2 72	11	3	30

A MALFUNCTION
 MALFUNCTION

- * 1 Monitor Out of Service
- * 2 Burner Problem
- * 3 Control Problem
- * 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- *1 Rapid Load Change
- 2 Soot-blowing
- 3 Liming Boiler
- 4 Cleaning Air Pre-heater

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INSTRUCTIONS

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Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO. **4 (Orimulsion)** DATE **TUE FEB 12 1991**

Time	SIX MINUTE INTERVALS Greater Than 60%										Six Minute Intervals 760%		
	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours	
12MN	C282	C286	C283	C283	C265					C267	12MN	6	6
1AM	C265										1AM	1	7
2											2		
3											3		
4											4		
5											5		
6											6		
7											7		
8											8		
9											9		
10											10	1	8
11					62 A-4						11	1	9
12N											12N		
1P				61 A-4							1P	1	10
2											2		
3											3	3	13
4	63 C-1	61 C-1						62 C-1	62 C-1	62 C-1	4	2	15
5											5		
6											6		
7				62 A-3							7	1	16
8											8		
9											9		
10											10		
11		C284	C293	C293	C293	C293	C293	C290	C293	C293	11	9	25

A MALFUNCTION

MALFUNCTION

- * 1 Monitor Out of Service
- * 2 Burner Problem
- * 3 Control Problem
- * 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- *1 Rapid Load Change
- *2 Soot-blowing
- *3 Liming Boiler
- *4 Cleaning Air Pre-heater

A rapid load change is defined as a change that occurs at the rate of 0.5% per minute or more and exceeds 10% of the units rated capacity and occurs when the unit is operating at greater than 10% of rated

INSTRUCTIONS

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Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO. 4 (Orimulsion)	DATE WED FEB 13 1991
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SIX MINUTE INTERVALS <i>Greater Than 60%</i>										Six Minute Intervals <i>>60%</i>			
ne	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours	
MN	C292	C293	C292	C286	C286		C285	C288	C275	C292	12MN	9	9
AM	C290	C272	C268	C268	C267	C265	C264	C263	C263		1AM	9	18 } Blow soot
		C461	C461	C461	C461						2	4	22 } APH o.o.s.
											3		
											4		
											5		
											6		
											7		
		61913	610-1	610-1	610-1						8	4	26
											9		
											10		
											11	2	28
											12N		
N											1P		
P											2		
											3		
											4		
											5		
											6		
											7		
											8		
											9		
											10		
											11		

A MALFUNCTION

MALFUNCTION

- 1 Monitor Out of Service
- 2 Burner Problem
- 3 Control Problem
- 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- *1 Rapid Load Change
- 2 Soot-blowing
- 3 Liming Boiler
- 4 Cleaning Air Pre-heater

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INSTRUCTIONS

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Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO. 4 (Orimulsion)	DATE THU FEB 14 1991
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SIX MINUTE INTERVALS Greater Than 60%										Six Minute Intervals 760%			
me	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours	
12MN							75	90	93	92	4	4	
1AM	89	83	91	93	92	93	71	62	60		9	13	
											2		
											3		
											4		
											5		
											6		
											7		
											8		
											9		
											10		
											11	7	20
12N	66	64	61	60.5	64	61	64	66	65	65	3	23	
1P													
											2		
											3		
							69A.3				4	1	24
											5		
											6		
											7		
											8		
											9		
											10		
											11		

A MALFUNCTION

MALFUNCTION

- 1 Monitor Out of Service
- 2 Burner Problem
- 3 Control Problem
- 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- * 1 Rapid Load Change
- 2 Soot-blowing
- 3 Liming Boiler
- 4 Cleaning Air Pre-heater

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Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO. 4 (oil operation)	DATE
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Time	SIX MINUTE INTERVALS <i>Greater Than 40%</i>										Six Minute Intervals <i>74%</i>		
	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours	
12MN											12MN		
1AM											1AM		
2											2		
3											3		
4											4		
5								B-193	B-193	B-192	5	3	3
6	B-193	B-193	B-180								6	3	6
7											7		
8		C-2/23		C-2/26	C-2/22			C-2/21	C-2/62	C-2/65	8	2	8
9	C-2/38	C-2/22	C-2/21	C-2/33	C-2/29	C-2/66	C-2/32	C-2/21		A-2/52	9	2	10
10	A-2/43		A-4/34	A-4/46	A-4/65	A-4/68	A-4/52	A-4/65	A-2/64	A-2/32	10	7	17
11	23 A-2		A-2/46	A-2/50							11	2	19
12N	50 A-2	30 A-2				52 A-2					12N	2	21
1P		44 A-2									1P	1	22
2				54-A3		42-A3					2	2	24
3											3		
4											4		
5											5		
6											6		
7											7		
8											8		
9											9		
10											10		
11						C-2/81	C-2/47			C-2/68	11	3	27

<p>A MALFUNCTION</p> <p>MALFUNCTION</p> <ul style="list-style-type: none"> * 1 Monitor Out of Service * 2 Burner Problem * 3 Control Problem * 4 Other 	<p>B START-UP/SHUT-DOWN</p> <ul style="list-style-type: none"> 1 Start-Up 2 Shut-Down 	<p>C LOAD CHANGE/SOOT-BLOWING</p> <ul style="list-style-type: none"> *1 Rapid Load Change 2 Soot-blowing 3 Liming Boiler 4 Cleaning Air Pre-heater <p>A rapid load change is defined as a change that occurs at the rate of 0.5% per minute or more and exceeds 10% of the units rated capacity and occurs when the unit is operating at greater than 10% of rated</p>	<p>INSTRUCTIONS</p> <p>Fill in the opacity and reason code or codes in the appropriate box whenever the opacity exceeds 20% for any 6 minute period on the recorder. Example: 50A3 indicates an opacity reading of 50% attributed to control problems.</p> <p>Use the comment column where additional explanation is appropriate</p>
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Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO. 4 (OILS AT FEED) (OILS AT FEED)	DATE FEB 16 1991
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Time	SIX MINUTE INTERVALS Greater Than 40%										Six Minute Intervals > 60%		
	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours	
12MN	C-2 42	C-2 76	C-2 80			C-2 90	C-2 87	C-2 73	C-2 89	C-2 89	12MN	8	8
1AM	C-2 84	C-2 80									1AM	2	18
2											2		
3											3		
4											4		
5											5		
6											6		
7											7		
8											8		
9											9		
10						A-2/38					10		
11											11		
12N		A-2-43									12N	1	11
1P		A-3/86	A-3/73	A-3/42							1P	3	14
2											2		
3											3		
4											4		
5											5		
6						45 C-2					6	1	15
7							45 C-2		42 C-2		7	2	17
8									44 C-2		8	1	18
9											9		
10										54 C-4	10	1	19
11	62 C-4	59 C-4	C-4 80	C-4 68	C-4 79	C-4 65	C-4 79	C-4 52	C-4 82	C-4 78	11		29

A MALFUNCTION
MALFUNCTION

- * 1 Monitor Out of Service
- * 2 Burner Problem
- * 3 Control Problem
- * 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- * 1 Rapid Load Change
- * 2 Soot-blowing
- * 3 Liming Boiler
- * 4 Cleaning Air Pre-heater

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INSTRUCTIONS

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Use the comment column where additional

PSN

PLANT

DAILY OPACITY EMISSIONS REPORT

Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO.

4(OL)

DATE

2/17/91

Time	SIX MINUTE INTERVALS										COMMENTS		
	1	2	3	4	5	6	7	8	9	10	SIX MINUTE INTERVALS	INTERVALS > 40%	
12MN	C-4 69					C-2 60	C-2 41	C-2 70	C-2 50	C-2 50	12MN	6	6
1AM	C-4 50	C-4 53	C-4 63	C-4 51							1AM	4	10
2											2		
3											3		
4											4		
5											5		
6											6		
7											7		
8											8		
9						45 C-2		41 C-2			9	2	12
10											10		
											11		
12N											12N		
1P											1P		
2											2		
3											3		
4											4		
5											5		
6											6		
7											7		
8											8		
9											9		
10											10		
11											11		

A MALFUNCTION

MALFUNCTION

- 1 Monitor Out of Service
- 2 Burner Problem
- 3 Control Problem
- 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- *1 Rapid Load Change
- 2 Soot-blowing
- 3 Liming Boiler
- 4 Cleaning Air Pre-heater

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INSTRUCTIONS

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Use the comment column where additional explanation is appropriate.

Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO. 4 (OIL Grindmill) DATE MON FEB 18 1991

Time	SIX MINUTE INTERVALS <i>Greater Than 60% ⁴⁰</i>										Six Minute Intervals <i>>60%</i>		
	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours	
12MN						C-2 45	C-2 66	C-2 46	C-2 46		12MN	4	4
1AM					C-2 48	C-2 53	C-2 62		C-2 42		1AM	4	8
2	C-2 70	C-2 45				C-2 63	C-2 47	C-2 60	C-2 44		2	6	14
3			C-2 56	C-2 53	C-2 76	C-2 83	C-2 66	C-2 73	C-2 81	C-2 74	3	8	22
4	C-2 76	C-2 81	C-2 64	C-2 70							4	4	26
5											5		
6											6		
7											7		
8											8		
9											9		
10											10		
11											11		
12N											12N		
1P											1P		
2											2		
3											3		
4											4		
5											5		
6											6		
7											7		
8											8		
9											9		
10											10		
11											11		

A MALFUNCTION
MALFUNCTION

- * 1 Monitor Out of Service
- * 2 Burner Problem
- * 3 Control Problem
- * 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- *1 Rapid Load Change
- 2 Soot-blowing
- 3 Liming Boiler
- 4 Cleaning Air Pre-heater

A rapid load change is defined as a change that occurs at the rate of 0.5% per minute or more and exceeds 10% of the units rated capacity and occurs when the unit is operating at greater than 10% of rated.

INSTRUCTIONS

Fill in the opacity and reason code or codes in the appropriate box whenever the opacity exceeds 20% for any 6 minute period on the recorder. Example: 50A3 indicates an opacity reading of 50% attributed to control problems.

Use the comment column where additional explanation is necessary.

Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO.	DATE
4 (Or. mul. sion)	TUE FEB 19 1991

Time	SIX MINUTE INTERVALS Greater Than 60%										Six Minute Intervals > 60%		
	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours	
12MN											12MN		
1AM											1AM		
2											2		
3											3		
4											4		
5											5		
6											6		
7					65 B-1		65 B-1	74 B-1	77 B-1	76 B-1	7	5	5
8	68 B-1				64 C-1	65 C-1	65 C-1	65 C-1			8	5	10
9											9		
10	60 C-2										10		
11	61 C-2				60.5 C-2						11	2	12
12N											12N		
1P											1P		
2											2		
3											3		
4											4		
5											5		
6											6		
7											7		
8											8		
9											9		
10			C266	C273	C287	C287	C279	C281	C278	C282	10	8	20
11	C282	C289	C288	C278	C267	C269	C284	C275	C267	C266	11	10	30

A MALFUNCTION
 MALFUNCTION

- 1 Monitor Out of Service
- 2 Burner Problem
- 3 Control Problem
- 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- *1 Rapid Load Change
- 2 Soot-blowing
- 3 Liming Boiler
- 4 Cleaning Air Pre-heater

A rapid load change is defined as a change that occurs at the rate of 0.5% per minute or more and exceeds 10% of the units rated capacity and occurs when the unit is operating at greater than 10% of rated

INSTRUCTIONS

Fill in the opacity and reason code or codes in the appropriate box whenever the opacity exceeds 20% for any 6 minute period on the recorder. Example: 50A3 indicates an opacity reading of 50% attributed to control problems.

Use the comment column where additional explanation is appropriate.

Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT ~~W~~ED FEB 20 1991

4 (Orimulsion)

Time	SIX MINUTE INTERVALS Greater Than 60%										Six Minute Intervals > 60%		
	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours	
2MN			C-266	C-265			C-266	C-268	C-274	C-281	12MN	6	6
1AM	C-273	C-273	C-273	C-273	C-265	C-262	C-263	C-266	C-264	C-264	1AM	10	16
2	C-262	C-261		A-361	A-364	A-366	A-370	A-372	A-373	A-378	2	9	25
3	A-379	A-372	A-369	A-361							3	4	29
4											4		
5											5		
6											6		
7											7		
8											8		
9											9		
0											10		
1											11		
2N											12N		
1P											1P		
2											2		
3											3		
4											4		
5											5		
6											6		
7											7		
8											8		
9											9		
10											10		
11											11		

A MALFUNCTION

MALFUNCTION

- * 1 Monitor Out of Service
- * 2 Burner Problem
- * 3 Control Problem
- * 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- *1 Rapid Load Change
- 2 Soot-blowing
- 3 Liming Boiler
- 4 Cleaning Air Pre-heater

A rapid load change is defined as a change that occurs at the rate of 0.5% per minute or more and exceeds 10% of the unit's rated capacity and occurs when the unit is operating at greater than 10% of rated capacity, excluding startup and shutdown.

INSTRUCTIONS

Fill in the opacity and reason code or codes in the appropriate box whenever the opacity exceeds 20% for any 6 minute period on the recorder. Example: 50A3 indicates an opacity reading of 50% attributed to control problems.

Use the comment column where additional explanation is appropriate.

Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO. 4 (Orimulsion)	DATE FEB 21 1991
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Time	SIX MINUTE INTERVALS Greater Than 60%										Six Minute Intervals > 60%		
	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours	
12MN											12MN		
1AM						64C2	68C2	84C2	85C2	89C2	1AM	5	5
2	75C2	71C2	78C2	84C2	77C2	64C2					2	6	11
3											3		
4											4		
5											5		
6											6		
7										62 C-2	7	1	12
8	64 C-2	62 C-2	64 C-1	65 C-1			61 C-1				8	5	17
9											9		
10											10		
11											11		
12N											12N		
1P											1P		
2											2		
3											3		
4											4		
5											5		
6											6		
7											7		
8											8		
9											9		
10											10	4	21
11											11	9	30

- A MALFUNCTION**
- MALFUNCTION
- * 1 Monitor Out of Service
 - * 2 Burner Problem
 - * 3 Control Problem
 - * 4 Other

- B START-UP/SHUT-DOWN**
- 1 Start-Up
 - 2 Shut-Down

- C LOAD CHANGE/SOOT-BLOWING**
- * 1 Rapid Load Change
 - 2 Soot-blowing
 - 3 Liming Boiler
 - 4 Cleaning Air Pre-heater
- A rapid load change is defined as a change that occurs at the rate of 0.5% per minute or more and exceeds 10% of the units rated capacity and occurs when the unit is operating at greater than 10% of rated

INSTRUCTIONS

Fill in the opacity and reason code or codes in the appropriate box whenever the opacity exceeds 20% for any 6 minute period on the recorder. Example: 50A3 indicates an opacity reading of 50% attributed to control problems.

Use the comment column where additional explanation is appropriate

Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO. 4 (Or. mulSION)	DATE FRI FEB 2 1991
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SIX MINUTE INTERVALS <i>Greater Than 60%</i>											<i>Six Minute Intervals > 60%</i>		
ne	1	2	3	4	5	6	7	8	9	10		<i>This Hour</i>	<i>Last 24 Hours</i>
MN	C2 65	C2 77	C2 72	-		C2 76		C2 86	C2 66		12MN	6	6
AM											1AM		
											2		
											3		
											4		
											5		
											6		
											7		
											8		
											9		
											10		
											11		
N											12N		
P											1P		
											2		
											3		
											4		
											5		
											6		
							C2-64	C2-86	C2-84	C2-88	7	4	10
	C2-90	C2-87	C2-82	C2-70	C2-80	C2-78	C2-72	C2-76	C2-70		8	9	19
		C2-68						C2-71		C2-81	9	3	22
	C2-70	C2-74				C2-72	C2-85				10	4	26
											11		

<p>A MALFUNCTION</p> <p>MALFUNCTION</p> <ul style="list-style-type: none"> * 1 Monitor Out of Service * 2 Burner Problem * 3 Control Problem * 4 Other 	<p>B START-UP/SHUT-DOWN</p> <ul style="list-style-type: none"> 1 Start-Up 2 Shut-Down 	<p>C LOAD CHANGE/SOOT-BLOWING</p> <ul style="list-style-type: none"> * 1 Rapid Load Change 2 Soot-blowing 3 Liming Boiler 4 Cleaning Air Pre-heater <p><small>A rapid load change is defined as a change that occurs at the rate of 0.5% per minute or more and exceeds 10% of the units rated capacity and occurs when the unit is operating at greater than 10% of rated capacity, excluding startup and shutdown.</small></p>	<p style="text-align: center;">INSTRUCTIONS</p> <p>Fill in the opacity and reason code or codes in the appropriate box whenever the opacity exceeds 20% for any 6 minute period on the recorder. Example: 50A3 indicates an opacity reading of 50% attributed to control problems.</p> <p>Use the comment column where additional explanation is appropriate.</p>
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Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO. B.A.T DATE FEB 23 1991
4 (Orimulsion)

Time	SIX MINUTE INTERVALS <i>Greater Than 60%</i>										<i>Six Minute Intervals > 60%</i>	
	1	2	3	4	5	6	7	8	9	10	<i>This Hour</i>	<i>Last 24 Hours</i>
12MN												
1AM												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12N												
1P												
2												
3												
4												
5												
6				B1-80	B1-94	B1-94	B1-94	B1-94	B1-94	B1-94	6	7
7	B1-88	B1-87	B1-86	B1-82	B1-76	B1-68	B1-64				7	14
8					C4-61						8	15
9			C4-62	C4-63	C4-64						9	18
10		C2-68	C2-62		C2-72	C2-73	C2-75		C2-86		10	24
11		C2-86		C2-66	C2-70						11	27

A MALFUNCTION
 MALFUNCTION

- * 1 Monitor Out of Service
- * 2 Burner Problem
- * 3 Control Problem
- * 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- *1 Rapid Load Change
- 2 Soot-blowing
- 3 Liming Boiler
- 4 Cleaning Air Pre-heater

A rapid load change is defined as a change that occurs at the rate of 0.5% per minute or more and exceeds 10% of the units rated capacity and occurs when the unit is operating at greater than 10% of rated capacity, excluding startup and shutdown.

INSTRUCTIONS

Fill in the opacity and reason code or codes in the appropriate box whenever the opacity exceeds 20% for any 6 minute period on the recorder. Example: 50A3 indicates an opacity reading of 50% attributed to control problems.

Use the comment column where additional explanation is appropriate.

Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO. 4 (Orimulsion)	DATE FEB 24 1991
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Time	SIX MINUTE INTERVALS <i>Greater Than 60%</i>										Six Minute Intervals <i>>60%</i>			
	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours		
12MN	C-2 61					C-2 76	C-2 66				12MN	3	3	
1AM				C-2 67				C-2 68	C-2 68		1AM	3	6	
2	C-2 84	C-2 76	C-2 72	C-2 84	C-2 82	C-2 64		C-2 82		C-2 78	2	8	14	
3	C-2 63							C-2 62	C-2 64	C-2 69	C-2 65	3	5	19
4				C-2 71	C-2 64							4	2	21
5												5		
6												6		
7												7		
8												8		
9												9		
10												10		
11												11		
12N												12N		
1P												1P		
2												2		
3												3		
4												4		
5												5		
6												6		
7												7		
8												8		
9												9		
10												10		
11												11		

A MALFUNCTION
 MALFUNCTION

- 1 Monitor Out of Service
- 2 Burner Problem
- 3 Control Problem
- 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- *1 Rapid Load Change
- 2 Soot-blowing
- 3 Liming Boiler
- 4 Cleaning Air Pre-heater

INSTRUCTIONS

Fill in the opacity and reason code or codes in the appropriate box whenever the opacity exceeds 20% for any 6 minute period on the recorder. Example: 50A3 indicates an opacity reading of 50% attributed to control problems.

Use the comment column where additional explanation is appropriate.

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Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO. 4 (Orimulsion)	DATE MON FEB 25 1991
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Time	SIX MINUTE INTERVALS Greater Than 60%										Six Minute Intervals > 60%		
	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours	
12MN											12MN		
1AM											1AM		
2											2		
3											3		
4											4		
5											5		
6											6		
7											7		
8			90 B-1	61 B-1		70 B-1	87 B-1	91 B-1	92 B-1		8	6	
9			85 B-1	74 B-1	63 B-1						9	9	
10											10		
11								63 A-2	62 A-2	62 A-2	11	3	12
12N	62 A-2										12N	1	13
1P				61 C-2	61 C-2	62 C-2	64 C-2	62 C-2	61 C-2		1P	6	19
2											2		
3											3		
4											4		
5							A-3 64				5	1	20
6											6		
7											7		
8									G-2 61		8	1	21
9											9		
10											10		
11		G-2 65		C-2 71	C-2 79	C-2 79	C-2 82		C-2 74	C-2 81	11	7	28

A MALFUNCTION
MALFUNCTION

- * 1 Monitor Out of Service
- * 2 Burner Problem
- * 3 Control Problem
- * 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- * 1 Rapid Load Change
- 2 Soot-blowing
- 3 Liming Boiler
- 4 Cleaning Air Pre-heater

A rapid load change is defined as a change that occurs at the rate of 0.5% per minute or more and exceeds 10% of the units rated capacity and occurs when the unit is operating at greater than 10% of rated

INSTRUCTIONS

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Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO.: 4 (Orimulsion)	DATE FEB 26 1991
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Time	SIX MINUTE INTERVALS <i>Greater Than 60%</i>										Six Minute Intervals <i>760%</i>	
	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours
12MN			C-2 63	C-2 63	C-2 62		C-2 63	C-2 61		C-2 69	6	6
1AM	C-2 69	C-2 69	C-2 68								3	9
2												
3												
4												
5												
6												
7												
8												
9								A-3 65	A-3 72	A-3 63	3	12
10												
11												
12N												
1P												
2												
3												
4												
5												
6								(PUT IN SERIAL) A-2 72		A-2 80	2	14
7	A-2 78	A-2 65									2	16
8												
9												
10								C-2 79	C-2 78		2	18
11	C-2 91	C-2 89	C-2 91	92C2	85C2	68C2	79C2			79C2	8	26

A MALFUNCTION
 MALFUNCTION

- * 1 Monitor Out of Service
- * 2 Burner Problem
- * 3 Control Problem
- * 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- * 1 Rapid Load Change
- 2 Soot-blowing
- 3 Liming Boiler
- 4 Cleaning Air Pre-heater

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INSTRUCTIONS

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Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO.:	DATE
4 (Orimulsion)	WED FEB 27 1991

Time	SIX MINUTE INTERVALS Greater Than 60%										Six Minute Intervals 760%		
	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours	
12MN											12MN		
1AM											1AM		
2		6502	7402	8402	7302	6002	6602	7202	6902	6902	2	9	9
3											3		
4			68A3								4	1	10
5									A2161		5	1	11
6											6		
7											7		
8											8		
9											9		
10									A460		10	1	12
11											11		
12N											12N		
1P											1P		
2											2		
3											3		
4											4		
5								A364	A364	A374	5	3	15
6	A366	A364							A360	A361	6	4	19
7	A368	A368									7	2	21
8											8		
9											9		
10											10		
11		C289	C289	C290	C292	C287		C287			11	0	27

A MALFUNCTION
 MALFUNCTION

- * 1 Monitor Out of Service
- * 2 Burner Problem
- * 3 Control Problem
- * 4 Other

B START-UP/SHUT-DOWN

- 1 Start-Up
- 2 Shut-Down

C LOAD CHANGE/SOOT-BLOWING

- *1 Rapid Load Change
- 2 Soot-blowing
- 3 Liming Boiler
- 4 Cleaning Air Pre-heater

INSTRUCTIONS

Fill in the opacity and reason code or codes in the appropriate box whenever the opacity exceeds 20% for any 6 minute period on the recorder. Example: 50A3 indicates an opacity reading of 50% attributed to control problems.

Use the comment column where additional explanation is appropriate.

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Sanford PLANT
DAILY OPACITY EMISSIONS REPORT
 Form 4954 (Non-Stocked) Rev. 2/84

UNIT NO. **THU** FEB 28 1991
4 (Orimulsion)

Time	SIX MINUTE INTERVALS Greater Than 60%										Six Minute Intervals 760%		
	1	2	3	4	5	6	7	8	9	10	This Hour	Last 24 Hours	
12MN	C2 72	C2 61	C2 83	C2 64	C2 64	C2 68	C2 84	C2 84	C2 68	C2 86	12MN	10	10
1AM		C4 86	C4 92	C4 84	C4 72	C4 67	C4 65	C4 63	C4 62	C4 63	1AM	9	19
2	C4 61										2	1	20
3											3		
4											4		
5											5		
6											6		
7											7		
8		A2-61									8	1	21
9	A3 66	-	A3 66		A3 82	A3 69	A3 72	A3 71	A3 67		9	7	28
10											10		
11											11		
12N											12N		
1P											1P		
2											2		
3											3		
4											4		
5											5		
6											6		
7											7		
8											8		
9											9		
10											10		
11											11		

<p>A MALFUNCTION</p> <p>MALFUNCTION</p> <ul style="list-style-type: none"> 1 Monitor Out of Service 2 Burner Problem 3 Control Problem 4 Other 	<p>B START-UP/SHUT-DOWN</p> <ul style="list-style-type: none"> 1 Start-Up 2 Shut-Down 	<p>C LOAD CHANGE/SOOT-BLOWING</p> <ul style="list-style-type: none"> *1 Rapid Load Change 2 Soot-blowing 3 Liming Boiler 4 Cleaning Air Pre-heater <p>A rapid load change is defined as a change that occurs at the rate of 0.5% per minute or more and exceeds 10% of the units rated capacity and occurs when the unit is operating at greater than 10% of rated capacity, excluding startup and shutdown.</p>	<p>INSTRUCTIONS</p> <p>Fill in the opacity and reason code or codes in the appropriate box whenever the opacity exceeds 20% for any 6 minute period on the recorder. Example: 50A3 indicates an opacity reading of 50% attributed to control problems.</p> <p>Use the comment column where additional explanation is appropriate.</p>
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SECTION 2
NOX #/MMBTU HOURLY AVERAGES

The following data was compiled from data obtained by the data acquisition system provided with the Continuous Emissions Monitoring equipment supplied by Spectrum Systems Inc.. The DAS is a certified data collection system. The data was collected starting with the initial orimulsion test burn. The fuel factor used for calculations was 9190.

NOX IN POUNDS PER MILLION BTU, FP&L, SANFORD PLANT, UNIT 4. MONTH OF FEBRUARY, 1991.

HR BEGIN	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	DAILY	
HR END	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVERAGE	
DAY OF MONTH																										
1	-0.05	-0.07	-0.07	0.29	0.61	0.51	0.51	0.60	0.61	0.68	0.74	0.73	0.82	0.38	0.67	0.61	0.67	0.72	0.70	0.70	0.70	0.64	-0.06	-0.07	0.47	
2	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	0.23	0.41	0.69	0.48	0.41	0.04
3	0.43	0.51	0.51	-0.05	-0.05	-0.05	-0.05	-0.05	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	0.01	
4	-0.07	-0.07	-0.07	-0.07	-0.07	0.23	0.65	0.75	0.49	0.60	0.60	0.67	0.66	0.68	0.66	0.62	0.68	0.74	0.74	0.73	0.73	0.72	0.60	0.44	0.49	
5	-0.05	-0.05	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	0.23	0.37	0.38	0.20	0.32	0.21	-0.05	-0.07	-0.07	-0.07	-0.07	0.02	
6	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.05	-0.05	-0.05	-0.07	0.51	0.61	0.63	0.54	0.64	0.69	0.71	0.75	0.74	0.74	0.73	0.73	0.65	0.59	0.38	
7	0.58	0.65	0.67	0.67	0.67	0.67	0.65	0.64	0.66	0.65	0.67	0.66	0.70	0.71	0.70	0.69	0.69	0.71	0.70	0.70	0.71	0.71	0.68	0.67	0.68	
8	0.65	0.65	0.65	0.66	0.66	0.67	0.65	0.66	0.70	0.70	0.72	0.76	0.79	0.78	0.75	0.78	0.79	0.77	0.77	0.78	0.73	0.65	0.51	0.43	0.69	
9	0.36	0.38	0.36	-0.05	-0.05	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07												0.04	
10																										
11																										
12																										
13														0.65	0.65	0.64	0.65	0.65	0.65	0.65	0.65	0.62	0.61	0.60	0.59	0.63
14	0.59	0.58	0.59	0.57	0.57	0.57	0.55	0.55	0.55	0.55	0.54	0.60	0.64	0.66	0.68	0.65	0.63	0.62	0.62	0.62	0.62	0.58	0.54	-0.05	0.57	
15	-0.05	-0.05	-0.05	-0.05	-0.05	0.08	0.35	0.33	0.32	0.22	0.22	0.33	0.49												0.16	
16																										
17																										
18																										
19																						0.44	0.44	0.55	0.62	0.51
20	0.63	0.64	0.53	0.62	0.61	0.63	0.63	0.64	0.64	0.64	0.64	0.63	0.65	0.66	0.65	0.64	0.64	0.67	0.66	0.67	0.68	0.70	0.69	0.68	0.65	
21	0.68	0.67	0.67	0.67	0.66	0.66	0.65	0.66	0.71	0.63	0.56	0.00	0.46	0.39	0.00	0.46	0.49	0.49	0.48	0.47	0.46	0.46	0.59	0.68	0.53	
22	0.71	0.68	0.68	0.71	0.64	0.65	0.62	0.63	0.66	0.63	0.57	0.56	0.58	0.55	0.54	0.64	0.62	0.59	0.61	0.59	0.74	0.83	-0.03	-0.03	0.58	
23	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.05	-0.05	-0.05	-0.05	-0.05	-0.03	-0.03	-0.03	-0.03	0.39	0.65	0.58	0.58	0.52	0.48	0.11	
24	0.44	0.54	0.49	0.49	0.30	-0.02	-0.02	-0.02	-0.02	0.00	0.02	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	0.07	
25	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	0.16	0.60	0.59	0.62	0.64	0.59	0.64	0.65	0.70	0.78	0.72	0.67	0.72	0.74	0.66	0.64	0.41	
26	0.66	0.66	0.66	0.64	0.64	0.63	0.65	0.70	0.72	0.65	0.74	0.76	0.70	0.69	0.66	0.64	0.72	0.72	0.62	0.60	0.63	0.65	0.65	0.67	0.67	
27	0.63	0.64	0.65	0.64	0.63	0.66	0.76	0.77	0.75	0.66	0.52	0.48	0.46	0.44	0.44	0.52	0.52	0.56	0.57	0.63	0.64	0.64	0.69	0.68	0.60	
28	0.66	0.59	0.64	0.66	0.66	0.65	0.65	0.66	0.64	0.53	0.71	0.71	0.71	0.70	0.71	0.71	0.73	0.72	0.72	0.71	0.70	0.70	0.70	0.70	0.68	

BLACKENED SQUARES INDICATE INSUFFICIENT DATA WAS OBTAINED AND AN HOURLY AVERAGE WAS NOT CALCULATED.

SECTION 3
CO PPM HOURLY AVERAGES

The following data was compiled from data obtained by the data acquisition system provided with the Continuous Emissions Monitoring equipment supplied by Spectrum Systems Inc.. The DAS is a certified data collection system. The data was collected starting with the initial orimulsion test burn.

CO IN PARTS PER MILLION, FP&L, SANFORD PLANT, UNIT 4, MONTH OF FEBRUARY, 1991.

HR BEGIN	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
HR END	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
DAY OF MONTH																									DAILY AVERAGE	
1	2	0	0	118	182	150	141	24	2	0	0	0	12	81	0	0	-1	22	-1	-1	0	9	8	0	32	
2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	214	365	182	233	339	65	
3	326	127	81	23	26	19	12	9	6	4	3	3	3	3	3	2	1	0	0	0	0	0	0	0	27	
4	0	0	0	0	0	132	165	126	331	45	3	2	1	1	1	1	1	0	0	0	1	0	-1	13	34	
5	5	4	3	3	2	1	0	0	1	6	9	8	3	254	147	67	77	57	26	8	5	4	4	3	29	
6	3	3	2	1	0	0	1	2	3	2	184	111	47	9	2	1	1	0	0	0	0	0	0	-1	15	
7	0	4	3	3	2	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
8	0	0	0	0	0	0	0	0	-1	6	3	0	2	11	125	215	172	43	18	2	1	0	109	116	34	
9	144	145	91	14	4	3	3	2	1	1	0	1	1	2	0	1	1	1	0	0	0	0	-1	387	33	
10	223	116	56	20	3	1	0	0	0	0	-1	-1	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	16	
11	-1	-1	6	482	246	301	145	212	125	46	-1	-1	-1	-1	-1	-1	0	-1	-1	-1	-1	0	0	0	65	
12	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	83	996	1001	1001	1001	1001	1001	186	0	261	
13	0	0	-1	0	0	0	0	0	-1	-1	-1	-1	0	-1	-1	0	0	-1	0	0	0	0	0	0	0	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	1	0	0	0	0	0	4	6	0	
15	2	1	1	1	1	451	271	17	1	1	41	24	48	8	6	118	78	42	83	62	68	9	0	1	56	
16	1	1	1	1	1	0	1	1	1	1	1	1	2	2	0	0	0	0	1	1	1	1	1	1	1	
17	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	
18	1	1	1	1	1	1	1	1	1	1	0	0	0	14	75	70	70	71	70	0	0	0	0	0	0	16
19	0	0	0	0	0	0	0	0	0	0	0	0	5	5	6	6	6	5	11	0	449	537	64	-2	46	
20	-1	0	-2	22	28	2	1	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2	-2	-2	1	
21	-2	-2	-2	-2	-2	-2	-2	-1	-1	-1	-1	0	507	347	0	914	311	194	246	229	180	264	29	-2	133	
22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-2	-2	-1	-1	-1	42	-1	183	500	314	438	-1	179	1	0	68	
23	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	532	467	259	153	249	294	81	
24	312	239	277	276	130	30	16	8	4	3	2	2	2	1	0	0	0	0	-1	-1	-1	-1	-1	-1	54	
25	-1	-1	-1	-1	-1	-1	-1	7	277	363	163	43	12	1	-1	-1	0	7	446	1002	537	-1	-1	-1	119	
26	-1	-1	-2	-1	-2	-1	-1	-1	117	469	-1	25	979	1002	1002	772	95	141	511	1002	782	14	1	-2	287	
27	-2	-2	-2	-2	18	-2	-2	-1	-1	185	432	118	0	1	0	171	189	125	199	618	165	94	0	-2	96	
28	-2	-2	-1	-2	-2	-2	-2	-1	9	182	-1	-2	-2	-1	-1	-1	-1	0	0	0	1	2	2	5	7	

BLACKENED SQUARES INDICATE INSUFFICIENT DATA WAS OBTAINED TO CALCULATE AN ACCURATE HOURLY AVERAGE.

**CONTINUOUS EMISSIONS MONITORING REPORT
FLORIDA POWER AND LIGHT
SANFORD PLANT
UNIT FOUR
ORIMULSION TEST BURN PROJECT
MONTH OF FEBRUARY, 1991**

**DATA COMPILED BY
SPECTRUM SYSTEMS INC.
PENSACOLA, FL**

SECTION 1
SIX MINUTE OPACITY AVERAGES

The following data was compiled from a copy of the original strip chart recordings provided to Spectrum Systems Inc. by Florida Power and Light for unit four at the Sanford Plant. Hourly averages were obtained by taking the sum of the valid six minute averages and dividing by the number of valid averages. This gives a real average based on known good minutes. The squares on the data table that are blacked in are the six minute averages that were deemed invalid due to calibrations happening, or any reason causing the integrated output from the opacity monitor to go to zero while the unit is on-line.

Opacity Monitor Six Minute Averages, FEBRUARY 1, 1991.

SIX MINUTE PERIOD	:00-:06	:06-:12	:12-:18	:18-:24	:24-:30	:30-:36	:36-:42	:42-:48	:48-:54	:54-:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
1: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
2: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
3: A.M.	0	0	0	2	49.5	46	46	46.8	54	66.5	31.08
4: A.M.	71.8	65.5	66	57	60	72	93	63.5		27	63.98
5: A.M.	38.5	38	42	38	38	38	36	31	32	34	36.55
6: A.M.	34.5	34.5	34.5	34	34.5	34	34	34	35	33	34.20
7: A.M.	31	40	46.3	53.2	50	58.8	58.8	57.5	62	52.5	51.01
8: A.M.	68	60	57	63.8		66.5	62	57.5	57	61.5	61.48
9: A.M.	63	58.8	59	60	60	62.7	64	62.5	62.7	62	61.47
10: A.M.	60.5	59	58	58	56.5	56	55.3	55.3	55	54.5	56.81
11: A.M.	54	54	54	54	54	63.3	53	53.5	54	53	54.68
12: NOON	50	50	49	49	49	49.5	50.3	50	49	42	48.78
1: P.M.	30.1	12	22	19	22.4	24	25	24.8	29.9	46.8	25.60
2: P.M.	54	57	55.8	56	53	50	44	42.5	42.5	42	49.68
3: P.M.	44	47.3	21.9	53.8	52.5	54	56	58.6	55.5	53	49.66
4: P.M.	56	56	57	58		60	60.8	58.8	60	62.3	58.77
5: P.M.	63	66	66	66.2	63.8	64	62	59	59	58.3	62.73
6: P.M.	58.9	57.2	56.2	55	55.5	55.5	55.3	55	55	55	55.86
7: P.M.	55	55	55	55	55	54.8	54.8	54.8	54.8	54.8	54.90
8: P.M.	54.8	54.8	54.8	53.5	50	48	48	47.5	47.5	46.5	50.54
9: P.M.	44.5	42	40	37.8	41	42	40	38	7	3.5	33.58
10: P.M.	2	1	0.2	0	0	41.5	22.5	16.5	14	12.6	11.03
11: P.M.	11	12	10	10	10.6	4	3.5	2.5	2	2	6.76

Darkened Squares Indicate no data obtained for that time period.

Opacity Monitor Six Minute Averages, FEBRUARY 2, 1991.

SIX MINUTE PERIOD	:00--:06	:06--:12	:12--:18	:18--:24	:24--:30	:30--:36	:36--:42	:42--:48	:48--:54	:54--:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	2	2	4	4		2	2	2	1.8	1.8	2.40
1: A.M.	1.8	1.6	1.4	1.4	1.4	1.3	1.3	1	1	1	1.32
2: A.M.	1	0	0	0	0	0	0	0	0	0	0.10
3: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
4: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
5: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
6: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
7: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
8: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
9: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
10: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
11: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
12: NOON	0	0	0	0	0	0	0	0	0	0	0.00
1: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
2: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
3: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
4: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
5: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
6: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
7: P.M.	0	2	95	95	95	95	95	95	95	94.5	76.15
8: P.M.	94	95	95	95	94	92	90	93	83	63	89.40
9: P.M.	56	44	38	34.5	33.2	33	34	29.5	23	60.3	38.55
10: P.M.	84.5	69	65	67	36	50	72.6	52.4	50	54	60.05
11: P.M.	51	50	51	50	49	48	47.5	47.5		46.5	48.94

Darkened Squares indicate no data obtained for that time period.

Opacity Monitor Six Minute Averages, FEBRUARY 3, 1991.

SIX MINUTE PERIOD	:00-:06	:06-:12	:12-:18	:18-:24	:24-:30	:30-:36	:36-:42	:42-:48	:48-:54	:54-:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	46	47	52	64		60	62.5	67.5	71	58	58.67
1: A.M.	89	77	78.6	79.3	44.4	29	44	68.4	36	82	62.77
2: A.M.	40.5	84	51	92		86.3	84	84.2	83.8	19	69.42
3: A.M.	3.5	2.5	0	0	0	0	0	0	0	0	0.60
4: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
5: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
6: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
7: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
8: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
9: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
10: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
11: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
12: NOON	0	0	0	0	0	0	0	0	0	0	0.00
1: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
2: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
3: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
4: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
5: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
6: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
7: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
8: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
9: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
10: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
11: P.M.	0	0	0	0	0	0	0	0	0	0	0.00

Darkened Squares Indicate no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 4, 1991.

SIX MINUTE PERIOD	:00-:06	:06-:12	:12-:18	:18-:24	:24-:30	:30-:36	:36-:42	:42-:48	:48-:54	:54-:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
1: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
2: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
3: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
4: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
5: A.M.	1.2	4	1.2	0.2	30	60.2	67	68	76	69.7	37.75
6: A.M.	59.5	54.5	50	46.5	51	60	65	72	69	40.5	56.80
7: A.M.	35	38	33	32	31.5	31	27.8	28.2	27.5	36	32.00
8: A.M.	43.5	46.5	46	43.5	69.5		70.5	58	34		51.44
9: A.M.				37	39	42	46.2	46.3	41.5	39	41.57
10: A.M.	38.5	38.5	46	51.5	56.5	53	63	59	52	48	50.60
11: A.M.	57	54	45.5	44.5	46	49	47	46	45.9	52	48.69
12: NOON	50	54	55.5	54	58	57	60.5	64	63.5	60.2	57.67
1: P.M.	56.5	54.5	53	52	51	53	53.5	54	53.5	53.9	53.49
2: P.M.	54	54	54	54	54	54	54	54	54	54.3	54.03
3: P.M.	57.5	58.2	58.5	58.2	57.5	57	57	57.5	57.2	57	57.56
4: P.M.	57	56.5	56	58		58	57.8	56.5	56.5	57	57.03
5: P.M.	57.2	57.2	58	58	58	57.9	57.8	57.8	57.8	57.5	57.72
6: P.M.	57.5	57.5	57.5	57	57	57	56.8	56.8	56.8	56.8	57.07
7: P.M.	56.8	56.8	56.8	56.5	56.5	56.4	56.4	56.4	56.4	56.4	56.54
8: P.M.	57	58	57.5	57	56.5	56.2	56.4	57	57	56	56.86
9: P.M.	55	56.5	56.5	56.2	56	56	56	55	53	53	55.32
10: P.M.	53	54	53.8	53.5	53.5	54	54.2	53.8	54	58	54.18
11: P.M.	58	56	53	46	24.8	4	1	0	0	0	24.28

Darkened squares indicate no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 5, 1991.

SIX MINUTE PERIOD	:00-:06	:06-:12	:12-18	:18-:24	:24-:30	:30-:36	:36-:42	:42-:48	:48-:54	:54-:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
1: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
2: A.M.	0.2	0.2	0.3	0.4	0.6	0.8	0.8	1	1	1	0.63
3: A.M.	1	1	1	1	1	1	1	1.2	1.4	1.6	1.12
4: A.M.	1.8	2	2	2	2	2	2	2	1.8	1.8	1.94
5: A.M.	1.7	1.6	1.4	1.4	1.4	1.4	1.2	1.2	1	1	1.33
6: A.M.	1	38	0	0	0	0	0	0	0	0	3.90
7: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
8: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
9: A.M.	1	2	2	2	1.5	1.2	1.2	1.2	1.2	1.5	1.48
10: A.M.	1.5	1.2	1	0.8	0.6	0.4	0.6	2	3	3	1.41
11: A.M.	3	2.5	2	1.5	1.3	1.2	1	0	0	0	1.25
12: NOON	0	0	0	0	0	0	0	0	0	0	0.00
1: P.M.	0	0	4	24	24.2	64	84	61	33.2	34	32.84
2: P.M.	34	33	48	50.2	72	89	69.5	58	14.5	6.5	47.47
3: P.M.	62	61	90	80	48.5	68	44	68	73	80	67.45
4: P.M.	78	64.5	36	51.6	58	84		93	82	54.5	66.84
5: P.M.	89.5	72.6		17.5	13	11.5	18.8	31.5	24	23.8	33.58
6: P.M.	20	15	13	12.5	8.8	8.2	10	18.2	15	3	12.37
7: P.M.	0.8	0.4	0.2	0	0	0	0	0	0	0	0.14
8: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
9: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
10: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
11: P.M.	0	0	0	0	0	0	0	0	0	0	0.00

Darkened squares indicate no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 6, 1991.

SIX MINUTE PERIOD	:00-:06	:06-:12	:12-:18	:18-:24	:24-:30	:30-:36	:36-:42	:42-:48	:48-:54	:54-:60	HOUR AVERAGE
12: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
1: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
2: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
3: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
4: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
5: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
6: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
7: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
8: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
9: A.M.	0	0	0	0	0	0	26	76.2	48	31	18.12
10: A.M.	24	47	41	69	36	49	51.5	41	39.9	40	43.84
11: A.M.	34	37	36	37	37	37	42	34.5	38	58	39.05
12: NOON	66.5	64	64.5	58.5	54	43	42	41	40.2	39.5	51.32
1: P.M.	39	41	59.5	67.5	67	65	57	57	62	68	58.30
2: P.M.	71.5	53.5	55	67.2	60.2	50.8	46	47.5	49	50.3	55.10
3: P.M.	58.2	63	55.5	59	57.8	56	57.8	59	57	56.5	57.98
4: P.M.	56.5	56	56	56	56		56	56.5	56.5	57	56.28
5: P.M.	58	57.6	57.6	57.4	57.2	57.5	58	58	58	58	57.73
6: P.M.	58	57.8	57.5	57.5	57.5	57.5	57.6	57.6	57.5	57.6	57.61
7: P.M.	57.6	57.5	57.2	57.2	57.2	57.2	57.2	57.2	57	57	57.23
8: P.M.	57	57	57	57	57	56.8	56.8	56.8	56.8	56.8	56.90
9: P.M.	56.8	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	55.8	56.62
10: P.M.	53	52.5	52.1	52	52.1	53.2	66	70.4	80	46	57.73
11: P.M.	76	91	81	90	84.4	70.8	72	73	72.4	73	78.36

Darkened squares indicate no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 7, 1991.

SIX MINUTE PERIOD	:00-:06	:06-:12	:12-:18	:18-:24	:24-:30	:30-:36	:36-:42	:42-:48	:48-:54	:54-:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	73.5	73.8		72.6	72.6		66	64	62.2	62.5	68.40
1: A.M.	66.2	70.2	72.2	74.1	66	59.9	58	54.1	53.8	53.2	62.77
2: A.M.	52	48.5	47.8	48.2	49.5	50.3	51	51	50.9	50.8	50.00
3: A.M.	50.8	50.8	50.8	50.8	50.2	48.8	48	48	48	49	49.52
4: A.M.	49.5	50.1	50.4	50.6	51	52	52	52	52.4	52	51.20
5: A.M.	52	51.7	51.2	51	51	51	51	51	51	51	51.19
6: A.M.	51.2	51.2	51.5	51.5	51.5	51.5	53	56	60.2	64.2	54.18
7: A.M.	72	54.5	55.8	47.6	51	51	49.5	53	54	53	54.14
8: A.M.	52.2	52	52	52		51.6	51.6	52	53.8	54.4	52.40
9: A.M.	56.2	56.2	56	56.2	57.5	59.9	58	57	56.4	56.5	56.99
10: A.M.	56.5	56.8	56.5	56.2	56	56	55.9	55.8	55.8	56	56.15
11: A.M.	57.2	59	59.5	59.2	59.2	59.2	59.2	59	58.2	56	58.57
12: NOON	55	55	54	54	55.2	68.8	63.5	62.8	62.8	61.2	59.23
1: P.M.	57.5	56.5	57	56.5	56.5	57	57.5	57.5	56.8	56	56.88
2: P.M.	56	56	56	56	56	58	60.1	59	63	61	58.11
3: P.M.	57	57	56.8	56	55.8	55.8	55.6	55.6	56	55.9	56.15
4: P.M.	54.2	53.9	54.3	56		57	59.5	59.5	60	60	57.16
5: P.M.	58	56.5	56.7	57	57	57.5	58	58	58	58	57.47
6: P.M.	58	59	58.8	58.5	58	57.5	57	56.9	56.5	56.4	57.66
7: P.M.	56.2	56	56	56	56	56	56	56	56	56	56.02
8: P.M.	56	56	56	56	56	56	56	56	56	56	56.00
9: P.M.	55.9	55.8	55.6	55.5	55.5	55.2	55.2	55.2	55.1	55	55.40
10: P.M.	55	52.8	52	52	51.6	51.2	49	47.5	45	43	49.91
11: P.M.	39.7	37	35.8	38	35	34	33	33	78.2	90.2	45.39

Darkened squares indicate no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 8, 1991.

SIX MINUTE PERIOD	:00-:06	:06-:12	:12-:18	:18-:24	:24-:30	:30-:36	:36-:42	:42-:48	:48-:54	:54-:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	84.5	87	85.2			64	83.5	40.8	46	43	66.75
1: A.M.	43	43	40	40	40	40	40	39.8	39.8	39.8	40.54
2: A.M.	39.8	39.8	39.8	39.8	39.8	39.8	40	40.2	40.4	40.4	39.98
3: A.M.	40.5	40.5	40.5	40.8	40.8	40	39	38.5	38.5	38.5	39.76
4: A.M.	38.5	38.2	38.2	38.2	38.2	38	37.9	37.8	37.8	37.9	38.07
5: A.M.	39.2	39.2	39.1	39	38.8	39	38.8	38.8	38.8	38.8	38.95
6: A.M.	39	38.5	38.2	38.2	38.2	38.2	42	46	46	49	41.33
7: A.M.	51	54	55.8	57	57.2	58	59	56	57	57.2	56.22
8: A.M.	58	58.2	58	58	59.9		57	56.2	55.8	55.5	57.40
9: A.M.	55	55	55.8	56	57	58	57.8	57	57	56	56.46
10: A.M.	56	55.9	55.9	56.1	55.9	55.6	55.6	55.6	56	57.4	56.00
11: A.M.	56	56	55.6	55.2	55	55	55	55.8	55.8	55.8	55.52
12: NOON	55.8	55	55.2	56	56	56.2	58	57.5	57.5	57.9	56.51
1: P.M.	58	58	58	58	58	58	57.9	57.8	57.8	57.8	57.93
2: P.M.	57.8	57.8	57.2			57.5	57.5	56.5	57.2	56	57.19
3: P.M.	57	57	57	57	57	57.5	57.9	58	58	58	57.44
4: P.M.	58	58	58	58	58	58		57.9	57.9	57.9	57.97
5: P.M.	57.8	57.5	57	56.8	56.2	56	56	56	56	56	56.53
6: P.M.	58.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	57.2	57	56.82
7: P.M.	57	56.7	56.5	56	56	56	56	56	56		50.62
8: P.M.		56	56	56	56	56	55.9	56.1	52.4	51.5	55.10
9: P.M.	49.8	48	46	45	44.2	42	40.2	38.2	39	62	45.44
10: P.M.	84	89	86	74	56.8	86	93	83.4	93	82	82.72
11: P.M.	91	71.5	83	64	64	64	51	77.5	65.8	74.8	70.66

Darkened squares indicate no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 9, 1991.

SIX MINUTE PERIOD	:00-:06	:06-:12	:12-:18	:18-:24	:24-:30	:30-:36	:36-:42	:42-:48	:48-:54	:54-:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	54		65	88	85.5		69	43.8	38	55	62.29
1: A.M.	78	46	88	87.8	92	90	73	91.5	83.5	92.8	82.26
2: A.M.	86	70	88.6	92	92	92.2	71.5	67	50	17.5	72.68
3: A.M.	6	7	6	4	2	1	0.8	0.2	0.2	0.2	2.74
4: A.M.	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20
5: A.M.	0.2	0.2	0.2	0.2	0.2	0	0	0	0	0	0.10
6: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
7: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
8: A.M.	0	0	0	0	0	0	0	0	0	1	0.10
9: A.M.	4	1.7	23	0.2	0.1	0	0	0	0	0	2.90
10: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
11: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
12: NOON	0	0	0	0	0	0	0	0	0	0	0.00
1: P.M.	3.5	6.7	2	0.5	2	3	24.5	22	32	31.5	12.77
2: P.M.	22	6.1	1.5	0	0	0	0	0	0	0	2.96
3: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
4: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
5: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
6: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
7: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
8: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
9: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
10: P.M.	0	0	0	0	0	0	14	10	6.8	9.4	4.02
11: P.M.	3.5	43	86.5	77	76	84	80	74	70	70	66.40

Darkened squares indicate no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 10, 1991.

SIX MINUTE PERIOD	:00-:06	:06-:12	:12-:18	:18-:24	:24-:30	:30-:36	:36-:42	:42-:48	:48-:54	:54-:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	71	64.5	56.5	50			53	81	64	50	61.25
1: A.M.	70	66.8	71.2	85.5	82.5	79.5	83	74.2	46.5	86	74.52
2: A.M.	68	83	84.2	69.5	72	74.3	78	72.5	46	42.5	69.00
3: A.M.	43	52	20	6	4.1	3.9	1	0.2	0.1	0	13.03
4: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
5: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
6: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
7: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
8: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
9: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
10: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
11: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
12: NOON	0	0	0	0	0	0	0	0	0	0	0.00
1: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
2: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
3: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
4: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
5: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
6: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
7: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
8: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
9: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
10: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
11: P.M.	0	0	0	0	0	0	0	0	0	0	0.00

Darkened squares indicate no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 11, 1991.

SIX MINUTE PERIOD	:00--:06	:06--:12	:12--:18	:18--:24	:24--:30	:30--:36	:36--:42	:42--:48	:48--:54	:54--:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
1: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
2: A.M.	0	0	0	0	0	0	6	0.5	0.5	0.5	0.75
3: A.M.	42.3	93	93	93	93	93	93	91	80.2	72	84.35
4: A.M.	67.2	62	61	52	47	44.5	43.5	43.2	41.9	39.9	50.22
5: A.M.	38	41.5	40.5	40.5	47	54.7	53.9	53	48	53	47.01
6: A.M.	48.1	33.6	31	29	28	28	28.1	32	38	35	33.08
7: A.M.	31	36	40.2	40	51	44	40	42.4	46	46	41.66
8: A.M.	45	43.8	44	40	42		42	52.8	56.2	44	45.53
9: A.M.	40	39.7	40	51.5	58	59	64.4	64.2	64.3	69.5	55.06
10: A.M.	78	69	58	54	60	55	59	62.2	61.5	65.2	62.19
11: A.M.	72	66	78.3	65.5	65.5				59.5	59	66.54
12: NOON	58	57.2	56.8	56.5	56.5	56	55.8	55.6	55.6	55.6	56.36
1: P.M.	55				56	56	55.8	55	54.2	54.1	55.16
2: P.M.	54	54	54	54	54	54	54	53.8	53.8	53.8	53.94
3: P.M.	53.8	53.8	53.8	53.8	53.6	53.4	53.4	53.4	53.2	52.6	53.48
4: P.M.	54	54	53.4	53.4	53.4		54		53.2	53.2	53.58
5: P.M.	53.2	53.1	53	53	53	53	53	53	53	53	53.03
6: P.M.	53	53	52	52	52	52	52	52	52	52	52.20
7: P.M.	52	52	52	52	52	52	52	52	52	52	52.00
8: P.M.	52	52	52	52	52	52	52	52	52	52	52.00
9: P.M.	52	52	52	52	52	52	52	52	52	52	52.00
10: P.M.	52	52	52	52	52	52	52	52	52	52	52.00
11: P.M.	50	49.7	49.5	49	48.1	47	46	62	72	72	54.53

Blackened squares indicate invalid or no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 12, 1991.

SIX MINUTE PERIOD	:00-:06	:06-:12	:12-:18	:18-:24	:24-:30	:30-:36	:36-:42	:42-:48	:48-:54	:54-:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	82.2	86.2	83.8	83	64.5		52	56	58	67	70.30
1: A.M.	64.8	52	46	45.2	45.2	45.2	45.2	45.2	46	48	48.28
2: A.M.	48.2	48.3	48.8	49	49.2	49.2	49.5	50	50	49.8	49.20
3: A.M.	49.8	49.8	48.4	48.2	48.6	48	48	48.1	48	48	48.49
4: A.M.	48	48	48	48	48	48	48	48	48	48	48.00
5: A.M.	47.8	47.7	47.5	47.4	47.4	47.6	48	48	48	48	47.74
6: A.M.	48	48	48	48	48	48	48	48	48	51	48.30
7: A.M.	51	54.8	57.2	58.2	52.4	52.2	55.2	53.2	52.8	56.5	54.35
8: A.M.	56	56	55.8			55	55	55	55	55	55.35
9: A.M.	55	56	56	56	56	56	56	56	56	56	55.90
10: A.M.	56	56	56	56	56	61	57	58.5	56.5	56.2	56.92
11: A.M.	56	56	57	60	63.4	59	58	58.2	58.2	58	58.38
12: NOON	58	58	57.8	57.7	57.5	57.5	57.5	57.4	57.2	57	57.56
1: P.M.	57	57	58	60.6	58	57	57	57	57	56.5	57.51
2: P.M.	56	56	55.8	57	57.9	56.7	53.2	53	54.4	55	55.50
3: P.M.	55	55	55	56.5	59	59	59.8	62	61.8	62	58.51
4: P.M.	63	60.3	59.4	59.6			58	58	58	57.8	59.26
5: P.M.	57.6	57	57	56.5	56.2	56	56	56	56	56	56.43
6: P.M.	55	55	54.8	54.5	54.5	54.5	55	57.5	59.5	59.9	56.02
7: P.M.	58	58.3	59.5	62.2	57.5	56	56	56	56	56	57.55
8: P.M.	56	56	56.5	56.8	56.8	57.2	57.2	57.8	57.5	57.8	56.96
9: P.M.	58	58.1	57.9	57.5	57.5	57.5	58	58	58.1	58	57.86
10: P.M.	59	53	49.9	52	49	49	50	49.3	48.8	45.5	50.55
11: P.M.	43.5	84	93	93	93	93	93	90	93	93	86.85

Blackened squares indicate invalid or no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 13, 1991.

SIX MINUTE PERIOD	:00-06	:06-12	:12-18	:18-24	:24-30	:30-36	:36-42	:42-48	:48-54	:54-60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	92	93	92	86	86		85	88	74.5	92	87.61
1: A.M.	89.9	72	68	67.8	67.2	65.5	63.8	63.6	63		68.98
2: A.M.		61.5	61	61	60.2	59.8	58.8	58.5	58.2	58	59.67
3: A.M.	58	58	58.2	58.2	58	58	58	50.5	49	49	55.49
4: A.M.	48	48	48	48.2	48.5	49	49.5	50	50.2	50	48.94
5: A.M.	49.8	49.6	52.2	53	53.2	54	55	56	56	56	53.48
6: A.M.	56	56	55.2	55	55	54.8	54.5	56	56	56	55.45
7: A.M.	55	56	56	54	54	54.8	55.8	56	58	58	55.76
8: A.M.	58	61	61	61	61		60	59	56	53.7	58.97
9: A.M.	53.5	56.8	54	54.1	54.4	55.5	55.8	56	56	56	55.21
10: A.M.	56	56	56	56	56	56	56	56	56	56	56.00
11: A.M.	56	56	56	56	56.8	57	57.8	57.5	57.5	57.5	56.81
12: NOON	57.5	57.5	57.5	57.3	57.2	57.5	54.5	54	54	54	56.10
1: P.M.	54	54	54.8	54.8	54.2	55	54.8	54	54	54	54.36
2: P.M.	54	54	54	54	54	54	54	54	54	54	54.00
3: P.M.	54	54	53.8	53.7	53.6	53.6	54	54	54	54	53.87
4: P.M.	54	54	54	54	54		53.5	53.5	53.5	53.5	53.78
5: P.M.	53.6	53.6	53.5	53.5	53.5	53.5	52	52	52	52	52.92
6: P.M.	52	52	52	52	52	52	52	52	52	52	52.00
7: P.M.	52	52	52	52	52	52	52	52	52	52	52.00
8: P.M.	52	52	53	54	54	55	55	55	55	55	54.00
9: P.M.	55.2	55.5	55.5	55.5	55.5	55.8	55.8	55.8	55.8	55.8	55.62
10: P.M.	55.8	55.8	55.8	55.8	55.8	55.8	55.8	56	56	56	55.86
11: P.M.	56	56	56	56	56	56	56	76.6	63	57	58.86

Blackened squares indicate invalid or no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 14, 1991.

SIX MINUTE PERIOD	:00--:06	:06--:12	:12--:18	:18--:24	:24--:30	:30--:36	:36--:42	:42--:48	:48--:54	:54--:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	57	56	56	56	56		75	89.8	93	92.2	70.11
1: A.M.	89.2	83	91	93	92	93.5	71	61.5	60.2	60	79.44
2: A.M.	59.9	59.9	59.9	59.5	58	58.3	58.3	58.2	58.2	58.5	58.87
3: A.M.	58.5	58.5	58	58	58	58	57.5	57.5	57.5	57.5	57.90
4: A.M.	57.4	57.2	57	57	57	57	57	57	57	57	57.06
5: A.M.	57	57	57	57	57	56.5	56.5	56.5	56.5	57	56.80
6: A.M.	57	57	57	57.1	57	56.8	56.8	56.8	56.8	57.5	56.98
7: A.M.	58.5	58.5	58	58	58	58	58	58	58	58	58.10
8: A.M.	58	58	58	58	58		57.5	57.8	57.8	57.8	57.88
9: A.M.	57.8	57.8	57.8	57.8	57.8		57.5	57.4	57.4	57.2	57.61
10: A.M.	57.2	57.2	57.2	57.2	57.2	57.5	58	58	58	58	57.55
11: A.M.	58	58	58	60.5	64	61	64	65.5	65	65	61.90
12: NOON	66	63.5	61	58	57	56.8	56.5	56.2	56	56	58.70
1: P.M.	56.1	57	57.8	57.8	58	58	58.2	58	58	58	57.69
2: P.M.	58	59	59	59.5	59.5	58	57.8	57.2	57	57	58.20
3: P.M.	57	56.6	56.4	56	56.4	58.2	58	56.4	58.2	58.2	57.14
4: P.M.	59	59	59	59	59		69.2	59	56.5	56.4	59.57
5: P.M.	56	56	56	56	56	56	56	56	56	56	56.00
6: P.M.	56	56	56	56	56	56	56	56	56	56	56.00
7: P.M.	56	56	56	56	56	56	56	56	56	56	56.00
8: P.M.	56	56	56	56	56	56	56	56	56	56	56.00
9: P.M.	56	56	56	48.5	48	50.1	52.5	47.8	52	50	51.69
10: P.M.	48	47.5	44		39.5	39	36.8	36	36	39.5	32.00
11: P.M.	17	0	0	0	0	0	0	0	0	0	1.70

Blackened squares indicate invalid or no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 15, 1991.

SIX MINUTE PERIOD	:00--:06	:06--:12	:12--:18	:18--:24	:24--:30	:30--:36	:36--:42	:42--:48	:48--:54	:54--:60	HOUR AVERAGE
12: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
1: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
2: A.M.	0	0	0	1	1	1	1	1	1	1	0.70
3: A.M.	1	2	2	2	2	2	2	2	2	2	1.90
4: A.M.	2	2	2	2	2	2	1.5	1	1	1	1.65
5: A.M.	0	0	0	0	0	0	6	93.5	93.5	93.5	28.65
6: A.M.	92	93	93	80	39	21.5	17	12.8	11	10.5	46.98
7: A.M.	10	8	9.5	13.5	12	12	18.2	13.6	12	12	12.08
8: A.M.	12	12	23	20	26	22		20	20.8	62	24.20
9: A.M.	65	37.5	22	20.5	33	29	66	32	20.4	18	34.34
10: A.M.	52	43.5	16	34	46	65	68	52	64.5	64	50.50
11: A.M.	32	23	13	46	50						32.80
12: NOON	50	30	33	18	18	52	32	11.5	11	18	27.35
1: P.M.	39	44.2	39.9	29	20	21	23.8	30.2	40	40	32.71
2: P.M.	31	31	20	32	22	34	34	32	32.5	31.5	30.00
3: P.M.				54	40	42	40	33	29	29.5	38.21
4: P.M.	29	28	30.8	28		30	27	23.8	30.1	29	28.41
5: P.M.	26	22	22.5	23	23	22.8	22	25	22	17	22.53
6: P.M.	20	20.8	20	20.5	21.2	22	22	19	19	20	20.45
7: P.M.	19	20	22	19	22	19	18.8	18.9	18.9	20	19.76
8: P.M.	21.2	18.5	19	19	18	19	19.5	19.5	19.8	18.8	19.23
9: P.M.	14.5	11.5	9	7	6.5	5.5	5.4	5	5	5	7.44
10: P.M.	5	5	5	6	8	8.5	15	15	12	15	9.45
11: P.M.	15	12.5	17	19.2	18	80.5	47	21.8	22.5	68.5	32.20

Blackened squares indicate invalid or no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 16, 1991.

SIX MINUTE PERIOD	:00--:06	:06--:12	:12--:18	:18--:24	:24--:30	:30--:36	:36--:42	:42--:48	:48--:54	:54--:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	42	76	80.5			90	87	73.5	89.2	89	78.40
1: A.M.	84	86.5	36	34	21	20.2	20.2	21	19	21	36.29
2: A.M.	18	17.8	18	17.9	20	19.4	18.5	18	18.4	18	18.40
3: A.M.	18	18	18.2	18	18.5	18.2	18.2	17.6	19	19	18.27
4: A.M.	19	19.5	19	17.8	19	20	20.1	20.1	20.1	23	19.76
5: A.M.	18	17	21.2	20.2	28.5	26	26.5	30.8	33.8	33	25.50
6: A.M.	27	27	27	24	32	28	24	33.5	35	33.5	29.10
7: A.M.	33	31	30.8	24.5	22	22	22.2	22	21.8	17.9	24.72
8: A.M.	20	20	17.2	17.2		16.8	16	16	16	18	17.47
9: A.M.	16	15.5	16	15.8	17	15.5	13	13.5	10	8.8	14.11
10: A.M.	8	8.4	10	15.8	38.1	32	16	7	11	11	15.73
11: A.M.	10	12	9.6	26	16	14.4	10	8	7	6.2	11.92
12: NOON	6	43.5	8	7	7	7	10.4	17	21	23.5	15.04
1: P.M.	30.5	86	75	42	12.8	11	10.5	12.2	11.5	12	30.35
2: P.M.	12	12.2	12.4	11.9	12	12.5	12.8	12.1	15	14.2	12.71
3: P.M.	13.8	14	17.2	15.4	14.8	15	14.4	13.9	17	14.8	15.03
4: P.M.	15.2	15.2	16.2	17		20	29.8	27	32	16.5	20.99
5: P.M.	23.5	24	18	34	20.2	40	23	33	20.2	21	25.69
6: P.M.	33	25	32	24	18	45.5	24.2	16	34	15.2	26.69
7: P.M.	27.8	22	19	38	30	25	45	17	42	29	29.48
8: P.M.	19	18	18	39.2	24	32	19.8	14	44.2	16.5	24.47
9: P.M.	16	17.2	19	26	18	21	16	16	16	30	19.52
10: P.M.	13	16	17	12.6	20	28	19.6	19.6	22	54.5	22.23
11: P.M.	62	59	80	67.5	79	79.2	65	76	52	81	70.07

Blackened squares indicate invalid or no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 17, 1991.

SIX MINUTE PERIOD	:00-:06	:06-:12	:12-:18	:18-:24	:24-:30	:30-:36	:36-:42	:42-:48	:48-:54	:54-:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	78	67			36	60	40.5	79.2	58	59	59.71
1: A.M.	53	53	73	51	20	20	20	19	18.8	20	34.78
2: A.M.	18.2	18	18	18	18	18	18	18	18	17	17.92
3: A.M.	17	17	17	17	17	17	17	17	17	17	17.00
4: A.M.	17.5	17.5	18	18	18	18	17.8	17.8	17.8	18	17.84
5: A.M.	17.8	17.8	18	18	18	18	18	17.9	18.1	18.1	17.97
6: A.M.	19	20	21.6	20.2	20	20	19	18	17	19	19.38
7: A.M.	18	18	27	36	21	20.2	20.2	19.2	18	16.4	21.40
8: A.M.	16	16	16	14		13.2	13	12	13	16	14.36
9: A.M.	16.8	22.2	28.5	12	44.5	36	40.6	39	21	20.2	28.08
10: A.M.	26	32	20	20.6	30.5	26	19	19	21	20	23.41
11: A.M.	30	32	18	34	22	34	21	19	21	34	26.50
12: NOON	21	21	26	26	22	20.8	18	18	17	17	20.68
1: P.M.	18	19.8	24	23	22	15.8	15.2	15.5	25	14	19.23
2: P.M.	10	9.8	20.2	7	7.5	1.8	0.8	0.8	0.8	0.8	5.95
3: P.M.	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.50
4: P.M.	0.5	0.5	0.5	0.5		0.5	0.5	0.5	0.5	0.5	0.50
5: P.M.	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.50
6: P.M.	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.77
7: P.M.	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.80
8: P.M.	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.80
9: P.M.	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	7	1.42
10: P.M.	5	2	2	1.8	1.6	1.5	1.5	1.5	1.2	3	2.11
11: P.M.	6	10	14	40	17	12	6	6	7	8	12.60

Blackened squares indicate invalid or no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 18, 1991.

SIX MINUTE PERIOD	:00-:06	:06-:12	:12-:18	:18-:24	:24-:30	:30-:36	:36-:42	:42-:48	:48-:54	:54-:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	12.2	19	24	38.5		45	66.6	46	46.8	35	37.01
1: A.M.	30	35	35.5	48	53.5	62	34	42	33	70	44.30
2: A.M.	45.2	36.5	25	30	26.5	73	48	60	44.2	17	40.54
3: A.M.	15	56	53	53	77	83	66	73	80.5	66	62.25
4: A.M.	86	91	64	70	24	15	15	20	18	10.8	41.38
5: A.M.	10	11	12	13.6	16.2	20.5	16.4	17	15	28.4	16.01
6: A.M.	6	3	2.1	2	10	14	10.2	3	2	2	5.43
7: A.M.	2	2	1	0.8	0.7	0.5	0.5	0.5	0.5	0.5	0.90
8: A.M.	0.5	0.5	0.5	0.5		0.5	0.5	0.5	0.5	0.5	0.50
9: A.M.	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.50
10: A.M.	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.70
11: A.M.	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.80
12: NOON	1	1	1	1	1	1	1	1	1	1	1.00
1: P.M.	1	1	1	1	1	1	1	1	1	1	1.00
2: P.M.	1	1	1	1	1	1	1	1	1	1	1.00
3: P.M.	1	1		1	1	1	1	1	1	1	1.00
4: P.M.	1	1	1	1	1	1	1	1	1	1	1.00
5: P.M.	1	1	1	1	1	1	1	1	1	1	1.00
6: P.M.	1	1	1	1	1	1	1	1	1	1	1.00
7: P.M.	1	1	1	1	1	1	1	1	1	1	1.00
8: P.M.	1	1	1	1	1	1	1	1	1	1	1.00
9: P.M.	1	1	1	1	1	1	1	1	1	1	1.00
10: P.M.	1	1	1	1	1	1	1	1	1	1	1.00
11: P.M.	1	1	1	1	1	1	1	1	1	1	1.00

Blackened squares indicate invalid or no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 19, 1991.

SIX MINUTE PERIOD	:00-06	:06-12	:12-18	:18-24	:24-30	:30-36	:36-42	:42-48	:48-54	:54-60	
HOUR OF DAY											HOURLY AVERAGE
12: A.M.	1	1	1		1	1	1	0.5	0.5	0.5	0.83
1: A.M.	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.50
2: A.M.	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.50
3: A.M.	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.50
4: A.M.	0.5	0.5	0.5	0.5	0.5	0.5	4.5	2	24	39.5	7.30
5: A.M.	18	13	18	13.4	13	12	12	20.5	24	24	16.79
6: A.M.	23	23	25.5	29	23	29	28	30	32.2	34	27.67
7: A.M.	40	40	43.6	65.8	62	65	74	77	76	68	61.14
8: A.M.	58	48		34.5	63.8	65	65	65	59.5	56	57.20
9: A.M.	51.5	52	55	56.8	57.2	58	56	57	58	60	56.15
10: A.M.	57	57	54	56	53	56	55	59	57	61	56.50
11: A.M.	56.8	57	58	60	59	58	58	58	58.2	56.8	57.98
12: NOON	56	56	56	56	56	56	56	55.8	58	57	56.28
1: P.M.	59.6	57	57.5	56.5	55.9	56.5	57	56.2	55.8	55.8	56.78
2: P.M.	59.5	57.5	58.8	56	55.6	55.4	59	58.8	59	58	57.76
3: P.M.	56	59	57	57	57.5	57	59	57	57	56.5	57.30
4: P.M.	56	56	60		35	56	58	56	56	57	54.44
5: P.M.	58.5	56	56	57	58.6	59	58.5	58.5	58.5	58.5	57.91
6: P.M.	58	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.55
7: P.M.	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.50
8: P.M.	57.4	57.2	57	57	57	57	57	57	57	57	57.06
9: P.M.	57	57	57	57	57	57	57	57	57	58	57.10
10: P.M.	57	56	66.5	73.5	87	87	79	81	78	82	74.70
11: P.M.	82	88.5	88	78	67	63	84	73	67	66.5	75.70

Blackened squares indicate invalid or no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 20, 1991.

SIX MINUTE PERIOD	:00--:06	:06--:12	:12--:18	:18--:24	:24--:30	:30--:36	:36--:42	:42--:48	:48--:54	:54--:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	59	60	66	64		44	66	68.2	74.5	81	64.74
1: A.M.	73	73	73	73.4	65	62	63.5	66.5	64	64	67.74
2: A.M.	62	61	59	60.5	65	68	70	72	73.5	78.8	66.98
3: A.M.	79	72	63	60	57.8	56	53	53	49	45	58.78
4: A.M.	43	45	45.8	47	42	42	43	46	50	51	45.48
5: A.M.	52	54	55	55	57	56	53.5	54.5	54.5	54	54.55
6: A.M.	54	55.6	55.2	54.8	54	55	55	54	54.5	55	54.71
7: A.M.	54	54	55	54.8	54.8	54.5	55.2	56	56.6	56.5	55.14
8: A.M.	56	56	56	55		36.5	57.5	57.5	55	54	53.72
9: A.M.	54	55.5	56	55	54	54	54.2	54.8	54.8	54	54.63
10: A.M.	52.2	52	52	52	51.5	51	51	51	52	51	51.57
11: A.M.	50.2	51	52.1	53	52.4	52.1	52.4	52.6	57	52.2	52.50
12: NOON	51	50	48.4	48	47	46	45.8	46	46	46	47.42
1: P.M.	48	50	50	50.5	52	52	53	52.5	52	52	51.20
2: P.M.	51.2	51.6	53.5	53.2	53	52.8	53	53	53.4	53.6	52.83
3: P.M.	53.8	53.9	54	54	54	54	54	54	54	53.5	53.92
4: P.M.	53	52.8	52.5	52.5		34	52	52	52	52	50.31
5: P.M.	51.8	51.8	52	51	50.8	50.5	50.5	50.5	50.2	50	50.91
6: P.M.	50	50.2	50.2	50	50	50	50	50	51	51	50.24
7: P.M.	50	50	50	50	50	50.5	51	51	50	51	50.35
8: P.M.	51	50	50	50	50	50	50	50	50	50	50.10
9: P.M.	50	50	50	50	50	50	50	50	50	50	50.00
10: P.M.	50	50	50	50	50	50	50	50	50	50	50.00
11: P.M.	49.8	49.8	49.8	49.8	49.8	49.5	49.5	49.5	49.5	49.5	49.65

Blackened squares indicate invalid or no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 21, 1991.

SIX MINUTE PERIOD	:00-:06	:06-:12	:12-:18	:18-:24	:24-:30	:30-:36	:36-:42	:42-:48	:48-:54	:54-:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	49.5	49.5	49.5	49.5			49		49	49	49.29
1: A.M.	49.5	49.5	51.5	52.5	53	64	67.5	84	85	89	64.55
2: A.M.	75	70	78	84	77	65	58	57	57	57	67.80
3: A.M.	57	57.5	57.5	57.5	57.5	57.5	56	56	56	56	56.85
4: A.M.	56	57	57.2	58	58	58	58	58	58	58	57.62
5: A.M.	57.5	57.5	57.5	58	58	57.5	57.5	57	57	57	57.45
6: A.M.	57	57	57	57	57	57	57	57	57	57	57.00
7: A.M.	56	57	57.5	57.5	56.5	57	58	58	59	62	57.85
8: A.M.	64	61.5	64	65		41	61	59	58.5	56.5	58.94
9: A.M.	58.5	56	56	56	56	56	56	56	56	56	56.25
10: A.M.	57	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.45
11: A.M.	57.5	57.5	57.5	57.5	58	58	58	58	58	58	57.80
12: NOON	58	58	58	58	58	58	58	58	58	58	58.00
1: P.M.	58	58	58	58	58	57.5	57.5	57.5	57.5	57.5	57.75
2: P.M.	58	58	58	58	58	58	58	58	58	58	58.00
3: P.M.	58	58	58	58	58	58	58	58	58	58	58.00
4: P.M.	58	58	58	58		58	58	58	58	58	58.00
5: P.M.	58	58	58	58	58	58	58	58	58	58	58.00
6: P.M.	58	58	57	57	57	57	57	57	57	57	57.20
7: P.M.	57	57	57	57	57	57	57	57	57	57	57.00
8: P.M.	57	57	57	57	57	57	57	57	57	57	57.00
9: P.M.	57	57	57	57	57	57	57	57	57	57	57.00
10: P.M.	57	57	56	55	53.5	53	70	85	92	92	67.05
11: P.M.		84	88.5	87	91.5	91	87.5	88	75.5	75.5	85.39

Blackened squares indicate invalid or no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 22, 1991.

SIX MINUTE PERIOD	:00--:06	:06--:12	:12--:18	:18--:24	:24--:30	:30--:36	:36--:42	:42--:48	:48--:54	:54--:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	65	77	72			76	59.5	87	64	56	69.56
1: A.M.	56	54	54.5	55	56	56	56	56	56	56	55.55
2: A.M.	56	56.5	56.5	56.5	56.5	56.5	56.5	56	56	56	56.30
3: A.M.	56	56	56	56.5	56	56.5	56.5	56.5	56.5	56.5	56.30
4: A.M.	56.5	56.5	56	56	56	56	55.5	55	54	54	55.55
5: A.M.	54	54	54	54	54	54	54	54.5	54.5	55	54.20
6: A.M.	54.5	54.5	55	55	54.5	54	54	54	54	54	54.35
7: A.M.	54	54	54	54	54	54.5	54.5	54	53.5	52.5	53.90
8: A.M.	52	58	51	50		33	50	49	49	49	49.00
9: A.M.	49	48	48	50	52	52.5	54.5	55	54.5	54	51.75
10: A.M.	54	55	55	55	55	55	56	57	56.5	56.5	55.50
11: A.M.	56	56	55.5	55.5	55	55	54.5	54.5	54	54	55.00
12: NOON	54	55	55	55.5	56	56.5	57	58	58	58	56.30
1: P.M.	57	57	57	57	57	56.5	56.5	56	56	56	56.60
2: P.M.	57	57	56.5	56.5	56.5	57	58	59.8	59.5	59	57.68
3: P.M.	59	59	58.5	58.5	58	58	58	58	57.5	57.5	58.20
4: P.M.	58	58	58	58	58			57	57	57	57.63
5: P.M.	57	57	57	57	57	57	57	57	57	56	56.90
6: P.M.	56	56	56	56.5	56.5	56.5	56.5	56.5	56	56	56.25
7: P.M.	56	56	56	56	56	56	64	92	85	89.5	66.65
8: P.M.	90	87.5	82.5	70	80	78	72	76	70	60	76.60
9: P.M.	68	60	46	51.5	60	43	71	46	81	70	59.65
10: P.M.	74.5	28	23	57	72	86	28	10	8	7	39.35
11: P.M.	29	14	10	8						6	13.40

Blackened squares indicate invalid or no data obtained for that time period.

Opac Monitor Six Minute Averages, February 23, 1991.

SIX MINUTE PERIOD	:00-:06	:06-:12	:12-:18	:18-:24	:24-:30	:30-:36	:36-:42	:42-:48	:48-:54	:54-:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	6	7	7	7	6.5	5	5	5	5	4.5	5.80
1: A.M.	6	6	5	5	5	4.5	4	4	4	4	4.75
2: A.M.	4	4	4	4	4	4	3	3	3	2.5	3.55
3: A.M.	2.5	2	2	2	2	2	2	2	2	2	2.05
4: A.M.		0.5	0.5	0.5	0.5	0.4	0.3	0	0	0	0.30
5: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
6: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
7: A.M.	0	0	0	0	0	0	0		0	0	0.00
8: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
9: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
10: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
11: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
12: NOON	0	0	0	0	0	0	0	0	0	0	0.00
1: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
2: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
3: P.M.	0	0	0	0	0	0	0		0	0	0.00
4: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
5: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
6: P.M.	0	0	80	94	94	94	94	94	94	93	93.00
7: P.M.	92	90	88	82	75	68	64	58	53.5	54.5	72.50
8: P.M.	50	43	50.5		64	58	52	45	40	37	48.83
9: P.M.	36	41	62	63	65.5		53	44	40	40	49.39
10: P.M.	56	49	68	62		71	75	42	86.5	54	62.61
11: P.M.	86.5	55	66	70	44	44	42	40		60	56.39

Blackened squares indicate invalid or no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 24, 1991.

SIX MINUTE PERIOD	:00-:06	:06-:12	:12-:18	:18-:24	:24-:30	:30-:36	:36-:42	:42-:48	:48-:54	:54-:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	35.5	39	60	59.9	76	64	59	48	44	43	52.84
1: A.M.	54	51	66.5	58	51	49	58	68.2	56		56.86
2: A.M.	84	78	72	84	82	64.5	56	82		78	75.61
3: A.M.	63	42	40	45	42	56	62	64	68.5	65	54.75
4: A.M.	58	55	71	68	74	55	36		16	3	48.44
5: A.M.	1	0	0	0	0	0	0	0	0	0	0.10
6: A.M.	0	0	0		0	0	0	0	0	0	0.00
7: A.M.	0	0	0	0	0	0		0	0	0	0.00
8: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
9: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
10: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
11: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
12: NOON	0	0	0	0	0	0	0	0	0	0	0.00
1: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
2: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
3: P.M.	0	0	0		0	0	0	0	0	0	0.00
4: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
5: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
6: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
7: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
8: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
9: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
10: P.M.	0	0	0	0	0	0	0	0	0	0	0.00
11: P.M.	0	0	0		0	0	0	0	0	0	0.00

Blackened squares indicate invalid or no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 25, 1991.

SIX MINUTE PERIOD	:00-:06	:06-:12	:12-:18	:18-:24	:24-:30	:30-:36	:36-:42	:42-:48	:48-:54	:54-:60	HOUR AVERAGE
12: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
1: A.M.	0	0	0	0	0		0	0	0	0	0.00
2: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
3: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
4: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
5: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
6: A.M.	0	0	0	0	0	0	0	0	0	0	0.00
7: A.M.	0	0	0	0	0		3	0	0	0	0.33
8: A.M.	1	42	90	61	8	70	86.6	91	92	57	59.86
9: A.M.	10	40	85	74	64	54	48	44	39	37	49.50
10: A.M.	34.5	32	31.8	31	29.5	29	28	28	28	26.5	29.83
11: A.M.	28	24.5	26	31	42	52	60	62.5	62	62	45.00
12: NOON	62	46	49	56	56.2	56	58	59.5	59.5	57	55.92
1: P.M.	56	54		60.8	61	62	64	62	61.5	53	59.37
2: P.M.	54	54.5	58.2	57	54	58	59	58	59	59	57.07
3: P.M.	59	60	59.8	58	59	58	58	57		56	58.31
4: P.M.	56	56	57	58	59	57	56	57	57	57	57.00
5: P.M.	58	57.5	57	57.5	58	58	63.5	59.5	57.5	57	58.35
6: P.M.	57.5	57.8	58	58	58.2	58	57	56.5	56	56	57.30
7: P.M.	56	56	56	55.5	55.5	55	55	55.5	55.5	55.5	55.55
8: P.M.	55	55	55	54	54	55	54.5	60.6	56	54	55.31
9: P.M.	54	53	53	52	51.8	50.8	50	48	45	44	50.16
10: P.M.	43.5	42.5	42	40.5	41	42	44	44.5	44	44	42.80
11: P.M.	44	64.6	59.8	70	79	78	76	82		74	69.71

Blackened squares indicate invalid or no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 26, 1991.

SIX MINUTE PERIOD	:00-:06	:06-:12	:12-:18	:18-:24	:24-:30	:30-:36	:36-:42	:42-:48	:48-:54	:54-:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	81	57.5	59.9	63	63	62	58	63	60.5	59	62.69
1: A.M.	69	69	69	68	59	56	56	57	57.5	57.8	61.83
2: A.M.	58	58	58	58	58	58	58	58	58	58	58.00
3: A.M.	58	58	58	58	58	58	58	58	58	58	58.00
4: A.M.	57.8	57.8	57.5	57.8	58	58	57.5	57	57	57	57.54
5: A.M.	57	57	56.5	56.5	56.5	56.5	56.5	56.5	57	58	56.80
6: A.M.	59	58.8	59.8	57	57	58	58	59	58	58	58.26
7: A.M.	58	58	58	58	59	58	57.5		58	58	58.06
8: A.M.	58	58.2	58.2	58.2	58.2	59	58.5	58.5	58.5	57.8	58.31
9: A.M.	57	56.5	56.5	56.5	56.5	56	58	65	72	63	59.70
10: A.M.	59.8	57	55	55	56	56	58	57	57	57	56.78
11: A.M.	58	58	58	58.2	59	58	58	58	58	58	58.12
12: NOON	57	56	55.5	55	54	54	53.8	51.8	50.5	53	54.06
1: P.M.	53	52	52	53	59	55.5	53	52	51.8	51	53.23
2: P.M.	51	50	49.8	49.6	49	48.8	48.2	48	48	52	49.44
3: P.M.	48	48	48	47.5	47.5	48	48		47	47.2	47.69
4: P.M.	47.5	47.5	48	52	54	54.5	55.5	56	56	56	52.70
5: P.M.	56	56	56	56	56	56	56	56	71.5	80	59.95
6: P.M.	78	65	58	57	56.5	55	56	53.8	55	54	58.83
7: P.M.	53.5	53	53	55	53	53	53	52.8	52.8	52.8	53.19
8: P.M.	52.5	52.5	52.8	52.8	52.8	52.5	52.5	53	54.5	55	53.09
9: P.M.	55.4	55.4	55.4	55.8	56	56	56.2	56.6	56.6	56.6	56.00
10: P.M.	56.4	56.4	56.2	56	56	56	56	79	77.5		61.06
11: P.M.	91	89	90.6	92	85	68	79.5		79.5	53.5	80.90

Blackened squares indicate invalid or no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 27, 1991.

SIX MINUTE PERIOD	:00--:06	:06--:12	:12--:18	:18--:24	:24--:30	:30--:36	:36--:42	:42--:48	:48--:54	:54--:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	53	53	53	53.2	53.5	54	54		52.5	54.5	53.41
1: A.M.	54.6	54.8	54.5	53.8	52.5	51.5	51	51	51.2	51.5	52.64
2: A.M.	59	65	74	84	73	59	66	72	69.2	69	69.02
3: A.M.	54	53	53	53.5	54	54	54	54.1	54.1	54	53.77
4: A.M.	55	55.8	68	57.5	59.8	52	54	56	57.9	58.1	57.41
5: A.M.	59	58.5	58.5	58.5	58.5	58	59	60	59	58	58.70
6: A.M.	60	59.4	59.4	59	59	58	58	58.8	59	58.2	58.88
7: A.M.	58	58	58	57.5	57.5	57.5	56.5	56		56	57.22
8: A.M.	55.9	55.9	56	56	56	57.5	57	56.5	56.5	57	56.43
9: A.M.	57	57	57	57.5	58	58	58	58	57	60	57.75
10: A.M.	56	56	55.5	56	58.1	57	54.5	54	54.5	56	55.76
11: A.M.	55	55	56	58.2	56	56	56	56	56	56	56.02
12: NOON	56	56	56.2	57	58.8	58	58	57.5	57.5	57.8	57.28
1: P.M.	57.5	57.5	57	57	57	57	57	57	58	58.1	57.31
2: P.M.	57.8	58.2	58.8	57.8	56.5	56.5	56	58	58.5	58.5	57.66
3: P.M.	59.2	60	59.5	59.5	58	59	60	58.5		57	58.97
4: P.M.	57.2	57.5	58	58	57.5	57.5	57.5	57	57	58	57.52
5: P.M.	58	58.2	64	64	74	66	64	59.8	58	59	62.50
6: P.M.	59	59.2	59.9	60.4	60.8	68	68	59.8	60	57	61.21
7: P.M.	68	68	59.8	60.2	57	56	55.8	55.6	56	57	59.34
8: P.M.	57	57.8	57	56.5	56.2	56	56.5	57	57	57	56.80
9: P.M.	57	57	57	56.5	57.2	57	57	56.5	57	56.5	56.87
10: P.M.	56	56	56	56	56	56	56	56	56	54	55.80
11: P.M.	52	89	88.5	89.5	92	87.5	57.5	86			80.25

Blackened squares indicate invalid or no data obtained for that time period.

Opacity Monitor Six Minute Averages, February 28, 1991.

SIX MINUTE PERIOD	:00-:06	:06-:12	:12-:18	:18-:24	:24-:30	:30-:36	:36-:42	:42-:48	:48-:54	:54-:60	
HOUR OF DAY											HOUR AVERAGE
12: A.M.	72	60.2	83	62	62.2	68	84	51	84	68	69.44
1: A.M.	86	57.2	86	92	84	72	67	65	63.2	62	73.44
2: A.M.	63	60.5	55	51	49.2	49.5	49.8	49.8	48	48	52.38
3: A.M.	47.5	47.2	46	46	46	46	47	47	46	46	46.47
4: A.M.	46.6	46.7	47.8	47.5	47.5	47.5	48	49	49	49	47.86
5: A.M.	50	51	51	52	53	53	53.5	53	53	53	52.25
6: A.M.	53	56.2	56.2	55	55	56	55	57	57	57	55.74
7: A.M.	58	57.5	58.5	58.2	57.2	53	54	55		55	56.27
8: A.M.	55	60.2	57						55	58	57.04
9: A.M.	66		66		82	69	72	71	67		70.43
10: A.M.	56.5	56	55.8	56	56	56.5	56.8	57	57	56.5	56.41
11: A.M.	55	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	0.00
12: NOON	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	55	54.55
1: P.M.	55	55.5	55.5	55.5	55.8	55.8	56	56	56.2	56.5	55.78
2: P.M.	56.2	56	56	56.5	57	57	57	57	57	57	56.67
3: P.M.	57	57	56.5	56	56	56	56	56	56	56	56.25
4: P.M.	56	56	54	53.8	53.5	53.5	53.5	54		55	54.37
5: P.M.	56	56	56	56	56	58	58	58	57	57	56.80
6: P.M.	56.5	56.5	56.5	56.5	56.5	57	56.7	56.5	56.5	56.5	56.57
7: P.M.	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.20
8: P.M.	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.20
9: P.M.	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.20
10: P.M.	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.20
11: P.M.	56.2	56.2	56.2	56.2	56.2	57	57	57	57	57	56.60

Blackened squares indicate invalid or no data obtained for that time period.