Memorandum

To: Wei Li Yu 10/21/04
Elias Sostre 10.28.04
David Stone 10/25
Al Dyer 10/29/04

From: Bill Vela

Date: October 21, 2004

Re: 3rd Quarter 2004 CEMS Report

Attached is a draft of the CEMS Quarterly Report for 3rd Quarter 2004. Note the comment in the cover letter regarding exceedences during Tropical Storm Jeanne.

Please review and provide any comments or suggestions and pass on to the next person.

This has to be submitted (postmarked by October 30th).

AES PUERTO RICO

October 20, 2004

Chief, Air Compliance Branch
U.S. EPA, Region 2
290 Broadway – 21st Floor
New York, NY 10007-1866

Subject: AES Puerto Rico Cogeneration Plant (AES-PR), Guayama, PR
3rd Quarter 2004 CEMS Report

Enclosed is a copy of AES Puerto Rico's CEMS Quarterly Report for the 3rd Quarter 2004. This is being submitted in accordance with the requirements of the facility's PSD Permit, 40 CFR Part 60.49a and Appendix F to part 60.

Note that the CEMS recorded a period of emissions above their respective permit limits for (SO2, CO and NO_X) on Unit 1 between the dates of September 16 through the 18th. In this case we will cite Rule 603 (e) of the Puerto Rico Regulations for the Control of Atmospheric Contamination (RCAC) and 40 CFR Part 60.41a, Definitions and 40 CFR Part 60.49a, Reporting Requirements as an affirmative defense as to the cause of these exceedences.

On September 15th Puerto Rico's electric transmission network was shut down during Tropical Storm Jeanne. During this shutdown AES Puerto Rico's Unit 1 remained operating supplying internal electrical loads. On the evening of September 15th, the electric utility dispatchers ordered our Unit 1 reconnected to the electrical network and increased output to supply a minimal load of approximately 65 Megawatts (MWs) to support repairs and re-energization of the transmission network.

The boiler's emissions controls systems are designed for normal operating conditions above 50% (approximately 120 MWs). In consideration of the nature of the island wide emergency and our unique position to assist we were obligated to cooperate with the needs of the utility company. As a result of this extended low load operation, numerous NOx, SOx and CO exceedences were recorded.

During the morning of September 18, the utility company dispatched us to increase load above 50%. At this time all the boiler emissions controls returned to normal operation and emissions returned to values below their respective permit limits.

Certification Statement: Based on information and belief formed after reasonable inquiry, the statements and information in this document are true accurate and complete.

If you have any questions I can be reached at (787) 866-8117 ext.239.

Sincerely,

William G. Vela

cc: Region 2 CEM Coordinator
Director, CEPD, US EPA
Director, Air Permit Program

Carr. #3 Km. 142.0, Bo. Jobos • P.O. Box 1890, Guayama, Puerto Rico 00785 • Tel. (787) 866-8117 • Fax (787) 866-8139

Puerto Rico

Third Quarter 2004

Continuous Emissions Monitoring System Report

PO Box 1890, Guayama PR 00785 * Tel: 787-866-8117 * Fax: 787-866-8139

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Monitoring System Performance and Excess Emission Summary

Unit 1

==========

Monitor Downtime Report
AES Puerto Rico
Unit #1
OPACITY

==========

Report for 07/01/2004 to 09/30/2004
Today's Date: 10/19/2004

==========

1. Monitor Availability

Reasons for Missing or Unacceptable Data	Downtime (minutes)	% Downtime to Operating Time
a. Monitor Malfunctions	0	0.00
b. Non-Monitor Equipment Malfunctions	0	0.00
c. Quality Assurance	168	0.13
d. Other Known Causes	6	0.00
e. Unknown Causes	0	0.00
Total CMS Downtime	174	0.13

Total Online Operating Time in Minutes	132480
[Total CMS Downtime] x 100 / [Total source operating time]. (%)	0.13

B. Excess Emissions Summary

1. Number of 6 Minute Averages	22080
2. Number of 6 Minute Averages in Excess of Limit	4

3. Reasons for Excess Emissions Based on 6 Minute Rolling Average	Duration (Minutes)	% E.E. Time To Operating Time
I. Startup / Shutdown	0	0.00
II. Control Equipment Malfunction	0	0.00
III. Process Malfunction	0	0.00
IV. Unknown Causes	0	0.00
V. Other Known Causes	24	0.02
TOTAL	24	

Total Monitored Facility Operating Minutes	132306
Total duration of excess emissions x 100 / [Total source operating time]. (%)	0.02

Monitor Span Exceedance Summary for OPACITY

Instrument Span: 80

The instrument did not exceed its span during the reporting period.

Changes since last quarter in CMS, process or controls for OPACITY:

None

I certify that the information contained in this report is true, accurate, and complete.

William G. Vela

Name

Signature

Engineering Group

Title

10/20/2004

Date

==========

Monitor Downtime Report
AES Puerto Rico
Unit #1
NOX

==========

Report for 07/01/2004 to 09/30/2004
Today's Date: 10/19/2004

==========

1. Monitor Availability

Reasons for Missing or Unacceptable Data	Downtime (hours)	% Downtime to Operating Time
a. Monitor Malfunctions	0.00	0.00
b. Non-Monitor Equipment Malfunctions	0.00	0.00
c. Quality Assurance	0.00	0.00
d. Other Known Causes	0.00	0.00
e. Unknown Causes	0.00	0.00
Total CMS Downtime	0.00	0.00

Total Online Operating Hours	2207.50
[Total CMS Downtime] x 100 / [Total source operating time]. (%)	0.00

2. Excess Emissions

Reasons for Missing Excess Emission	Duration of Time (hours)	% Excess Emission to Operating Time
a. Startup / Shutdown	46.00	2.08
b. Control Equipment Malfunction	0.00	0.00
c. Process Problems	0.00	0.00
d. Other Known Causes	0.00	0.00
e. Unknown Causes	0.00	0.00
Total duration of excess emission	46.00	2.08

Total Monitored Operating Hours in Period	2207.50
Total duration of excess emissions x 100 / [Total source operating time]. (%)	2.08

Monitor Span Exceedance Summary for NOX

Instrument Span: 200

Low Range Exceedances
Instrument Low Range: 100

DATE	HOUR
09/16/2004	5
09/16/2004	7
09/16/2004	8
09/16/2004	9
09/16/2004	13
09/16/2004	14
09/16/2004	15
09/16/2004	16
09/16/2004	17
09/16/2004	18

The instrument did not exceed its span during the reporting period.

Changes since last quarter in CMS, process or controls for NOX:

None.

I certify that the information contained in this report is true, accurate, and complete.

William G. Vela
Name

Signature

Engineering Group
Title

10/20/2004
Date

==========

Monitor Downtime Report
AES Puerto Rico
Unit #1
SO2

==========

Report for 07/01/2004 to 09/30/2004
Today's Date: 10/19/2004

==========

1. Monitor Availability

Reasons for Missing or Unacceptable Data	Downtime (hours)	% Downtime to Operating Time
a. Monitor Malfunctions	0.00	0.00
b. Non-Monitor Equipment Malfunctions	0.00	0.00
c. Quality Assurance	0.00	0.00
d. Other Known Causes	0.00	0.00
e. Unknown Causes	0.00	0.00
Total CMS Downtime	0.00	0.00

Total Online Operating Hours	2207.50
[Total CMS Downtime] x 100 / [Total source operating time]. (%)	0.00

2. Excess Emissions

Reasons for Missing Excess Emission	Duration of Time (hours)	% Excess Emission to Operating Time
a. Startup / Shutdown	8.00	0.36
b. Control Equipment Malfunction	0.00	0.00
c. Process Problems	0.00	0.00
d. Other Known Causes	3.00	0.14
e. Unknown Causes	0.00	0.00
Total duration of excess emission	11.00	0.50

Total Monitored Operating Hours in Period	2207.50
Total duration of excess emissions x 100 / [Total source operating time]. (%)	0.50

Monitor Span Exceedance Summary for SO2

Instrument Span: 50

Low Range Exceedances
Instrument Low Range: 20

DATE	HOUR
09/03/2004	22
09/15/2004	13
09/15/2004	14
09/15/2004	15
09/15/2004	16
09/15/2004	17
09/15/2004	18
09/15/2004	19
09/15/2004	20
09/15/2004	21
09/15/2004	22
09/15/2004	23

The instrument did not exceed its span during the reporting period.

Changes since last quarter in CMS, process or controls for SO2:

None.

I certify that the information contained in this report is true, accurate, and complete.

William G Vela
Name

Signature

Engineering Group
Title

10/20/2004
Date

==========

Monitor Downtime Report
AES Puerto Rico
Unit #1
CO

==========

Report for 07/01/2004 to 09/30/2004
Today's Date: 10/19/2004

==========

1. Monitor Availability

Reasons for Missing or Unacceptable Data	Downtime (hours)	% Downtime to Operating Time
a. Monitor Malfunctions	0.00	0.00
b. Non-Monitor Equipment Malfunctions	0.00	0.00
c. Quality Assurance	0.00	0.00
d. Other Known Causes	0.00	0.00
e. Unknown Causes	0.00	0.00
Total CMS Downtime	0.00	0.00

Total Online Operating Hours	2207.50
[Total CMS Downtime] x 100 / [Total source operating time]. (%)	0.00

2. Excess Emissions

Reasons for Missing Excess Emission	Duration of Time (hours)	% Excess Emission to Operating Time
a. Startup / Shutdown	2.00	0.09
b. Control Equipment Malfunction	0.00	0.00
c. Process Problems	0.00	0.00
d. Other Known Causes	0.00	0.00
e. Unknown Causes	0.00	0.00
Total duration of excess emission	2.00	0.09

Total Monitored Operating Hours in Period	2207.50
Total duration of excess emissions x 100 / [Total source operating time]. (%)	0.09

Monitor Span Exceedance Summary for CO

Instrument Span: 1000

The instrument did not exceed its low range during the reporting period.

The instrument did not exceed its span during the reporting period.

Changes since last quarter in CMS, process or controls for CO:

None.

I certify that the information contained in this report is true, accurate, and complete.

William G. Vela

Name

William Vela

Signature

Engineering Group

Title

10/20/2004

Date

Monitoring System Performance and Excess Emission Summary

Unit 2

==========

Monitor Downtime Report
AES Puerto Rico
Unit #2
OPACITY

==========

Report for 07/01/2004 to 09/30/2004
Today's Date: 10/20/2004

==========

1. Monitor Availability

Reasons for Missing or Unacceptable Data	Downtime (minutes)	% Downtime to Operating Time
a. Monitor Malfunctions	0	0.00
b. Non-Monitor Equipment Malfunctions	0	0.00
c. Quality Assurance	48	0.00
d. Other Known Causes	24	0.06
e. Unknown Causes	0	0.00
Total CMS Downtime	72	0.06

Total Online Operating Time in Minutes 118698
[Total CMS Downtime] x 100 / [Total source operating time]. (%) 0.06

B. Excess Emissions Summary

1. Number of 6 Minute Averages 19783
2. Number of 6 Minute Averages in Excess of Limit 6

3. Reasons for Excess Emissions Based on 6 Minute Rolling Average	Duration (Minutes)	% E.E. Time To Operating Time
I. Startup / Shutdown	24	0.02
II. Control Equipment Malfunction	0	0.00
III. Process Malfunction	0	0.00
IV. Unknown Causes	0	0.00
V. Other Known Causes	12	0.01
TOTAL	36	

Total Monitored Facility Operating Minutes 118626
Total duration of excess emissions x 100 / [Total source operating time]. (%) 0.03

Monitor Span Exceedance Summary for OPACITY

Instrument Span: 80

The instrument did not exceed its span during the reporting period.

Changes since last quarter in CMS, process or controls for OPACITY:

None.

I certify that the information contained in this report is true, accurate, and complete.

William G. Vela

Name

Signature

Engineering Group

Title

10/20/2004

Date

==========

Monitor Downtime Report
AES Puerto Rico
Unit #2
NOX

==========

Report for 07/01/2004 to 09/30/2004
Today's Date: 10/20/2004

==========

1. Monitor Availability

Reasons for Missing or Unacceptable Data	Downtime (hours)	% Downtime to Operating Time
a. Monitor Malfunctions	0.00	0.00
b. Non-Monitor Equipment Malfunctions	0.00	0.00
c. Quality Assurance	0.00	0.00
d. Other Known Causes	0.00	0.00
e. Unknown Causes	0.00	0.00
Total CMS Downtime	0.00	0.00

Total Online Operating Hours	1929.00
[Total CMS Downtime] x 100 / [Total source operating time]. (%)	0.00

2. Excess Emissions

Reasons for Missing Excess Emission	Duration of Time (hours)	% Excess Emission to Operating Time
a. Startup / Shutdown	13.00	0.67
b. Control Equipment Malfunction	0.00	0.00
c. Process Problems	0.00	0.00
d. Other Known Causes	0.00	0.00
e. Unknown Causes	0.00	0.00
Total duration of excess emission	13.00	0.67

Total Monitored Operating Hours in Period	1929.00
Total duration of excess emissions x 100 / [Total source operating time]. (%)	0.67

Monitor Span Exceedance Summary for NOX

Instrument Span: 200

Low Range Exceedances
Instrument Low Range: 100

DATE	HOUR
08/05/2004	22
08/05/2004	23
08/06/2004	0
08/06/2004	1
08/06/2004	2
08/06/2004	3
09/18/2004	20

The instrument did not exceed its span during the reporting period.

Changes since last quarter in CMS, process or controls for NOX:

None.

I certify that the information contained in this report is true, accurate, and complete.

William G. Vela
Name

William G. Vela
Signature

Engineering Group
Title

10/20/2004
Date

==========

Monitor Downtime Report
AES Puerto Rico
Unit #2
SO2

==========

Report for 07/01/2004 to 09/30/2004
Today's Date: 10/20/2004

==========

1. Monitor Availability

Reasons for Missing or Unacceptable Data	Downtime (hours)	% Downtime to Operating Time
a. Monitor Malfunctions	0.00	0.00
b. Non-Monitor Equipment Malfunctions	0.00	0.00
c. Quality Assurance	0.00	0.00
d. Other Known Causes	0.00	0.00
e. Unknown Causes	0.00	0.00
Total CMS Downtime	0.00	0.00

Total Online Operating Hours	1929.00
[Total CMS Downtime] x 100 / [Total source operating time]. (%)	0.00

2. Excess Emissions

Reasons for Missing Excess Emission	Duration of Time (hours)	% Excess Emission to Operating Time
a. Startup / Shutdown	10.00	0.52
b. Control Equipment Malfunction	0.00	0.00
c. Process Problems	0.00	0.00
d. Other Known Causes	1.00	0.05
e. Unknown Causes	0.00	0.00
Total duration of excess emission	11.00	0.57

Total Monitored Operating Hours in Period	1929.00
Total duration of excess emissions x 100 / [Total source operating time]. (%)	0.57

Monitor Span Exceedance Summary for SO2

Instrument Span: 50

The instrument did not exceed its low range during the reporting period.

The instrument did not exceed its span during the reporting period.

Changes since last quarter in CMS, process or controls for SO2:

None.

I certify that the information contained in this report is true, accurate, and complete.

William G. Vela

Name

William G. Vela

Signature

Engineering Group

Title

10/20/2004

Date

==========

Monitor Downtime Report
AES Puerto Rico
Unit #2
CO

==========

Report for 07/01/2004 to 09/30/2004
Today's Date: 10/20/2004

==========

1. Monitor Availability

Reasons for Missing or Unacceptable Data	Downtime (hours)	% Downtime to Operating Time
a. Monitor Malfunctions	0.00	0.00
b. Non-Monitor Equipment Malfunctions	0.00	0.00
c. Quality Assurance	0.00	0.00
d. Other Known Causes	0.00	0.00
e. Unknown Causes	0.00	0.00
Total CMS Downtime	0.00	0.00

Total Online Operating Hours 1929.00
[Total CMS Downtime] x 100 / [Total source operating time]. (%) 0.00

2. Excess Emissions

Reasons for Missing Excess Emission	Duration of Time (hours)	% Excess Emission to Operating Time
a. Startup / Shutdown	0.00	0.00
b. Control Equipment Malfunction	0.00	0.00
c. Process Problems	0.00	0.00
d. Other Known Causes	0.00	0.00
e. Unknown Causes	0.00	0.00
Total duration of excess emission	0.00	0.00

Total Monitored Operating Hours in Period 1929.00
Total duration of excess emissions x 100 / [Total source operating time]. (%) 0.00

Monitor Span Exceedance Summary for CO

Instrument Span: 1000

The instrument did not exceed its low range during the reporting period.

The instrument did not exceed its span during the reporting period.

Changes since last quarter in CMS, process or controls for CO:

None.

I certify that the information contained in this report is true, accurate, and complete.

William G. Vela

Name

William G. Vela

Signature

Engineering Group

Title

10/20/2004

Date

Excess Emissions Report

Unit 1

Opacity Excess Emissions Report
AES Puerto Rico
Unit #1

Opacity Excess Emission Limit: 20.0 %

Today's Date: 10/20/2004
Time: 12:14:27

Reporting Period
07/01/2004 - 09/30/2004

Date	Time	ID	Value	Reason / Action / Comment
07/04/2004	0136	OPACITY1	54.800%	R: PRECIPITATOR TROUBLE A: NOTIFIED ELECTRIC SHOP C: Loss of TR's and rappers, had to be turned on manually
07/04/2004	0142	OPACITY1	36.800%	R: PRECIPITATOR TROUBLE C: Loss of all TR's and rappers, had to be turned on manually
07/04/2004	1748	OPACITY1	32.100%	R: PRECIPITATOR TROUBLE A: NOTIFIED CONTROLS SHOP C: loss of all t/r's and rappers
07/04/2004	1754	OPACITY1	30.700%	R: PRECIPITATOR TROUBLE C: loss of all t/r's and rappers

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Hourly Excess Emissions Report
AES Puerto Rico
Unit #1

==========

NOx 24 Hour Rolling Average Limits:	57 ppmvd corrected to 7% Oxygen 0.10 lb/mmBtu 246.1 lb/hr
CO 8 Hour Rolling Average Limits:	94 ppmvd corrected to 7% Oxygen 0.10 lb/mmBtu 246.1 lb/hr
SO2 3 Hour Rolling Average Limits:	9.00 ppmvd corrected to 7% Oxygen 0.022 lb/mmBtu 54.1 lb/hr

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Today's Date: 10/20/2004
Time: 12:17:50

Reporting Period
07/01/2004 - 09/30/2004

Date	Time	ID	Value	Reason / Action / Comment
09/03/2004	2300	SO2_3HR	58.40 ppmvd	R: STARTUP C:
09/03/2004	2300	SO2_3HR_RT	0.143 lb/mmBtu	R: STARTUP C:
09/03/2004	2300	SO2_3HR_ME	68.9 lb/hr	R: STARTUP C:
09/04/2004	0000	SO2_3HR	28.80 ppmvd	R: STARTUP C:
09/04/2004	0000	SO2_3HR_RT	0.071 lb/mmBtu	R: STARTUP C:
09/04/2004	0100	SO2_3HR	12.30 ppmvd	R: STARTUP C:
09/04/2004	0100	SO2_3HR_RT	0.030 lb/mmBtu	R: STARTUP C:
09/04/2004	2000	NOX_24HR	63 ppmvd	R: STARTUP C:
09/04/2004	2000	NOX_24HR_RT	0.11 lb/mmBtu	R: STARTUP

					C:	
09/04/2004	2100	NOX_24HR	59	ppmvd	R:	STARTUP
					C:	
09/16/2004	0100	SO2_3HR	48.60	ppmvd	R:	STARTUP
					C:	Island emergency TS Jeanne - ext ended low load operation
09/16/2004	0100	SO2_3HR_RT	0.119	lb/mmBtu	R:	STARTUP
					C:	
09/16/2004	0100	SO2_3HR_ME	54.6	lb/hr	R:	STARTUP
					C:	
09/16/2004	0200	SO2_3HR	29.80	ppmvd	R:	STARTUP
					C:	Island emergency TS Jeanne - ext ended low load operation
09/16/2004	0200	SO2_3HR_RT	0.073	lb/mmBtu	R:	STARTUP
					C:	
09/16/2004	0300	SO2_3HR	14.40	ppmvd	R:	STARTUP
					C:	Island emergency TS Jeanne - ext ended low load operation
09/16/2004	0300	SO2_3HR_RT	0.035	lb/mmBtu	R:	STARTUP
					C:	
09/16/2004	0400	SO2_3HR	16.00	ppmvd	R:	STARTUP
					C:	
09/16/2004	0400	SO2_3HR_RT	0.039	lb/mmBtu	R:	STARTUP
					C:	
09/16/2004	0500	SO2_3HR	13.20	ppmvd	R:	STARTUP
					C:	
09/16/2004	0500	SO2_3HR_RT	0.032	lb/mmBtu	R:	STARTUP
					C:	
09/16/2004	0600	CO1_8HR	137	ppmvd	R:	STARTUP
					C:	Island emergency TS Jeanne - ext ended low load operation
09/16/2004	0600	CO1_8HR_RT	0.15	lb/mmBtu	R:	STARTUP
					C:	

09/16/2004	0700	CO1_8HR	109	ppmvd	R:	STARTUP
					C:	
09/16/2004	0700	CO1_8HR_RT	0.12	lb/mmBtu	R:	STARTUP
					C:	
09/16/2004	2200	NOX_24HR	210	ppmvd	R:	STARTUP
					C:	Island emergency TS Jeanne - ext ended low load emergency
09/16/2004	2200	NOX_24HR_RT	0.37	lb/mmBtu	R:	STARTUP
					C:	
09/16/2004	2200	NOX_24HR_ME	271.6	lb/hr	R:	STARTUP
					C:	
09/16/2004	2300	NOX_24HR	215	ppmvd	R:	STARTUP
					C:	
09/16/2004	2300	NOX_24HR_RT	0.38	lb/mmBtu	R:	STARTUP
					C:	
09/16/2004	2300	NOX_24HR_ME	281.6	lb/hr	R:	STARTUP
					C:	
09/17/2004	0000	NOX_24HR	216	ppmvd	R:	STARTUP
					C:	
09/17/2004	0000	NOX_24HR_RT	0.38	lb/mmBtu	R:	STARTUP
					C:	
09/17/2004	0000	NOX_24HR_ME	288.4	lb/hr	R:	STARTUP
					C:	
09/17/2004	0100	NOX_24HR	216	ppmvd	R:	STARTUP
					C:	
09/17/2004	0100	NOX_24HR_RT	0.38	lb/mmBtu	R:	STARTUP
					C:	
09/17/2004	0100	NOX_24HR_ME	291.7	lb/hr	R:	STARTUP
					C:	

09/17/2004	0200	NOX_24HR	215	ppmvd	R:	STARTUP
					C:	
09/17/2004	0200	NOX_24HR_RT	0.38	lb/mmBtu	R:	STARTUP
					C:	
09/17/2004	0200	NOX_24HR_ME	295.4	lb/hr	R:	STARTUP
					C:	
09/17/2004	0300	NOX_24HR	214	ppmvd	R:	STARTUP
					C:	
09/17/2004	0300	NOX_24HR_RT	0.38	lb/mmBtu	R:	STARTUP
					C:	
09/17/2004	0300	NOX_24HR_ME	298.3	lb/hr	R:	STARTUP
					C:	
09/17/2004	0400	NOX_24HR	215	ppmvd	R:	STARTUP
					C:	
09/17/2004	0400	NOX_24HR_RT	0.38	lb/mmBtu	R:	STARTUP
					C:	
09/17/2004	0400	NOX_24HR_ME	301.4	lb/hr	R:	STARTUP
					C:	
09/17/2004	0500	NOX_24HR	215	ppmvd	R:	STARTUP
					C:	
09/17/2004	0500	NOX_24HR_RT	0.38	lb/mmBtu	R:	STARTUP
					C:	
09/17/2004	0500	NOX_24HR_ME	300.7	lb/hr	R:	STARTUP
					C:	
09/17/2004	0600	NOX_24HR	213	ppmvd	R:	STARTUP
					C:	
09/17/2004	0600	NOX_24HR_RT	0.38	lb/mmBtu	R:	STARTUP
					C:	

09/17/2004	0600	NOX_24HR_ME	300.1	lb/hr	R: C:	STARTUP
09/17/2004	0700	NOX_24HR	212	ppmvd	R: C:	STARTUP
09/17/2004	0700	NOX_24HR_RT	0.37	lb/mmBtu	R: C:	STARTUP
09/17/2004	0700	NOX_24HR_ME	299.6	lb/hr	R: C:	STARTUP
09/17/2004	0800	NOX_24HR	212	ppmvd	R: C:	STARTUP
09/17/2004	0800	NOX_24HR_RT	0.37	lb/mmBtu	R: C:	STARTUP
09/17/2004	0800	NOX_24HR_ME	299.2	lb/hr	R: C:	STARTUP
09/17/2004	0900	NOX_24HR	211	ppmvd	R: C:	STARTUP
09/17/2004	0900	NOX_24HR_RT	0.37	lb/mmBtu	R: C:	STARTUP
09/17/2004	0900	NOX_24HR_ME	298.9	lb/hr	R: C:	STARTUP
09/17/2004	1000	NOX_24HR	208	ppmvd	R: C:	STARTUP
09/17/2004	1000	NOX_24HR_RT	0.36	lb/mmBtu	R: C:	STARTUP
09/17/2004	1000	NOX_24HR_ME	299.0	lb/hr	R: C:	STARTUP
09/17/2004	1100	NOX_24HR	207	ppmvd	R: C:	STARTUP
09/17/2004	1100	NOX_24HR_RT	0.36	lb/mmBtu	R:	STARTUP

					C:	
09/17/2004	1100	NOX_24HR_ME	299.3	lb/hr	R:	STARTUP
					C:	
09/17/2004	1200	NOX_24HR	205	ppmvd	R:	STARTUP
					C:	Island emergency TS Jeanne - ext ended low load operation
09/17/2004	1200	NOX_24HR_RT	0.36	lb/mmBtu	R:	STARTUP
					C:	
09/17/2004	1200	NOX_24HR_ME	298.8	lb/hr	R:	STARTUP
					C:	
09/17/2004	1300	NOX_24HR	204	ppmvd	R:	STARTUP
					C:	
09/17/2004	1300	NOX_24HR_RT	0.36	lb/mmBtu	R:	STARTUP
					C:	
09/17/2004	1300	NOX_24HR_ME	298.5	lb/hr	R:	STARTUP
					C:	
09/17/2004	1400	NOX_24HR	204	ppmvd	R:	STARTUP
					C:	
09/17/2004	1400	NOX_24HR_RT	0.36	lb/mmBtu	R:	STARTUP
					C:	
09/17/2004	1400	NOX_24HR_ME	297.6	lb/hr	R:	STARTUP
					C:	
09/17/2004	1500	NOX_24HR	203	ppmvd	R:	STARTUP
					C:	
09/17/2004	1500	NOX_24HR_RT	0.36	lb/mmBtu	R:	STARTUP
					C:	
09/17/2004	1500	NOX_24HR_ME	296.4	lb/hr	R:	STARTUP
					C:	
09/17/2004	1600	NOX_24HR	202	ppmvd	R:	STARTUP
					C:	Island emergency TS Jeanne - ext

ended low load operation

09/17/2004	1600	NOX_24HR_RT	0.35	lb/mmBtu	R:	STARTUP
					C:	
09/17/2004	1600	NOX_24HR_ME	296.2	lb/hr	R:	STARTUP
					C:	
09/17/2004	1700	NOX_24HR	201	ppmvd	R:	STARTUP
					C:	
09/17/2004	1700	NOX_24HR_RT	0.35	lb/mmBtu	R:	STARTUP
					C:	
09/17/2004	1700	NOX_24HR_ME	295.9	lb/hr	R:	STARTUP
					C:	
09/17/2004	1800	NOX_24HR	200	ppmvd	R:	STARTUP
					C:	
09/17/2004	1800	NOX_24HR_RT	0.35	lb/mmBtu	R:	STARTUP
					C:	
09/17/2004	1800	NOX_24HR_ME	295.7	lb/hr	R:	STARTUP
					C:	
09/17/2004	1900	NOX_24HR	199	ppmvd	R:	STARTUP
					C:	
09/17/2004	1900	NOX_24HR_RT	0.35	lb/mmBtu	R:	STARTUP
					C:	
09/17/2004	1900	NOX_24HR_ME	295.2	lb/hr	R:	STARTUP
					C:	
09/17/2004	2000	NOX_24HR	198	ppmvd	R:	STARTUP
					C:	
09/17/2004	2000	NOX_24HR_RT	0.35	lb/mmBtu	R:	STARTUP
					C:	
09/17/2004	2000	NOX_24HR_ME	294.3	lb/hr	R:	STARTUP
					C:	

09/17/2004 2100	NOX_24HR	197	ppmvd	R: STARTUP C:	
09/17/2004 2100	NOX_24HR_RT	0.35	lb/mmBtu	R: STARTUP C:	
09/17/2004 2100	NOX_24HR_ME	293.2	lb/hr	R: STARTUP C:	
09/17/2004 2200	NOX_24HR	196	ppmvd	R: STARTUP C:	
09/17/2004 2200	NOX_24HR_RT	0.34	lb/mmBtu	R: STARTUP C:	
09/17/2004 2200	NOX_24HR_ME	291.7	lb/hr	R: STARTUP C:	
09/17/2004 2300	NOX_24HR	195	ppmvd	R: STARTUP C:	
09/17/2004 2300	NOX_24HR_RT	0.34	lb/mmBtu	R: STARTUP C:	
09/17/2004 2300	NOX_24HR_ME	290.6	lb/hr	R: STARTUP C:	
09/18/2004 0000	NOX_24HR	194	ppmvd	R: STARTUP C:	
09/18/2004 0000	NOX_24HR_RT	0.34	lb/mmBtu	R: STARTUP C:	Island emergency TS Jeanne - ext ended low load operation
09/18/2004 0000	NOX_24HR_ME	289.9	lb/hr	R: STARTUP C:	
09/18/2004 0100	NOX_24HR	193	ppmvd	R: STARTUP C:	
09/18/2004 0100	NOX_24HR_RT	0.34	lb/mmBtu	R: STARTUP C:	

09/18/2004	0100	NOX_24HR_ME	289.4	lb/hr	R:	STARTUP
					C:	
09/18/2004	0200	NOX_24HR	193	ppmvd	R:	STARTUP
					C:	
09/18/2004	0200	NOX_24HR_RT	0.34	lb/mmBtu	R:	STARTUP
					C:	
09/18/2004	0200	NOX_24HR_ME	288.8	lb/hr	R:	STARTUP
					C:	
09/18/2004	0300	NOX_24HR	192	ppmvd	R:	STARTUP
					C:	
09/18/2004	0300	NOX_24HR_RT	0.34	lb/mmBtu	R:	STARTUP
					C:	
09/18/2004	0300	NOX_24HR_ME	288.4	lb/hr	R:	STARTUP
					C:	
09/18/2004	0400	NOX_24HR	192	ppmvd	R:	STARTUP
					C:	
09/18/2004	0400	NOX_24HR_RT	0.34	lb/mmBtu	R:	STARTUP
					C:	
09/18/2004	0400	NOX_24HR_ME	287.9	lb/hr	R:	STARTUP
					C:	
09/18/2004	0500	NOX_24HR	191	ppmvd	R:	STARTUP
					C:	
09/18/2004	0500	NOX_24HR_RT	0.34	lb/mmBtu	R:	STARTUP
					C:	
09/18/2004	0500	NOX_24HR_ME	287.2	lb/hr	R:	STARTUP
					C:	
09/18/2004	0600	NOX_24HR	190	ppmvd	R:	STARTUP
					C:	
09/18/2004	0600	NOX_24HR_RT	0.33	lb/mmBtu	R:	STARTUP

					C:	
09/18/2004	0600	NOX_24HR_ME	286.5	lb/hr	R:	STARTUP
					C:	
09/18/2004	0700	NOX_24HR	190	ppmvd	R:	STARTUP
					C:	
09/18/2004	0700	NOX_24HR_RT	0.33	lb/mmBtu	R:	STARTUP
					C:	
09/18/2004	0700	NOX_24HR_ME	286.0	lb/hr	R:	STARTUP
					C:	
09/18/2004	0800	NOX_24HR	187	ppmvd	R:	STARTUP
					C:	
09/18/2004	0800	NOX_24HR_RT	0.33	lb/mmBtu	R:	STARTUP
					C:	
09/18/2004	0800	NOX_24HR_ME	284.7	lb/hr	R:	STARTUP
					C:	
09/18/2004	0900	NOX_24HR	183	ppmvd	R:	STARTUP
					C:	Island emergency TS Jeanne -extended low load operation
09/18/2004	0900	NOX_24HR_RT	0.32	lb/mmBtu	R:	STARTUP
					C:	
09/18/2004	0900	NOX_24HR_ME	283.1	lb/hr	R:	STARTUP
					C:	
09/18/2004	1000	NOX_24HR	177	ppmvd	R:	STARTUP
					C:	
09/18/2004	1000	NOX_24HR_RT	0.31	lb/mmBtu	R:	STARTUP
					C:	
09/18/2004	1000	NOX_24HR_ME	277.3	lb/hr	R:	STARTUP
					C:	
09/18/2004	1100	NOX_24HR	171	ppmvd	R:	STARTUP
					C:	

09/18/2004	1100	NOX_24HR_RT	0.30	lb/mmBtu	R:	STARTUP
					C:	
09/18/2004	1100	NOX_24HR_ME	272.1	lb/hr	R:	STARTUP
					C:	
09/18/2004	1200	NOX_24HR	165	ppmvd	R:	STARTUP
					C:	
09/18/2004	1200	NOX_24HR_RT	0.29	lb/mmBtu	R:	STARTUP
					C:	
09/18/2004	1200	NOX_24HR_ME	267.2	lb/hr	R:	STARTUP
					C:	
09/18/2004	1300	NOX_24HR	159	ppmvd	R:	STARTUP
					C:	
09/18/2004	1300	NOX_24HR_RT	0.28	lb/mmBtu	R:	STARTUP
					C:	
09/18/2004	1300	NOX_24HR_ME	262.3	lb/hr	R:	STARTUP
					C:	
09/18/2004	1400	NOX_24HR	153	ppmvd	R:	STARTUP
					C:	
09/18/2004	1400	NOX_24HR_RT	0.27	lb/mmBtu	R:	STARTUP
					C:	
09/18/2004	1400	NOX_24HR_ME	258.5	lb/hr	R:	STARTUP
					C:	
09/18/2004	1500	NOX_24HR	147	ppmvd	R:	STARTUP
					C:	
09/18/2004	1500	NOX_24HR_RT	0.26	lb/mmBtu	R:	STARTUP
					C:	
09/18/2004	1500	NOX_24HR_ME	255.0	lb/hr	R:	STARTUP
					C:	

09/18/2004	1600	NOX_24HR	141	ppmvd	R:	STARTUP
					C:	
09/18/2004	1600	NOX_24HR_RT	0.25	lb/mmBtu	R:	STARTUP
					C:	
09/18/2004	1600	NOX_24HR_ME	250.5	lb/hr	R:	STARTUP
					C:	
09/18/2004	1700	NOX_24HR	135	ppmvd	R:	STARTUP
					C:	Island emergency TS Jeanne - ext ended low load operation.
09/18/2004	1700	NOX_24HR_RT	0.24	lb/mmBtu	R:	STARTUP
					C:	
09/21/2004	1000	SO2_3HR	9.20	ppmvd	R:	SO3 SYSTEM TROUBLE
					A:	NOTIFIED CONTROLS SHOP
					C:	PLUG HIDRATED LIME SYSTEM
09/21/2004	1000	SO2_3HR_RT	0.023	lb/mmBtu	R:	SO3 SYSTEM TROUBLE
					C:	PLUG HYDRATED LIME SYSTEM
09/22/2004	0000	SO2_3HR	9.60	ppmvd	R:	SO3 SYSTEM TROUBLE
					C:	HYDRATED LIME SYSTEM PLUG
09/22/2004	0000	SO2_3HR_RT	0.023	lb/mmBtu	R:	SO3 SYSTEM TROUBLE
					C:	HYDRATED LIME SYSTEM PLUG
09/22/2004	0100	SO2_3HR	9.30	ppmvd	R:	SO3 SYSTEM TROUBLE
					A:	NOTIFIED CONTROLS SHOP
					C:	HYDRATED LIME SYS. PLUG
09/22/2004	0100	SO2_3HR_RT	0.023	lb/mmBtu	R:	SO3 SYSTEM TROUBLE
					C:	HYDRATED LIME SYSTEM PLUG

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Excess Emissions Report

Unit 2

Opacity Excess Emissions Report
AES Puerto Rico
Unit #2

Opacity Excess Emission Limit: 20.0 %

Today's Date: 10/20/2004
Time: 12:15:56

Reporting Period
07/01/2004 - 09/30/2004

Date	Time	ID	Value	Reason / Action / Comment
07/27/2004	1118	OPACITY2	72.800%	R: SHUTDOWN/UNIT TRIP C: Unit 2 Shutdown since 0300 7/27
07/27/2004	1124	OPACITY2	41.700%	R: SHUTDOWN/UNIT TRIP C: Unit 2 shutdown since 0300 7/27
08/02/2004	1818	OPACITY2	59.100%	R: SHUTDOWN/UNIT TRIP C: Invalid - unit shutdown, fans off
08/07/2004	2224	OPACITY2	27.100%	R: PRECIPITATOR TROUBLE C: Not reportable - only one this hour
08/08/2004	1018	OPACITY2	29.600%	R: PRECIPITATOR TROUBLE C: Made adjustments to rotary valves
09/18/2004	0954	OPACITY2	27.400%	R: STARTUP C: Starting fans - dispatched to SU by utility

Hourly Excess Emissions Report
AES Puerto Rico
Unit #2

NOx 24 Hour Rolling Average Limits:	57 ppmvd corrected to 7% Oxygen 0.10 lb/mmBtu 246.1 lb/hr
CO 8 Hour Rolling Average Limits:	94 ppmvd corrected to 7% Oxygen 0.10 lb/mmBtu 246.1 lb/hr
SO2 3 Hour Rolling Average Limits:	9.00 ppmvd corrected to 7% Oxygen 0.022 lb/mmBtu 54.1 lb/hr

Today's Date: 10/20/2004
Time: 12:38:17

Reporting Period
07/01/2004 - 09/30/2004

Date	Time	ID	Value		Reason / Action / Comment
07/06/2004	0900	SO2_3HR	9.10	ppmvd	R: LOADSWING A: NOTIFIED BTO C: Started Hyd lime Grav feeder
08/05/2004	1900	SO2_3HR	64.30	ppmvd	R: STARTUP C:
08/05/2004	1900	SO2_3HR_RT	0.157	lb/mmBtu	R: STARTUP C:
08/05/2004	1900	SO2_3HR_ME	69.1	lb/hr	R: STARTUP C:
08/05/2004	2000	SO2_3HR	57.40	ppmvd	R: STARTUP C:
08/05/2004	2000	SO2_3HR_RT	0.140	lb/mmBtu	R: STARTUP C:
08/05/2004	2000	SO2_3HR_ME	69.1	lb/hr	R: STARTUP C:
08/05/2004	2100	SO2_3HR	49.70	ppmvd	R: STARTUP C:
08/05/2004	2100	SO2_3HR_RT	0.121	lb/mmBtu	R: STARTUP

					C:
08/05/2004	2100	SO2_3HR_ME	69.2	lb/hr	R: STARTUP C:
08/05/2004	2200	SO2_3HR	42.00	ppmvd	R: STARTUP C:
08/05/2004	2200	SO2_3HR_RT	0.103	lb/mmBtu	R: STARTUP C:
08/05/2004	2200	SO2_3HR_ME	67.0	lb/hr	R: STARTUP C:
08/05/2004	2300	SO2_3HR	39.90	ppmvd	R: STARTUP C:
08/05/2004	2300	SO2_3HR_RT	0.097	lb/mmBtu	R: STARTUP C:
08/05/2004	2300	SO2_3HR_ME	73.2	lb/hr	R: STARTUP C:
08/06/2004	0000	SO2_3HR	38.80	ppmvd	R: STARTUP C:
08/06/2004	0000	SO2_3HR_RT	0.095	lb/mmBtu	R: STARTUP C:
08/06/2004	0000	SO2_3HR_ME	81.4	lb/hr	R: STARTUP C:
08/06/2004	0100	SO2_3HR	38.60	ppmvd	R: STARTUP C:
08/06/2004	0100	SO2_3HR_RT	0.094	lb/mmBtu	R: STARTUP C:
08/06/2004	0100	SO2_3HR_ME	93.8	lb/hr	R: STARTUP C:
08/06/2004	0200	SO2_3HR	34.50	ppmvd	R: STARTUP C:

08/06/2004	0200	SO2_3HR_RT	0.084	lb/mmBtu	R:	STARTUP
					C:	
08/06/2004	0200	SO2_3HR_ME	101.0	lb/hr	R:	STARTUP
					C:	
08/06/2004	0300	SO2_3HR	26.20	ppmvd	R:	STARTUP
					C:	
08/06/2004	0300	SO2_3HR_RT	0.064	lb/mmBtu	R:	STARTUP
					C:	
08/06/2004	0300	SO2_3HR_ME	85.9	lb/hr	R:	STARTUP
					C:	
08/06/2004	0400	SO2_3HR	16.70	ppmvd	R:	STARTUP
					C:	
08/06/2004	0400	SO2_3HR_RT	0.041	lb/mmBtu	R:	STARTUP
					C:	
08/06/2004	0400	SO2_3HR_ME	60.6	lb/hr	R:	STARTUP
					C:	
08/06/2004	1600	NOX_24HR	118	ppmvd	R:	STARTUP
					C:	
08/06/2004	1600	NOX_24HR_RT	0.21	lb/mmBtu	R:	STARTUP
					C:	
08/06/2004	1600	NOX_24HR_ME	248.3	lb/hr	R:	STARTUP
					C:	
08/06/2004	1700	NOX_24HR	114	ppmvd	R:	STARTUP
					C:	
08/06/2004	1700	NOX_24HR_RT	0.20	lb/mmBtu	R:	STARTUP
					C:	
08/06/2004	1700	NOX_24HR_ME	252.5	lb/hr	R:	STARTUP
					C:	

08/06/2004	1800	NOX_24HR	109	ppmvd	R: C:	STARTUP
08/06/2004	1800	NOX_24HR_RT	0.19	lb/mmBtu	R: C:	STARTUP
08/06/2004	1800	NOX_24HR_ME	256.4	lb/hr	R: C:	STARTUP
08/06/2004	1900	NOX_24HR	105	ppmvd	R: C:	STARTUP
08/06/2004	1900	NOX_24HR_RT	0.18	lb/mmBtu	R: C:	STARTUP
08/06/2004	1900	NOX_24HR_ME	259.5	lb/hr	R: C:	STARTUP
08/06/2004	2000	NOX_24HR	100	ppmvd	R: C:	STARTUP
08/06/2004	2000	NOX_24HR_RT	0.18	lb/mmBtu	R: C:	STARTUP
08/06/2004	2000	NOX_24HR_ME	261.5	lb/hr	R: C:	STARTUP
08/06/2004	2100	NOX_24HR	94	ppmvd	R: C:	STARTUP
08/06/2004	2100	NOX_24HR_RT	0.16	lb/mmBtu	R: C:	STARTUP
08/06/2004	2100	NOX_24HR_ME	260.9	lb/hr	R: C:	STARTUP
08/06/2004	2200	NOX_24HR	87	ppmvd	R: C:	STARTUP
08/06/2004	2200	NOX_24HR_RT	0.15	lb/mmBtu	R: C:	STARTUP

08/06/2004	2200	NOX_24HR_ME	258.7	lb/hr	R: STARTUP C:	
08/06/2004	2300	NOX_24HR	80	ppmvd	R: STARTUP C:	
08/06/2004	2300	NOX_24HR_RT	0.14	lb/mmBtu	R: STARTUP C:	
08/06/2004	2300	NOX_24HR_ME	254.1	lb/hr	R: STARTUP C: High NOx during startup	
08/07/2004	0000	NOX_24HR	74	ppmvd	R: STARTUP C: High NOx during startup	
08/07/2004	0000	NOX_24HR_RT	0.13	lb/mmBtu	R: STARTUP C: High NOx during startup on 8-6	
08/07/2004	0000	NOX_24HR_ME	249.1	lb/hr	R: STARTUP C: High NOx during startup on 8-6	
08/07/2004	0100	NOX_24HR	69	ppmvd	R: STARTUP C: High Nox during startup on 8-6	
08/07/2004	0100	NOX_24HR_RT	0.12	lb/mmBtu	R: STARTUP C: High NOx during startup on 8-6	
08/07/2004	0200	NOX_24HR	65	ppmvd	R: STARTUP C: High NOx during startup on 8-6	
08/07/2004	0200	NOX_24HR_RT	0.11	lb/mmBtu	R: STARTUP C: High NOx during startup on 8-6	
08/07/2004	0300	NOX_24HR	61	ppmvd	R: STARTUP C: High NOx during startup on 8-6	
08/07/2004	0300	NOX_24HR_RT	0.11	lb/mmBtu	R: STARTUP C: High NOx during startup on 8-6	
08/07/2004	0400	NOX_24HR	59	ppmvd	R: STARTUP C: High NOx during startup on 8-6	

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Daily Emissions Report

Unit 1

30 Day Rolling Averages Report
AES Puerto Rico
Unit #1

Date and Time Report Generated:
10/20/2004 12:42:17

Reporting Period
Start: 07/01/2004
End : 09/30/2004

DATE	OP HOURS DAY	SO2 DAILY AVERAGE lb/mmBtu	SO2 VALID HOURS DAY	SO2 30-DAY AVERAGE lb/mmBtu	SO2 VALID DAYS	NOX DAILY AVERAGE lb/mmBtu	NOX VALID HOURS DAY	NOX 30-DAY AVERAGE lb/mmBtu	NOX VALID DAYS
07/01/2004	24	0.009	24	0.012	29	0.088	24	0.100	29
07/02/2004	24	0.009	24	0.012	29	0.093	24	0.100	29
07/03/2004	24	0.007	24	0.012	29	0.096	24	0.100	29
07/04/2004	24	0.006	24	0.012	29	0.095	24	0.100	29
07/05/2004	24	0.013	23	0.012	29	0.095	24	0.100	29
07/06/2004	24	0.011	24	0.012	29	0.091	24	0.100	29
07/07/2004	24	0.009	24	0.012	29	0.092	24	0.100	29
07/08/2004	24	0.013	24	0.012	29	0.093	24	0.100	29
07/09/2004	24	0.013	24	0.012	29	0.092	24	0.100	29
07/10/2004	24	0.013	24	0.012	29	0.094	24	0.100	29
07/11/2004	24	0.010	24	0.012	29	0.091	24	0.100	29
07/12/2004	24	0.012	24	0.012	29	0.094	24	0.100	29
07/13/2004	24	0.010	24	0.012	29	0.089	24	0.100	29
07/14/2004	24	0.011	24	0.013	29	0.093	24	0.100	29
07/15/2004	24	0.011	24	0.011	30	0.093	24	0.090	30
07/16/2004	24	0.012	24	0.010	30	0.090	24	0.090	30
07/17/2004	24	0.008	24	0.010	30	0.092	24	0.090	30
07/18/2004	24	0.006	24	0.010	30	0.093	24	0.090	30
07/19/2004	24	0.007	24	0.010	30	0.091	24	0.090	30
07/20/2004	24	0.011	24	0.010	30	0.090	24	0.090	30
07/21/2004	24	0.010	24	0.010	30	0.090	24	0.090	30
07/22/2004	24	0.011	24	0.010	30	0.090	24	0.090	30
07/23/2004	24	0.011	24	0.010	30	0.090	24	0.090	30
07/24/2004	24	0.008	24	0.010	30	0.090	24	0.090	30
07/25/2004	24	0.003	23	0.010	30	0.093	23	0.090	30
07/26/2004	24	0.005	24	0.009	30	0.095	24	0.090	30
07/27/2004	24	0.008	24	0.009	30	0.090	24	0.090	30
07/28/2004	24	0.009	24	0.009	30	0.092	24	0.090	30
07/29/2004	24	0.011	24	0.009	30	0.091	24	0.090	30
07/30/2004	24	0.008	24	0.009	30	0.094	24	0.090	30
07/31/2004	24	0.011	24	0.010	30	0.091	24	0.090	30
08/01/2004	24	0.010	24	0.010	30	0.094	24	0.090	30
08/02/2004	24	0.010	24	0.010	30	0.092	24	0.090	30
08/03/2004	24	0.010	24	0.010	30	0.091	24	0.090	30
08/04/2004	24	0.012	24	0.010	30	0.092	24	0.090	30
08/05/2004	24	0.012	24	0.010	30	0.094	24	0.090	30
08/06/2004	24	0.013	24	0.010	30	0.093	24	0.090	30
08/07/2004	24	0.009	24	0.010	30	0.095	24	0.090	30
08/08/2004	24	0.005	24	0.010	30	0.094	24	0.090	30
08/09/2004	24	0.012	24	0.010	30	0.091	24	0.090	30

08/10/2004	24	0.010	24	0.010	30	0.091	24	0.090	30
08/11/2004	24	0.008	24	0.010	30	0.095	24	0.090	30
08/12/2004	24	0.008	24	0.009	30	0.093	24	0.090	30
08/13/2004	23	0.000	0	0.009	30	0.000	0	0.090	30
08/14/2004	24	0.008	24	0.009	30	0.091	24	0.090	30
08/15/2004	24	0.007	24	0.009	30	0.090	24	0.090	30
08/16/2004	24	0.008	24	0.009	30	0.093	24	0.090	30
08/17/2004	24	0.008	24	0.009	30	0.093	24	0.090	30
08/18/2004	24	0.011	24	0.009	30	0.096	24	0.090	30
08/19/2004	24	0.011	24	0.009	30	0.095	24	0.090	30
08/20/2004	24	0.012	24	0.009	30	0.091	24	0.090	30
08/21/2004	24	0.008	24	0.009	30	0.091	24	0.090	30
08/22/2004	24	0.008	24	0.009	30	0.092	24	0.090	30
08/23/2004	24	0.005	24	0.009	30	0.090	24	0.090	30
08/24/2004	24	0.008	24	0.009	30	0.090	24	0.090	30
08/25/2004	24	0.007	24	0.009	30	0.091	24	0.090	30
08/26/2004	24	0.006	24	0.009	30	0.094	24	0.090	30
08/27/2004	24	0.008	24	0.009	30	0.093	24	0.090	30
08/28/2004	24	0.006	24	0.009	30	0.091	24	0.090	30
08/29/2004	24	0.007	23	0.009	30	0.091	24	0.090	30
08/30/2004	24	0.009	24	0.009	30	0.091	24	0.090	30
08/31/2004	24	0.009	23	0.009	30	0.092	23	0.090	30
09/01/2004	24	0.009	24	0.009	30	0.091	24	0.090	30
09/02/2004	24	0.009	24	0.009	30	0.090	24	0.090	30
09/03/2004	24	0.026	24	0.009	30	0.101	24	0.090	30
09/04/2004	24	0.010	24	0.009	30	0.090	24	0.090	30
09/05/2004	24	0.006	23	0.009	30	0.094	23	0.090	30
09/06/2004	24	0.009	24	0.009	30	0.090	24	0.090	30
09/07/2004	24	0.009	24	0.009	30	0.094	24	0.090	30
09/08/2004	24	0.008	24	0.009	30	0.090	24	0.090	30
09/09/2004	24	0.010	24	0.009	30	0.090	24	0.090	30
09/10/2004	24	0.009	24	0.009	30	0.090	24	0.090	30
09/11/2004	24	0.009	24	0.009	30	0.090	24	0.090	30
09/12/2004	24	0.012	24	0.009	30	0.090	24	0.090	30
09/13/2004	24	0.008	24	0.009	30	0.090	24	0.090	30
09/14/2004	24	0.008	24	0.009	30	0.090	24	0.090	30
09/15/2004	24	0.000	16	0.010	29	0.000	16	0.090	29
09/16/2004	24	0.020	24	0.011	29	0.378	24	0.100	29
09/17/2004	24	0.013	24	0.011	29	0.342	24	0.110	29
09/18/2004	24	0.010	23	0.011	29	0.183	23	0.110	29
09/19/2004	24	0.006	23	0.010	29	0.093	23	0.110	29
09/20/2004	24	0.006	24	0.010	29	0.091	24	0.110	29
09/21/2004	24	0.010	24	0.011	29	0.094	24	0.110	29
09/22/2004	24	0.008	24	0.011	29	0.092	24	0.110	29
09/23/2004	24	0.009	24	0.011	29	0.091	24	0.110	29
09/24/2004	24	0.006	24	0.011	29	0.090	24	0.110	29
09/25/2004	24	0.010	24	0.011	29	0.090	24	0.110	29
09/26/2004	24	0.009	24	0.011	29	0.091	24	0.110	29
09/27/2004	24	0.007	24	0.011	29	0.091	24	0.110	29
09/28/2004	24	0.012	24	0.011	29	0.094	24	0.110	29
09/29/2004	24	0.009	24	0.011	29	0.090	24	0.110	29
09/30/2004	24	0.006	24	0.011	29	0.090	24	0.110	29

Fuel Factors used in calculations:

	Fc	Fd
Coal	1800	9780
Oil	1420	9190

* indicates non-compliance

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Data Excluded from 30 Day Rolling Averges
Reporting Period: 07/01/2004 - 09/30/2004

DATE	HOUR	REASON
09/18/2004	18	SHUTDOWN

STARTUP is defined in PSD Permit Attachment II, Section XIV, paragraph 8(a)
SHUTDOWN is defined in PSD Permit Attachment II, Section XIV, paragraph 8(b)

Boiler Operating Days with less than 18 hours of valid SO2 data:

DATE	REASON/ACTION
06/13/2004	Unit Startup after outage
09/15/2004	Unit shutdown for Tropical Storm Jeanne

Boiler Operating Days with less than 18 hours of valid NOx data:

DATE	REASON/ACTION
06/13/2004	Unit Startup after outage
09/15/2004	Unit shutdown for Tropical Storm Jeanne

All boiler operating days were in compliance with the SO2 standard during the report period.

All boiler operating days were in compliance with the NOx standard during the report period.

Daily Emissions Report

Unit 2

30 Day Rolling Averages Report
AES Puerto Rico
Unit #2

Date and Time Report Generated:
10/20/2004 12:47:28

Reporting Period
Start: 07/01/2004
End : 09/30/2004

DATE	OP HOURS DAY	SO2 DAILY AVERAGE lb/mmBtu	SO2 VALID HOURS DAY	SO2 30-DAY AVERAGE lb/mmBtu	SO2 VALID DAYS	NOX DAILY AVERAGE lb/mmBtu	NOX VALID HOURS DAY	NOX 30-DAY AVERAGE lb/mmBtu	NOX VALID DAYS
07/01/2004	24	0.011	24	0.010	30	0.094	24	0.090	30
07/02/2004	24	0.008	24	0.010	30	0.093	24	0.090	30
07/03/2004	24	0.006	24	0.010	30	0.095	24	0.090	30
07/04/2004	24	0.005	24	0.009	30	0.094	24	0.090	30
07/05/2004	24	0.010	24	0.009	30	0.093	24	0.090	30
07/06/2004	24	0.008	24	0.009	30	0.093	24	0.090	30
07/07/2004	24	0.009	24	0.009	30	0.089	24	0.090	30
07/08/2004	24	0.011	24	0.009	30	0.088	24	0.090	30
07/09/2004	24	0.015	24	0.009	30	0.093	24	0.090	30
07/10/2004	24	0.011	24	0.009	30	0.092	24	0.090	30
07/11/2004	24	0.010	24	0.009	30	0.095	24	0.090	30
07/12/2004	24	0.011	24	0.009	30	0.091	24	0.090	30
07/13/2004	24	0.013	24	0.010	30	0.091	24	0.090	30
07/14/2004	24	0.010	24	0.010	30	0.095	24	0.090	30
07/15/2004	24	0.013	24	0.010	30	0.095	24	0.090	30
07/16/2004	24	0.012	24	0.010	30	0.098	24	0.090	30
07/17/2004	24	0.014	24	0.010	30	0.093	24	0.090	30
07/18/2004	24	0.011	24	0.010	30	0.093	24	0.090	30
07/19/2004	24	0.010	24	0.010	30	0.094	24	0.090	30
07/20/2004	24	0.011	24	0.010	30	0.096	24	0.090	30
07/21/2004	24	0.013	24	0.010	30	0.096	24	0.090	30
07/22/2004	24	0.013	24	0.010	30	0.095	24	0.090	30
07/23/2004	24	0.013	24	0.011	30	0.094	24	0.090	30
07/24/2004	24	0.009	24	0.010	30	0.095	24	0.090	30
07/25/2004	24	0.005	24	0.010	30	0.096	24	0.090	30
07/26/2004	24	0.008	22	0.010	30	0.094	22	0.090	30
07/27/2004	2	0.000	0	0.010	30	0.000	0	0.090	30
07/28/2004	0	0.000	0	0.010	30	0.000	0	0.090	30
07/29/2004	0	0.000	0	0.010	30	0.000	0	0.090	30
07/30/2004	0	0.000	0	0.010	30	0.000	0	0.090	30
07/31/2004	0	0.000	0	0.010	30	0.000	0	0.090	30
08/01/2004	0	0.000	0	0.010	30	0.000	0	0.090	30
08/02/2004	0	0.000	0	0.010	30	0.000	0	0.090	30
08/03/2004	0	0.000	0	0.010	30	0.000	0	0.090	30
08/04/2004	5	0.000	0	0.010	30	0.000	0	0.090	30
08/05/2004	24	0.000	16	0.013	29	0.000	16	0.100	29
08/06/2004	24	0.023	24	0.013	29	0.141	24	0.100	29
08/07/2004	24	0.007	24	0.013	29	0.100	24	0.100	29
08/08/2004	24	0.008	24	0.013	29	0.096	24	0.100	29
08/09/2004	24	0.008	24	0.013	29	0.096	24	0.100	29

08/10/2004	24	0.007	24	0.013	29	0.094	24	0.100	29
08/11/2004	24	0.009	24	0.013	29	0.092	24	0.100	29
08/12/2004	24	0.009	24	0.013	29	0.097	24	0.100	29
08/13/2004	24	0.007	24	0.013	29	0.095	24	0.100	29
08/14/2004	24	0.009	24	0.013	29	0.094	24	0.100	29
08/15/2004	24	0.007	24	0.013	29	0.093	24	0.100	29
08/16/2004	24	0.012	24	0.013	29	0.091	24	0.100	29
08/17/2004	24	0.006	24	0.013	29	0.093	24	0.100	29
08/18/2004	24	0.006	24	0.013	29	0.092	24	0.100	29
08/19/2004	24	0.010	24	0.013	29	0.091	24	0.100	29
08/20/2004	24	0.008	24	0.013	29	0.092	24	0.100	29
08/21/2004	24	0.005	24	0.012	29	0.091	24	0.100	29
08/22/2004	24	0.007	22	0.012	29	0.096	23	0.100	29
08/23/2004	24	0.006	23	0.012	29	0.098	23	0.100	29
08/24/2004	24	0.006	24	0.012	29	0.092	24	0.100	29
08/25/2004	24	0.008	24	0.012	29	0.091	24	0.100	29
08/26/2004	24	0.006	24	0.011	29	0.092	24	0.100	29
08/27/2004	24	0.004	24	0.011	29	0.093	24	0.100	29
08/28/2004	24	0.008	24	0.011	29	0.091	24	0.100	29
08/29/2004	24	0.004	22	0.011	29	0.092	23	0.100	29
08/30/2004	24	0.008	24	0.011	29	0.093	24	0.100	29
08/31/2004	24	0.008	22	0.011	29	0.093	23	0.100	29
09/01/2004	24	0.012	24	0.011	29	0.090	24	0.100	29
09/02/2004	24	0.008	24	0.011	29	0.090	24	0.100	29
09/03/2004	24	0.008	24	0.011	29	0.090	24	0.100	29
09/04/2004	24	0.007	24	0.008	30	0.090	24	0.090	30
09/05/2004	24	0.004	24	0.007	30	0.091	24	0.090	30
09/06/2004	24	0.009	24	0.008	30	0.090	24	0.090	30
09/07/2004	24	0.008	24	0.008	30	0.090	24	0.090	30
09/08/2004	24	0.008	24	0.008	30	0.091	24	0.090	30
09/09/2004	24	0.006	24	0.007	30	0.090	24	0.090	30
09/10/2004	24	0.006	24	0.007	30	0.090	24	0.090	30
09/11/2004	24	0.008	24	0.007	30	0.090	24	0.090	30
09/12/2004	24	0.008	24	0.007	30	0.090	24	0.090	30
09/13/2004	24	0.008	24	0.007	30	0.091	24	0.090	30
09/14/2004	24	0.009	24	0.007	30	0.083	24	0.090	30
09/15/2004	12	0.000	0	0.007	30	0.000	0	0.090	30
09/16/2004	0	0.000	0	0.007	30	0.000	0	0.090	30
09/17/2004	0	0.000	0	0.007	30	0.000	0	0.090	30
09/18/2004	13	0.000	0	0.007	30	0.000	0	0.090	30
09/19/2004	24	0.008	24	0.007	30	0.092	24	0.090	30
09/20/2004	24	0.008	24	0.007	30	0.091	24	0.090	30
09/21/2004	24	0.010	24	0.007	30	0.094	24	0.090	30
09/22/2004	24	0.008	24	0.007	30	0.090	24	0.090	30
09/23/2004	24	0.008	24	0.007	30	0.092	24	0.090	30
09/24/2004	24	0.009	24	0.007	30	0.090	24	0.090	30
09/25/2004	24	0.008	24	0.008	30	0.090	24	0.090	30
09/26/2004	24	0.009	24	0.008	30	0.090	24	0.090	30
09/27/2004	24	0.010	24	0.008	30	0.090	24	0.090	30
09/28/2004	24	0.010	24	0.008	30	0.090	24	0.090	30
09/29/2004	24	0.009	24	0.008	30	0.090	24	0.090	30
09/30/2004	24	0.008	24	0.008	30	0.090	24	0.090	30

Fuel Factors used in calculations:

	Fc	Fd
Coal	1800	9780
Oil	1420	9190

* indicates non-compliance

==========^L

Data Excluded from 30 Day Rolling Averges
Reporting Period: 07/01/2004 - 09/30/2004

DATE	HOUR	REASON

STARTUP is defined in PSD Permit Attachment II, Section XIV, paragraph 8(a)
SHUTDOWN is defined in PSD Permit Attachment II, Section XIV, paragraph 8(b)

Boiler Operating Days with less than 18 hours of valid SO2 data:

DATE	REASON/ACTION
08/05/2004	Unit in startup after outage

Boiler Operating Days with less than 18 hours of valid NOx data:

DATE	REASON/ACTION
08/05/2004	Unit in startup after outage

All boiler operating days were in compliance with the SO2 standard during the report period.

All boiler operating days were in compliance with the NOx standard during the report period.

Availability Report

Unit 1

==========

Missing Data Log
AES Puerto Rico
Unit #1

==========

REPORT PERIOD: 07/01/2004 to 09/30/2004
TODAY'S DATE: 10/20/2004

Missing OPACITY
From date: 07/13/2004 hour: 10
To date: 07/13/2004 hour: 11 Duration: 60 minutes
Reason: Quality Assurance
Action:

Missing OPACITY
From date: 09/17/2004 hour: 15
To date: 09/17/2004 hour: 15 Duration: 6 minutes
Reason: Calibration / QA
Action:

Missing OPACITY
From date: 09/27/2004 hour: 10
To date: 09/27/2004 hour: 11 Duration: 108 minutes
Reason: Quality Assurance
Action:

Availability Report

Unit 2

==========

Missing Data Log
AES Puerto Rico
Unit #2

==========

REPORT PERIOD: 07/01/2004 to 09/30/2004
TODAY'S DATE: 10/20/2004

Missing OPACITY
From date: 07/27/2004 hour: 9
To date: 07/27/2004 hour: 9 Duration: 6 minutes
Reason: Other Known Causes
Action: Unit trip - restarting

Missing OPACITY
From date: 08/02/2004 hour: 18
To date: 08/02/2004 hour: 18 Duration: 6 minutes
Reason: Other Known Causes
Action: Unit offline testing fans

Missing OPACITY
From date: 08/04/2004 hour: 18
To date: 08/04/2004 hour: 18 Duration: 6 minutes
Reason: Other Known Causes
Action: Starting Fans

Missing OPACITY
From date: 08/12/2004 hour: 10
To date: 08/12/2004 hour: 10 Duration: 6 minutes
Reason: Calibration / QA
Action:

Missing OPACITY
From date: 09/18/2004 hour: 9
To date: 09/18/2004 hour: 9 Duration: 6 minutes
Reason: Other Known Causes
Action: Startup from outage

Missing OPACITY
From date: 09/27/2004 hour: 13
To date: 09/27/2004 hour: 13 Duration: 42 minutes
Reason: Calibration / QA
Action:

Calibration Gas Audit (CGA) Results Report

Unit 1

Calibration Gas Audit Report

Record Number= 12

U 1 NOx SO2 CO2 Start Time: 10:00 Date: 9/24/04 End Time: 11:00 Date: 9/24/04

Analyzer NOx	LOW	HIGH
REF GAS VALUE	22.70	56.50
DATE	09/24/2004	09/24/2004
TIME	10:16	10:27
RUN 1	22.50	55.80
DATE	09/24/2004	09/24/2004
TIME	10:31	10:35
RUN 2	23.10	55.90
DATE	09/24/2004	09/24/2004
TIME	10:45	10:50
RUN 3	23.40	55.50
AVERAGE=SUM/3	23.00	55.73
% ACCURACY	1.32	-1.36
OUT OF CONTROL	NO	NO
SERIAL NUMBER	CC183763	CC182119
CERTIFICATION DATE	03/01/2004	03/01/2004

Analyzer SO2	LOW	HIGH
REF GAS VALUE	4.58	9.32
DATE	09/24/2004	09/24/2004
TIME	10:16	10:27
RUN 1	4.47	9.25
DATE	09/24/2004	09/24/2004
TIME	10:31	10:35
RUN 2	4.70	8.97
DATE	09/24/2004	09/24/2004
TIME	10:45	10:50
RUN 3	4.48	9.22
AVERAGE=SUM/3	4.55	9.15
% ACCURACY	-0.66	-1.82
OUT OF CONTROL	NO	NO
SERIAL NUMBER	CC183763	CC182119
CERTIFICATION DATE	03/01/2004	03/01/2004

Analyzer CO2	LOW	HIGH
REF GAS VALUE	5.73	11.20
DATE	09/24/2004	09/24/2004
TIME	10:16	10:27
RUN 1	5.75	11.14
DATE	09/24/2004	09/24/2004
TIME	10:31	10:35
RUN 2	5.86	11.18
DATE	09/24/2004	09/24/2004
TIME	10:45	10:50
RUN 3	5.83	11.18
AVERAGE=SUM/3	5.81	11.17
% ACCURACY	1.40	-0.27
OUT OF CONTROL	NO	NO
SERIAL NUMBER	CC183763	CC182119
CERTIFICATION DATE	03/01/2004	03/01/2004

Calibration Gas Audit Report

Record Number= 8

U 1 CO O2 Start Time: 13:30 Date: 9/24/04 End Time: 13:50 Date: 9/24/04

Analyzer CO	LOW	HIGH
REF GAS VALUE	51.20	111.00
DATE	09/24/2004	09/24/2004
TIME	13:23	13:28
RUN 1	50.30	110.90
DATE	09/24/2004	09/24/2004
TIME	13:32	13:35
RUN 2	50.50	111.00
DATE	09/24/2004	09/24/2004
TIME	13:41	13:44
RUN 3	50.30	111.10
AVERAGE=SUM/3	50.37	111.00
% ACCURACY	-1.62	0.00
OUT OF CONTROL	NO	NO
SERIAL NUMBER	ALM038693	CC7677
CERTIFICATION DATE	04/18/2002	02/26/2004

Analyzer OXY	LOW	HIGH
REF GAS VALUE	5.13	11.50
DATE	09/24/2004	09/24/2004
TIME	13:23	13:28
RUN 1	5.25	11.53
DATE	09/24/2004	09/24/2004
TIME	13:32	13:35
RUN 2	5.26	11.49
DATE	09/24/2004	09/24/2004
TIME	13:41	13:44
RUN 3	5.31	11.52
AVERAGE=SUM/3	5.27	11.51
% ACCURACY	2.73	0.09
OUT OF CONTROL	NO	NO
SERIAL NUMBER	ALM038693	CC7677
CERTIFICATION DATE	04/18/2002	02/26/2004

Calibration Gas Audit Report

Record Number= 8

U 1 Hi NOx SO2 Start Time: 14:40 Date: 9/24/04 End Time: 15:20 Date: 9/24/04

Analyzer NOx High	LOW	HIGH
REF GAS VALUE	110.00	183.00
DATE	09/24/2004	09/24/2004
TIME	14:44	14:55
RUN 1	110.10	182.40
DATE	09/24/2004	09/24/2004
TIME	15:03	15:07
RUN 2	109.50	181.10
DATE	09/24/2004	09/24/2004
TIME	15:12	15:15
RUN 3	109.90	179.90
AVERAGE=SUM/3	109.83	181.13
% ACCURACY	-0.15	-1.02
OUT OF CONTROL	NO	NO
SERIAL NUMBER	CC183841	CC166658
CERTIFICATION DATE	03/01/2004	05/19/2003

Analyzer SO2 High	LOW	HIGH
REF GAS VALUE	28.00	43.70
DATE	09/24/2004	09/24/2004
TIME	14:44	14:55
RUN 1	27.99	41.69
DATE	09/24/2004	09/24/2004
TIME	15:03	15:07
RUN 2	28.14	42.41
DATE	09/24/2004	09/24/2004
TIME	15:12	15:15
RUN 3	27.84	42.85
AVERAGE=SUM/3	27.99	42.32
% ACCURACY	-0.04	-3.16
OUT OF CONTROL	NO	NO
SERIAL NUMBER	CC183841	CC166658
CERTIFICATION DATE	03/01/2004	05/19/2003

AGA
Member of the Linde Gas Group

Linde

Certificate of Analysis

EPA Protocol

Performed according to EPA-600/R-97/121, Procedure G1

Notice: This Cylinder is not to be used when pressure is under 150 psig.

Manufactured and certified at:
Linde Gas LLC
Maumee Specialty Gas Plant
6421 Monclova Road
MAUMEE OH 43537
419-893-7226

Produced for customer:
LINDE GAS PUERTO RICO INC
SAN JUAN PR 00936
USA
800-981-7455

Material:	2199	**Blend Tolerance:**	5 % Relative
EPA MISC 4 COMPONENT	A31	**Blend Type:**	EPA Protocol
Production #:	100080514	**Cyl. Pressure:**	2000 psig
Lot #:	02499B4160SA	**Balance Gas:**	Nitrogen
Cylinder #:	CC182119	**CGA:**	660
Expiration Date:	3/1/2006	**Volume:**	148 cf
Shelf Life:	24 months	**Analytical Accuracy:**	1.00 % Relative

CAS #	Certified Component	Requested Concentration	Concentration and Uncertainty	Date of Certification
7446-09-5	Sulfur Dioxide	11	9.32 +/- 0.9 ppm	03/01/2004
10102-43-9	Nitric Oxide	55	56.5 +/- 0.6 ppm	03/01/2004
124-38-9	Carbon Dioxide	11	11.2 +/- 0.1 %	03/01/2004
7727-37-9	Nitrogen		Balance	03/01/2004

CAS #	Analyzed (For Ref Use Only)	Concentration	Analysis Date
N/A	NOx	56.5 ppm	03/01/2004

CAS #	Reference Standard	Cylinder/Standard #	Concentration	Expire Date
10102-43-9	Nitric Oxide	CAL013528 , SRM 1683B	48.74 ppm	03/30/2005
7446-09-5	Sulfur Dioxide	MR8516 , PRM	10.00 ppm	
124-38-9	Carbon Dioxide	CC59139 , NTRM	6.900 %	04/03/2007

Instrument	Serial #	Analytical Principle	Calibration Date
Thermo Nicolet AEM	AET0100218	FTIR	01/28/2004

This product is manufactured using equipment which has been calibrated with NIST traceable, or equivalent, standards, weights, or equipment.

Analytical report approved by Jim Healy

HiQ Analysis Certificate

AGA
Member of the Linde Gas Group

Linde

Certificate of Analysis

EPA Protocol

Performed according to EPA-600/R-97/121, Procedure G1

Notice: This Cylinder is not to be used when pressure is under 150 psig.

Manufactured and certified at:

Linde Gas LLC
Maumee Specialty Gas Plant
6421 Monclova Road
MAUMEE OH 43537
419-893-7226

Produced for customer:

LINDE GAS PUERTO RICO INC
SAN JUAN PR 00936
USA
800-981-7455

Material:	2179		**Blend Tolerance:**	5 % Relative
MISC 3 COMPONENT	EPA	A31	**Blend Type:**	EPA Protocol
Production #:	100080515		**Cyl. Pressure:**	2000 psig
Lot #:	02499B4100MD		**Balance Gas:**	Nitrogen
Cylinder #:	CC7677		**CGA:**	660
Expiration Date:	4/26/2053		**Volume:**	143 cf
Shelf Life:	590 months		**Analytical Accuracy:**	1.00 % Relative

CAS #	Certified Component	Requested Concentration	Concentration and Uncertainty	Date of Certification
630-08-0	Carbon Monoxide	110	111 +/- 1 ppm	02/26/2004
7782-44-7	Oxygen	11.5	11.5 +/- 0.1 %	02/26/2004
7727-37-9	Nitrogen		Balance	02/26/2004

CAS #	Reference Standard	Cylinder/Standard #	Concentration	Expire Date
630-08-0	Carbon Monoxide	CC73343 , GMIS	501.5 ppm	09/05/2005
7782-44-7	Oxygen	CC73272 , NTRM	9.90 %	06/01/2004

Instrument	Serial #	Analytical Principle	Calibration Date
Horiba VIA-510	568384012	Non-Dispersive Infrared	10/29/2003
Rosemount 755R	1000559	Paramagnetic	12/19/2003

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Analytical report approved by Jim Healy

HIQ Analysis Certificate

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Member of the Linde Gas Group

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EPA Protocol

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MAUMEE OH 43537
419-893-7226

Produced for customer:
LINDE GAS PUERTO RICO INC
SAN JUAN PR 00936
USA
800-981-7455

Material:	2199	Blend Tolerance:	5 % Relative
EPA MISC 4 COMPONENT	A31	Blend Type:	EPA Protocol
Production #:	100080426	Cyl. Pressure:	2000 psig
Lot #:	02499B4110JG	Balance Gas:	Nitrogen
Cylinder #:	CC183763	CGA:	660
Expiration Date:	3/1/2006	Volume:	145 cf
Shelf Life:	24 months	Analytical Accuracy:	1.00 % Relative

CAS #	Certified Component	Requested Concentration	Concentration and Uncertainty	Date of Certification
7446-09-5	Sulfur Dioxide	5	4.58 +/- 0.10 ppm	03/01/2004
10102-43-9	Nitric Oxide	25	22.7 +/- 0.2 ppm	03/01/2004
124-38-9	Carbon Dioxide	5.5	5.73 +/- 0.06 %	03/01/2004
7727-37-9	Nitrogen		Balance	03/01/2004

CAS #	Analyzed (For Ref Use Only)	Concentration	Analysis Date
N/A	NOx	22.7 ppm	03/01/2004

CAS #	Reference Standard	Cylinder/Standard #	Concentration	Expire Date
10102-43-9	Nitric Oxide	CAL013528 , SRM 1683B	48.74 ppm	03/30/2005
7446-09-5	Sulfur Dioxide	MR8516 , PRM	10.00 ppm	
124-38-9	Carbon Dioxide	CC59139 , NTRM	6.900 %	04/03/2007

Instrument	Serial #	Analytical Principle	Calibration Date
Thermo Nicolet AEM	AET0100218	FTIR	01/28/2004

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Analytical report approved by Jim Healy

Jim R Healy

HQ Analysis Certificate

Member of the Linde Gas Group

Linde

Certificate of Analysis

EPA Protocol

Performed according to EPA-600/R-97/121, Procedure G1

Notice: This Cylinder is not to be used when pressure is under 150 psig.

Manufactured and certified at:

AGA Gas, Inc.
Maumee Specialty Gas Plant
6421 Monclova Road
MAUMEE OH 43537
419-893-7226

Produced for customer:

AGA GENERAL GASES & SUPPLIES
SAN JUAN PR 00936
USA
800-981-7455

Material:	2179	Blend Tolerance:	5 % Relative
MISC 3 COMPONENT EPA		Store/Use Temp:	35 to 90 F
Production #:	100067367	Blend Type:	EPA Protocol
Lot #:	02499E3050BE	Cyl. Pressure:	2000 psig
Cylinder #:	CC166658	Balance Gas:	Nitrogen
Expiration Date:	5/19/2005	CGA:	660
Shelf Life:	24 months	Volume:	143 cf

CAS #	Certified Component	Requested Concentration	Concentration and Uncertainty	Date of Certification
7446-09-5	Sulfur Dioxide	45	43.7 +/- 0.4 ppm	05/19/2003
10102-43-9	Nitric Oxide	180	183 +/- 2 ppm	05/19/2003
7727-37-9	Nitrogen		Balance	05/19/2003

CAS #	Analyzed (For Ref Use Only)	Concentration	Analysis Date
N/A 2	NOx	183 ppm	05/19/2003

CAS #	Reference Standard	Cylinder/Standard #	Concentration	Expire Date
7446-09-5	Sulfur Dioxide	CC76126 , GMIS	101.8 ppm	07/26/2004
10102-43-9	Nitric Oxide	HA3904 , GMIS	499.3 ppm	03/07/2005
10102-43-9	Nitric Oxide	CC100831 , GMIS	100.7 ppm	04/04/2005
7446-09-5	Sulfur Dioxide	CC166686 , GMIS	10.38 ppm	04/25/2008

Instrument	Serial #	Analytical Principle	Calibration Date
Horiba CLA-510SS	568093024	Chemiluminescence	04/07/2003
Horiba VIA-510	4131546004	Non-Dispersive Infrared	03/03/2003

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Analytical report approved by Jim Healy

HiQ Analysis Certificate

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Certificate of Analysis

EPA Protocol

Performed according to EPA-600/R-97/121, Procedure G1

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MAUMEE OH 43537
419-893-7226

Produced for customer:
LINDE GAS PUERTO RICO INC
SAN JUAN PR 00936
USA
800-981-7455

Material:	2179	**Blend Tolerance:**	5 % Relative
MISC 3 COMPONENT EPA	A31	**Blend Type:**	EPA Protocol
Production #:	100080428	**Cyl. Pressure:**	2000 psig
Lot #:	02499B4110JE	**Balance Gas:**	Nitrogen
Cylinder #:	CC183841	**CGA:**	660
Expiration Date:	3/1/2006	**Volume:**	143 cf
Shelf Life:	24 months	**Analytical Accuracy:**	1.00 % Relative

CAS #	Certified Component	Requested Concentration	Concentration and Uncertainty	Date of Certification
7446-09-5	Sulfur Dioxide	28	28.0 +/- 0.3 ppm	03/01/2004
10102-43-9	Nitric Oxide	110	110 +/- 1 ppm	03/01/2004
7727-37-9	Nitrogen		Balance	03/01/2004

CAS #	Analyzed (For Ref Use Only)	Concentration	Analysis Date
N/A	NOx	110 ppm	03/01/2004

CAS #	Reference Standard	Cylinder/Standard #	Concentration	Expire Date
10102-43-9	Nitric Oxide	CAL013225 , SRM 1684B	98.0 ppm	11/01/2006
7446-09-5	Sulfur Dioxide	MR8518 , PRM	25.01 ppm	

Instrument	Serial #	Analytical Principle	Calibration Date
Thermo Nicolet AEM	AET0100218	FTIR	01/28/2004

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Analytical report approved by Jim Healy

Jim R Healy

HQ Analysis Certificate

Scott Specialty Gases

www.scottgas.com

RATA CLASS

Dual-Analyzed Calibration Standard

6141 EASTON ROAD, BLDG 1, PLUMSTEADVILLE, PA 18949-0310 Phone: 800-331-4953 Fax: 215-766-7226

_CERTIFICATE_OF_ACCURACY:_EPA_Protocol_Gas_____

Assay_Laboratory
SCOTT SPECIALTY GASES
6141 EASTON ROAD, BLDG 1
PLUMSTEADVILLE, PA 18949-0310

P.O. No.: 02-0200
Project No.: 01-70231-005

Customer_
AES PUERTO RICO

CARR. #3 KM 142.0
GUAYAMA PR 00784

_ANALYTICAL_INFORMATION_____

This certification was performed according to EPA Traceability Protocol For Assay & Certification of Gaseous Calibration Standards; Procedure G-1; September, 1997.

Cylinder Number: ALM038693 Certification Date: 18Apr2002 Exp. Date: 25Apr2005

Cylinder Pressure***: 2000 PSIG

COMPONENT___	CERTIFIED_CONCENTRATION_(Moles)		ANALYTICAL ACCURACY**_	TRACEABILITY__
CARBON MONOXIDE	51.2	PPM	+/- 1%	Direct NIST and NMi
OXYGEN	5.13	%	+/- 1%	Direct NIST and NMi
NITROGEN		BALANCE		

*** Do not use when cylinder pressure is below 150 psig.

** Analytical accuracy is based on the requirements of EPA Protocol Procedure G1, September 1997.

__Product_certified_as_+/-_1%_analytical_accuracy_is_directly_traceable_to_NIST_or_NMI_standards.

REFERENCE_STANDARD_____

TYPE/SRM_NO._	EXPIRATION_DATE	CYLINDER_NUMBER__	CONCENTRATION____	COMPONENT____
NTRM 2636	03Apr2003	ALM033274	246.7PM	CARBON MONOXIDE
NTRM 2350	01Feb2004	A4341	23.51	OXYGEN

INSTRUMENTATION____

INSTRUMENT/MODEL/SERIAL#_____	DATE_LAST_CALIBRATED____	ANALYTICAL_PRINCIPLE___
SIEMENS/6E/KN-240	27Mar2002	NDIR
BECKMAN/755/2002571	18Mar2002	PARAMAGNETIC

_ANALYZER_READINGS_____

(Z=Zero Gas R=Reference Gas T=Test Gas r=Correlation Coefficient)

CARBON MONOXIDE

First Triad Analysis	Second Triad Analysis	Calibration Curve
Date: 16Apr2002Resp Unit:VOLTS	Date: 25Apr2002Resp Unit: VOLTS	Concentration=A+Bx+Cx2+Dx3+Ex4
Z1=-0.00450=1.21040T1=0.24870	Z1=-0.00490=1.208901=0.24830	r=0.99999 2636
R2=1.210402=-0.004402=0.24900	R2=1.209002=-0.00490=0.24830	Constants: A=6.9000E-01
Z3=-0.00450=0.24900R3=1.21180	Z3=-0.00520=0.247703=1.20550	B=2.0368E+02 C=
Avg. Conc: 51.20 PPM	Avg. Conc: 51.30 PPM	D= E=

OXYGEN

Date: 18Apr2002Resp Unit:VOLTS	Concentration=A+Bx+Cx2+Dx3+Ex4
Z1=0.001201=0.94940T1=0.20810	r=0.99999 2350
R2=0.949502=0.00180T2=0.20800	Constants: A=-3.0003E-02
Z3=0.001603=0.20790R3=0.95000	B=2.4772E+01 C=
Avg. Conc: 5.130 %	D= E=

APPROVED BY: (signature on file)
B. LEWIS, JR.

Calibration Gas Audit (CGA) Results Report

Unit 2

Calibration Gas Audit Report

Record Number= 9

U 2 NOx SO2 CO2 Start Time: 10:20 Date: 9/23/04 End Time: 11:50 Date: 9/23/04

Analyzer NOx	LOW	HIGH
REF GAS VALUE	22.70	56.50
DATE	09/23/2004	09/23/2004
TIME	10:32	10:34
RUN 1	23.80	56.10
DATE	09/23/2004	09/23/2004
TIME	10:38	10:40
RUN 2	23.90	56.40
DATE	09/23/2004	09/23/2004
TIME	11:44	11:47
RUN 3	23.70	56.20
AVERAGE=SUM/3	23.80	56.23
% ACCURACY	4.85	-0.48
OUT OF CONTROL	NO	NO
SERIAL NUMBER	CC183763	CC182119
CERTIFICATION DATE	03/01/2004	03/01/2004

Analyzer SO2	LOW	HIGH
REF GAS VALUE	4.58	9.32
DATE	09/23/2004	09/23/2004
TIME	10:32	10:34
RUN 1	4.54	9.23
DATE	09/23/2004	09/23/2004
TIME	10:38	10:40
RUN 2	4.62	9.28
DATE	09/23/2004	09/23/2004
TIME	11:44	11:47
RUN 3	4.52	9.26
AVERAGE=SUM/3	4.56	9.26
% ACCURACY	-0.44	-0.64
OUT OF CONTROL	NO	NO
SERIAL NUMBER	CC183763	CC182119
CERTIFICATION DATE	03/01/2004	03/01/2004

Analyzer CO2	LOW	HIGH
REF GAS VALUE	5.73	11.20
DATE	09/23/2004	09/23/2004
TIME	10:32	10:34
RUN 1	5.86	11.26
DATE	09/23/2004	09/23/2004
TIME	10:38	10:40
RUN 2	5.83	11.22
DATE	09/23/2004	09/23/2004
TIME	11:44	11:47
RUN 3	5.55	10.90
AVERAGE=SUM/3	5.75	11.13
% ACCURACY	0.35	-0.63
OUT OF CONTROL	NO	NO
SERIAL NUMBER	CC183763	CC182119
CERTIFICATION DATE	03/01/2004	03/01/2004

Calibration Gas Audit Report

Record Number= 10

U 2 CO O2 Start Time: 1130 Date: 9/24/04 End Time: 1130 Date: 9/24/04

Analyzer CO	LOW	HIGH
REF GAS VALUE	51.20	111.00
DATE	09/24/2004	09/24/2004
TIME	11:25	11:27
RUN 1	50.70	111.00
DATE	09/24/2004	09/24/2004
TIME	11:31	11:34
RUN 2	50.70	111.10
DATE	09/24/2004	09/24/2004
TIME	11:37	11:40
RUN 3	50.90	111.10
AVERAGE=SUM/3	50.77	111.07
% ACCURACY	-0.84	0.06
OUT OF CONTROL	NO	NO
SERIAL NUMBER	ALM038693	CC7677
CERTIFICATION DATE	04/18/2002	02/26/2004

Analyzer OXY	LOW	HIGH
REF GAS VALUE	5.13	11.50
DATE	09/24/2004	09/24/2004
TIME	11:25	11:27
RUN 1	5.22	11.66
DATE	09/24/2004	09/24/2004
TIME	11:31	11:34
RUN 2	5.22	11.73
DATE	09/24/2004	09/24/2004
TIME	11:37	11:40
RUN 3	5.19	11.69
AVERAGE=SUM/3	5.21	11.69
% ACCURACY	1.56	1.65
OUT OF CONTROL	NO	NO
SERIAL NUMBER	ALM038693	CC7677
CERTIFICATION DATE	04/18/2002	02/26/2004

Calibration Gas Audit Report

Record Number= 8

U 2 Hi NOx SO2 Start Time: 14:00 Date: 9/24/04 End Time: 1530 Date: 9/24/04

Analyzer NOx High	LOW	HIGH
REF GAS VALUE	110.00	183.00
DATE	09/24/2004	09/24/2004
TIME	14:04	14:22
RUN 1	110.40	188.00
DATE	09/24/2004	09/24/2004
TIME	15:20	15:22
RUN 2	111.00	181.20
DATE	09/24/2004	09/24/2004
TIME	15:27	15:30
RUN 3	110.70	180.90
AVERAGE=SUM/3	110.70	183.37
% ACCURACY	0.64	0.20
OUT OF CONTROL	NO	NO
SERIAL NUMBER	CC183841	CC166658
CERTIFICATION DATE	03/01/2004	05/19/2003

Analyzer SO2 High	LOW	HIGH
REF GAS VALUE	28.00	43.70
DATE	09/24/2004	09/24/2004
TIME	14:04	14:22
RUN 1	29.06	41.46
DATE	09/24/2004	09/24/2004
TIME	15:20	15:22
RUN 2	27.73	44.98
DATE	09/24/2004	09/24/2004
TIME	15:27	15:30
RUN 3	28.78	43.48
AVERAGE=SUM/3	28.52	43.31
% ACCURACY	1.86	-0.89
OUT OF CONTROL	NO	NO
SERIAL NUMBER	CC183841	CC166658
CERTIFICATION DATE	03/01/2004	05/19/2003

AGA
Member of the Linde Gas Group

Linde

Certificate of Analysis

EPA Protocol

Performed according to EPA-600/R-97/121, Procedure G1

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Maumee Specialty Gas Plant
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MAUMEE OH 43537
419-893-7226

Produced for customer:
LINDE GAS PUERTO RICO INC
SAN JUAN PR 00936
USA
800-981-7455

Material:	2199	**Blend Tolerance:**	5 % Relative
EPA MISC 4 COMPONENT	A31	**Blend Type:**	EPA Protocol
Production #:	100080514	**Cyl. Pressure:**	2000 psig
Lot #:	02499B4160SA	**Balance Gas:**	Nitrogen
Cylinder #:	CC182119	**CGA:**	660
Expiration Date:	3/1/2006	**Volume:**	148 cf
Shelf Life:	24 months	**Analytical Accuracy:**	1.00 % Relative

CAS #	Certified Component	Requested Concentration	Concentration and Uncertainty	Date of Certification
7446-09-5	Sulfur Dioxide	11	9.32 +/- 0.9 ppm	03/01/2004
10102-43-9	Nitric Oxide	55	56.5 +/- 0.6 ppm	03/01/2004
124-38-9	Carbon Dioxide	11	11.2 +/- 0.1 %	03/01/2004
7727-37-9	Nitrogen		Balance	03/01/2004

CAS #	Analyzed (For Ref Use Only)	Concentration	Analysis Date
N/A	NOx	56.5 ppm	03/01/2004

CAS #	Reference Standard	Cylinder/Standard #	Concentration	Expire Date
10102-43-9	Nitric Oxide	CAL013528 , SRM 1683B	48.74 ppm	03/30/2005
7446-09-5	Sulfur Dioxide	MR8516 , PRM	10.00 ppm	
124-38-9	Carbon Dioxide	CC59139 , NTRM	6.900 %	04/03/2007

Instrument	Serial #	Analytical Principle	Calibration Date
Thermo Nicolet AEM	AET0100218	FTIR	01/28/2004

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SAN JUAN PR 00936
USA
800-981-7455

Material:	2199		Blend Tolerance:	5 % Relative
EPA MISC 4 COMPONENT		A31	Blend Type:	EPA Protocol
Production #:	100080426		Cyl. Pressure:	2000 psig
Lot #:	02499B4110JG		Balance Gas:	Nitrogen
Cylinder #:	CC183763		CGA:	660
Expiration Date:	3/1/2006		Volume:	145 cf
Shelf Life:	24 months		Analytical Accuracy:	1.00 % Relative

CAS #	Certified Component	Requested Concentration	Concentration and Uncertainty	Date of Certification
7446-09-5	Sulfur Dioxide	5	4.58 +/- 0.10 ppm	03/01/2004
10102-43-9	Nitric Oxide	25	22.7 +/- 0.2 ppm	03/01/2004
124-38-9	Carbon Dioxide	5.5	5.73 +/- 0.06 %	03/01/2004
7727-37-9	Nitrogen		Balance	03/01/2004

CAS #	Analyzed (For Ref Use Only)	Concentration	Analysis Date
N/A	NOx	22.7 ppm	03/01/2004

CAS #	Reference Standard	Cylinder/Standard #	Concentration	Expire Date
10102-43-9	Nitric Oxide	CAL013528 , SRM 1683B	48.74 ppm	03/30/2005
7446-09-5	Sulfur Dioxide	MR8516 , PRM	10.00 ppm	
124-38-9	Carbon Dioxide	CC59139 , NTRM	6.900 %	04/03/2007

Instrument	Serial #	Analytical Principle	Calibration Date
Thermo Nicolet AEM	AET0100218	FTIR	01/28/2004

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419-893-7226

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LINDE GAS PUERTO RICO INC
SAN JUAN PR 00936
USA
800-981-7455

Material:	2179	**Blend Tolerance:**	5 % Relative
MISC 3 COMPONENT EPA	A31	**Blend Type:**	EPA Protocol
Production #:	100080515	**Cyl. Pressure:**	2000 psig
Lot #:	02499B4100MD	**Balance Gas:**	Nitrogen
Cylinder #:	CC7677	**CGA:**	660
Expiration Date:	4/26/2053	**Volume:**	143 cf
Shelf Life:	590 months	**Analytical Accuracy:**	1.00 % Relative

CAS #	Certified Component	Requested Concentration	Concentration and Uncertainty	Date of Certification
630-08-0	Carbon Monoxide	110	111 +/- 1 ppm	02/26/2004
7782-44-7	Oxygen	11.5	11.5 +/- 0.1 %	02/26/2004
7727-37-9	Nitrogen		Balance	02/26/2004

CAS #	Reference Standard	Cylinder/Standard #	Concentration	Expire Date
630-08-0	Carbon Monoxide	CC73343 , GMIS	501.5 ppm	09/05/2005
7782-44-7	Oxygen	CC73272 , NTRM	9.90 %	06/01/2004

Instrument	Serial #	Analytical Principle	Calibration Date
Horiba VIA-510	568384012	Non-Dispersive Infrared	10/29/2003
Rosemount 755R	1000559	Paramagnetic	12/19/2003

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419-893-7226

Produced for customer:
LINDE GAS PUERTO RICO INC
SAN JUAN PR 00936
USA
800-981-7455

Material:	2179		Blend Tolerance:	5 % Relative
MISC 3 COMPONENT EPA		A31	Blend Type:	EPA Protocol
Production #:	100080428		Cyl. Pressure:	2000 psig
Lot #:	02499B4110JE		Balance Gas:	Nitrogen
Cylinder #:	CC183841		CGA:	660
Expiration Date:	3/1/2006		Volume:	143 cf
Shelf Life:	24 months		Analytical Accuracy:	1.00 % Relative

CAS #	Certified Component	Requested Concentration	Concentration and Uncertainty	Date of Certification
7446-09-5	Sulfur Dioxide	28	28.0 +/- 0.3 ppm	03/01/2004
10102-43-9	Nitric Oxide	110	110 +/- 1 ppm	03/01/2004
7727-37-9	Nitrogen		Balance	03/01/2004

CAS #	Analyzed (For Ref Use Only)	Concentration	Analysis Date
N/A	NOx	110 ppm	03/01/2004

CAS #	Reference Standard	Cylinder/Standard #	Concentration	Expire Date
10102-43-9	Nitric Oxide	CAL013225 , SRM 1684B	98.0 ppm	11/01/2006
7446-09-5	Sulfur Dioxide	MR8518 , PRM	25.01 ppm	

Instrument	Serial #	Analytical Principle	Calibration Date
Thermo Nicolet AEM	AET0100218	FTIR	01/28/2004

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MAUMEE OH 43537
419-893-7226

Produced for customer:
AGA GENERAL GASES & SUPPLIES
SAN JUAN PR 00936
USA
800-981-7455

Material:	2179	Blend Tolerance:	5 % Relative
MISC 3 COMPONENT	EPA	Store/Use Temp:	35 to 90 F
Production #:	100067367	Blend Type:	EPA Protocol
Lot #:	02499E3050BE	Cyl. Pressure:	2000 psig
Cylinder #:	CC166658	Balance Gas:	Nitrogen
Expiration Date:	5/19/2005	CGA:	660
Shelf Life:	24 months	Volume:	143 cf

CAS #	Certified Component	Requested Concentration	Concentration and Uncertainty	Date of Certification
7446-09-5	Sulfur Dioxide	45	43.7 +/- 0.4 ppm	05/19/2003
10102-43-9	Nitric Oxide	180	183 +/- 2 ppm	05/19/2003
7727-37-9	Nitrogen		Balance	05/19/2003

CAS #	Analyzed (For Ref Use Only)	Concentration	Analysis Date
N/A 2	NOx	183 ppm	05/19/2003

CAS #	Reference Standard	Cylinder/Standard #	Concentration	Expire Date
7446-09-5	Sulfur Dioxide	CC76126 , GMIS	101.8 ppm	07/26/2004
10102-43-9	Nitric Oxide	HA3904 , GMIS	499.3 ppm	03/07/2005
10102-43-9	Nitric Oxide	CC100831 , GMIS	100.7 ppm	04/04/2005
7446-09-5	Sulfur Dioxide	CC166686 , GMIS	10.38 ppm	04/25/2008

Instrument	Serial #	Analytical Principle	Calibration Date
Horiba CLA-510SS	568093024	Chemiluminescence	04/07/2003
Horiba VIA-510	4131546004	Non-Dispersive Infrared	03/03/2003

This product is manufactured using equipment which has been calibrated with NIST traceable, or equivalent, standards, weights, or equipment.

Analytical report approved by Jim Healy

Jim R Healy

HiQ Analysis Certificate

Scott Specialty Gases

www.scottgas.com

RATA CLASS

Dual-Analyzed Calibration Standard

6141 EASTON ROAD, BLDG 1, PLUMSTEADVILLE, PA 18949-0310 Phone: 800-331-4953 Fax: 215-766-7226

_CERTIFICATE_OF_ACCURACY:_EPA_Protocol_Gas

Assay_Laboratory
SCOTT SPECIALTY GASES
6141 EASTON ROAD, BLDG 1
PLUMSTEADVILLE, PA 18949-0310

P.O. No.: 02-0200
Project No.: 01-70231-005

Customer_
AES PUERTO RICO

CARR. #3 KM 142.0
GUAYAMA PR 00784

_ANALYTICAL_INFORMATION

This certification was performed according to EPA Traceability Protocol For Assay & Certification of Gaseous Calibration Standards; Procedure G-1; September, 1997.

Cylinder Number: ALM038693 Certification Date: 18Apr2002 Exp. Date: 25Apr2005
Cylinder Pressure***: 2000 PSIG

COMPONENT	CERTIFIED_CONCENTRATION_(Moles)		ANALYTICAL ACCURACY**	TRACEABILITY
CARBON MONOXIDE	51.2	PPM	+/- 1%	Direct NIST and NMi
OXYGEN	5.13	%	+/- 1%	Direct NIST and NMi
NITROGEN		BALANCE		

*** Do not use when cylinder pressure is below 150 psig.
** Analytical accuracy is based on the requirements of EPA Protocol Procedure G1, September 1997.
__Product_certified_as_+/-_1%_analytical_accuracy_is_directly_traceable_to_NIST_or_NMI_standards.

REFERENCE_STANDARD

TYPE/SRM_NO.	EXPIRATION_DATE	CYLINDER_NUMBER	CONCENTRATION	COMPONENT
NTRM 2636	03Apr2003	ALM033274	246.7PM	CARBON MONOXIDE
NTRM 2350	01Feb2004	A4341	23.51	OXYGEN

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE_LAST_CALIBRATED	ANALYTICAL_PRINCIPLE
SIEMENS/6E/KN-240	27Mar2002	NDIR
BECKMAN/755/2002571	18Mar2002	PARAMAGNETIC

_ANALYZER_READINGS

(Z=Zero Gas R=Reference Gas T=Test Gas r=Correlation Coefficient)

CARBON MONOXIDE

First Triad Analysis	Second Triad Analysis	Calibration Curve
Date: 16Apr2002Resp Unit:VOLTS	Date: 25Apr2002Resp Unit: VOLTS	Concentration=A+Bx+Cx2+Dx3+Ex4
Z1=-0.00450=1.21040T1=0.24870	Z1=-0.00490=1.208901=0.24830	r=0.99999 2636
R2=1.210402=-0.004402=0.24900	R2=1.209002=-0.00490=0.24830	Constants: A=6.9000E-01
Z3=-0.00450=0.24900R3=1.21180	Z3=-0.00520=0.247703=1.20550	B=2.0368E+02 C=
Avg. Conc: 51.20 PPM	Avg. Conc: 51.30 PPM	D= E=

OXYGEN

Date: 18Apr2002Resp Unit:VOLTS		Concentration=A+Bx+Cx2+Dx3+Ex4
Z1=0.001201=0.94940T1=0.20810		r=0.99999 2350
R2=0.949502=0.00180T2=0.20800		Constants: A=-3.0003E-02
Z3=0.001603=0.20790R3=0.95000		B=2.4772E+01 C=
Avg. Conc: 5.130 %		D= E=

APPROVED BY: (signature on file)
B. LEWIS, JR.