

start time	channel	type	Reg. Check	Warn. Check	Zero Warn	Span Warn	instr range	instr span	Zero Adjust	Span Adjust	chan config	hw config	chan type	ca ty
03/20/2002 10:10	2SO2	DAILY			75	75	1500	1500	1.7	-20.7	-32768	788	5	
03/20/2002 10:10	20pac_A	DAILY			2	2	100	100	0.1	0.1	-32736	788	0	
03/20/2002 10:10	2NOx	DAILY			50	50	1000	1000	0.9	-12.4	-32768	788	6	
03/20/2002 10:10	2CO2	DAILY			1	1	20	20	-0.16	-0.53	-32700	788	3	
03/20/2002 06:50	1SO2	DAILY			75	75	1500	1500	-0.4	-1.3	-32768	788	5	
03/20/2002 06:50	10pac_A	DAILY			2	2	100	100	0.5	0.2	-32736	788	0	
03/20/2002 06:50	1NOx	DAILY			50	50	1000	1000	-1	-7.8	-32768	788	6	
03/20/2002 06:50	1CO2	DAILY			1	1	20	20	-0.01	-0.08	-32700	788	3	
03/20/2002 04:32	2SO2	DAILY			75	75	1500	1500	1.7	-35.2	-32768	788	5	
03/20/2002 04:32	20pac_A	DAILY			2	2	100	100	0.1	0.1	-32736	788	0	
03/20/2002 04:32	2NOx	DAILY			50	50	1000	1000	0.9	-3.9	-32768	788	6	
03/20/2002 04:32	2CO2	DAILY			1	1	20	20	-0.15	-0.35	-32700	788	3	

03/20/2002 10:10 "2SO2" DAILY

#1

Dahs = PCC12

Part Spec	Zero Warn	Span Warn	inst range	inst span	Zero Adjust	Span Adjust	chan config	hw config	chan type	cal type
2.5	75	75	1500	1500	1.7	-20.7	-32768	788	5	
1.01	2	2	100	100	0.1	0.1	-32736	788	0	
⊗ 2.5	50	50	1000	1000	0.9	-12.4	-32768	788	6	
0.5	1	1	20	20	-0.16	-0.53	-32700	788	3	
2.5	75	75	1500	1500	-0.4	-1.3	-32768	788	5	
1.01	2	2	100	100	0.5	0.2	-32736	788	0	
2.5	50	50	1000	1000	-1	-7.8	-32768	788	6	
0.5	1	1	20	20	-0.01	-0.08	-32700	788	3	
2.5	75	75	1500	1500	1.7	-35.2	-32768	788	5	
1.01	2	2	100	100	0.1	0.1	-32736	788	0	
2.5	50	50	1000	1000	0.9	-3.9	-32768	788	6	
0.5	1	1	20	20	-0.15	-0.35	-32700	788	3	

start time	channel	type	Reg. Check	Warn. Check	reading	ZERO target	error	reading	SPAN target	error	reading	MID target	error
03/20/2002 10:10	2502	DAILY			1.7	0	0.12	1329.3	1350	-1.42	-999.9	0	
03/20/2002 10:10	2020c_A	DAILY			-0.1	0	-0.12	45.1	45	0.12	-999.9	0	
03/20/2002 10:10	2N0x	DAILY			0.9	0	0.12	934.6	947	-1.22	-999.9	0	
03/20/2002 10:10	2C02	DAILY			-0.16	0	-0.82	18.17	18.7	-2.72	-99.99	0	
03/20/2002 06:50	1502	DAILY			-0.4	0	0.02	1348.7	1350	-0.12	-999.9	0	
03/20/2002 06:50	10pac_A	DAILY			0.5	0	0.52	44.8	45	-0.22	-999.9	0	
03/20/2002 06:50	1N0x	DAILY			-1	0	-0.12	939.2	947	-0.82	-999.9	0	
03/20/2002 06:50	1C02	DAILY			-0.01	0	-0.12	18.62	18.7	-0.42	-99.99	0	
03/20/2002 04:32	2502	DAILY			1.7	0	0.12	1314.8	1350	-2.32	-999.9	0	
03/20/2002 04:32	20pac_A	DAILY			-0.1	0	-0.12	45.1	45	0.12	-999.9	0	
03/20/2002 04:32	2N0x	DAILY			0.9	0	0.12	943.1	947	-0.42	-999.9	0	
03/20/2002 04:32	2C02	DAILY			-0.15	0	-0.82	18.35	18.7	-1.82	-99.99	0	

Enertec NTDAHS®
Daily Stack Calibration Summary Report
Generated: 03/27/02 11:57

Company: Florida Power & Light PCC
Plant:
City/St:
Source: stack1

Period Start: 03/27/02 00:00
Period End: 03/27/02 10:57
Included Cals: Daily

Ranges of Analyzers:
1SO2: 0.0 - 1500.0 ppm
1NOx: 0.0 - 1000.0 ppm
1CO2: 0.0 - 20.0 %
1Opac_A: 0.0 - 100.0 %

Date	Time	Channel	Type	Target	Actual	Diff	%Range	P/F		% ALLOWANCE	
								N	PERF	Units	%
03/27/2002	10:54	1CO2	ZERO	0.00	-0.01	-0.01	0.05	1.0	5.0	pass	1.0 5.0 pass
03/27/2002	10:54	1CO2	SPAN	18.70	18.93	0.23	1.15	1.0	5.0	pass	1.0 5.0 pass
03/27/2002	06:50	1CO2	ZERO	0.00	-0.02	-0.02	0.10	1.0	5.0	pass	1.0 5.0 pass
03/27/2002	06:50	1CO2	SPAN	18.70	18.63	-0.07	0.35	1.0	5.0	pass	1.0 5.0 pass
03/27/2002	10:54	1NOx	ZERO	0.00	0.00	0.00	0.00	50.0	5.0	pass	50.0 5.0 pass
03/27/2002	10:54	1NOx	SPAN	947.00	956.70	9.70	0.97	50.0	5.0	pass	50.0 5.0 pass
03/27/2002	06:50	1NOx	ZERO	0.00	0.00	0.00	0.00	50.0	5.0	pass	50.0 5.0 pass
03/27/2002	06:50	1NOx	SPAN	947.00	943.20	-3.80	0.38	50.0	5.0	pass	50.0 5.0 pass
03/27/2002	10:54	1Opac_A	ZERO	0.00	0.50	0.50	0.50	2.0	2.0	pass	2.0 2.0 pass
03/27/2002	10:54	1Opac_A	SPAN	45.00	44.80	-0.20	0.20	2.0	2.0	pass	2.0 2.0 pass
03/27/2002	06:50	1Opac_A	ZERO	0.00	0.30	0.30	0.30	2.0	2.0	pass	2.0 2.0 pass
03/27/2002	06:50	1Opac_A	SPAN	45.00	44.90	-0.10	0.10	2.0	2.0	pass	2.0 2.0 pass
03/27/2002	10:54	1SO2	ZERO	0.00	-0.40	-0.40	0.03	75.0	5.0	pass	75.0 5.0 pass
03/27/2002	10:54	1SO2	SPAN	1350.00	1358.40	8.40	0.56	75.0	5.0	pass	75.0 5.0 pass
03/27/2002	06:50	1SO2	ZERO	0.00	-0.40	-0.40	0.03	75.0	5.0	pass	75.0 5.0 pass
03/27/2002	06:50	1SO2	SPAN	1350.00	1342.10	-7.90	0.53	75.0	5.0	pass	75.0 5.0 pass

Note: Daily Calibration Pass/Fail is based on N*Perf Column

Calibration Statistics (Average Cumulative DIFF and %Range)

Channel	----ZERO----		----SPAN----	
	DIFF	%Range	DIFF	%Range
1CO2	0.0	0.1	0.1	0.4
1NOx	0.0	0.0	3.0	0.3
1Opac_A	0.4	0.4	-0.1	0.1
1SO2	-0.4	0.0	0.3	0.0

N * Performance Specification

	1CO2	1NOx	1Opac_A	1SO2
P - Pass	<=1.0 units	<=5.00%	<=2.02%	<=5.00%
F - Fail	> 1.0 units	> 5.00%	> 2.02%	> 5.00%

For Technical Information Call
1-800-752-1597



Air Products and Chemicals, Inc. * 12722 S. Wentworth Avenue, Chicago, IL 60628

ISO CERTIFICATION: 9002

CERTIFICATE OF ANALYSIS: EPA PROTOCOL GAS STANDARD

PERFORMED ACCORDING TO EPA TRACEABILITY PROTOCOL FOR ASSAY AND CERTIFICATION OF GASEOUS CALIBRATION STANDARDS (PROCEDURE #G1)

Customer: 856 -1 Order No: CSS727266-01
 AIR PRODUCTS AND CHEMICALS, INC. Batch No: 86183252
 ALDO PO:
 7840 N.W. 53RD STREET Release:
 MIAMI FL 33166-

Cylinder No: SG9196822BAL
 Bar Code No: FHD610
 Cylinder Pressure*: 2000 psig
 Certification Date: 05/26/2001
 Expiration Date: 05/26/2004

CERTIFIED CONCENTRATION		REFERENCE STANDARDS			ANALYTICAL INSTRUMENTATION			
Component	Certified Concentration	Cylinder Number	Standard Type	Standard Concentration	Instrument Make/Model	Serial Number	Last Calibration	Measurement Principal
CARBON DIOXIDE	9.16±.11 %	SG9169458BAL	NTRM	19.37 %	Horiba VIA-510	51135063	05/01/01	NON DISPERSIVE INFRARED
OXYGEN	4.99±.070 %	SG9168322BAL	NTRM	20.98 %	SERVOMEX 1100	2974C	05/01/01	PARAMAGNETIC

NITROGEN Balance Gas

* STANDARD SHOULD NOT BE USED BELOW 150 PSIG

EPA PROTOCOL GAS MIXTURE : 2 COMPONENTS IN NITROGEN
 To reorder this mixture please use Mix ID: 45006

20/CO2 MID RANGE

Analyst:
(16921)

SUZANNE HAUTER

Approved By:

James Laas

For Technical Information Call
1-800-752-1597



Air Products and Chemicals, Inc. • Rural Route #1, Tamaqua, PA 18252

ISO CERTIFICATION: 9002

CERTIFICATE OF ANALYSIS: EPA PROTOCOL GAS STANDARD

PERFORMED ACCORDING TO EPA TRACEABILITY PROTOCOL FOR ASSAY AND CERTIFICATION OF GASEOUS CALIBRATION STANDARDS (PROCEDURE #G1)

Customer: Order No. CSS-318329-01 Cylinder No: SG9154393BAL
 AIR PRODUCTS AND CHEMICALS, INC. Batch No: 255-8575E Bar Code No: DMY401
 ALDO PC: Cylinder Pressure*: 2000 psig
 7840 N.W. 53RD STREET Release: Certification Date: 11/09/1999
 MIAMI FL 33166- Expiration Date: 11/09/2002

CERTIFIED CONCENTRATION		REFERENCE STANDARDS			ANALYTICAL INSTRUMENTATION			
Component	Certified Concentration	Cylinder Number	Standard Type	Standard Concentration	Instrument Make/Model	Serial Number	Last Calibration	Measurement Principal
CARBON DIOXIDE	18.1±0.05 %	SG9169557BAL	NTRM 81675X	10.82 %	Shimadzu Model	C1049300	11/07/99	GC-TCD
OXYGEN	9.11±0.06 %	SG9168291BAL	NTRM 82658X	16.04 %	SHIMADZU GC-8A	59405U	11/07/99	GC-TCD

NITROGEN Balance Gas

* STANDARD SHOULD NOT BE USED BELOW 150 PSIG

O₂/CO₂ HIGH RANGE 10/20

Analyst:

Patricia J. Williams

Patricia J. Williams

Approved By:

Bruce Andersen / P. W.

Bruce Andersen

(16921)

Pub. No. 320-9702

For Technical Information Call
1-800-321-1597



Air Products and Chemicals, Inc. * 12722 S. Wentworth Avenue, Chicago, IL 60628

ISO CERTIFICATION: 9002

CERTIFICATE OF ANALYSIS: EPA PROTOCOL GAS STANDARD

PERFORMED ACCORDING TO EPA TRACEABILITY PROTOCOL FOR ASSAY AND CERTIFICATION OF GASEOUS CALIBRATION STANDARDS (PROCEDURE #G1)

Customer: 856 -1 Order No: CSS589767-01
AIR PRODUCTS AND CHEMICALS, INC. Batch No: 86176075
ALDO PO:
7840 N.W. 53RD STREET Release:
MIAMI FL 33166- Shipper No: 861C61850
Ship Date : 11/29/2000

Cylinder No: SG9124282BAL
Bar Code No: DUH554
Cylinder Pressure*: 2000 psig
Certification Date: 11/24/2000
Expiration Date: 11/24/2002

CERTIFIED CONCENTRATION		REFERENCE STANDARDS				ANALYTICAL INSTRUMENTATION			
Component	Certified Concentration	Cylinder Number	Standard Type	Standard Concentration	Instrument Make/Model	Serial Number	Last Calibration	Measurement	
NITRIC OXIDE	88±4.09 PPM	SG91595188AL	NTRM	959.0 PPM	BECKMAN 951A		03/01/01	CHEMILUMINESCENCE	
SULFUR DIOXIDE	1460±17 PPM	SG9120185BAL	NTRM R81664	2502 PPM	HORIBA NDIR		03/01/01	NON DISPERSIVE ULTRAVIOLET	

Total Oxides of Nitrogen : 891 PPM

NITROGEN Balance Gas

Contaminant

Nitrogen Dioxide 5.10 PPM

* STANDARD SHOULD NOT BE USED BELOW 150 PSIG

EPA PROTOCOL GAS MIXTURE : 2 COMPONENTS IN NITROGEN
To reorder this mixture please use Mix ID: 22043

*RV3,4/CC1,2/SN3,4,5
HIGH DATA*

Analyst: (16921)

Holly Mattendorf
HOLLY MATTENDORF

Approved By: *James Laas*
JAMES LAAS

For Technical Information Call
1-800-752-1597



Air Products and Chemicals, Inc. • 12722 S. Wentworth Avenue, Chicago, IL 60628

ISO CERTIFICATION: 9002

CERTIFICATE OF ANALYSIS: EPA PROTOCOL GAS STANDARD

PERFORMED ACCORDING TO EPA TRACEABILITY PROTOCOL FOR ASSAY AND CERTIFICATION OF GASEOUS CALIBRATION STANDARDS (PROCEDURE #G1)

Customer: 856 -1
AIR PRODUCTS AND CHEMICALS, INC.
ALDO
7840 N.W. 53RD STREET
MIAMI FL 33166-

Order No: CSS589768-01
Batch No: 86176042
PO:
Release:

Cylinder No: SG9133561BAL
Bar Code No: FAE903
Cylinder Pressure*: 2000 psig
Certification Date: 11/30/2000
Expiration Date: 11/30/2002

CERTIFIED CONCENTRATION		REFERENCE STANDARDS			ANALYTICAL INSTRUMENTATION			
Component	Certified Concentration	Cylinder Number	Standard Type	Standard Concentration	Instrument Make/Model	Serial Number	Last Calibration	Measurement Principal
NITRIC OXIDE	502±4.3 PPM	SG9161303BAL	NITRM	591.0 PPM	TIERN0 ENVIRO	52829293	11/10/00	CHEMILUMINESCENCE
SULFUR DIOXIDE	737±6.4 PPM	SG868374NB	NITRM	1019 PPM	BOVAR 721M PHO	8327-3	11/10/00	NON DISPERSIVE INFRARED

Total Oxides of Nitrogen : 504 PPM

NITROGEN Balance Gas

Contaminant

Nitrogen Dioxide 2.00 PPM

* STANDARD SHOULD NOT BE USED BELOW 150 PSIG

EPA PROTOCOL GAS MIXTURE : 2 COMPONENTS IN NITROGEN
To reorder this mixture please use Mix ID: 32513

*RV3,4/EC1,2/RV3,4,5
MID RATA*

Analyst:

SUZANNE HAUTER

Approved By:

James Laas

(16921)