El Paso Pipeline Group
Plant Services Department
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Emissions Test Report

Three (3) General Electric M3002-RA Natural Gas Fired Gas Turbines

Permit No.: 425

Mechanical Testing File Number: 07-091

El Paso Natural Gas Company
Vail Compressor Station
South of I-10 on Rita Road
Tucson, Arizona 85706

Date:	**December 8, 2007**
Prepared for:	**Pima County Department of Environmental Quality**
Prepared by:	**Pedro Amieva** **Mechanical Testing Group** **(713) 420-1722**
Reviewed by:	**Chris Nowak** **(713) 420-4012** **Date: December 11, 2007**

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Introduction

The Plant Services Department of El Paso Pipeline Group conducted source emissions testing at EPNG Vail Compressor Station in fulfillment of operating permit conditions (Permit No. 425). Table 1 presents the emission units and emission species measured during the testing. The test was conducted in basic accordance with approved Environmental Protection Agency (EPA) test methods as described in the Code of Federal Regulations, Title 40, Part 60 - Appendix A, including the May 15, 2006 Federal Register Reference Method changes. The testing was completed during the week of **December 3, 2007**.

Table 1. Emissions Units and Requirements

Unit Type	Condition Tested[1]	Testing Results	Applicable limits
Emission Point A1	99.1% of GP speed	NOx: 19.96 lb/hr	NA
		CO: 4.50 lb/hr	
Emission Point A2	86.9 % of GP speed	NOx: 14.16 lb/hr	
		CO: 6.87 lb/hr	
Emission Point A2	87.0 % of GP speed	NOx: 18.29 lb/hr	
		CO: 5.96 lb/hr	

[1] Average results are based on maximum gas producer speed and available pipeline conditions at the time of testing

FACILITY INFORMATION

Facility: El Paso Natural Gas Company
Vail Compressor Station
South of I-10 on Rita Road
Tucson, Arizona 85706

Contact: Anu Pundari
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EMISSIONS GROUP INFORMATION

Location: El Paso Corporation
Plant Services Department
1001 Louisiana Street
Houston, TX 77002

Contact: Pedro Amieva
Mechanical Testing Group
(713) 420-1722

Test Summary

The exhaust gases of the three General Electric were sampled continuously to determine oxides of nitrogen (NOx), carbon monoxide (CO) and oxygen (O_2) concentrations for three (3) runs, one hour each, at the maximum achievable operating loads according to pipeline conditions. Tables 2 to 4 below shows a summary of test results. Detailed summaries are included in the APPENDICES.

Table 2. Emissions Summary Unit A-1 GE M3002-RA Gas Turbine

Parameter	Run 1	Run 2	Run 3	Averages
Date tested	12/6/2007	12/6/2007	12/6/2007	
Time Tested	9:17	10:41	11:49	
Observed Horsepower	4,431	3,789	3,871	4,030
GP Speed (rpm)	6,881	6,829	6,795	6,835
Percent GP Speed (%)	99.7	99.0	98.5	99.1
PT Speed (rpm)	5,028	4,737	4,699	4,821
Percent PT Speed (%)	92.1	86.8	86.1	88.3
Fuel Flow (sft^3/hr)	62,800	59,700	58,500	60,333
Permit Limits	NA			
NOx (ppm bias corrected)	45.56	43.81	43.09	44.15
NOx (lb/hr)	20.58	19.83	19.48	19.96
CO (ppm bias corrected)	15.39	17.68	15.96	16.34
CO (lb/hr)	4.23	4.87	4.39	4.50
O_2 Bias Corrected (%)	17.82	17.98	18.03	17.94
Ambient Temperature (^oF)	63.3	70.1	75.6	69.7
Barometric Pressure ("Hg)	26.9	26.9	26.9	26.9
Ambient Relative Humidity (%)	44.9	39.7	34.6	39.7

Table 3. Emissions Summary Unit A-2 GE M3002-RA Gas Turbine

Parameter	Run 1	Run 2	Run 3	Averages
Date tested	12/7/2007	12/7/2007	12/7/2007	
Time Tested	7:50	9:22	10:45	
Observed Horsepower	4,021	3,922	3,736	3,893
GP Speed (rpm)	5,999	6,000	5,999	5,999
Percent GP Speed (%)	86.9	87.0	86.9	86.9
PT Speed (rpm)	5,459	5,460	5,461	5,460
Percent PT Speed (%)	100.0	100.0	100.0	100.0
Fuel Flow (sft^3/hr)	46,600	46,700	46,600	46,633
Permit Limits	NA			
NOx (ppm bias corrected)	31.15	31.98	32.69	31.94
NOx (lb/hr)	13.06	14.60	14.83	14.16
CO (ppm bias corrected)	28.87	23.17	24.66	25.57
CO (lb/hr)	7.37	6.44	6.81	6.87
O_2 Bias Corrected (%)	18.44	18.63	18.62	18.56
Ambient Temperature (°F)	63.3	66.1	67.5	65.6
Barometric Pressure ("Hg)	27.0	27.0	26.9	26.9
Ambient Relative Humidity (%)	52.7	47.9	45.2	48.6

Table 4. Emissions Summary Unit A-3 GE M3002-RA Gas Turbine

Parameter	Run 1	Run 2	Run 3	Averages
Date tested	12/6/2007	12/6/2007	12/6/2007	
Time Tested	15:30	16:54	18:18	
Observed Horsepower	4,665	4,627	4,599	4,630
GP Speed (rpm)	6,006	6,000	6,001	6,002
Percent GP Speed (%)	87.0	87.0	87.0	87.0
PT Speed (rpm)	5,462	5,459	5,461	5,461
Percent PT Speed (%)	100.0	100.0	100.0	100.0
Fuel Flow (sft^3/hr)	47,043	47,108	47,273	47,141
Permit Limits	NA			
NOx (ppm bias corrected)	37.34	35.83	34.03	35.73
NOx (lb/hr)	18.14	17.61	19.11	18.29
CO (ppm bias corrected)	19.40	17.28	20.36	19.01
CO (lb/hr)	5.74	5.17	6.96	5.96
O_2 Bias Corrected (%)	18.75	18.77	19.03	18.85
Ambient Temperature (°F)	74.4	72.9	68.7	72.0
Barometric Pressure ("Hg)	26.9	26.9	26.9	26.9
Ambient Relative Humidity (%)	39.0	45.4	56.0	46.8

Emissions Sampling Process

Process Description

The GE M3002-RA are regenerative cycle, natural gas fired, two shaft turbines. In a simple cycle turbine, filtered atmosphere air is first compressed by the axial flow compressor. The hot compressed air is then fired with natural gas in the combustor. The hot exhaust gases expand through two turbine stages. The high pressure (HP) turbine drives the axial flow air compressor while the low pressure turbine (LP) drives the centrifugal pipeline compressor. The pipeline gas compressor moves natural gas through the pipeline by compressing it from an initial "suction" state to a more compressed "discharge" state.

EMISSIONS TEST VEHICLE

The Plant Services department has conducted emissions tests on reciprocating engines and turbines for many years. This testing experience has enabled the Plant Services Department to design and assemble an accurate and versatile emissions test vehicles (ETV). Each ETV is an environmentally-controlled box trailer housing all analyzers, computers and auxiliary equipment. "Brand names" for equipment are for reference only and hardware of equal performance and specifications may be substituted.

A National Instruments Data Acquisition Control System (DACS) scans instrument outputs. The data is transferred to a computer for analysis and storage. The computer monitors the readings in real-time and outputs the data averages to a video monitor, a printer, writeable CD discs, and, if needed, a hard drive. In addition, six strip chart channels are available as a visual aid and back up to the data recording system. Copies of the strip chart data will be included in the final report along with the output from the printer.

All instruments and transducers used in the ETV are designed to produce a near linear response. The DACS samples the response (voltage) from the instruments. The computer converts the voltage into engineering units by multiplying the voltage by a slope and adding an intercept. For the analyzers, the slope and intercept are to be generated by introducing a zero concentration of span gas (zero grade air for NO_X analyzers, zero grade nitrogen for O_2 and CO_2 analyzers) and then a known span gas. The voltage for each analyzer and transducer are recorded and used as shown in Equation 1.

$$Y = mX + b$$

Equation 1: Slope of a Line

NOMENCLATURE

b = Intercept

m = Slope

X = Analyzer or transducer voltage

Y = Engineering Units

Sampling System

Continuous analyzers were used to determine the NO_X, CO and O_2 emission concentrations. Available instrumentation and analyzers are listed in table 3.

Exhaust gas entered the system through a stainless steel probe, a 3-way sample valve assembly, and a glass wool filter. The sample was transported via a heat-traced Teflon sample line through a stainless steel sample pump, and into a minimum contact condenser specially designed to dry the sample. The sample was then passed through 3/8" Teflon tubing to a Balston Microfibre coalescing filter and then to the sample manifold. The sample manifold was maintained at a constant pressure by means of a pressure bypass regulator. Stainless steel needle valves controlled the sample flow to each analyzer. See Figure 1 for the flow schematic.

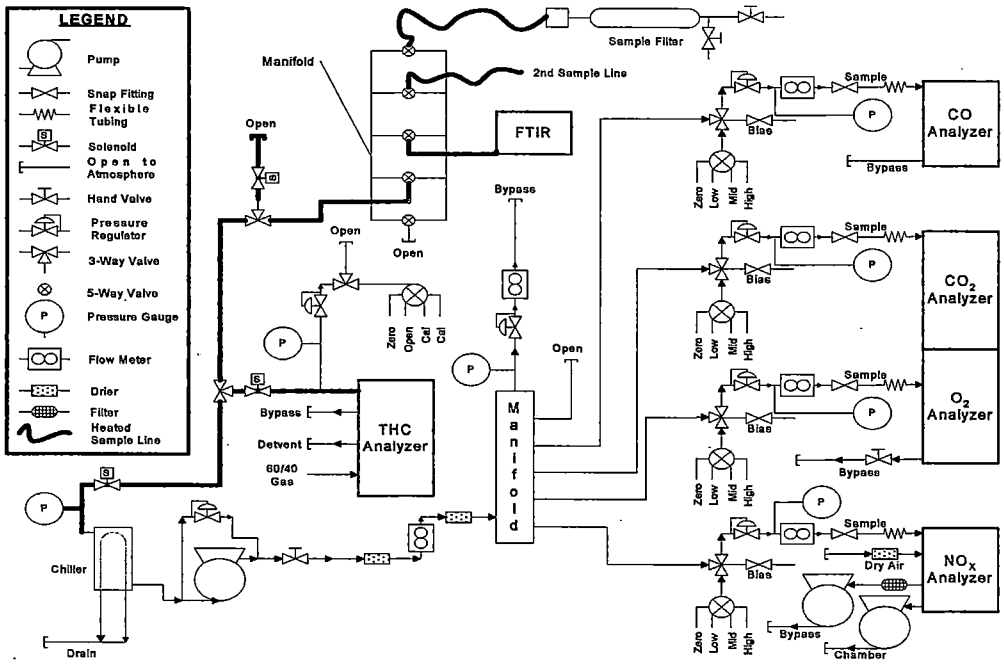

Figure 1: Sampling System Flow Schematic

Table 5. Available Instrumentation.

Parameters	Manufacturer / Model	Detection Principle	Range	Number
NO_x	Thermo-Environmental Model 42i-HL	Thermal reduction of NO_2 to NO. Chemiluminescent reaction of NO with O_3	Variable to 10000 ppm	1
CO	Thermo-Environmental Model 48i	NDIR with Gas Filter Correlation	Variable to 1000 ppm	1
CO_2	Servomex Model 1400B	NDIR	0 to 25%	1
O_2	Servomex Model 1400B	Paramagnetic	0 to 25%	1
Barometric Pressure	Rosemount Model 3051		11.6 psi – 15.37 psi	2
Wet/Dry Temperature Humidity	Vaisala Model HMP 233		10- F to 120 F	1

General Testing Procedure

Oxides of nitrogen and carbon monoxide emissions rates were determined by following procedures prescribed in Method 7E and Method 10, respectively. Oxygen and carbon dioxide emissions rates were determined by following procedures prescribed in Method 3A. Calibration and test procedures are detailed under their respective sections of the GENERAL TESTING PROCEDURE portion of this report.

INSTRUMENT CHECKS AND CALIBRATIONS

The following instrument checks and calibrations guarantee the integrity of our sampling system and the accuracy of our data.

EPA PROTOCOL GASES (40CFR60A-M7E.7.1)

Calibration sheets for EPA Protocol 1 calibration gases were available at the test site and are included in the test report APPENDICES.

DETERMINATION OF STRATIFICATION (40CFR60A-M7E.8.1.2)

Per EPA Reference Method 7E, an initial 3-point stratification check was performed on each gas turbine with points located at 16.7, 50, and 83.3% of the nominal stack diameter. After sampling was taken the deviation of the results at each sampling point were less than 5 % respect the mean of the three points, therefore, a single point was used for the testing runs.

INTERFERENCE RESPONSE (40CFR60A-M7E.8.2.7)

Vendor instrument data concerning the interference response of the NO_X analyzer are included in the test report APPENDICES.

RESPONSE TIME TEST (40CFR60A-7E.8.2.6)

The most recent response time tests were performed on our sample system on November 19, 2007. The slowest response time was added to the sampling time of each sampling point. The response time was tested to assure that the analyzers' response was for exhaust gas entering the sample system from the sample point location.

ANALYZER CALIBRATION CHECK (40CFR60A-M7E.8.2.3)

The measurement system was prepared for use by first introducing zero, low, mid and high range calibration gasses to the NO_X, CO and O_2 analyzers. Each analyzer was set to the correct response and that response was recorded by the data acquisition system. A calibration curve was then established to convert each analyzers response to equivalent gas concentrations as introduced to each analyzer. The same zero, low, mid and high calibration gasses were then reintroduced without adjustment to the analyzers and their responses were recorded. These responses were considered acceptable since they were within +/- 2 percent of the span. This curve remained unchanged throughout the test. The

analyzer calibration checks sheets and calibration curve sheets are included in the test report APPENDICES.

SAMPLE LINE LEAK CHECK

The sample line was leak checked before and after the test by closing the calibration valve assembly while the sample pump was operating. Once the maximum vacuum was reached inside the sample line (approximately -18 inches of mercury), the valve on the pressure side of the pump was closed and the vacuum gauge was observed for 1 minute. The leak tests for each unit were considered acceptable since the vacuum gauge reading dropped by an amount less than 1 inch of mercury over the mentioned 1 minute period. The leak check forms are included in the test report APPENDICES.

SYSTEM BIAS CHECK (40CFR60A-M7E.8.2.5 & M7E.8.5)

The system integrity checks were conducted once prior to and once following the test runs and consisted of first introducing the NO_X analyzer's span gas directly to the analyzer through the calibration system (order is for convenience only and may be changed). The analyzer was allowed to stabilize and the response noted. The same zero and span gas were then passed through the entire sample train to the analyzer and the response noted. The resulting readings indicated any bias attributed to the sample train. This process was then repeated with the CO, O_2 and CO_2 analyzers. The bias check was acceptable since the response of the analyzer was within +/- 5 % of the analyzers' response when measured through the complete sample train. Sample system integrity check forms are included in the test report APPENDICES.

Bias checks before and after each test run were used to determine a zero and span drift for the NO_x, CO and O_2 analyzers. The zero and span drift for the test run period was less than +/- 3 percent of the span value for each of the analyzers [per 7E.13.3]. The calibration forms and data sheets for each test will be included in the APPENDICES.

NO_2 TO NO CONVERSION EFFICIENCY (40CFR60A-M7E.8.2.4)

An NO_2 to NO conversion efficiency test was performed once upon arrival at the test site. The conversion efficiency test was performed as specified in Method 7E Section 8.2.4.1 of CFR 40. The results of the conversion efficiency test are included in the test report APPENDICES.

CHART RECORDING

A copy of the chart recordings for the tests is labeled and included in the test report APPENDICES.

EMISSIONS TESTING

SAMPLE LOCATION AND SET-UP

A single point probe consisting of 3/8 inch stainless tubing open at one end was used. As per Method 1, CFR 40, the sampling point was selected at least eight stack diameters downstream and two stack diameters upstream from any disturbance. In case the 8 and 2 criteria were not met, the sample probe was placed at least two stack diameters downstream and one-half stack diameter upstream from any disturbance, as specified in section 2.1.

FUEL GAS ANALYSIS

A fuel gas sample was taken during the testing. The sample was analyzed by the pipeline gas chromatograph. This analysis provided the actual specific gravity and BTU so that horsepower, fuel flow, and mass emissions can be accurately calculated. The data sheet for the analysis is included in the test report APPENDICES.

COMPLIANCE TEST RUNS

The exhaust gases for each unit were sampled continuously to determine NO_x, CO and O_2 concentrations for three test runs, 60 minutes each, at the maximum achievable load. Other important parameters such as compressor suction and discharge pressures, turbine horsepower and GP and PT turbine speeds and ambient conditions were monitored throughout the test runs.

The sampling points were determined as mentioned in the "Determination of Stratification" above.

The data acquisition system scans the analyzers ten times per second during each test run. The computer averaged the outputs periodically, typically every two minutes. The raw data along with test summaries is included in the TEST REPORT APPENDICES.

Fuel use was calculated from AGA approved equations by monitoring the temperature and the static and differential pressures from an AGA approved meter run. These calculations are detailed in the CALCULATIONS section of this report.

The data acquisition system scanned the analyzers ten times per second during the test runs. The computer averaged the outputs every two minutes. The raw data, along with a summary of the data with each test run averaged, will be included in the APPENDICES.

Calculations

EPA F-FACTOR

The EPA fuel-specific f-factor is determined below in Equation 2.

$$F_d = \frac{\left[(3.64 \cdot H_{Wt\%} \cdot 100) + (1.53 \cdot C_{Wt\%} \cdot 100) + (0.14 \cdot N_{2Wt\%} \cdot 100) - (0.46 \cdot O_{2Wt\%} \cdot 100)\right]}{\frac{GCV}{\rho_{FuelGas}}} \cdot 10^6$$

Equation 2: Fuel-Specific F-Factor

Nomenclature:

F_d:	Fuel specific F-factor, dscf/MMBTU
$H_{Wt\%}$:	Hydrogen weight percent
$C_{Wt\%}$:	Carbon weight percent
$N_{2Wt\%}$:	Nitrogen weight percent
$O_{2Wt\%}$:	Oxygen weight percent
GCV:	Heating value of the fuel, BTU/dscf
$\rho_{FuelGas}$:	Density of the fuel gas, lb/scf

FUEL FLOW

The fuel flow for each ~~UTC~~ unit was measured using the installed orifice meter on the unit's fuel run. Equation 3, Equation 4, and Equation 5 show how the fuel flow was calculated.

$$C' = Fb \times Fpb \times Fg \times Ftf \times Fr \times Y2 \times Fpv \times Fm$$

Equation 3: Orifice Flow Constant

$$Qh = C' \times \sqrt{hw \times Pf}$$

Equation 4: Flow Quantity (ft^3/hr)

$$Q_{tm} = Qh \div 60$$

Equation 5: Flow Quantity (ft^3/min)

Nomenclature:

Q_h:	Quantity of flow at base conditions (ft^3/hr)
Q_{tm}:	Quantity of flow at base conditions (SCFM)
C':	Orifice flow constant
F_b:	Basic orifice flow factor
F_{pb}:	Pressure base factor
F_{tb}:	Temperature base factor
F_g:	Specific gravity factor
F_{tf}:	Flowing temperature factor
F_r:	Reynolds number factor
Y_2:	Expansion factor (pressure from downstream tap)
F_{pv}:	Super compressibility factor
F_m:	Manometer factor
H_w:	Differential pressure ("H_2O)
P_f:	Static pressure (psia)

BRAKE SPECIFIC EMISSIONS CALCULATIONS

The F-factor method and guidance from Part 75 was used to calculate the mass emission rates (lb/hr) for NO_x. A fuel specific F_d factor was calculated as described in EPA Method 19, "Determination of Sulfur Dioxide Removal Efficiency and Particulate, Sulfur Dioxide and Nitrogen Oxides Emission Rates from Electric utility Steam Generators" for natural gas. Equation **6: Brake Specific emission Rate (lb/hr)** was used to determine the emission rate.

$$E_m = C_d \times F_d \times \frac{20.9}{(20.9 - \%O_2)} \times Q_h \times \frac{GCV}{10^6}$$

Equation 6: Brake Specific emission Rate (lb/hr)

Nomenclature:

E_m:	Pollutant emission rate (lb/hr)
C_d:	Pollutant concentration (lb/scf)
F_d:	Fuel specific F-factor for dry C_d measurement (dscf/MMBTU)
$\%O_2$:	Oxygen concentration in percent, measured on a dry basis
Q_h:	Fuel rate from calibrated AGA specified meter (scfh)
GCV:	Heating value of fuel (BTU/scf)
453.6:	Conversion factor (g/lb)
BHP:	Brake Horse Power

The conversion factor below in Table **6. Unit Conversion Factors** was used to convert the pollutant concentration in ppm to lb/scf.

Table 6. Unit Conversion Factors

To Convert From:	To:	Multiply by:
ppm NO_x	lb/scf NO_x	1.194×10^{-7}

General Information

Relevant Correspondence

Interference Response Certificates

Calibration Gas Certificates

Relevant Correspondence

El Paso Pipeline Group
Plant Services Department
1001 Louisiana Street
Houston, TX 77002
(713) 420-4418

September 14, 2007

Mr. Richard Grimaldi
Pima County Department of Environmental Quality
130 W Congress St.
Tucson, AZ 85701-1317

UPS Tracking # : 1Z 770 165 01 4814 4275
RE: Emission Test Protocol – EPNG Vail Compressor Station (Permit No. 425)

Mr. Grimaildi

The Plant Services Department of El Paso Pipeline Group would like to submit the attached emission test protocol for Permit No. 425 (three General Electric M3002-RA natural gas fired gas turbines) for Pima County DEQ approval. This unit is located at the EPNG Vail compressor station, Tucson, Arizona. The testing will be conducted beginning the week of December 3, 2007 as approved by Pima County DEQ to demonstrate compliance with the Title V operating permit and continuing to completion. There are not requested deviations from the EPA Reference Methods or from accepted field practice which would impact or compromise the test data obtained.

We respectfully request the timely review and approval of this submittal. If you have any questions regarding this matter, please feel free to contact me at your convenience.

Thank you,

Pedro Amieva
Plant Services – Mechanical testing Group
El Paso Pipeline Group
713-420 1722 (Office)
713-724 0872 (Cell)
Pedro.amieva@elpaso.com

III. CERTIFICATION OF RESPONSIBLE OFFICIAL or AUTHORIZED REPRESENTATIVE

As required by the Pima County Air Quality Control Code PCC 17.12.180.a.5. and PCC 17.12.210.A.2 , I hereby certify that, based on information provided after reasonable inquiry of El Paso Natural Gas Company staff, the information contained in this submittal is true, accurate, and complete to the best of my understanding.

Signature of Responsible Official : _____

Print Name: Jesus Soto, Jr

Date: 9/20/07

Enclosure – Emissions Test Protocol

Paper copy: Mr. Richard Grimaldi
Pima County Department of Environmental Quality
130 W Congress St.
Tucson, AZ 85701-1317

Mechanical Testing File # 07-091
Anu Pundari – Corporate environmental
Vince Brindley – Field environmental
Lesley Ragland – Station supervisor

Electronic copy: Chris Nowak – Testing manager
Donald Cantrell – Area manager
Chris Harris – Reliability Engineer
Donny Gray – Maintenance Planner
Heidi Franklin – Logistics Coordinator

El Paso Pipeline Group
Plant Services Department
1001 Louisiana Street
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(713) 420-4418

Emissions Test Protocol

Three (3) General Electric M3002-RA Natural Gas Fired Gas Turbines

Permit No: 425

Mechanical Testing Files No. 07-091

El Paso Natural Gas Company
Vail Compressor Station
South of I-10 on Rita Road
Tucson, Arizona 85706

Date: September 10, 2007

Prepared for: Pima County Department of Environmental Quality

Prepared by: Pedro Amieva
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Introduction

The Plant Services Department of El Paso Pipeline Group will be conducting source emissions testing at EPNG Vail Compressor Station in fulfillment of Permit No. 425 to demonstrate compliance with applicable permit requirements. Table 1 presents the emission unit and the emission species to be measured during the testing. The test will be conducted in basic accordance with approved Environmental Protection Agency (EPA) test methods as described in the Code of Federal Regulations, Title 40, Part 60 - Appendix A, including the May 15, 2006 Federal Register Reference Method changes, and this test protocol. The testing start date is tentatively scheduled for the week of **December 3, 2007** if agreed upon by the Pima County Department of Environmental Quality. El Paso Pipeline Group will provide as much notice as possible to any changes in this schedule.

Table 1: Emissions Units and Requirements

Units To Be Tested	Emission Species	Emission Estimates Per Unit	Applicable Limits
Emission Points A-1 to A-3. Three General Electric M3002-RA Natural Gas Fired Gas Turbines	NOx	22.69 lb/hr	NA
	CO	43.88 lb/hr	

FACILITY INFORMATION

Facility: El Paso Natural Gas Company
Vail Compressor Station
South of I-10 on Rita Road
Tucson, Arizona 85706

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PLANT SERVICES INFORMATION

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Emissions Sampling Process

PROCESS DESCRIPTION

The GE M3002-RA are regenerative cycle, natural gas fired, two shaft turbines. In a simple cycle turbine, filtered atmosphere air is first compressed by the axial flow compressor. The hot compressed air is then fired with natural gas in the combustor. The hot exhaust gases expand through two turbine stages. The high pressure (HP) turbine drives the axial flow air compressor while the low pressure turbine (LP) drives the centrifugal pipeline compressor. The pipeline gas compressor moves natural gas through the pipeline by compressing it from an initial "suction" state to a more compressed "discharge" state.

EMISSIONS TEST VEHICLE

The Plant Services department has conducted emissions tests on reciprocating engines and turbines for many years. This testing experience has enabled the Plant Services Department to design and assemble an accurate and versatile emissions test vehicle (ETV). The ETV is an environmentally-controlled box trailer housing all analyzers, computers and auxiliary equipment necessary for successfully completing compliance testing. See **Table 2** for a list of equipment. "Brand names" for equipment are for reference only and hardware of equal performance and specifications may be substituted.

A National Instruments Data Acquisition Control System (DACS) scans instrument outputs. The data is transferred to a computer for analysis and storage. The computer monitors the readings in real-time and outputs the data averages to a video monitor, a printer, writeable CD discs, and, if needed, a hard drive. In addition, six strip chart channels are available as a visual aid and back up to the data recording system. Copies of the strip chart data will be included in the final report along with the output from the printer.

All instruments and transducers used in the ETV are designed to produce a near linear response. The DACS samples the response (voltage) from the instruments. The computer converts the voltage into engineering units by multiplying the voltage by a slope and adding an intercept. For the analyzers, the slope and intercept are to be generated by introducing a zero concentration of span gas (zero grade air for NO_X analyzers, zero grade nitrogen for O_2 and CO analyzers) and then a known span gas. The voltage for each analyzer and transducer are recorded.

$$Y = mX + b$$

Equation 1: Slope of a Line

NOMENCLATURE

b = Intercept

m = Slope

X = Analyzer or transducer voltage

Y = Engineering Units

Sampling System

Continuous analyzers will be used to determine the NO_X, CO and O_2 emission concentrations. Available instrumentation and analyzers are listed in Table 2

Exhaust gas enters the system through a stainless steel probe, a 3-way sample valve assembly, and a glass wool filter. The sample is transported via a heat-traced Teflon sample line through a stainless steel sample pump, and into a minimum contact condenser specially designed to dry the sample. The sample is then passed through 3/8" Teflon tubing to a Balston Microfibre coalescing filter and then to the sample manifold. The sample manifold is maintained at a constant pressure by means of a pressure bypass regulator. Stainless steel needle valves control the sample flow to each analyzer. A flow meter is in line for each analyzer to monitor exact sample flows except for the THC analyzers, in which case a rotometer is placed in the sample line. This analyzer is treated differently since it measures the sample wet and at a temperature above the dew point. See **Figure 1** for the flow schematic.

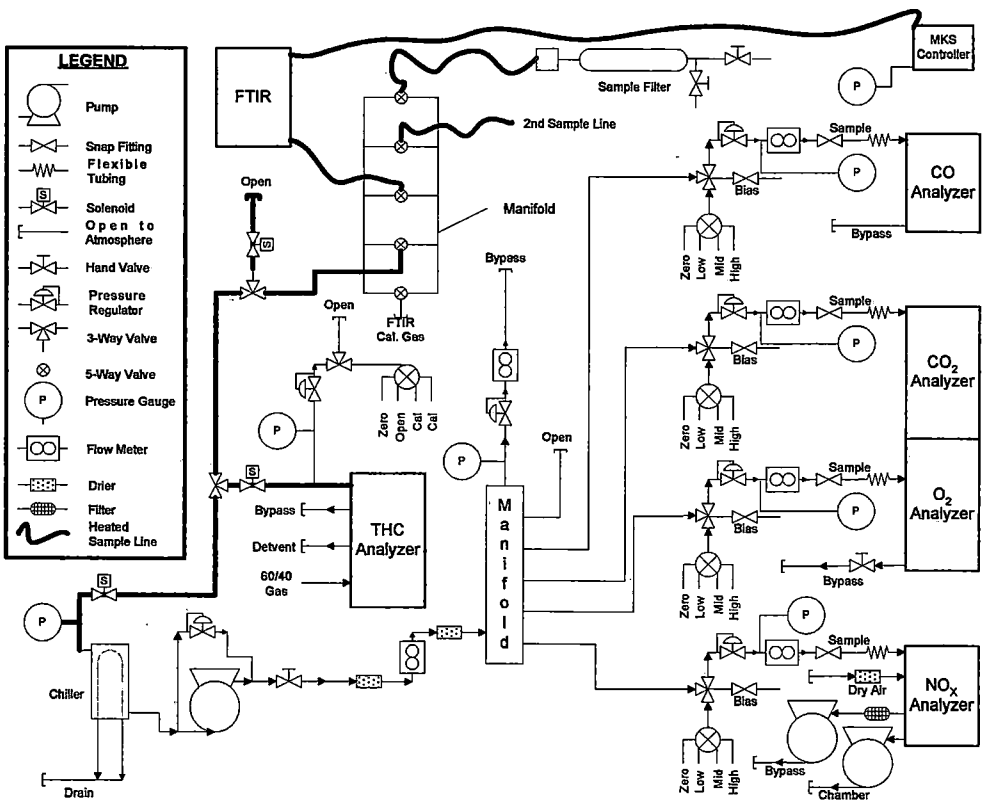


Figure 1: Sampling System Flow Schematic

Table 2: Available Instrumentation

Parameters	Manufacturer / Model	Detection Principle	Range	Number
NO_X	Thermo-Environmental Model 42C	Thermal reduction of NO_2 to NO. Chemiluminescent reaction of NO with O_3	Variable to 10000 ppm	2
NO_X	Thermo-Environmental Model 42Hi	Thermal reduction of NO_2 to NO. Chemiluminescent reaction of NO with O_3	Variable to 10000 ppm	2
CO	Thermo-Environmental Model 48	NDIR with Gas Filter Correlation	Variable to 1000 ppm	2
CO	Thermo-Environmental Model 48H	NDIR with Gas Filter Correlation	Variable to 20000 ppm	2
CO	Thermo-Environmental Model 48C	NDIR with Gas Filter Correlation	Variable to 10000 ppm	2
CO_2	Servomex Model 1400B	NDIR	0 to 25%	2
O_2	Servomex Model 1400B	Paramagnetic	0 to 25%	2
Barometric Pressure	Rosemount Model 3051		11.6 psi – 15.37 psi	2
Wet/Dry Temperature Humidity	Vaisala Model HMP 233		10- F to 120 F	1

General Testing Procedure

Compliance with the oxides of nitrogen emissions rates will be determined by following procedures prescribed in Method 7E. Carbon monoxide emissions rates will be determined by following procedures prescribed in Method 10. Oxygen and carbon dioxide emissions rates will be determined by following procedures prescribed in Method 3A. Calibration and test procedures are detailed under their respective sections of the GENERAL TESTING PROCEDURE portion of this protocol.

As with any field-based laboratory procedure, circumstances or complications may from time to time require unforeseen adjustments or accommodations which will affect the data collection process, but not materially affect the quantified data – any changes so required shall employ best possible engineering judgment to conform as closely to the letter of the Reference Methods as is possible. Additionally, any substantial deviation from the protocol which might materially affect the quantified outcome of the test shall be discussed with the Pima County Department of Environmental Quality prior to completion of any affected test and shall be documented in the ensuing report.

INSTRUMENT CHECKS AND CALIBRATIONS

The following instrument checks and calibrations ensure the integrity of our sampling system and the accuracy of our data.

EPA PROTOCOL GASES (40CFR60A – M7E.7.1)

Calibration sheets for EPA Protocol 1 calibration gases will be available at the test site and will be included in the TEST REPORT APPENDICES.

DETERMINATION OF STRATIFICATION (40CFR60A – M7E.8.1.2)

A stratification test will be performed using the sample probe. Twelve traverse points located according to Table 1-1 or Table 1-2 of Method 1 will be used. Alternatively, three points on a line passing through the centroidal area will be used, spaced at 16.7, 50.0, and 83.3 percent of the measurement line. The sampling time will be a minimum of twice the system response time at each traverse point.

One of three sampling point procedures will be used:

(1) If the concentration of the pollutants of interest at each traverse point are within 5 percent of the mean concentration, the gas stream is considered unstratified and a single sample point will be used.

(2) If the concentration of the pollutants of interest is within 10 percent of the mean, the gas stream is considered minimally stratified and three sampling points will be used, spaced as mentioned above.

(3) The concentration is considered stratified if the 10 percent criterion is not met. Therefore, twelve traverse points will be used.

INTERFERENCE RESPONSE (40CFR60A – M7E.8.2.7)

Vendor instrument data concerning interference response in the NO_X and O_2 analyzers will be included in the TEST REPORT APPENDICES.

RESPONSE TIME TEST (40CFR60A – 7E.8.2.6)

Response time tests are performed frequently on our sample system in conjunction with the turbine testing. The process is additionally repeated any time a material change in the sampling system or maintenance of any of the components is required. The slowest response time will be added to the sampling time of each sampling point. The response time is tested to assure that the analyzers' response is for exhaust gas entering the sample system from the sample point location.

ANALYZER CALIBRATION CHECK (40CFR60A – M7E.8.2.3)

The measurement system will be prepared for use by first introducing zero, mid, high and low range calibration gases to the NO_X CO and O_2 analyzers. Each analyzer will be set to the correct response and that response will be recorded by the data acquisition system. A calibration curve will then be established to convert each analyzers response to equivalent gas concentrations as introduced to each analyzer. This curve will remain unchanged throughout the test. The zero, mid, high and low calibration gases will then be reintroduced without adjustment to the NO_X CO and O_2 analyzers and their responses will be recorded. These responses will be considered acceptable if they are within +/- 2 percent of the span. The analyzer calibration checks sheets will be included in the TEST REPORT APPENDICES.

SAMPLE LINE LEAK CHECK

The sample line will be leak checked before and after the test by closing the calibration valve assembly while the sample pump is operating. Once the maximum vacuum is reached the valve on the pressure side of the pump will be closed (see Figure 1) thus sealing off the vacuum section of the sampling system. The leak tests for each unit will be considered acceptable if the vacuum gauge reading drops by an amount less than 1 inch of mercury over a period of 1 minute. The leak check forms will be included in the TEST REPORT APPENDICES.

SYSTEM BIAS CHECK (40CFR60A – M7E.8.2.5 & M7E.8.5)

The system bias check will be conducted once prior to the test runs and will consist of first introducing the NO_x analyzer's upscale gas directly to the analyzer. The analyzer will be allowed to stabilize and the reading noted. The same gas will then be introduced at the probe, passing through the entire sample train to the analyzer, and the reading noted. The resulting readings will indicate any bias attributed to the sample train. This process will thus be repeated with the NO_X analyzer's zero gas. The bias check will be acceptable if the direct gas reading of the analyzer is within +/- 5% of the complete sample train reading of the analyzer [per 7E.13.2].

This same procedure will be repeated for the CO and O_2 analyzer. Sample system bias check forms will be included in the compliance test report.

Bias checks before and after each test run will be used to determine a zero and span drift for the NO_x CO and O_2 analyzers. The zero and span drift for the test run period will be less than +/- 3 percent of the span value for each of the analyzers [per 7E.13.3]. The calibration forms and data sheets for each test will be included in the APPENDICES.

NO_2 TO NO CONVERSION EFFICIENCY (40CFR60A – M7E.8.2.4)

An NO_2 to NO conversion efficiency test will be performed once upon arrival at the test site or once a week when required by CFR 40 Method 20 Section 4.1.4. The conversion efficiency test will be performed as specified in Method 20 Section 5.6 of CFR 40 or using the approved EMC-ALT013 EPA procedure. The results of the conversion efficiency test will be included in the TEST REPORT APPENDICES.

CHART RECORDING

A copy of the chart recordings for the tests will be labeled and included in the TEST REPORT APPENDICES.

EMISSIONS TESTING

SAMPLE LOCATION AND SET-UP

A single point probe consisting of 3/8 inch stainless tubing open at one end will be used to collect the sample. The sampling point in the exhaust stack will be at least eight stack diameters downstream from any disturbance and at least two stack diameters upstream from any disturbances as specified in Method 1, CFR 40. If the 8 and 2 criterion cannot be met, the sample probe will be placed two stack diameters downstream from any disturbance and one-half stack diameter upstream from any disturbance or as needed to ensure a high integrity sample from the exhaust.

FUEL GAS ANALYSIS

A fuel gas sample will be taken during the testing. The sample will be analyzed by the pipeline gas chromatograph. This analysis will give the actual specific gravity and BTU so that horsepower, fuel flow, and mass emissions can be accurately calculated. The data sheet for the analysis will be included in the TEST REPORT APPENDICES.

COMPLIANCE TEST RUNS

The exhaust gases for each turbine will be sampled continuously to determine NO_X, CO and O_2 concentrations for three test runs, one hour each, at the maximum achievable load. The load developed will depend on the pipeline conditions available during the test. Other important parameters such as compressor suction and discharge pressures, compressor suction volume, compressor discharge pressure, compressor horsepower, HP turbine speed and ambient conditions will be monitored continuously.

The data acquisition system scans the analyzers ten times per second during each test run. The computer will average the outputs periodically, typically every two minutes. The raw data along with test summaries will be included in the TEST REPORT APPENDICES.

TEST REPORT

One copy of the compliance test report will be submitted to the Pima County Department of Environmental Quality within 30 days of completion of the test. The test report will follow the general outline of this test protocol. Data summaries, raw data, calibration sheets, gas analysis, operating parameters and other relevant information will be contained in the TEST REPORT APPENDICES.

Calculations

BREAK SPECIFIC EMISSIONS CALCULATIONS

The F-factor Method and guidance from Part 75 will be used to calculate the mass emission rates (lb-hr) for NO_x, CO and THC. A fuel specific F_d factor will be calculated as described in EPA Method 19, "Determination of Sulfur Dioxide Removal Efficiency and Particulate, Sulfur Dioxide and Nitrogen Oxides Emission Rates from Electric Utility Steam Generators" for natural gas. **Equation 2** will be used to determine the emissions rates.

$$Em = Cd \times Fd \times \frac{20.9}{(20.9 - \%O_2)} \times Qh \times \frac{GCV}{10^6}$$

Equation 2: Break Specific Emission Rate (lb-hr)

Nomenclature:

E_m: Pollutant emission rate, g/BHP-hr

C_d: Pollutant concentration, lb/scf

F_d: Fuel specific F-factor for dry C_d measurement, dscf per 10^6 BTU

$\%O_2$: Oxygen concentration in percent, measured on a dry basis

Q_h: Fuel rate from calibrated AGA specified meter, scfh

GCV: Heating value of the fuel, BTU/scf

The conversion factors in **Table 3** are to be used to correct the pollutant concentration in ppm to lb/scf:

Table 3: Unit Conversion Factors

To Convert from:	To	Multiply by:
ppm CO	lb/scf	7.268×10^{-8}
ppm NO_x	lb/scf	1.194×10^{-7}

EPA F-FACTOR

Equation 3 is used to determine the EPA fuel specific F-factor.

$$F_d = \frac{\left[(3.64 \cdot H_{Wt\%} \cdot 100) + (1.53 \cdot C_{Wt\%} \cdot 100) + (0.14 \cdot N_{2Wt\%} \cdot 100) - (0.46 \cdot O_{2Wt\%} \cdot 100)\right]}{\frac{GCV}{\rho_{FuelGas}}} \cdot 10^6$$

Equation 3: Fuel specific F-factor

Nomenclature:

F_d:	Fuel specific F-factor, dscf/MMBTU
$H_{Wt\%}$:	Hydrogen weight percent
$C_{Wt\%}$:	Carbon weight percent
$N_{2Wt\%}$:	Nitrogen weight percent
$O_{2Wt\%}$:	Oxygen weight percent
GCV:	Heating value of the fuel, BTU/dscf
$\rho_{Fuel\ Gas}$:	Density of the fuel gas, lb/scf

FUEL FLOW

For fuel flow measured with an orifice plate installed on the fuel line leading to the engine, differential pressure, line pressure, and temperature will be monitored and flow calculated. Equation 6, 7 and 8 below depict the manner in which the flow will be calculated.[1]

$$C' = Fb \times Fpb \times Fg \times Ftf \times Fr \times Y2 \times Fpv \times Fm$$

Equation 4: Orifice Flow Constant

$$Qh = C' \times \sqrt{hw \times Pf}$$

Equation 5: Flow Quantity (ft³/hr)

$$Q_{tm} = Qh \div 60$$

Equation 6: Flow Quantity (ft³/min)

Nomenclature:

Q_h:	Quantity of flow at base conditions, ft.³/hr	F_{tf}:	Flowing temperature factor
Q_{tm}:	Quantity of flow at base conditions, SCFM	F_r:	Reynolds number factor
C':	Orifice flow constant	Y_2:	Expansion factor (pressure from downstream tap)
F_b:	Basic orifice flow factor	F_{pv}:	Super compressibility factor
F_{pb}:	Pressure base factor	F_m:	Manometer factor
F_{tb}:	Temperature base factor	H_w:	Differential pressure in inches of water
F_g:	Specific gravity factor	P_f:	Static pressure, psia

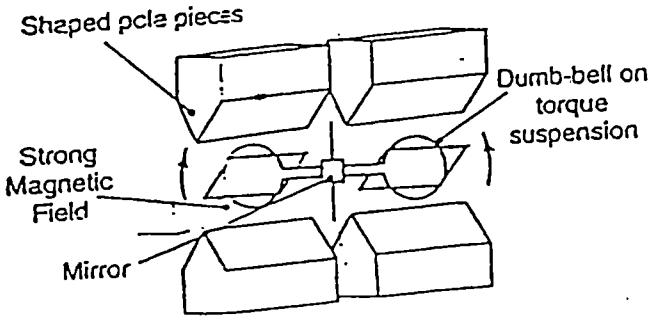
[1] Beck, H.V. Orifice Meter Constants, Handbook E-2. American Meter Company, 1955. Based on AGA Report No. 3.

Interference Response Certificates

THE EFFECT OF VARIATIONS IN SAMPLE COMPOSITIONS ON SERVOMEX MAGNETO-DYNAMIC OXYGEN ANALYSERS

Servomex
LEADERS IN GAS ANALYSIS

Figure 1



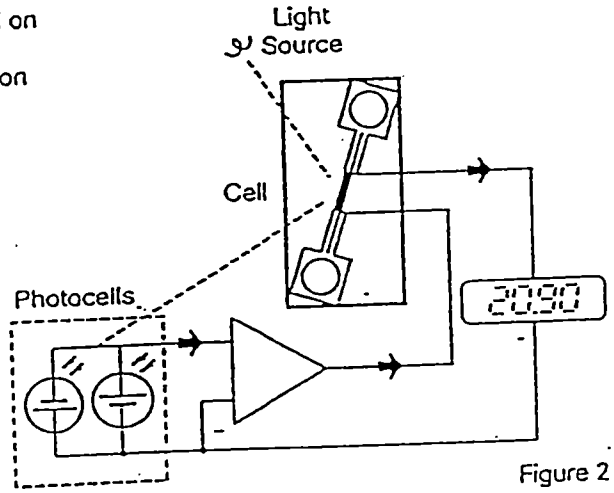


Figure 2

Oxygen is very strongly paramagnetic, ie attracted into a magnetic field. Virtually all other gases are weakly diamagnetic, i.e. repelled from a magnetic field.

In the Servomex magneto-dynamic measuring cell (Figure 1), oxygen molecules are attracted into a very strong magnetic field. This causes the deflection of a dumb-bell, mounted on a torque suspension, from its null (i.e. zero) position. This deflection is detected optically and a current is applied to a coil round the dumb-bell which restores it to the null position. The current required to do this is directly proportional to the oxygen concentration (see Figure 2).

Servomex oxygen analysers are calibrated on a scale which is normalised for nitrogen at 0 and oxygen at 100.

For the highest accuracy it is necessary to correct for the zero error of the background gas in the sample.

The paramagnetic effect varies with temperature. The following tables list measuring cell temperatures of 20°C (for analysers with unheated cells), 50°C (540 range), 60°C (1100A) and 110°C (1100H). Other values can be found by interpolation.

Assuming the following composition, and the analysis at 50°C:

10% CO_2	$-0.29 \times 10^{-2} \times 10$	$= -0.029$
5% CO	$+0.07 \times 10^{-2} \times 5$	$= +0.004$
5% n-Octane	$-2.70 \times 10^{-2} \times 5$	$= -0.135$
78% N_2	$+0.00 \times 10^{-2} \times 78$	$= 0.000$
	Effect of background gas	$= -0.160\%\ O_2$

This effect can be corrected by zeroing and spanning the analyser in the usual way and then offsetting the zero by $-(-0.16) = +0.16\%\ O_2$.

For gases not listed in the table, standard tables of volume magnetic susceptibility can be consulted and the relative magnetic susceptibility obtained from:

$$\frac{K_g - K_n}{K_o - K_n}$$

Where:

K_g = Volume magnetic susceptibility of gas

K_n = Volume magnetic susceptibilty of nitrogen

K_o = Volume magnetic susceptibility of oxygen

NB: Nitrogen dioxide is significantly paramagnetic. As it exists in thermal equilibrium with dinitrogen tetroxide, which is weakly diamagnetic, its effect varies markedly with temperature.

: 1: Volume Magnetic Susceptibility of Gases (normalised for nitrogen at 0 and oxygen at 100)

	Formula	Molar mag.susc $\times 10^{-6}$	Zero Error 20°C x 0.01%	50°C x 0.01%	60°C x 0.01%	110°C x 0.01%
taldehyde	CH_3CHO	−22.70	−0.31	−0.34	−0.35	−0.40
tic acid	CH_3CO_2H	−31.50	−0.56	−0.62	−0.64	−0.74
tone	CH_3COCH_3	−33.70	−0.63	−0.69	−0.71	−0.82
tylene	$HCCH$	−20.80	−0.25	−0.28	−0.29	−0.33
ylonitrile	$CH_2{=}CHCN$	−24.10	−0.35	−0.39	−0.40	−0.46
l alcohol	CH_2CHCH_2OH	−36.70	−0.71	−0.79	−0.81	−0.93
monia	NH_3	−18.00	−0.17	−0.19	−0.20	−0.23
gon	Ar	−19.60	−0.22	−0.24	−0.25	−0.29
nzene	C_6H_6	−54.84	−1.24	−1.36	−1.41	−1.52
ron chloride	BCl_3	−59.90	−1.38	−1.53	−1.57	−1.31
ron trifluoride	BF_3	−19.00	−0.20	−0.22	−0.23	−0.26
omine	Br_2	−73.50	−1.78	−1.96	−2.02	−2.32
2 Butadiene	C_4H_6	−35.60	−0.68	−0.75	−0.77	−0.89
3 Butadiene	C_4H_6	−30.60	−0.54	−0.59	−0.61	−0.70
Butane	C_4H_{10}	−50.30	−1.11	−1.22	−1.26	−1.45
o-Butane	$(CH_3)_2CHCH_2$	−51.70	−1.15	−1.26	−1.30	−1.50
Butene	$CH_3CH_2CH{=}CH_2$	−41.10	−0.84	−0.93	−0.96	−1.10
Butyl acetate	$CH_3COOC_4H_9$	−77.50	−1.89	−2.09	−2.15	−2.47
o-Butylene	$(CH_3)_2CH{=}CH_2$	−44.40	−0.94	−1.03	−1.06	−1.22
Butyne (Ethylacetylene)	$CH_3C_3H_2$	−43.50	−0.91	−1.00	−1.03	−1.19
arbon dioxide	CO_2	−21.00	−0.26	−0.29	−0.30	−0.34
arbon disulphide	CS_2	−42.20	−0.87	−0.96	−0.99	−1.14
arbon monoxide	CO	−9.80	0.06	0.07	0.07	0.08
arbon tetrachloride	CCl_4	−66.60	−1.58	−1.74	−1.79	−2.06
arbon tetrafluoride	CF_4	−31.20	−0.55	−0.61	−0.63	−0.72
hlorine	Cl_2	−40.50	−0.82	−0.91	−0.94	−1.08
hloro ethanol	$ClCH_2CH_2OH$	−51.40	−1.14	−1.25	−1.29	−1.49
hloroform	$CHCl_3$	−59.30	−1.37	−1.51	−1.55	−1.78
umene	$(CH_3)_2CHC_6H_5$	−89.53	−2.24	−2.47	−2.55	−2.93
yclohexane	C_6H_{12}	−68.13	−1.62	−1.79	−1.84	−2.12
yclopentane	C_5H_{10}	−59.18	0.35	0.38	0.39	0.45
yclopropane	C_3H_6	−39.90	−0.81	−0.89	−0.92	−1.05
Diacetylene	C_4H_2	−37.50	−0.74	−0.81	−0.84	−0.96
Dichloroethylene	$(CHCl)_2$	−49.20	−1.07	−1.18	−1.22	−1.40
Diethyl ether	$(C_2H_5)_2O$	−55.10	−1.25	−1.37	−1.41	−1.63
2,2 Difluoro 1 chloroethane	$CClH_2CHF_2$	−52.40	−1.17	−1.29	−1.33	−1.52
1,2 Difluoro 1,2 dichloroethylene	$CFCl{=}CFCl$	−60.00	−1.39	−1.53	−1.58	−1.81
Difluoro dichloro methane (Freon 12)	CCl_2F_2	−52.20	−1.16	−1.28	−1.32	−1.52
Dimethoxy methane	$CH_2(OCH_3)_2$	−47.30	−1.02	−1.12	−1.16	−1.33
Dimethylamine	$(CH_3)_2NH$	−39.90	−0.81	−0.89	−0.92	−1.05
Dimethylether	CH_3OCH_3	−26.30	−0.41	−0.46	−0.47	−0.54
Dimethylethylamine	$(CH_3)_2NC_2H_5$	−63.60	−1.49	−1.64	−1.69	−1.95
Enflurane (Ethrane)	$C_3H_2F_5ClO$	−80.10	−1.97	−2.17	−2.24	−2.57
Ethane	C_2H_6	−26.80	−0.43	−0.47	−0.49	−0.56
Ethanol	C_2H_5OH	−33.60	−0.62	−0.69	−0.71	−0.82
Ethyl acetate	$CH_3COOC_2H_5$	−54.20	−1.22	−1.34	−1.39	−1.59
Ethyl amine	$C_2H_5NH_2$	−39.90	−0.81	−0.89	−0.92	−1.05
Ethyl benzene	$C_6H_5C_2H_5$	−77.20	−1.88	−2.08	−2.14	−2.46
Ethyl bromide	C_2H_5Br	−54.70	−1.23	−1.36	−1.40	−1.61
Ethyl chloride	C_2H_5Cl	−46.00	−0.98	−1.08	−1.12	−1.28
Ethylene	C_2H_4	−18.90	−0.20	−0.22	−0.22	−0.26

Gas	Formula	Molar mag.susc x 10^{-6}	Zero Error 20°C x 0.01%	50°C x 0.01%	60°C x 0.01%	110°C x 0.01%
Ethylene glycol	$(CH_2OH)_2$	−38.80	−0.77	−0.85	−0.88	−1.01
Ethylene oxide	$(CH_2)_2O$	−30.70	−0.54	−0.60	−0.61	−0.71
Ethyl mercaptan	$C_2H_5OSO_3H$	−47.00	−1.01	−1.11	−1.15	−1.32
Fluorochlorobromomethane	CFClBr	−58.00	−1.33	−1.46	−1.51	−1.74
Fluorodichloromethane (Freon 21)	$CHCl_2F$	−48.80	−1.06	−1.17	−1.21	−1.39
Fluroxene	$CF_3CH_2OCHCH_2$	−56.70	−1.29	−1.42	−1.47	−1.69
Freon 114	$C_2Cl_2F_4$	−77.40	−1.89	−2.08	−2.15	−2.47
Furan	C_4H_4O	−43.09	−0.90	−0.99	−1.02	−1.17
Germanium tetrachloride	$GeCl_4$	−72.00	−1.73	−1.91	−1.97	−2.26
Halothane	$C_2HBrClF_3$	−78.80	−1.93	−2.13	−2.19	−2.52
Helium	He	−1.88	0.29	0.32	0.33	0.38
n-Heptane	C_7H_{16}	−85.24	−2.12	−2.33	−2.40	−2.76
n-Hexane	C_6H_{14}	−73.60	−1.78	−1.96	−2.02	−2.32
Hydrogen	H_2	−3.98	0.23	0.26	0.26	0.30
Hydrogen bromide	HBr	−35.30	−0.67	−0.74	−0.76	−0.88
Hydrogen chloride	HCl	−22.60	−0.31	−0.34	−0.35	−0.40
Hydrogen cyanide	HCN	−14.50	−0.07	−0.08	−0.08	−0.09
Hydrogen iodide	HI	−48.20	−1.05	−1.15	−1.19	−1.37
Hydrogen selenide	H_2Se	−39.20	−0.79	−0.87	−0.89	−1.03
Hydrogen sulphide	H_2S	−25.50	−0.39	−0.43	−0.44	−0.51
Isoflurane (Forane)	$C_3H_2F_5ClO$	−80.10	−1.97	−2.17	−2.24	−2.57
Isoprene	C_5H_8	−44.80	−0.95	−1.04	−1.08	−1.24
Ketene	CH_2CO	−15.70	−0.11	−0.12	−0.12	−0.14
Krypton	Kr	−28.80	−0.49	−0.54	−0.55	−0.63
Methane	CH_4	−17.40	−0.16	−0.17	−0.18	−0.20
Methanol	CH_3OH	−21.40	−0.27	−0.30	−0.31	−0.35
Methoxyfluorane	$CHCl_2CF_2OCH_3$	−87.10	−2.17	−2.39	−2.47	−2.83
Methyl acetate	CH_3COCH_3	−42.60	−0.88	−0.97	−1.00	−1.15
Methyl cyclopentane	C_6H_{12}	−70.20	−1.68	−1.85	−1.91	−2.20
Methylene chloride	CH_2Cl_2	−46.60	−1.00	−1.10	−1.14	−1.31
Methylethlyketone	$CH_3COCH_2CH_3$	−45.50	−0.97	−1.07	−1.10	−1.26
Methyl fluoride	CH_3F	−25.50	−0.39	−0.43	−0.44	−0.51
Methyl formate	$HCOOCH_3$	−32.00	−0.58	−0.64	−0.66	−0.75
Methyl iodide	CH_3I	−57.20	−1.31	−1.44	−1.45	−1.71
Methyl iso-butyl ketone (MIBK)	$C_4H_9COCH_3$	−69.30	−1.66	−1.82	−1.88	−2.16
Methyl mercaptan	CH_3SH	−35.30	−0.67	−0.74	−0.76	−0.88
Molybdenum hexafluoride	MoF_6	−26.00	−0.40	−0.45	−0.46	−0.53
Monochlorobenzene	C_6H_5Cl	−70.00	−1.68	−1.85	−1.90	−2.19
Neon	Ne	−6.70	0.15	0.17	0.17	0.20
Nitric oxide	NO	1461.00	42.56	42.96	42.54	41.62
Nitrobenzene	$C_6H_5NO_2$	−61.80	−1.44	−1.59	−1.53	−1.88
Nitrogen	N_2	−12.00	0.00	0.00	0.00	0.00
Nitrogen dioxide	NO_2	150.00	5.00	16.00	20.00	35.00
ortho-Nitrotoluene	$C_6H_4CH_3NO_2$	−72.30	−1.74	−1.92	−1.98	−2.28
para-Nitrotoluene	$C_6H_4CH_3NO_2$	−76.90	−1.88	−2.07	−2.13	−2.45
Nitrous oxide	N_2O	−18.90	−0.20	−0.22	−0.23	−0.26
n-Nonane	C_9H_{20}	−108.13	−2.78	−3.06	−3.16	−3.63
n-Octane	C_8H_{18}	−96.63	−2.45	−2.70	−2.78	−3.19
Oxygen	O_2	3449.00	100.00	100.00	100.00	100.00
Ozone	O_3	6.70	0.54	0.60	0.61	0.71
iso-Pentane	C_5H_{12}	−64.40	−1.51	−1.67	−1.72	−1.98
n-Pentane	C_5H_{12}	−63.10	−1.48	−1.63	−1.68	−1.93

Gas	Formula	Molar mag.susc x 10^{-6}	Zero Error 20°C x 0.01%	50°C x 0.01%	60°C x 0.01%	110°C x 0.01%
Phenol	C_6H_5OH	−60.21	−1.39	−1.54	−1.58	−1.82
Phosphine	PH_3	−26.00	−0.40	−0.45	−0.46	−0.53
Phosphorous oxychloride	$POCl_3$	−69.00	−1.65	−1.82	−1.87	−2.15
Propane	C_3H_8	−38.60	−0.77	−0.85	−0.87	−1.00
iso-Propanol	$(CH_3)_2CHOH$	−47.60	−1.03	−1.13	−1.17	−1.34
Propene	$CH_3CH{=}CH_2$	−31.50	−0.56	−0.62	−0.64	−0.74
n-Propyl acetate	$CH_3COOC_3H_7$	−65.90	−1.56	−1.72	−1.77	−2.03
Propyl amine	$C_3H_7NH_2$	−52.40	−1.17	−1.29	−1.33	−1.52
Propyl chloride	C_3H_7Cl	−56.10	−1.27	−1.40	−1.45	−1.66
Propylene	C_3H_6	−31.50	−0.56	−0.62	−0.64	−0.74
Propylene oxide	OCH_2CHCH_3	−42.50	−0.88	−0.97	−1.00	−1.15
iso-Propyl ether	$(CH_3)_4CHOCH$	−79.40	−1.95	−2.15	−2.21	−2.54
Propyl fluoride	C_3H_7F	−52.20	−1.16	−1.28	−1.32	−1.52
Pyridine	$N(CH)_5$	−49.21	−1.08	−1.19	−1.22	−1.40
Silane	SiH_4	−20.50	−0.25	−0.27	−0.28	−0.32
Silicon tetrachloride	$SiCl_4$	−88.30	−2.20	−2.43	−2.50	−2.88
Styrene	$C_6H_5CH{=}CH_2$	−68.20	−1.62	−1.79	−1.85	−2.12
Sulphur dioxide	SO_2	−18.20	−0.18	−0.20	−0.20	−0.23
Sulphur hexafluoride	SF_6	−44.00	−0.92	−1.02	−1.05	−1.21
Tetrachoroethylene	$Cl_2C{=}CCl_2$	−81.60	−2.01	−2.22	−2.28	−2.63
Tetrahydrofuran	C_4H_8O	−52.00	−1.16	−1.27	−1.31	−1.51
Toluene	$C_6H_5CH_3$	−66.11	−1.56	−1.72	−1.78	−2.04
1,1,2 Trichloroethane (Freon 113)	$CHCl_2CH_2Cl$	−66.20	−1.57	−1.73	−1.78	−2.05
Trichloroethylene	$CHCl{=}CCl_2$	−65.80	−1.55	−1.71	−1.77	−2.03
Trifluorochloroethylene	C_2F_3Cl	−49.10	−1.07	−1.18	−1.22	−1.40
Trimethylamine	$(CH_3)_3N$	−51.70	−1.15	−1.26	−1.30	−1.50
Tungsten fluoride	WF_6	−40.00	−0.81	−0.89	−0.92	−1.06
Urethane	$CO(NH_2)OC_2H_5$	−57.00	−1.30	−1.43	−1.48	−1.70
Vacuum	—	0.00	0.35	0.38	0.39	0.45
Vinyl bromide	$CH_2{=}CHBr$	−44.80	−0.95	−1.04	−1.08	−1.24
Vinyl chloride	$CH_2{=}CHCl$	−35.60	−0.68	−0.75	−0.77	−0.89
Vinyl fluoride	$CH_2{=}CHF$	−28.80	−0.49	−0.54	−0.55	−0.63
Water	H_2O	−13.00	−0.03	−0.03	−0.03	−0.04
Xenon	Xe	−43.90	−0.92	−1.02	−1.05	−1.20
Xylene	$(CH_3)_2C_6H_4$	−77.78	−1.90	−2.09	−2.16	−2.48

Servomex has a policy of constant product improvement and therefore reserves the right to change specifications without notice.

Servomex

LEADERS IN GAS ANALYSIS

Certificate No. _____ CS166
ISO 9001 (1987)

Servomex plc, Jarvis Brook, Crowborough, East Sussex, TN6 3DU, England — Tel (44) 1892 652181, Fax (44) 1892 662253
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Servomex S.A.R.L., 8 Rue Proudhon, B.P. 50, 93212 La Plaine St Denis, France — Tel (33) 1-48.20.53.22, Fax (33) 1-48.20.63.58
Servomex B.V., PO Box 408, 2700 AK Zoetermeer, Stephensonstraat 20, 2723 RH Zoetermeer, Netherlands — Tel (31) 79-41 71 41, Fax (31) 79-42 08 13
Servomex Asia/Pacific Ltd, SF-4, No. 225 Chang Chun Road, Taipei, Taiwan, R.O.C. — Tel (886) 2-718 0331, Fax (886) 2-712 0653
CNTIC-Servomex Technical Centre, No.2 Sheng Gu Zhuang, Chaoyang Area Beijing, China, PO Box 9621, Beijing, Post Code 100029 — Tel (86) 1-426-2911, 2101, Fax (86) 1-425-3654
Servomex Anale Environmental Protection Ltd, Unit 4/5, Wainstones Court, Stokesley, Middlesbrough, Cleveland TS9 5JY, England — Tel (44) 1642 711400, Fax (44) 1642 712900

INTERFERENCE RESPONSE TEST

DATE OF TEST APRIL 20, 1993

ANALYZER TYPE 42H Range 0-10 PPM SERIAL NO. 42H-43536 - 268

TEST GAS TYPE	CONCENTRATION PPM	ANALYZER OUTPUT RESPONSE
CO	480	<.1 PPM
SO_2	225	<.1 PPM
CO_2	10%	<.1 PPM
O_2	20.9%	<.1 PPM

INTERFERENCES on 951, NGA2000-CLD, and Michael Rieths tests with and without 650 nm optical filter.

Test 1. 951 CLD interference Tests

NOTE: ethylene and propylene show some interference but slight. Thanhs study shows clear interference but it was run at concentrations for ethylene and propylene that were 10X higher than here, and that alone fits the differences in magnitude. Another difference is that these tests were run with the 951 which has a 650 nm cut-off optical filter, whereas Thanh's test were on the NGA2000.

Substance	Concentration	NOx Equivalent
Ammonia	1000 ppm	< 0.1 ppm
Oxygen	21% in N2	0.0 ppm
Carbon Dioxide	16%	0.0 ppm
Carbon Monoxide	50%	0.0 ppm
Ethylene	1000 ppm	<2 ppm
Propylene	1000 ppm	<2 ppm
Benzene	3000 ppm	<2 ppm
N2O	100 %	0.4 ppm
Sulfur Dioxide	200 ppm	<0.2 ppm
Methane	1 %	< 0.1 ppm

Test 2: Interference from various components on NGA2000-CLD were tested by L. Khong (1991) and also by T. Tran (1994).

Interference Gases (in N2)	Concentration	NO Mode Reading (ppm)	NOx Mode Reading (ppm) (by L.Khong)
Sulfur Dioxide	200 ppm		0.2
Carbon Monoxide	500 ppm		0.0
Carbon Dioxide	10 %		0.0
Oxygen	21 %		0.0

Interference Gases (in N2)	Concentration	NO Mode Reading (ppm)*	NOx Mode Reading (ppm)* (by T.Tran)
Methane (CH4)	1%	<0.1	<0.1
Ethane (C2H6)	1%	<0.1	<0.1
Propane (C3H8)	1%	0.3	0.5
Ethylene (C2H4)	1%	14.50	14.72
Propylene (C3H6)	1%	30.75	31.25
Ethanol (CH3OH)	1%	0.75	1.3
Ammonia (NH3)	1000 ppm	<0.1	<0.1
Ammonia (NH3)	1%	0.36	0.44
Nitrous Oxide (N2O)	100%	0.32	0.40

- NOTE 1: The analyzer noise level is 1%FS or 0.1 ppm
- NOTE 2: Ethylene and Propylene show interference here, but not as much in an older test. Earlier test was on a 951 with the 650 nm cut-off optical filter, whereas this test was on NGA w/o optical filter. For CEMS and ICEE applications this would make no difference, since these two substances would not be present.

Test 3: Michael Rieth, with and without optical filter

Test (7/20/05) by Michael Rieth in Germany with and without red optical filter in front of detector, using NGA 2000-CLD analyzer. Same results whether NO or NOx mode.

Supplied gas	w/o filter	with filter
100 % CH4	0.1 ppm	0.1 ppm
100 % C2H4	26.1 ppm	11.56 ppm
100 % C3H6	134 ppm	40.5 ppm

Calibration Gas Certificates

Scott Specialty Gases AIR LIQUIDE

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AIR LIQUIDE AMERICA SPECIALTY GASES LLC
9810 BAY AREA BLVD, PASADENA, TX 77507 Phone: 281-474-5800 Fax: 281-474-5857

Dual-Analyzed Calibration Standard

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory
SCOTT SPECIALTY GASES
9810 BAY AREA BLVD
PASADENA, TX 77507

P.O. No.: CC 020106 MG
Project No.: 04 -42081 -001

Customer
EL PASO ENERGY
MIKE GUERRA
16951 JFK BLVD
HOUSTON TX 77032

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: ALM054750 **Certification Date:** 06Mar2006 **Exp. Date:** 06Mar2009
Cylinder Pressure*:** 2000 PSIG

COMPONENT	CERTIFIED CONCENTRATION (Moles)	ANALYTICAL ACCURACY**	TRACEABILITY
CARBON DIOXIDE	21.5 %	+/- 1%	Direct NIST and
OXYGEN	21.0 %	+/- 1%	Direct NIST and
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.

REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMPO
NTRM 1675	04Jul2008	K011090	13.93 %	CARBON
NTRM 2350	01May2009	K003567	23.48 %	OXYGEN

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
MTIA/M200/171109	03Feb2006	GAS CHROMATOGRAPHY
SERVOMEX/MODEL 244A/701/716	06Mar2006	PARAMAGNETIC

ANALYZER READINGS

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

First Triad Analysis
CARBON DIOXIDE
Date: 03Mar2006
Z1=0.00000 R1=88392.00 T1=135534.0
R2=88347.00 Z2=0.00000 T2=135595.0
Z3=0.00000 T3=135520.0 R3=88449.00
Avg. Concentration: 21.48 %
OXYGEN
Date: 06Mar2006 Response Unit: VOLTS
Z1=0.00000 R1=0.98500 T1=0.88240
R2=0.98500 Z2=0.00000 T2=0.88290
Z3=0.00000 T3=0.88330 R3=0.98490
Avg. Concentration: 21.03 %

Second Triad Analysis

Calibration Curve

Concentration=A+Bx+Cx2+Dx3+Ex4
r=0.9999837
Constants: A=-0.08192992
B=0.00015842 C=
D= E=

Concentration=A+Bx+Cx2+Dx3+Ex4
r=0.9999996
Constants: A=0.001121951
B=23.83661163 C=
D= E=

QUALITY ASSURANCE

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Dual-Analyzed Calibration Standard

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory
SCOTT SPECIALTY GASES
9810 BAY AREA BLVD
PASADENA, TX 77507

P.O. No.: 10.18.07 HF
Project No.: 04 -58762 -007

Customer
EL PASO ENERGY
HEIDI FRANKLIN
16951 JFK BLVD
HOUSTON TX 77032

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: ALM036805 **Certification Date:** 09Nov2007 **Exp. Date:** 09Nov2010
Cylinder Pressure*:** 1950 PSIG

COMPONENT	CERTIFIED CONCENTRATION (Moles)	ANALYTICAL ACCURACY**	TRACEABILITY
CARBON DIOXIDE	12.1 %	+/- 1%	Direct NIST and
OXYGEN	12.1 %	+/- 1%	Direct NIST and
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.

REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMPO
NTRM 1675	04Jul2008	K001494	13.93 %	CARBON
NTRM 2350	01May2009	K003567	23.48 %	OXYGEN

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
MTIA/M200/171109	23Oct2007	GAS CHROMATOGRAPHY
SERVOMEX/MODEL 244A/701/716	24Oct2007	PARAMAGNETIC

ANALYZER READINGS

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

First Triad Analysis
CARBON DIOXIDE
Date: 09Nov2007 Response Unit: AREA
Z1=0.00000 R1=1063080. T1=919073.0
R2=1063993. Z2=226.0000 T2=919292.0
Z3=246.0000 T3=919195.0 R3=1064196.
Avg. Concentration: 12.07 %
OXYGEN
Date: 12Nov2007 Response Unit: VOLTS
Z1=0.00000 R1=0.98870 T1=0.51060
R2=0.98850 Z2=0.00010 T2=0.51010
Z3=0.00010 T3=0.51010 R3=0.98870
Avg. Concentration: 12.11 %

Second Triad Analysis

Calibration Curve

Concentration=A+Bx+Cx2+Dx3+Ex4
r=0.9999949
Constants: A=-.028788
B=.0000131805 C=
D= E=

Concentration=A+Bx+Cx2+Dx3+Ex4
r=0.9999998
Constants: A=.003347709
B=23.82226956 C=
D= E=

QUALITY ASSURANCE

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Dual-Analyzed Calibration Standard

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory
SCOTT SPECIALTY GASES
9810 BAY AREA BLVD
PASADENA, TX 77507

P.O. No.: CREDIT CARD
Project No.: 04 -45947 -010

Customer
EL PASO ENERGY
JON TICE
16951 JFK BLVD
HOUSTON TX 77032

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: ALM047098 **Certification Date:** 03Aug2006 **Exp. Date:** 03Aug2009
Cylinder Pressure*:** 2000 PSIG

COMPONENT	CERTIFIED CONCENTRATION (Moles)	ANALYTICAL ACCURACY**	TRACEABILITY
CARBON DIOXIDE	6.02 %	+/- 1%	Direct NIST and
OXYGEN	5.79 %	+/- 1%	Direct NIST and
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.

REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMPO
NTRM 1674	03Apr2007	ALM000226	7.080 %	CARBON
NTRM 2658	02Oct2006	ALM065055	9.930 %	OXYGEN

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
MTIA/M200/171109	14Jul2006	GAS CHROMATOGRAPHY
SERVOMEX/MODEL 244A/701/716	14Jul2006	PARAMAGNETIC

ANALYZER READINGS

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

First Triad Analysis
CARBON DIOXIDE
Date: 03Aug2006
Z1=0.00000 R1=46626.00 T1=39583.00
R2=46662.00 Z2=0.00000 T2=39570.00
Z3=0.00000 T3=39546.00 R3=46680.00
Avg. Concentration: 6.020 %
OXYGEN
Date: 03Aug2006 Response Unit: VOLTS
Z1=0.00000 R1=0.99310 T1=0.57100
R2=0.99330 Z2=0.00080 T2=0.57190
Z3=0.00140 T3=0.57240 R3=0.99450
Avg. Concentration: 5.738 %

Second Triad Analysis

Calibration Curve

Concentration=A+Bx+Cx2+Dx3+Ex4
r=0.9999816
Constants: A=-0.06144294
B=0.000153783 C=
D= E=

Concentration=A+Bx+Cx2+Dx3+Ex4
r=0.9999830
Constants: A=0.020301242
B=10.01092325 C=
D= E=

QUALITY ASSURANCE

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9810 BAY AREA BLVD, PASADENA, TX 77507 Phone: 281-474-5800 Fax: 281-474-5857

Dual-Analyzed Calibration Standard

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory
SCOTT SPECIALTY GASES
9810 BAY AREA BLVD
PASADENA, TX 77507

P.O. No.: CC 12.29.06
Project No.: 04 -50788 -005

Customer
EL PASO ENERGY

16951 JFK BLVD
HOUSTON TX 77032

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: ALM038374 **Certification Date:** 09Jan2007 **Exp. Date:** 08Jan2009
Cylinder Pressure*:** 1793 PSIG

COMPONENT	CERTIFIED CONCENTRATION (Moles)	ANALYTICAL ACCURACY**	TRACEABILITY
NITRIC OXIDE	101 PPM	+/- 1%	Direct NIST ar
NITROGEN - OXYGEN FREE	BALANCE		
TOTAL OXIDES OF NITROGEN	101. PPM		Reference Valu

*** Do not use when cylinder pressure is below 150 psig.
** Analytical accuracy is based on the requirements of EPA Protocol Procedure G1, September 1997.

REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMP
NTRM 1684	01Jun2009	AAL070662	98.40 PPM	NITRIC

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
FTIR//1602651	28Dec2006	FTIR

ANALYZER READINGS

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

First Triad Analysis
NITRIC OXIDE
Date: 08Dec2004 Response Unit: PPM
Z1=0.08301 R1=95.74370 T1=100.3301
R2=96.07630 Z2=0.09110 T2=100.4419
Z3=0.13480 T3=101.2441 R3=96.32540
Avg. Concentration: 101.0 PPM

Second Triad Analysis
Date: 09Jan2007 Response Unit: PPM
Z1=-0.42197 R1=97.52399 T1=100.0360
R2=97.67213 Z2=0.40477 T2=100.0418
Z3=0.48898 T3=100.8094 R3=99.19093
Avg. Concentration: 100.6 PPM

Calibration Curve
Concentration=A+Bx+Cx2+Dx3+Ex4
r=9.99992E-1
Constants: A=0.00000E+0
B=9.76217E-1 C=2.16000E-4
D=0.00000E+0 E=0.00000E+0

Special Notes:
Recert

QUALITY ASSURANCE

APPROVED BY: Tom Nguyen
(signature on file)

Scott Specialty Gases AIR LIQUIDE

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AIR LIQUIDE AMERICA SPECIALTY GASES LLC
9810 BAY AREA BLVD, PASADENA, TX 77507 Phone: 281-474-5800 Fax: 281-474-5857

Dual-Analyzed Calibration Standard

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory
SCOTT SPECIALTY GASES
9810 BAY AREA BLVD
PASADENA, TX 77507

P.O. No.: Credit Card
Project No.: 04 -47418 -003

Customer
EL PASO ENERGY
HEIDI FRANKLIN
16951 JFK BLVD
HOUSTON TX 77032

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: AAL069554 **Certification Date:** 18Sep2006 **Exp. Date:** 17Sep2008
Cylinder Pressure*:** 1998 PSIG

COMPONENT	CERTIFIED CONCENTRATION (Moles)	ANALYTICAL ACCURACY**	TRACEABILITY
NITRIC OXIDE	51.2 PPM	+/- 1%	Direct NIST ar
NITROGEN - OXYGEN FREE	BALANCE		
TOTAL OXIDES OF NITROGEN	51.2 PPM		Reference Valu

*** Do not use when cylinder pressure is below 150 psig.
** Analytical accuracy is based on the requirements of EPA Protocol Procedure G1, September 1997.

REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMP
NTRM 1683	15Aug2009	AAL070185	49.82 PPM	NITRIC

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
FTIR//1602651	14Sep2006	FTIR

ANALYZER READINGS

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

First Triad Analysis
NITRIC OXIDE
Date: 11Sep2006 Response Unit: PPM
Z1=-0.04148 R1=50.10315 T1=51.41611
R2=50.17285 Z2=0.02903 T2=51.47378
Z3=0.02921 T3=51.57920 R3=50.21920
Avg. Concentration: 51.13 PPM

Second Triad Analysis
Date: 18Sep2006 Response Unit: PPM
Z1=-0.11874 R1=49.85891 T1=51.41634
R2=50.04545 Z2=-0.00334 T2=51.51800
Z3=0.02201 T3=51.53990 R3=50.10036
Avg. Concentration: 51.30 PPM

Calibration Curve
Concentration=A+Bx+Cx2+Dx3+Ex4
r=9.99997E-1
Constants: A=0.00000E+0
B=9.86988E-1 C=1.74000E-4
D=0.00000E+0 E=0.00000E+0

QUALITY ASSURANCE

APPROVED BY: Lara Nash
(signature on file)

Scott Specialty Gases AIR LIQUIDE

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AIR LIQUIDE AMERICA SPECIALTY GASES LLC
9810 BAY AREA BLVD, PASADENA, TX 77507 Phone: 281-474-5800 Fax: 281-474-5857

Dual-Analyzed Calibration Standard

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory
SCOTT SPECIALTY GASES
9810 BAY AREA BLVD
PASADENA, TX 77507

P.O. No.: CC 09.21.06 HF
Project No.: 04 -48349 -001

Customer
EL PASO ENERGY

16951 JFK BLVD
HOUSTON TX 77032

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: 1L1048 **Certification Date:** 18Oct2006 **Exp. Date:** 18Oct2008
Cylinder Pressure*:** 2000 PSIG

COMPONENT	CERTIFIED CONCENTRATION (Moles)	ANALYTICAL ACCURACY**	TRACEABILITY
NITRIC OXIDE	25.5 PPM	+/- 1%	Direct NIST ar
NITROGEN - OXYGEN FREE	BALANCE		
TOTAL OXIDES OF NITROGEN	25.9 PPM		Reference Valu

*** Do not use when cylinder pressure is below 150 psig.
** Analytical accuracy is based on the requirements of EPA Protocol Procedure G1, September 1997.

REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMP
NTRM 2629	15Aug2009	KAL003041	19.83 PPM	NITRIC

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
NOX ANALYZER/400-CLD/7M07001	26Sep2006	CHEMI

ANALYZER READINGS

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

First Triad Analysis
NITRIC OXIDE
Date: 11Oct2006
Z1=0.00000 R1=20.00000 T1=25.58000
R2=20.00000 Z2=0.00000 T2=25.68000
Z3=0.00000 T3=25.58000 R3=19.85000
Avg. Concentration: 25.54 PPM

Second Triad Analysis
Date: 18Oct2006
Z1=0.00000 R1=19.85000 T1=25.42000
R2=19.85000 Z2=0.00000 T2=25.52000
Z3=0.00000 T3=25.53000 R3=19.83000
Avg. Concentration: 25.55 PPM

Calibration Curve
Concentration=A+Bx+Cx2+Dx3+Ex4
r=0.999989
Constants: A=0.05813639
B=1.0011685 C=
D= E=

QUALITY ASSURANCE

APPROVED BY: DAVID KELLY
(signature on file)

COMPLIANCE CLASS

Scott Specialty Gases

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.: EL PASO
Project No.: 01-29741-001

Customer

EL PASO ENERGY

AT SCOTT SPECIALTY GASES
9810 BAY AREA BLVD
PASADENA TX 77507

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: ALM002619 **Certification Date:** 08Jun2007 **Exp. Date:** 07Dec2007
Cylinder Pressure*:** 2000 PSIG

COMPONENT	CERTIFIED CONCENTRATION (Moles)		ANALYTICAL ACCURACY**	TRACEABILITY
NITROGEN DIOXIDE	51.0	PPM	+/- 2%	GMIS
AIR		BALANCE		

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

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

REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMPONENT
GMIS NO2/AIR	12May2009	ALM044431	74.20 PPM	NITROGEN DIOXIDE

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
HORIBA/CLA220/5708850810	12May2007	CHEMILUMINESCENCE

APPROVED BY: James L. McHale
JAMES L. MCHALE

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9810 BAY AREA BLVD, PASADENA, TX 77507 Phone: 281-474-5800 Fax: 281-474-5857

Dual-Analyzed Calibration Standard

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory
SCOTT SPECIALTY GASES
9810 BAY AREA BLVD
PASADENA, TX 77507

P.O. No.: CREDIT CARD
Project No.: 04 -45947 -020

Customer
EL PASO ENERGY
JON TICE
16951 JFK BLVD
HOUSTON TX 77032

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: ALM019545 **Certification Date:** 26Jul2006 **Exp. Date:** 25Jul2009
Cylinder Pressure*:** 1939 PSIG

COMPONENT	CERTIFIED CONCENTRATION (Moles)	ANALYTICAL ACCURACY**	TRACEABILITY
CARBON MONOXIDE	86.0 PPM	+/- 1%	Direct NIST and
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.

REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMPONE
NTRM 1679	02Apr2007	ALM027398	94.90 PPM	CARBON MO

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
FTIR//1602651	29Jun2006	FTIR

ANALYZER READINGS

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

First Triad Analysis
CARBON MONOXIDE
Date: 17Jul2006 Response Unit: PPM
Z1=-0.03518 R1=95.28736 T1=86.33520
R2=95.33564 Z2=-0.03025 T2=86.35099
Z3=0.01449 T3=86.42355 R3=95.37475
Avg. Concentration: 85.98 PPM

Second Triad Analysis
Date: 26Jul2006 Response Unit: PPM
Z1=-0.01535 R1=95.03063 T1=86.15965
R2=95.07446 Z2=0.02886 T2=86.22921
Z3=0.06696 T3=86.24838 R3=95.16130
Avg. Concentration: 86.04 PPM

Calibration Curve
Concentration=A+Bx+Cx2+Dx3+Ex4
r=9.99998E-1
Constants: A=0.00000E+0
B=9.91098E-1 C=5.60000E-4
D=2.00000E-6 E=0.00000E+0

QUALITY ASSURANCE

APPROVED BY: Lara Nash
(signature on file)

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9810 BAY AREA BLVD, PASADENA, TX 77507 Phone: 281-474-5800 Fax: 281-474-5857

Dual-Analyzed Calibration Standard

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory
SCOTT SPECIALTY GASES
9810 BAY AREA BLVD
PASADENA, TX 77507

P.O. No.: CC 11.29.06 HF
Project No.: 04 -50020 -003

Customer
EL PASO ENERGY
HEIDI FRANKLIN
16951 JFK BLVD
HOUSTON TX 77032

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: ALM051850 **Certification Date:** 18Dec2006 **Exp. Date:** 17Dec2009
Cylinder Pressure*:** 2015 PSIG

COMPONENT	CERTIFIED CONCENTRATION (Moles)	ANALYTICAL ACCURACY**	TRACEABILITY
CARBON MONOXIDE	50.3 PPM	+/- 1%	Direct NIST and
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.

REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMPONE
NTRM 1678	15Aug2009	ALM038728	51.13 PPM	CARBON MO

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
FTIR//1602651	07Dec2006	FTIR

ANALYZER READINGS

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

First Triad Analysis
CARBON MONOXIDE
Date: 11Dec2006 Response Unit: PPM
Z1=-0.00817 R1=51.26802 T1=50.42797
R2=51.30324 Z2=0.01711 T2=50.45521
Z3=0.02816 T3=50.48285 R3=51.32819
Avg. Concentration: 50.29 PPM

Second Triad Analysis
Date: 18Dec2006 Response Unit: PPM
Z1=-0.00658 R1=51.30870 T1=50.46453
R2=51.33342 Z2=-0.00211 T2=50.47688
Z3=0.02749 T3=50.49375 R3=51.42012
Avg. Concentration: 50.26 PPM

Calibration Curve
Concentration=A+Bx+Cx2+Dx3+Ex4
r=9.99999E-1
Constants: A=0.00000E+0
B=9.86290E-1 C=4.36000E-4
D=2.00000E-6 E=0.00000E+0

QUALITY ASSURANCE

APPROVED BY: Lara Nash
(signature on file)

Scott Specialty Gases AIR LIQUIDE

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AIR LIQUIDE AMERICA SPECIALTY GASES LLC
9810 BAY AREA BLVD, PASADENA, TX 77507 Phone: 281-474-5800 Fax: 281-474-5857

Dual-Analyzed Calibration Standard

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory
SCOTT SPECIALTY GASES
9810 BAY AREA BLVD
PASADENA, TX 77507

P.O. No.: CC 110205 MG
Project No.: 04 -39812 -005

Customer
EL PASO ENERGY
281 765 4903 MIKE GUERRA
16951 JFK BLVD
HOUSTON TX 77032

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: ALM039148 **Certification Date:** 28Nov2005 **Exp. Date:** 28Nov2008
Cylinder Pressure*:** 1950 PSIG

COMPONENT	CERTIFIED CONCENTRATION (Moles)	ANALYTICAL ACCURACY**	TRACEABILITY
CARBON MONOXIDE	25.7 PPM	+/- 1%	Direct NIST and
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.

REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMPONE
NTRM 2635	01May2007	ALM030551	25.78 PPM	CARBON MO

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
FTIR//0929061	16Nov2005	FTIR

ANALYZER READINGS

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

First Triad Analysis
CARBON MONOXIDE
Date: 18Nov2005 Response Unit: PPM
Z1=-0.01844 R1=25.80321 T1=25.65845
R2=25.80929 Z2=-0.01776 T2=25.67680
Z3=-0.00021 T3=25.69023 R3=25.81939
Avg. Concentration: 25.64 PPM

Second Triad Analysis
Date: 28Nov2005 Response Unit: PPM
Z1=-0.05898 R1=25.47102 T1=25.39535
R2=25.51102 Z2=-0.02135 T2=25.44593
Z3=-0.00978 T3=25.47910 R3=25.51939
Avg. Concentration: 25.72 PPM

Calibration Curve
Concentration=A+Bx+Cx2+Dx3+Ex4
r=9.99995E-1
Constants: A=0.00000E+0
B=9.66109E-1 C=5.73000E-4
D=1.00000E-6 E=0.00000E+0

QUALITY ASSURANCE

APPROVED BY: Lara Nash
(signature on file)
SUPERVISOR: SUSAN BRANDON
(signature on file)

Appendix A. Unit A-1 to A-3 GE M3002-RA Gas Turbines

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Appendix A

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Sample Calculations

Chart Recording

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Raw Data

Determination of Stratification

Station	Vail	**Model**	GE Frame 3
Unit	1	**Date**	12/6/2007

Determination of Stratification.						
Traverse Point	**Mean O_2**	**Mean CO**	**Mean NOx**	**% O_2 Deviation**	**% NOx Deviation**	**% CO Deviation**
1	17.980	15.600	46.240	**0.08%**	**0.18%**	**0.79%**
2	18.010	15.850	46.410	**-0.08%**	**-0.18%**	**-0.79%**
3	18.010	16.170	46.010	**-0.08%**	**0.68%**	**-2.83%**
Overall Mean	17.995	15.725	46.325			

Percent deviation = ((100(overall mean - mean traverse point)) / overall mean) / 100*

Station	Vail	**Model**	GE Frame 3
Unit	2	**Date**	12/7/2007

Determination of Stratification.						
Traverse Point	**Mean O_2**	**Mean CO**	**Mean NOx**	**% O_2 Deviation**	**% NOx Deviation**	**% CO Deviation**
1	18.380	27.100	29.590	**0.05%**	**0.13%**	**0.39%**
2	18.400	27.310	29.670	**-0.05%**	**-0.13%**	**-0.39%**
3	18.400	27.620	29.950	**-0.05%**	**-1.08%**	**-1.53%**
Overall Mean	18.390	27.205	29.630			

Percent deviation = ((100(overall mean - mean traverse point)) / overall mean) / 100*

Station	Vail	**Model**	GE Frame 3
Unit	3	**Date**	12/6/2007

Determination of Stratification.						
Traverse Point	**Mean O_2**	**Mean CO**	**Mean NOx**	**% O_2 Deviation**	**% NOx Deviation**	**% CO Deviation**
1	18.480	20.040	37.340	**0.32%**	**-0.38%**	**2.22%**
2	18.600	20.950	37.060	**-0.32%**	**0.38%**	**-2.22%**
3	18.680	20.590	37.040	**-0.76%**	**0.43%**	**-0.46%**
Overall Mean	18.540	20.495	37.200			

Percent deviation = ((100(overall mean - mean traverse point)) / overall mean) / 100*

Emission Points A-1 to A-3, GE M3002-RA Gas Turbines

elpaso Natural Gas

Company:	EPNG	Rated GP RPM:	6,900
Station:	Vail	Rated PT RPM:	5,460
Unit:	1	Rated BHP:	5,000
Turbine Type:	GE Frame 3	Fuel Orifice Dia.:	1.375
Date:	12/6/2007	Fuel Tube Dia.:	2.067
		AGA UDHV :	1,021
		AGA LDHV :	922
		PCD_{ref} :	75.0
		PCD_{ref} :	89.7

Run	1	2	3	Average
Date	12/06/07	12/06/07	01/27/06	
Time	9:17	10:41	11:49	
Condition	Compliance Test	Compliance Test	Compliance Test	
Operating Parameters				
Turbine				
Horsepower	4,430.7	3,789.2	3,871.2	4,030.4
% Ambient Load	88.6	75.8	77.4	80.6
GP RPM	6,881	6,829	6,795	6,835
% GP Speed	99.7	99.0	98.5	99.1
NPT RPM	5,028	4,737	4,699	4,821
% NPT Speed	92.1	86.8	86.1	88.3
Compressor				
Turbine Exhaust Temperature Average-T5 (°F)	881.7	880.1	880.1	880.6
Compressor Suction Pressure (PSIG)	647	649	649	648
Compressor Suction Temperature (°F)	67.6	69.0	68.9	68.5
Compressor Discharge Pressure (PSIG)	724	718	716	719
Compressor Discharge Temperature (°F)	94.6	93.0	93.2	93.6
Compressor Flow (MMSCF/D)	434.5	417.8	420.6	424.3
PCD_{obs} Observed Combustor Inlet Pressure, (PSIG)	58.2	56.7	55.7	56.9
PCD_{obs} Observed Combustor Inlet Pressure, (PSIA)	71.4	69.9	68.9	70.1
Ambient Conditions				
Ambient Temperature (°F)	63.30	70.10	75.60	69.67
Barometric Pressure ("Hg)	26.94	26.94	26.90	26.92
Ambient Relative Humidity (%)	44.90	39.70	34.60	39.73
Absolute Humidity (grains/LB)	43.05	48.21	50.66	47.31
Emissions Concentrations & Calculated Mass Emissions				
NO ppm (raw measured dry)	39.35	36.47	36.04	37.29
NO_X ppm (raw measured dry)	45.41	43.70	42.91	44.01
NO_x ppm (BIAS Corrected)	45.56	43.81	43.09	44.15
NO_X LB/HR	20.58	19.83	19.48	19.96
CO ppm (raw measured dry)	15.35	17.65	16.05	16.35
CO ppm (BIAS Corrected)	15.39	17.68	15.96	16.34
CO LB/HR	4.23	4.87	4.39	4.50
% CO_2 (raw measured dry)	1.03	1.19	1.39	1.20
% CO_2 (BIAS Corrected)	1.34	1.43	1.55	1.44
% O_2 (raw measured dry)	18.06	18.05	18.15	18.09
% O_2 (BIAS Corrected)	17.82	17.98	18.03	17.94
Calculated Emissions Concentrations				
% CO_2 (Wet)	1.56	1.57	1.52	1.55
%CO_2 (Dry)	1.63	1.63	1.58	1.61
% H_2O	4.03	4.14	4.10	4.09
% O_2 (Wet)	17.33	17.30	17.41	17.35
Calculated Flows				
Fuel Flow - (SCFM)	1,046.7	995.0	975.0	1,006
Fuel Flow - (SCFH)	62,800	59,700	58,500	60,333
Fuel Flow (LB/HR)	2,811	2,672	2,619	2,701
Exhaust Flow (LB/HR)	237,125	232,999	231,302	233,858
Exhaust Flow (WSCFM)	67,420	64,091	62,803	64,771
Air Flow (WSCFM)	59,979	60,064	59,969	60,004
Heat Rate (BTU/HP-HR)	13,051	14,507	13,914	13,784

Company: EPNG **Model:** GE Frame 3 **Rated GP RPM:** 6900
Station: Vail **Unit:** 1 **Rated PT RPM:** 5460
Date: 12/6/2007 **S/N:** 0

	Time	GP Speed (RPM)	% GP Speed	PT Speed (RPM)	% PT Speed	Fuel Gas Flow (scfh)	Suction Pres. (psig)	Suction Temp. (°F)	Discharge Pres. (psig)	Discharge Temp. (°F)	Compressor Flow (MMCF/D)	Shaft Horsepower (BHP)	Turbine Exh. Temp. (°F)	PCD Observed Combustor Inlet Press.
Run 1	9:17	6,881	99.7	5,028	92.1	62,800	646.5	67.6	724.2	94.6	434.5	4,431	882	58.2
Run 2	10:41	6,829	99.0	4,737	86.8	59,700	648.6	69	717.9	93	417.8	3,789	880	56.7
Run 3	11:49	6,795	98.5	4,699	86.1	58,500	648.6	68.9	716.2	93.2	420.6	3,871	880	55.7

Vail Unit #1 GE Efficiency

Performance Data

	POST DATA	RUN#3 3:18:52 PM	UNITS	POST DATA	UNITS	Store formulas
	HP SPEED, RPM	6749.00	RPM	6749.0	RPM	
	LP SPEED, RPM	4689.00	RPM	4689.0	RPM	
	FUEL GAS PRESSURE	142.00	PSI	142.0	PSI	
	FUEL GAS DIFF.PRESS.	63.00	"H20	63.00	"H20	
	FUEL GAS TEMP.	57.00	DEG.	53.0	DEG.	
CAL	FUEL GAS FLOW.	57.457	MCFH	57.693	MCFH	55.83
	UNIT SUCTION PRESSURE	648.00	PSI	648.00	PSI	
	UNIT SUCTION TEMP.	70.00	DEG.	70.00	DEG.	
	UNIT DISCHARGE PRESSURE	715.00	PSI	715.00		
	UNIT DISCHARGE TEMP.	93.00	DEG.	93.00	DEG.	(+6)
	Annubar station flow" H20	6.00	"H20	6.00	"H20	(+4)
	Annubar station flow TEMP.	85.00	DEG.	85.0	DEG.	
	Annubar station flow PRESS.	710.00	PSI	710.0	PSI	
	FINAL DISCHARGE PRESS.	not used	PSI	not used	PSI	
	FINAL DISCHARGE TEMP.	not used	DEG	not used	DEG	
	STATION SUCTION PRESS.	not used	PSI	not used	PSI	
	STATION SUCTION TEMP.	0.00	DEG	0.0	DEG	
	AMB AIR TEMP.	81.00	DEG	81.0	DEG	
	STA. THRU-PUT FLOW MMCFD	413.1	MMCFD	413.1	MMCFD	
	TURBINE HORSEPOWER	3577.4	BHP	3590.5	CALC	
	Axial Flow Compressor Pressure	55.00	psig	55.00	psig	
	PERCENT LOAD	68.7%	%	69.0%	CALC	
	ADIABATIC EFFICIENCY	47.8%		47.8%	CALC	
	ADIABATIC HEAD	4351	ft-lb/lb	4351	CALC	
	COMP RATIO	1.10		1.10	CALC	
	FUEL ECONOMY	not used		not used	CALC	
	BHP/MMCFD	8.6605		8.6922	CALC	
	HEAT RATE	14607.06		not used	CALC	
	IHP/MM	8.4872		8.5184	CALC	
	INPUT HEAD	9109	ft-lb/lb	9109	CALC	
	INLET ACFM	5956	ACFM	5956	CALC	
	DTHERM/HR	not used		52.47	CALC	
	AFC INLET TEMP	73.00	DEG	not used		
	INLET VACCUM PRESS	not used	"H20	not used		
	% LP SPEED	85.25%		68.96%		
	T5 TEMP	880.00	DEG			

GAS COMPOSITION		FUEL COMPOSITION		
O_2	0.0000%	O_2	0.0000%	Oxygen, O_2
CO_2	0.5300%	CO_2	0.5300%	Carbon dioxide, CO_2
N_2	1.6620%	N_2	1.6620%	Nitrogen, N_2
CH_4	94.8220%	CH_4	94.8220%	Methane, CH_4
C_2H_6	2.4290%	C_2H_6	2.4290%	Ethane, C_2H_6
C_3H_8	0.3580%	C_3H_8	0.3580%	Propane, C_3H_8
i-C_4H_{10}	0.0490%	i-C_4H_{10}	0.0490%	I-Butane, i-C_4H_{10}
n-C_4H_{10}	0.0670%	n-C_4H_{10}	0.0670%	N-Butane, n-C_4H_{10}
i-C_5H_{12}	0.0220%	i-C_5H_{12}	0.0220%	I-Pentane, i-C_5H_{12}
n-C_5H_{12}	0.0160%	n-C_5H_{12}	0.0160%	N-Pentane, n-C_5H_{12}
C_6H_{14}	0.0450%	C_6H_{14}	0.0450%	Hexane, C_6H_{14}
C_7H_{16}	0.0000%	C_7H_{16}	0.0000%	C_7H_{16}
TOTAL	100.0000%	TOTAL	100.0000%	
MW	16.79	MW	16.79	
SG	0.580	SG	0.580	
		LHV	909.47	

Constants

Annubar K Factor	0.7000	inches	
Thruput Pipe ID	28.626	inches	
Fuel Flow Orifice	1.375	inches	
Fuel Pipe ID	2.067	inches	
Barometric Press	30.01	"Hg	
Atmospheric Press	14.73	Psi	
Rated Horsepower	5208.75	HP	at ambient
Rated Horsepower	4950	HP	at 80F

elpaso Natural Gas

Company:	EPNG	Rated GP RPM:	6,900
Station:	Vail	Rated PT RPM:	5,460
Unit:	2	Rated BHP:	5,000
Turbine Type:	GE Frame 3	Fuel Orifice Dia.:	1.375
Date:	12/7/2007	Fuel Tube Dia.:	2.067
		AGA UDHV :	1,021
		AGA LDHV :	922
		PCD_{ref} :	75.0
		PCD_{ref} :	89.7

Run	1	2	3	Average
Date	12/07/07	12/07/07	01/27/06	
Time	7:50	9:22	10:45	
Condition	Compliance Test	Compliance Test	Compliance Test	
Operating Parameters				
Turbine				
Horsepower	4,021.2	3,922.3	3,735.5	3,893.0
% Ambient Load	80.4	78.4	74.7	77.9
GP RPM	5,999	6,000	5,999	5,999
% GP Speed	86.9	87.0	86.9	86.9
NPT RPM	5,459	5,460	5,461	5,460
% NPT Speed	100.0	100.0	100.0	100.0
Compressor				
Turbine Exhaust Temperature Average-T5 (°F)	784.6	799.1	806.0	796.6
Compressor Suction Pressure (PSIG)	641	633	628	634
Compressor Suction Temperature (°F)	70.0	70.0	69.9	70.0
Compressor Discharge Pressure (PSIG)	727	718	711	719
Compressor Discharge Temperature (°F)	99.2	98.0	97.2	98.1
Compressor Flow (MMSCF/D)	359.3	369.0	362.3	363.5
PCD_{obs} Observed Combustor Inlet Pressure, (PSIG)	47.0	47.0	46.9	47.0
PCD_{obs} Observed Combustor Inlet Pressure, (PSIA)	60.2	60.2	60.1	60.2
Ambient Conditions				
Ambient Temperature (°F)	63.30	66.10	67.50	65.63
Barometric Pressure ("Hg)	26.96	26.96	26.94	26.95
Ambient Relative Humidity (%)	52.70	47.90	45.18	48.59
Absolute Humidity (grains/LB)	50.58	50.68	50.21	50.49
Emissions Concentrations & Calculated Mass Emissions				
NO ppm (raw measured dry)	23.82	25.44	26.31	25.19
NO_X ppm (raw measured dry)	31.02	32.57	33.42	32.34
NO_x ppm (BIAS Corrected)	31.15	31.98	32.69	31.94
NO_X LB/HR	13.06	14.60	14.83	14.16
CO ppm (raw measured dry)	28.71	22.76	23.85	25.11
CO ppm (BIAS Corrected)	28.87	23.17	24.66	25.57
CO LB/HR	7.37	6.44	6.81	6.87
% CO_2 (raw measured dry)	1.20	1.21	1.22	1.21
% CO_2 (BIAS Corrected)	1.27	1.28	1.29	1.28
% O_2 (raw measured dry)	18.40	18.83	18.79	18.67
% O_2 (BIAS Corrected)	18.44	18.63	18.62	18.56
Calculated Emissions Concentrations				
% CO_2 (Wet)	1.38	1.17	1.19	1.25
%CO_2 (Dry)	1.44	1.21	1.23	1.29
% H_2O	3.84	3.42	3.45	3.58
% O_2 (Wet)	17.69	18.19	18.14	18.01
Calculated Flows				
Fuel Flow - (SCFM)	776.7	778.3	776.7	777
Fuel Flow - (SCFH)	46,600	46,700	46,600	46,633
Fuel Flow (LB/HR)	2,086	2,090	2,086	2,087
Exhaust Flow (LB/HR)	214,238	234,021	231,682	226,265
Exhaust Flow (WSCFM)	56,489	56,610	56,489	56,529
Air Flow (WSCFM)	55,464	60,270	59,916	58,467
Heat Rate (BTU/HP-HR)	10,670	10,963	11,486	11,030

Company: EPNG **Model:** GE Frame 3 **Rated GP RPM:** 6900
Station: Vail **Unit:** 2 **Rated PT RPM:** 5460
Date: 12/7/2007 **S/N:** 0

	Time	GP Speed (RPM)	% GP Speed	PT Speed (RPM)	% PT Speed	Fuel Gas Flow (scfh)	Suction Pres. (psig)	Suction Temp. (°F)	Discharge Pres. (psig)	Discharge Temp. (°F)	Compressor Flow (MMCF/D)	Shaft Horsepower (BHP)	Turbine Exh. Temp. (°F)	PCD Observed Combustor Inlet Press.
Run 1	7:50:00	5,999	86.9	5,459	100.0	46,600	641	70	727	99	359.3	4,021.2	784.6	47.0
Run 2	9:22:00	6,000	87.0	5,460	100.0	46,700	633	70	718	98	369.0	3,922.3	799.1	47.0
Run 3	10:45:00	5,999	86.9	5,461	33.3	46,600	628	70	711.4	97	362.3	3,735.5	806.0	46.9

Vail Unit #2 CE Efficiency

	POST DATA	RUN#3 3:24:20 PM	UNITS	POST DATA	UNITS	Store formulas
	HP SPEED, RPM	6005.00	RPM	6005.0	RPM	
	LP SPEED, RPM	5456.00	RPM	5456.0	RPM	
	FUEL GAS PRESSURE	143.00	PSI	143.0	PSI	
	FUEL GAS DIFF.PRESS.	42.00	"H20	42.00	"H20	
	FUEL GAS TEMP.	55.00	DEG.	50.0	DEG.	
CAL	FUEL GAS FLOW.	46.583	MCFH	46.824	MCFH	
	UNIT SUCTION PRESSURE	626.00	PSI	626.00	PSI	
	UNIT SUCTION TEMP.	70.00	DEG.	70.00	DEG.	
	UNIT DISCHARGE PRESSURE	710.00	PSI	710.00		
	UNIT DISCHARGE TEMP.	97.00	DEG.	97.00	DEG.	(+6)
	Annubar station flow" H20	5.00	"H20	5.00	"H20	(+4)
	Annubar station flow TEMP.	91.00	DEG.	91.0	DEG.	
	Annubar station flow PRESS.	703.00	PSI	703.0	PSI	
	FINAL DISCHARGE PRESS.	not used	PSI	not used	PSI	
	FINAL DISCHARGE TEMP.	not used	DEG	not used	DEG	
	STATION SUCTION PRESS.	not used	PSI	not used	PSI	
	STATION SUCTION TEMP.	0.00	DEG	0.0	DEG	
	AMB AIR TEMP.	73.00	DEG	73.0	DEG	
CAL	STA. THRU-PUT FLOW MMCFD	332.2	MMCFD	332.2	MMCFD	
CAL	TURBINE HORSEPOWER	3380.6	BHP	3392.9	CALC	
	Axial Flow Compressor Pressure	47.00	psig	47.00	psig	
CAL	PERCENT LOAD	52.0%	%	52.2%	CALC	
	ADIABATIC EFFICIENCY	52.3%		52.3%	CALC	
	ADIABATIC HEAD	5479	ft-lb/lb	5479	CALC	
	COMP RATIO	1.13		1.13	CALC	
	FUEL ECONOMY	not used		not used	CALC	
CAL	BHP/MMCFD	10.1757		10.2127	CALC	
	HEAT RATE	12791.73		not used	CALC	
CAL	IHP/MM	9.9721		10.0084	CALC	
	INPUT HEAD	10485	ft-lb/lb	10485	CALC	
	INLET ACFM	4952	ACFM	4952	CALC	
	DTHERM/HR	not used		43.47	CALC	
	AFC INLET TEMP	not used	DEG	not used		
	INLET VACCUM PRESS	not used	"H20	not used		
	% LP SPEED	99.20%		80.24%		
	T5 TEMP	809.00	DEG			

GAS COMPOSITION		FUEL COMPOSITION		
O_2	0.0000%	O_2	0.0000%	Oxygen, O_2
CO_2	0.3430%	CO_2	0.3430%	Carbon dioxide, CO_2
N_2	1.8700%	N_2	1.8700%	Nitrogen, N_2
CH_4	93.7070%	CH_4	93.7070%	Methane, CH_4
C_2H_6	3.1430%	C_2H_6	3.1430%	Ethane, C_2H_6
C_3H_8	0.6030%	C_3H_8	0.6030%	Propane, C_3H_8
$i\text{-}C_4H_{10}$	0.0740%	$i\text{-}C_4H_{10}$	0.0740%	I-Butane, $i\text{-}C_4H_{10}$
$n\text{-}C_4H_{10}$	0.1340%	$n\text{-}C_4H_{10}$	0.1340%	N-Butane, $n\text{-}C_4H_{10}$
$i\text{-}C_5H_{12}$	0.0380%	$i\text{-}C_5H_{12}$	0.0380%	I-Pentane, $i\text{-}C_5H_{12}$
$n\text{-}C_5H_{12}$	0.0340%	$n\text{-}C_5H_{12}$	0.0340%	N-Pentane, $n\text{-}C_5H_{12}$
C_6H_{14}	0.0540%	C_6H_{14}	0.0540%	Hexane, C_6H_{14}
C_7H_{16}	0.0000%	C_7H_{16}	0.0000%	C_7H_{16}
TOTAL	100.0000%	TOTAL	100.0000%	
MW	17.14	MW	17.14	
SG	0.592	SG	0.592	
		LHV	928.30	

Annubar K Factor	0.6300	inches	
Thruput Pipe ID	3.625	inches	
Fuel Flow Orifice	1.75	inches	
Fuel Pipe ID	2.067	inches	
Barometric Press	28.64	"Hg	
Atmospheric Press	14.06	Psi	
Rated Horsepower	6300	HP	at ambient
Rated Horsepower	5705	HP	at 80F

6960

elpaso Natural Gas

Company:	EPNG
Station:	Vail
Unit:	3
Turbine Type:	GE Frame 3
Date:	12/6/2007

Rated GP RPM:	6,900
Rated PT RPM:	5,460
Rated BHP:	5,000
Fuel Orifice Dia.:	1.5
Fuel Tube Dia.:	4.026
AGA UDHV :	1,021
AGA LDHV :	922
PCD_{ref} :	75.0
PCD_{ref} :	89.7

Run	1	2	3	Average
Date	12/06/07	12/06/07	01/27/06	
Time	15:30	16:54	18:18	
Condition	Compliance Test	Compliance Test	Compliance Test	
Operating Parameters				
Turbine				
Horsepower	4,664.9	4,626.7	4,598.7	4,630.1
% Ambient Load	93.3	92.5	92.0	92.6
GP RPM	6,006	6,000	6,001	6,002
% GP Speed	87.0	87.0	87.0	87.0
NPT RPM	5,462	5,459	5,461	5,461
% NPT Speed	100.0	100.0	100.0	100.0
Compressor				
Turbine Exhaust Temperature Average-T5 (°F)	840.5	836.1	826.1	834.2
Compressor Suction Pressure (PSIG)	632	632	629	631
Compressor Suction Temperature (°F)	72.0	72.0	72.0	72.0
Compressor Discharge Pressure (PSIG)	716	715	712	715
Compressor Discharge Temperature (°F)	92.0	92.0	92.0	92.0
Compressor Flow (MMSCF/D)	663.2	655.5	651.5	656.7
PCD_{obs} Observed Combustor Inlet Pressure, (PSIG)	47.0	47.0	47.0	47.0
PCD_{obs} Observed Combustor Inlet Pressure, (PSIA)	60.2	60.2	60.2	60.2
Ambient Conditions				
Ambient Temperature (°F)	74.40	72.90	68.70	72.00
Barometric Pressure ("Hg)	26.90	26.90	26.92	26.90
Ambient Relative Humidity (%)	39.00	45.40	56.00	46.80
Absolute Humidity (grains/LB)	54.92	60.87	65.12	60.30
Emissions Concentrations & Calculated Mass Emissions				
NO ppm (raw measured dry)	31.35	29.73	28.25	29.78
NO_X ppm (raw measured dry)	36.86	35.46	33.81	35.38
NO_x ppm (BIAS Corrected)	37.34	35.83	34.03	35.73
NO_X LB/HR	18.14	17.61	19.11	18.29
CO ppm (raw measured dry)	20.07	17.79	20.75	19.54
CO ppm (BIAS Corrected)	19.40	17.28	20.36	19.01
CO LB/HR	5.74	5.17	6.96	5.96
% CO_2 (raw measured dry)	1.41	1.38	1.40	1.40
% CO_2 (BIAS Corrected)	1.42	1.40	1.41	1.41
% O_2 (raw measured dry)	18.75	18.72	18.91	18.79
% O_2 (BIAS Corrected)	18.75	18.77	19.03	18.85
Calculated Emissions Concentrations				
% CO_2 (Wet)	1.20	1.21	1.11	1.17
%CO_2 (Dry)	1.24	1.26	1.15	1.22
% H_2O	3.58	3.73	3.63	3.64
% O_2 (Wet)	18.08	18.02	18.22	18.11
Calculated Flows				
Fuel Flow - (SCFM)	784.1	785.1	787.9	786
Fuel Flow - (SCFH)	47,043	47,108	47,273	47,141
Fuel Flow (LB/HR)	2,106	2,109	2,116	2,110
Exhaust Flow (LB/HR)	241,387	243,011	274,648	252,153
Exhaust Flow (WSCFM)	65,844	65,935	66,166	65,982
Air Flow (WSCFM)	64,066	64,805	73,812	67,291
Heat Rate (BTU/HP-HR)	9,285	9,375	9,465	9,375

Company: EPNG **Model:** GE Frame 3 **Rated GP RPM:** 6900
Station: Vail **Unit:** 3 **Rated PT RPM:** 5460
Date: 12/6/2007 **S/N:** 0

	Time	GP Speed (RPM)	% GP Speed	PT Speed (RPM)	% PT Speed	Fuel Gas Flow (scfh)	Suction Pres. (psig)	Suction Temp. (°F)	Discharge Pres. (psig)	Discharge Temp. (°F)	Compressor Flow (MMCF/D)	Shaft Horsepower (BHP)	Turbine Exh. Temp. (°F)	PCD Observed Combustor Inlet Press.
Run 1	15:30:00	6,006	87.0	5,462	100.0	47,043	632	72	716	92	663.2	4,664.9	840.5	47.0
Run 2	16:54:00	6,000	87.0	5,459	100.0	47,108	632	72	715	92	655.5	4,626.7	836.1	47.0
Run 3	18:18:00	6,001	87.0	5,461	33.3	47,273	629	72	712.3	92	651.5	4,598.7	826.1	47.0

Vail Unit #3

	POST DATA	RUN#3 3:27:50 PM	UNITS	POST DATA	UNITS	Store formulas
	HP SPEED, RPM	5986.00	RPM	5986.0	RPM	
	LP SPEED, RPM	5483.00	RPM	5483.0	RPM	
	FUEL GAS PRESSURE	144.00	PSI	144.0	PSI	
	FUEL GAS DIFF.PRESS.	36.00	"H20	36.00	"H20	
	FUEL GAS TEMP.	52.00	DEG.	50.0	DEG.	
CAL	FUEL GAS FLOW.	46.124	MCFH	46.219	MCFH	
	UNIT SUCTION PRESSURE	626.00	PSI	626.00	PSI	
	UNIT SUCTION TEMP.	70	DEG.	70.00	DEG.	0.00
	UNIT DISCHARGE PRESSURE	710.00	PSI	710.00		
	UNIT DISCHARGE TEMP.	92.00	DEG.	92.00	DEG.	
	Annubar station flow" H20	1.00	"H20	1.00	"H20	
	Annubar station flow TEMP.	92.00	DEG.	92.0	DEG.	
	Annubar station flow PRESS.	711.00	PSI	711.0	PSI	
	FINAL DISCHARGE PRESS.	not used	PSI	not used	PSI	
	FINAL DISCHARGE TEMP.	not used	DEG	not used	DEG	
	STATION SUCTION PRESS.	not used	PSI	not used	PSI	
	STATION SUCTION TEMP.	70	DEG	70.0	DEG	0.00
	AMB AIR TEMP.	63.00	DEG	63.0	DEG	
CAL	STA. THRU-PUT FLOW MMCFD	149.3	MMCFD	149.3	MMCFD	
CAL	TURBINE HORSEPOWER	5952.1	BHP	1187.6	CALC	
	Axial Flow Compressor Pressure	47.00	psig	47.00	psig	
CAL	PERCENT LOAD	91.6%	%	18.3%	CALC	
	ADIABATIC EFFICIENCY	10.9%		67.1%	CALC	
	ADIABATIC HEAD	4481	ft-lb/lb	5479	CALC	
	COMP RATIO	1.13		1.13	CALC	
	FUEL ECONOMY	not used		not used	CALC	
CAL	BHP/MMCFD	39.8700		7.9552	CALC	
	HEAT RATE	7193.49		not used	CALC	
CAL	IHP/MM	39.0726		7.7961	CALC	
	INPUT HEAD	41128	ft-lb/lb	8168	CALC	
	INLET ACFM	1801	ACFM	2225	CALC	
	DTHERM/HR	not used		42.91	CALC	
	AFC INLET TEMP	not used	DEG	not used		
	INLET VACCUM PRESS	not used	"H20	not used		
	% LP SPEED	99.69%		80.63%		
	T5 TEMP	817.00	DEG			

GAS COMPOSITION		FUEL COMPOSITION		
O_2	0.0000%	O_2	0.0000%	Oxygen, O_2
CO_2	0.3430%	CO_2	0.3430%	Carbon dioxide, CO_2
N_2	1.8700%	N_2	1.8700%	Nitrogen, N_2
CH_4	93.7070%	CH_4	93.7070%	Methane, CH_4
C_2H_6	3.1430%	C_2H_6	3.1430%	Ethane, C_2H_6
C_3H_8	0.6030%	C_3H_8	0.6030%	Propane, C_3H_8
$I\text{-}C_4H_{10}$	0.0740%	$I\text{-}C_4H_{10}$	0.0740%	I-Butane, $I\text{-}C_4H_{10}$
$n\text{-}C_4H_{10}$	0.1340%	$n\text{-}C_4H_{10}$	0.1340%	N-Butane, $n\text{-}C_4H_{10}$
$I\text{-}C_5H_{12}$	0.0380%	$I\text{-}C_5H_{12}$	0.0380%	I-Pentane, $I\text{-}C_5H_{12}$
$n\text{-}C_5H_{12}$	0.0340%	$n\text{-}C_5H_{12}$	0.0340%	N-Pentane, $n\text{-}C_5H_{12}$
C_6H_{14}	0.0540%	C_6H_{14}	0.0540%	Hexane, C_6H_{14}
C_7H_{16}	0.0000%	C_7H_{16}	0.0000%	C_7H_{16}
TOTAL	100.0000%	TOTAL	100.0000%	
MW:	17.14	MW:	17.14	
SG:	0.592	SG:	0.592	
		LHV:	928.30	

Annubar K Factor	[redacted]	inches
Thruput Pipe ID	[redacted]	inches
Fuel Flow Orifice	[redacted]	inches
Fuel Pipe ID	[redacted]	inches
Barometric Press	28.64	"Hg
Atmospheric Press	14.06	Psi
Rated Horsepower	[redacted]	HP at ambient
Rated Horsepower	[redacted]	HP at 80F

6960

NO2 to NO Converter Check Forms and Raw Data

NO_2-NO Converter Check

Unit	1		
Station:	Vail	Analyzer:	TECO 42i-HL
Date:	12/6/07	S/N:	0719322711

NO_X Response	48.94	ppm	
NO_2 Calibration Gas Bottle Value	51.00	ppm	
Percent Conversion	95.96	%	Pass

Percent Conversion = (Response / Bottle Value) * 100

NO_2-NO Converter Check

Unit	2		
Station:	Vail	Analyzer:	TECO 42i-HL
Date:	12/7/07	S/N:	0719322711

NO_x Response	55.64	ppm	
NO_2 Calibration Gas Bottle Value	51.00	ppm	
Percent Conversion	109.10	%	Pass

Percent Conversion = (Response / Bottle Value) * 100

NO_2-NO Converter Check

Unit 3
Station: Vail
Date: 12/6/07

Analyzer: TECO 42i-HL
S/N: 0719322711

NO_X Response	48.94	ppm
NO_2 Calibration Gas Bottle Value	51.00	ppm
Percent Conversion	95.96	%

Percent Conversion = (Response / Bottle Value) * 100

Sample Line Leak Checks

Mass Emission Rate Sample Calculations, lb/hr

EPNG Vail unit A-1. GE M3002-RA Gas Turbine. Example Run 1

The sample calculation below determines the mass emission rates for NO_X on a lb/hr basis.

$$E_m = C_d \times F_d \times \frac{20.9}{(20.9 - \%O2)} \times Q_h \times \frac{GCV}{10^6}$$

Given:

NO_X = 45.56 ppm

$\%O_2$ = 17.82

F_d = 8,709.738 dscf / MMBTU

Q_h = 62,756 scf/h

GCV = 1019 BTU/scf

Pollutant Concentration:

$$Cd = ppm_d * \rho_d$$

$$C_d = 45.56 ppm * 1.194 * 10^{-7} \frac{lb/scf}{ppm}$$

$$Cd = 5.4398 * 10^{-6} lb/scf$$ Concentration:

$$Em_{NOx} = 5.4398 \times 10^{-6} \frac{lb}{scf} \times 8{,}709.74 \frac{dscf}{MMBTU} \times \frac{20.9}{(20.9 - 17.82)} \times 62{,}756 \frac{scf}{h} \times 1019 \frac{BTU}{scf} \times 10^{-6}$$

$$\boxed{Em_{NOx} = 20.56 \frac{lbs}{hr}}$$

Mass Emission Rate Sample Calculations, lb/hr

EPNG Vail unit A-1. GE M3002-RA Gas Turbine. Example run 1 – CO lb/hr

$$E_m = C_d \times F_d \times \frac{20.9}{(20.9 - \%O2)} \times Q_h \times \frac{GCV}{10^6}$$

$$E_m = C_d \times Q_{std}$$

Given:

CO = 15.39 ppm %O_2=17.82

Q_h = 62,756 dscfh

Pollutant Concentration:

$$Cd = ppm_d * \rho_d$$

$$C_d = 15.39\,ppm * 7.268 * 10^{-8} \frac{lb/scf}{ppm}$$

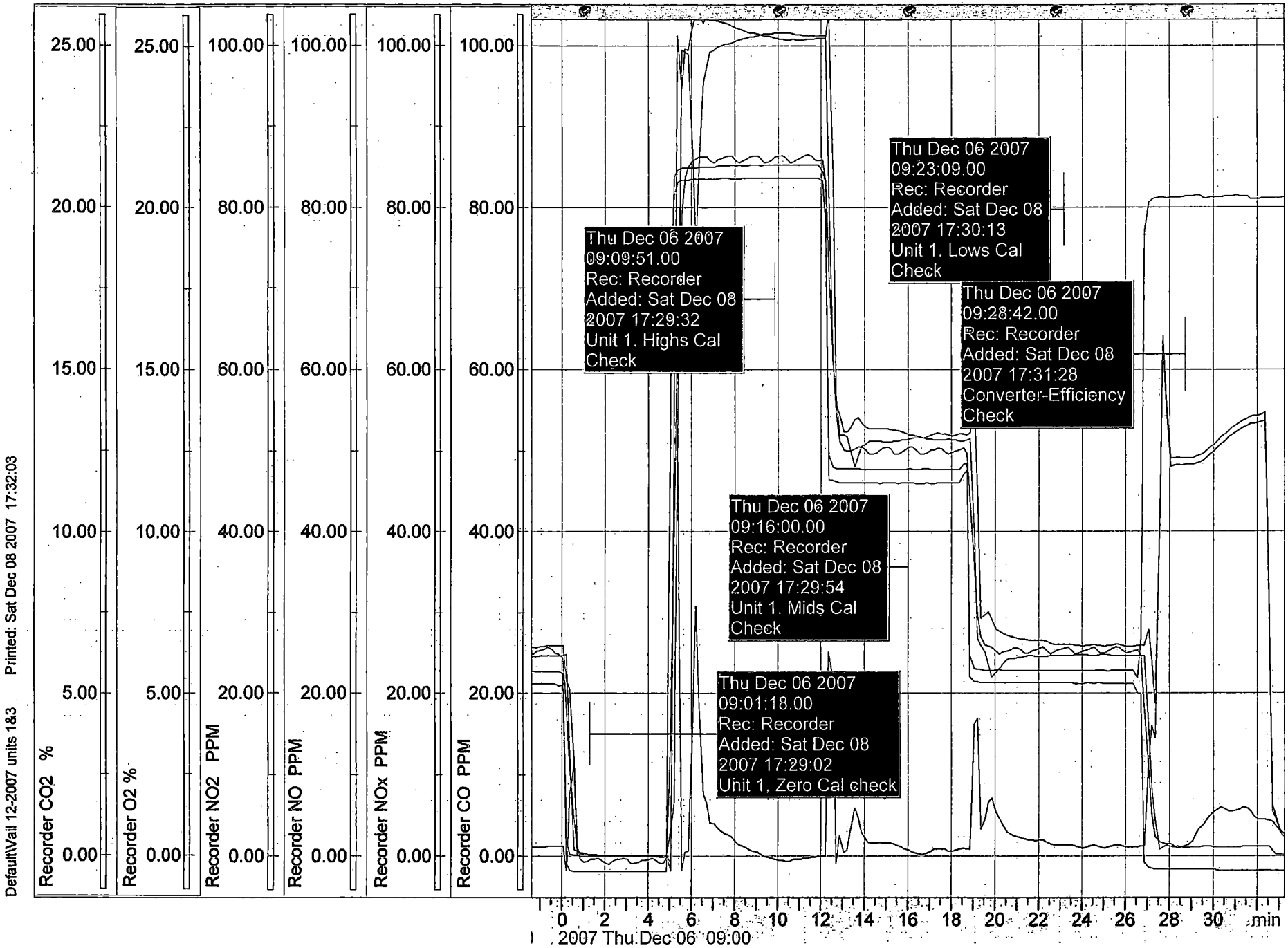
$$Cd = 1.1185 * 10^{-6}\, lb/scf$$

Concentration:

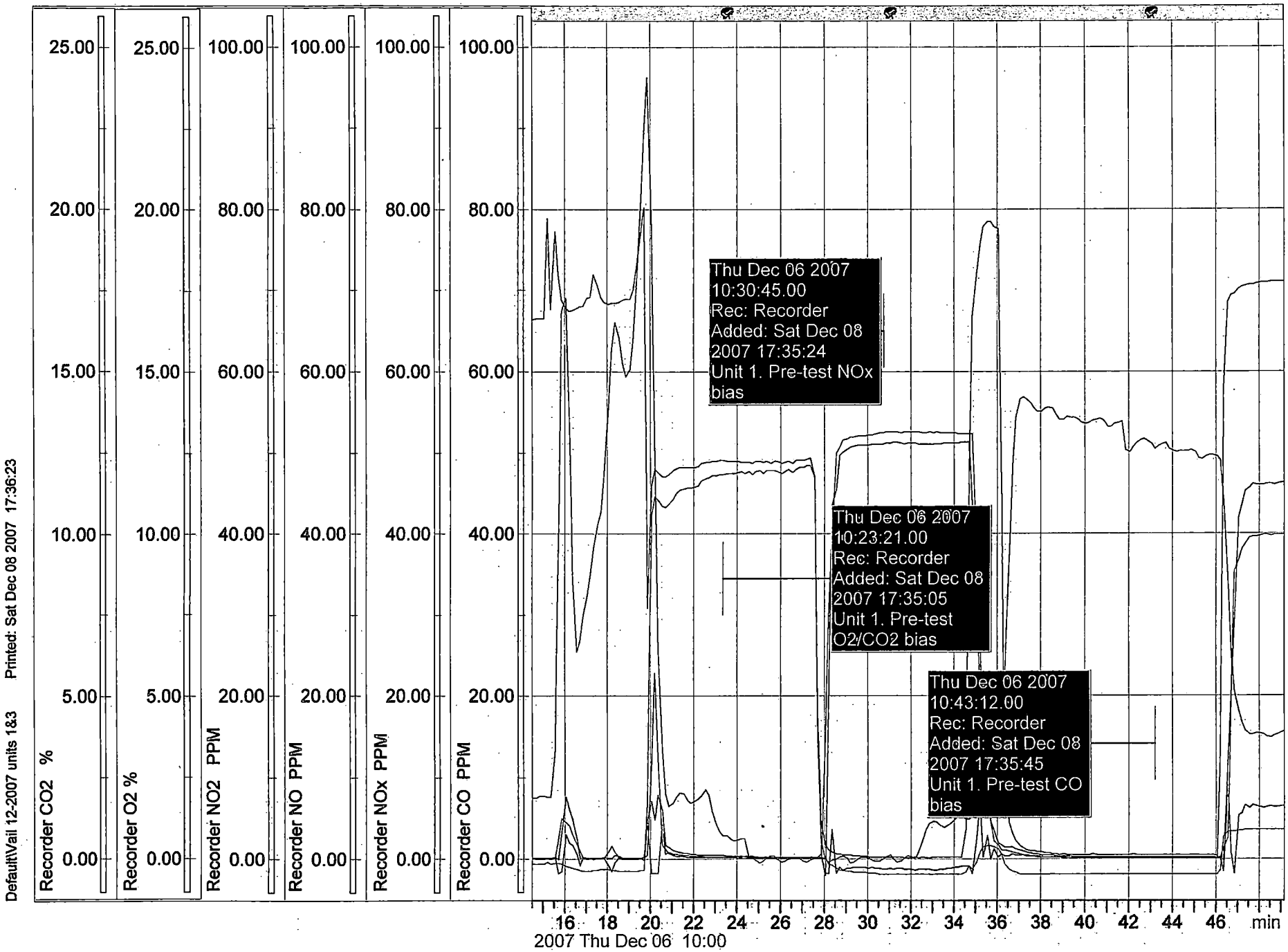
$$Em_{NOx} = 1.1185 * 10^{-6} \frac{lb}{scf} * 8709.74 \frac{dscf}{MMBtu} * \left(\frac{20.9}{20.9 - 17.82}\right) * 62{,}756 \frac{dscf}{h} * 1019 \frac{Btu}{dscf} * \frac{1}{10^6}$$

$$Em_{co} = 4.22 \frac{lbs}{hr}$$

Chart Recording



Default\Vail 12-2007 units 1&3 Printed: Sat Dec 08 2007 17:32:03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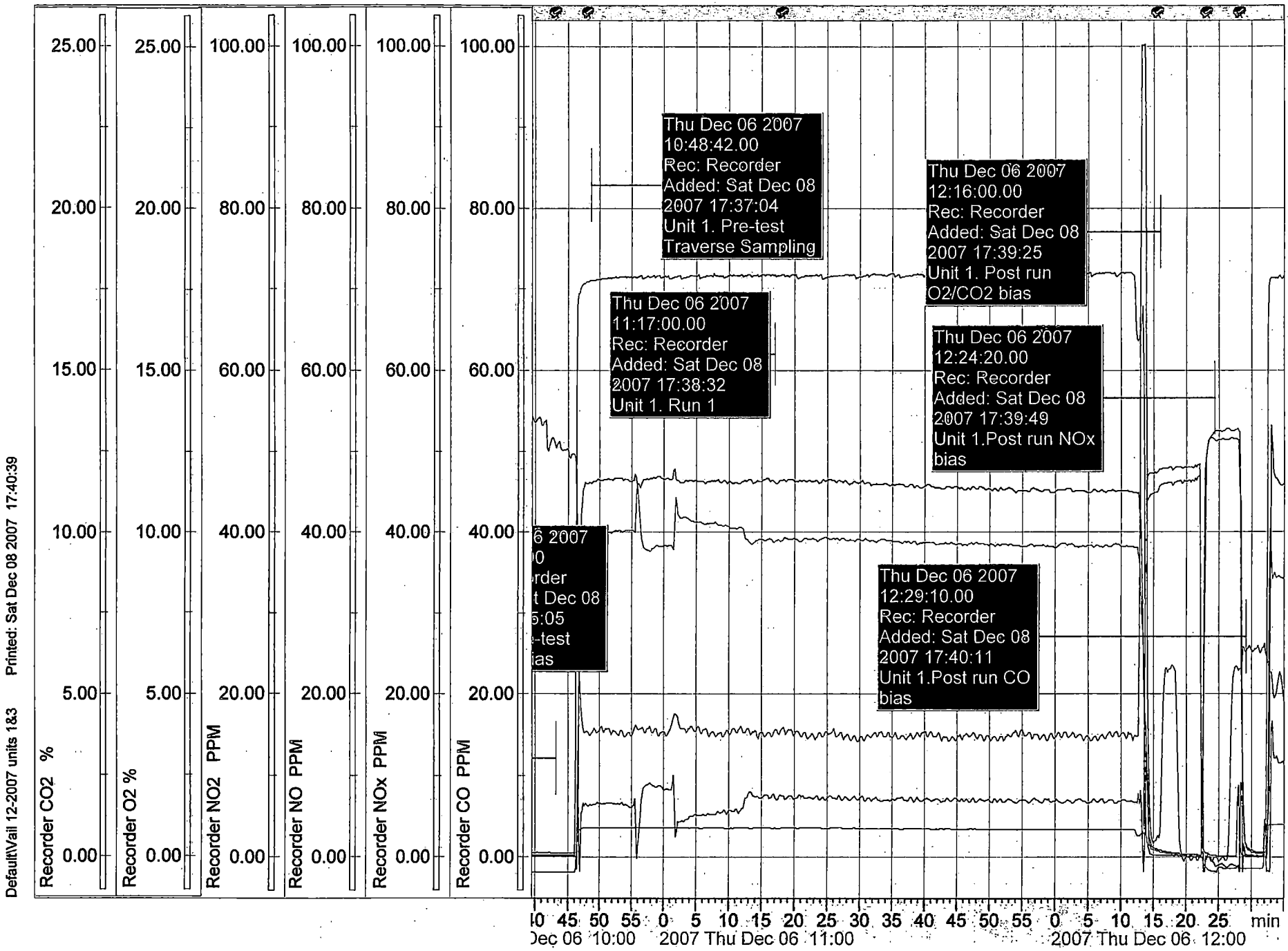
Printed: Sat Dec 08 2007 17:36:23
Recorder CO2 %
Recorder O2 %
Recorder NO2 PPM
Recorder NO PPM
Recorder NOx PPM
Recorder CO PPM
25.00
20.00
15.00
10.00
5.00
0.00
100.00
80.00
60.00
40.00
20.00
Thu Dec 06 2007
10:30:45.00
Rec: Recorder
Added: Sat Dec 08
2007 17:35:24
Unit 1. Pre-test NOx
bias
Thu Dec 06 2007
10:23:21.00
Rec: Recorder
Added: Sat Dec 08
2007 17:35:05
Unit 1. Pre-test
O2/CO2 bias
Thu Dec 06 2007
10:43:12.00
Rec: Recorder
Added: Sat Dec 08
2007 17:35:45
Unit 1. Pre-test CO
bias
16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 min
2007 Thu Dec 06 10:00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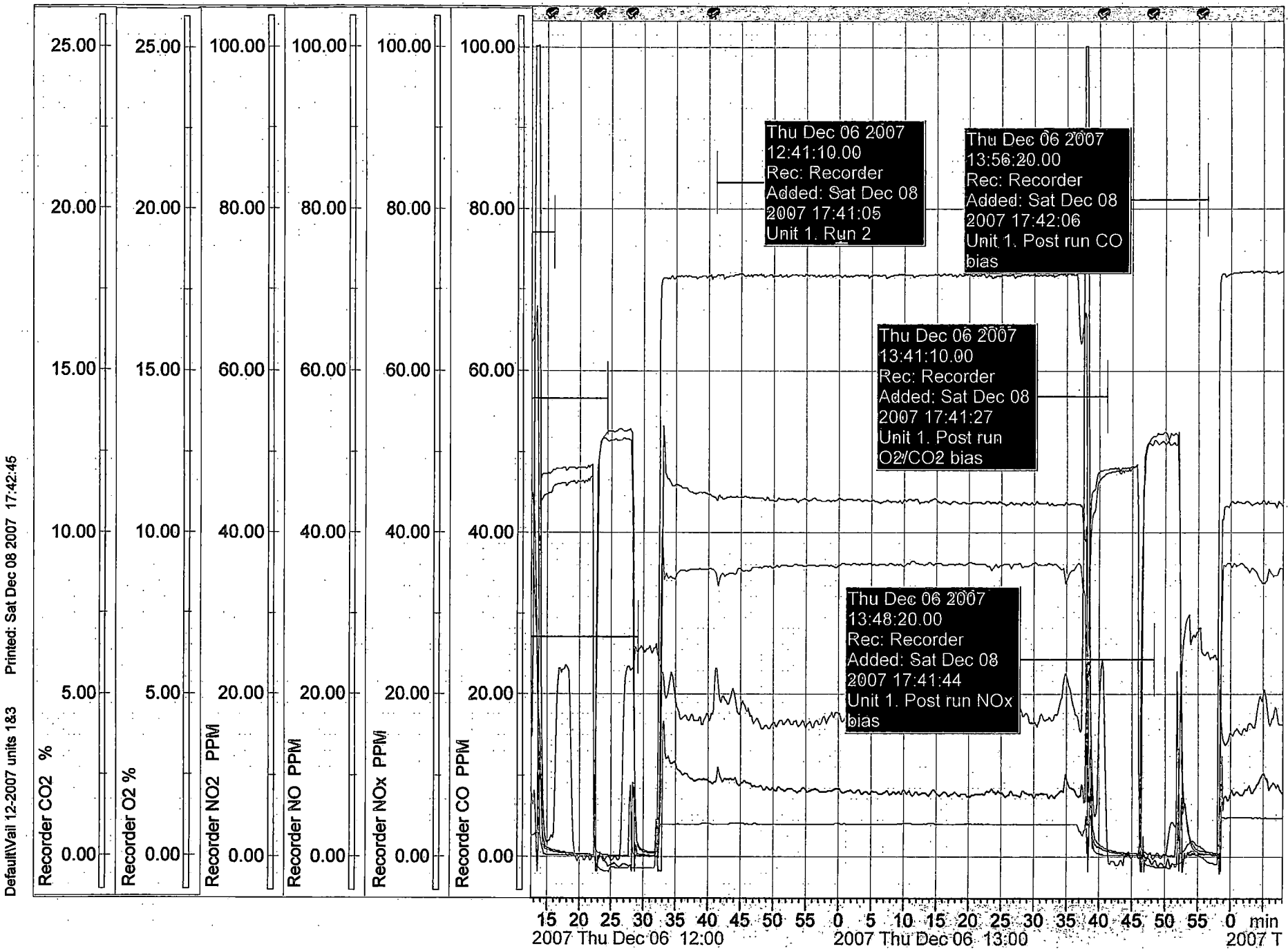
Recorder CO2 %
Recorder O2 %
Recorder NO2 PPM
Recorder NO PPM
Recorder NOx PPM
Recorder CO PPM
25.00
20.00
15.00
10.00
5.00
0.00
100.00
80.00
60.00
40.00
20.00
Thu Dec 06 2007 10:48:42.00 Rec: Recorder Added: Sat Dec 08 2007 17:37:04 Unit 1. Pre-test Traverse Sampling
Thu Dec 06 2007 11:17:00.00 Rec: Recorder Added: Sat Dec 08 2007 17:38:32 Unit 1. Run 1
Thu Dec 06 2007 12:16:00.00 Rec: Recorder Added: Sat Dec 08 2007 17:39:25 Unit 1. Post run O2/CO2 bias
Thu Dec 06 2007 12:24:20.00 Rec: Recorder Added: Sat Dec 08 2007 17:39:49 Unit 1.Post run NOx bias
Thu Dec 06 2007 12:29:10.00 Rec: Recorder Added: Sat Dec 08 2007 17:40:11 Unit 1.Post run CO bias
45 50 55 0 5 10 15 20 25 30 35 40 45 50 55 0 5 10 15 20 25 min
2007 Thu Dec 06 11:00
2007 Thu Dec 06 12:00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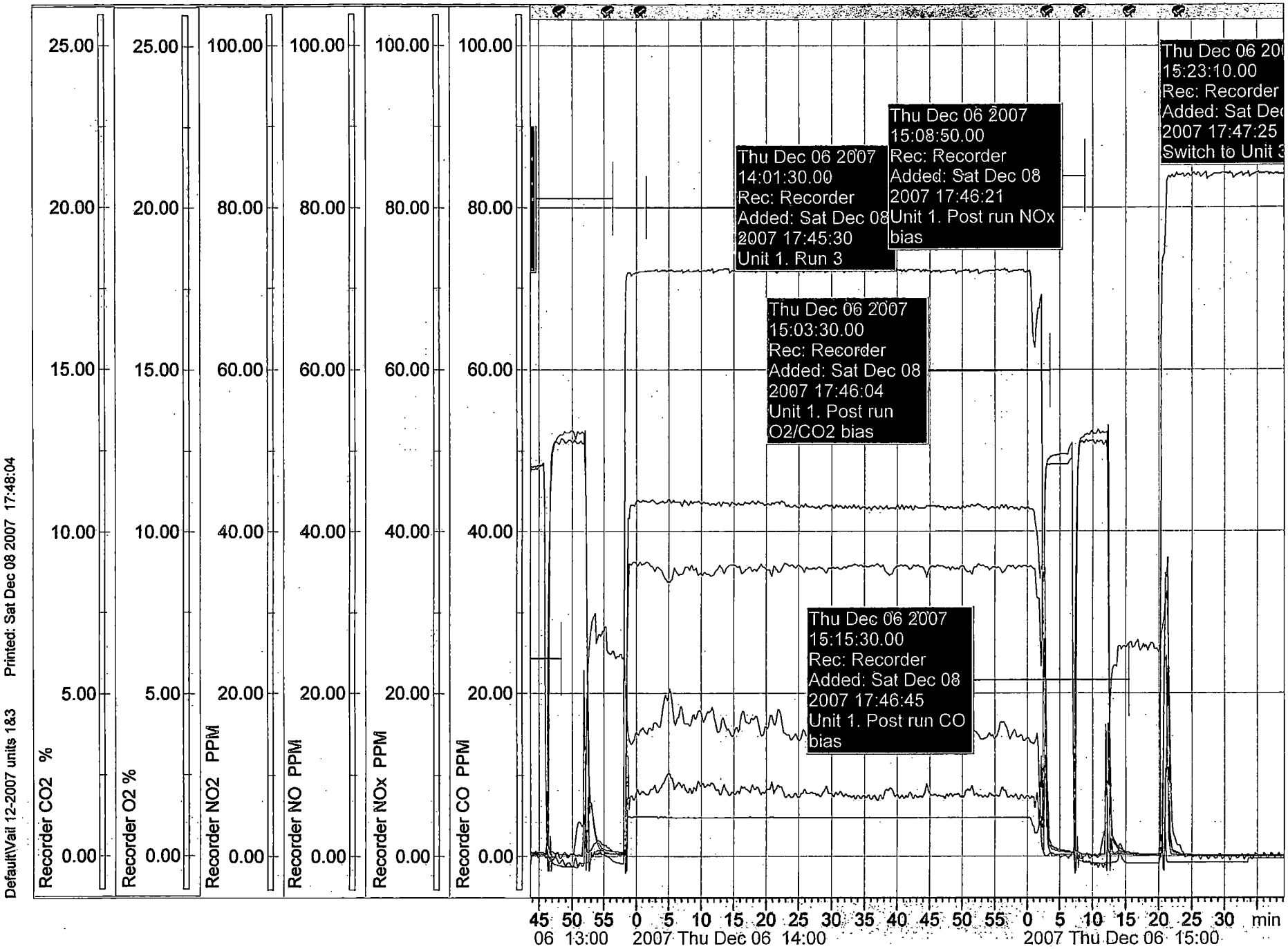
Recorder CO2 %
Recorder O2 %
Recorder NO2 PPM
Recorder NO PPM
Recorder NOx PPM
Recorder CO PPM
25.00
20.00
15.00
10.00
5.00
0.00
100.00
80.00
60.00
40.00
20.00
0.00
Thu Dec 06 2007
12:41:10.00
Rec: Recorder
Added: Sat Dec 08
2007 17:41:05
Unit 1. Run 2
Thu Dec 06 2007
13:56:20.00
Rec: Recorder
Added: Sat Dec 08
2007 17:42:06
Unit 1. Post run CO
bias
Thu Dec 06 2007
13:41:10.00
Rec: Recorder
Added: Sat Dec 08
2007 17:41:27
Unit 1. Post run
O2/CO2 bias
Thu Dec 06 2007
13:48:20.00
Rec: Recorder
Added: Sat Dec 08
2007 17:41:44
Unit 1. Post run NOx
bias
15 20 25 30 35 40 45 50 55 0 5 10 15 20 25 30 35 40 45 50 55 0 min
2007 Thu Dec 06 12:00
2007 Thu Dec 06 13:00
2007 T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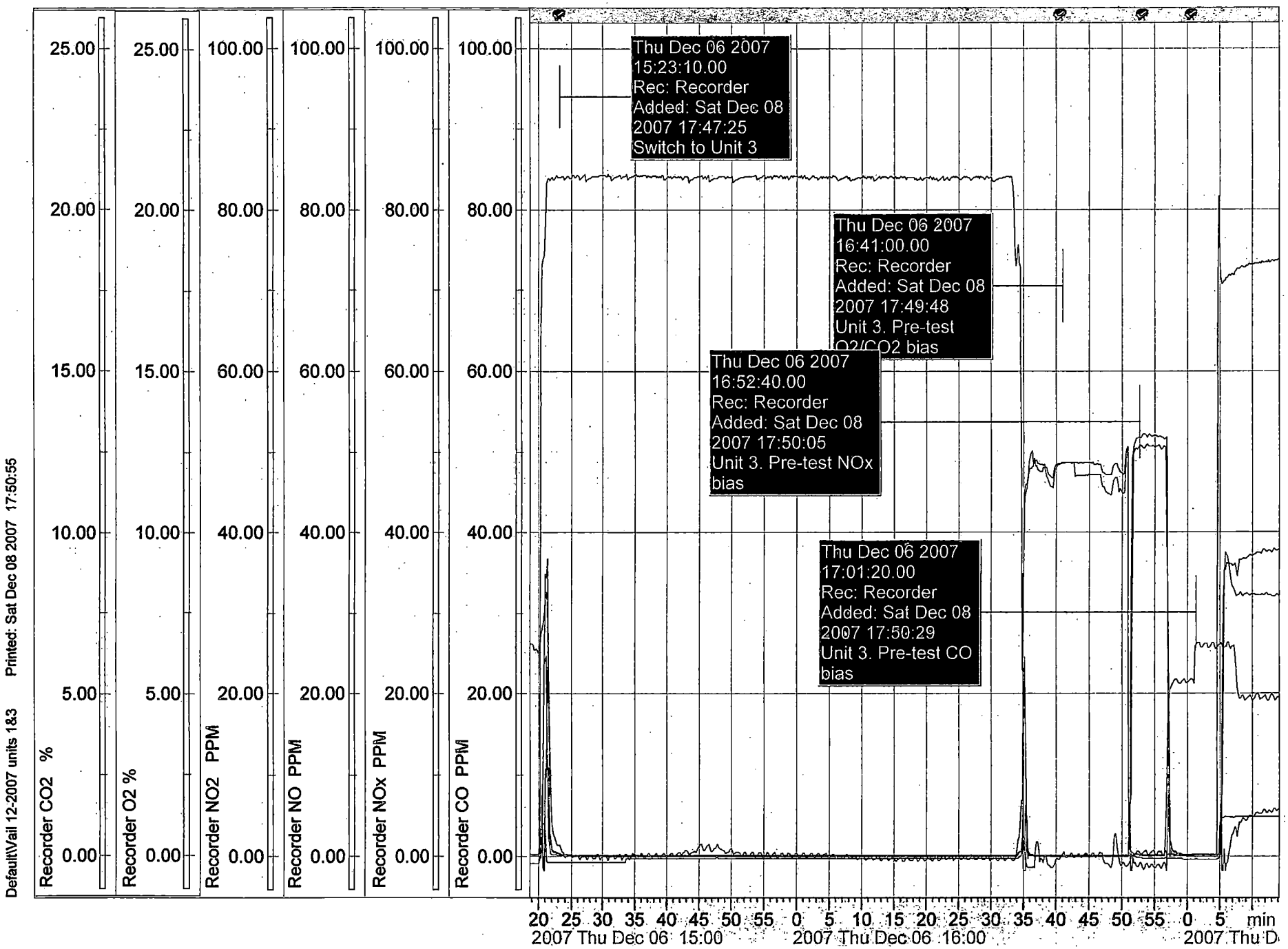
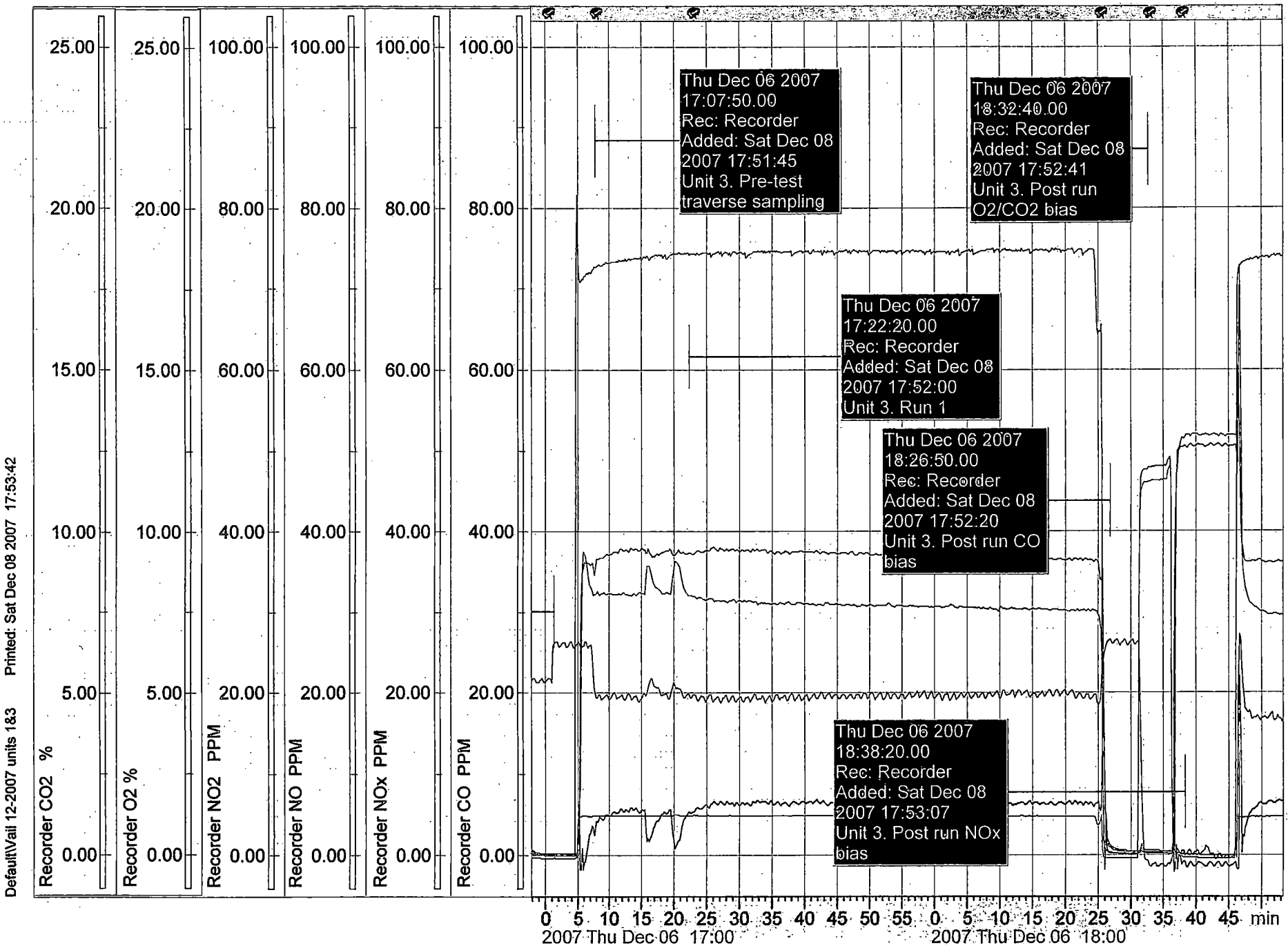
Recorder CO2 %
Recorder O2 %
Recorder NO2 PPM
Recorder NO PPM
Recorder NOx PPM
Recorder CO PPM
25.00
20.00
15.00
10.00
5.00
0.00
100.00
80.00
60.00
40.00
20.00
Thu Dec 06 2007
14:01:30.00
Rec: Recorder
Added: Sat Dec 08
2007 17:45:30
Unit 1. Run 3
Thu Dec 06 2007
15:08:50.00
Rec: Recorder
Added: Sat Dec 08
2007 17:46:21
Unit 1. Post run NOx
bias
Thu Dec 06 2007
15:03:30.00
Rec: Recorder
Added: Sat Dec 08
2007 17:46:04
Unit 1. Post run
O2/CO2 bias
Thu Dec 06 2007
15:15:30.00
Rec: Recorder
Added: Sat Dec 08
2007 17:46:45
Unit 1. Post run CO
bias
Thu Dec 06 20
15:23:10.00
Rec: Recorder
Added: Sat Dec
2007 17:47:25
Switch to Unit 3
45 50 55 0 5 10 15 20 25 30 35 40 45 50 55 0 5 10 15 20 25 30 min
06 13:00 2007 Thu Dec 06 14:00
2007 Thu Dec 06 15:00


Thu Dec 06 2007
15:23:10.00
Rec: Recorder
Added: Sat Dec 08
2007 17:47:25
Switch to Unit 3
Thu Dec 06 2007
16:41:00.00
Rec: Recorder
Added: Sat Dec 08
2007 17:49:48
Unit 3. Pre-test
O2/CO2 bias
Thu Dec 06 2007
16:52:40.00
Rec: Recorder
Added: Sat Dec 08
2007 17:50:05
Unit 3. Pre-test NOx
bias
Thu Dec 06 2007
17:01:20.00
Rec: Recorder
Added: Sat Dec 08
2007 17:50:29
Unit 3. Pre-test CO
bias
Recorder CO2 %
Recorder O2 %
Recorder NO2 PPM
Recorder NO PPM
Recorder NOx PPM
Recorder CO PPM
25.00
20.00
15.00
10.00
5.00
0.00
100.00
80.00
60.00
40.00
20.00
0.00
20 25 30 35 40 45 50 55 0 5 10 15 20 25 30 35 40 45 50 55 0 5 min
2007 Thu Dec 06 15:00
2007 Thu Dec 06 16:00
2007 Thu D
Default\Vail 12-2007 units 1&3
Printed: Sat Dec 08 2007 17:50:55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Recorder CO2 %
Recorder O2 %
Recorder NO2 PPM
Recorder NO PPM
Recorder NOx PPM
Recorder CO PPM
25.00
20.00
15.00
10.00
5.00
0.00
100.00
80.00
60.00
40.00
20.00
Thu Dec 06 2007 17:07:50.00 Rec: Recorder Added: Sat Dec 08 2007 17:51:45 Unit 3. Pre-test traverse sampling
Thu Dec 06 2007 18:32:40.00 Rec: Recorder Added: Sat Dec 08 2007 17:52:41 Unit 3. Post run O2/CO2 bias
Thu Dec 06 2007 17:22:20.00 Rec: Recorder Added: Sat Dec 08 2007 17:52:00 Unit 3. Run 1
Thu Dec 06 2007 18:26:50.00 Rec: Recorder Added: Sat Dec 08 2007 17:52:20 Unit 3. Post run CO bias
Thu Dec 06 2007 18:38:20.00 Rec: Recorder Added: Sat Dec 08 2007 17:53:07 Unit 3. Post run NOx bias
0 5 10 15 20 25 30 35 40 45 50 55 0 5 10 15 20 25 30 35 40 45 min
2007 Thu Dec 06 17:00
2007 Thu Dec 06 18:00

Sample Line Leak Check

Station: Vail
Date: 12/6/07
Unit: 1 & 3

Pre-test Leak Check	Pass	
Time of Day	8:20:00	
Duration	1	Minute
Initial Vacuum	-18	"Hg
Final Vacuum	-18	"Hg
Post-test Leak Check	**Pass**	
Time of Day	19:42:00	
Duration	1	Minute
Initial Vacuum	-18	"Hg
Final Vacuum	-17.8	"Hg

Sample Line Leak Check

Station: Vail
Date: 12/7/07
Unit: 2

Pre-test Leak Check	Pass	
Time of Day	7:14:00	
Duration	1	Minute
Initial Vacuum	-19	"Hg
Final Vacuum	-19	"Hg
Post-test Leak Check	**Pass**	
Time of Day	12:17:00	
Duration	1	Minute
Initial Vacuum	-18	"Hg
Final Vacuum	-18	"Hg

Bias Check Calculations

Bias Check Calculations

EPNG Vail Unit 1

Run	1-1	1-2	1-3	Average
NO_X Measured PPM (C_{bar})	45.41	43.70	42.91	44.01
NO_X Average Zero Gas Bias (C_o)	0.32	0.45	0.65	0.47
NO_X Average Span Gas Bias (C_m)	50.99	51.00	50.87	50.95
NO_X Calibration Gas Concentration (C_{ma})	51.20	51.20	51.20	51.20
NO_X Corrected PPM (C_{gas})	45.56	43.81	43.09	44.15
O_2 Measured PPM (C_{bar})	18.06	18.05	18.15	18.09
O_2 Average Zero Gas Bias (C_o)	0.03	0.03	0.03	0.03
O_2 Average Span Gas Bias (C_m)	12.28	12.16	12.19	12.21
O_2 Calibration Gas Concentration (C_{ma})	12.10	12.10	12.10	12.10
O_2 Corrected PPM (C_{gas})	17.82	17.98	18.03	17.94
CO Measured PPM (C_{bar})	15.35	17.65	16.05	16.35
CO Average Zero Gas Bias (C_o)	0.205	0.145	0.245	0.198
CO Average Span Gas Bias (C_m)	25.50	25.60	25.70	25.60
CO Calibration Gas Concentration (C_{ma})	25.70	25.70	25.70	25.70
CO Corrected PPM (C_{gas})	15.39	17.68	15.96	16.34
CO_2 Measured PPM (C_{bar})	1.03	1.19	1.39	1.20
CO_2 Average Zero Gas Bias (C_o)	-0.40	-0.32	-0.22	-0.31
CO_2 Average Span Gas Bias (C_m)	12.46	12.46	12.35	12.42
CO_2 Calibration Gas Concentration (C_{ma})	12.10	12.10	12.10	12.10
CO_2 Corrected PPM (C_{gas})	1.34	1.43	1.55	1.44

Bias Check Calculations

EPNG Vail Unit 2

Run	1-1	1-2	1-3	Average
NO_X Measured PPM (C_{bar})	31.02	32.57	33.42	32.34
NO_X Average Zero Gas Bias (C_o)	0.54	0.50	0.48	0.51
NO_X Average Span Gas Bias (C_m)	50.64	51.85	52.08	51.52
NO_X Calibration Gas Concentration (C_{ma})	51.20	51.20	51.20	51.20
NO_X Corrected PPM (C_{gas})	31.15	31.98	32.69	31.94
O_2 Measured PPM (C_{bar})	18.40	18.83	18.79	18.67
O_2 Average Zero Gas Bias (C_o)	0.01	-0.04	-0.03	-0.02
O_2 Average Span Gas Bias (C_m)	12.08	12.22	12.20	12.17
O_2 Calibration Gas Concentration (C_{ma})	12.10	12.10	12.10	12.10
O_2 Corrected PPM (C_{gas})	18.44	18.63	18.62	18.56
CO Measured PPM (C_{bar})	28.71	22.76	23.85	25.11
CO Average Zero Gas Bias (C_o)	-0.185	0.105	0.140	0.020
CO Average Span Gas Bias (C_m)	25.54	25.23	24.85	25.20
CO Calibration Gas Concentration (C_{ma})	25.70	25.70	25.70	25.70
CO Corrected PPM (C_{gas})	28.87	23.17	24.66	25.57
CO_2 Measured PPM (C_{bar})	1.20	1.21	1.22	1.21
CO_2 Average Zero Gas Bias (C_o)	-0.08	-0.08	-0.08	-0.08
CO_2 Average Span Gas Bias (C_m)	12.09	12.15	12.13	12.12
CO_2 Calibration Gas Concentration (C_{ma})	12.10	12.10	12.10	12.10
CO_2 Corrected PPM (C_{gas})	1.27	1.28	1.29	1.28

Bias Check Calculations

EPNG Vail Unit 3

Run	1-1	1-2	1-3	Average
NO_X Measured PPM (C_{bar})	36.86	35.46	33.81	35.38
NO_X Average Zero Gas Bias (C_o)	0.34	0.51	0.78	0.54
NO_X Average Span Gas Bias (C_m)	50.41	50.46	50.48	50.45
NO_X Calibration Gas Concentration (C_{ma})	51.20	51.20	51.20	51.20
NO_X Corrected PPM (C_{gas})	37.34	35.83	34.03	35.73
O_2 Measured PPM (C_{bar})	18.75	18.72	18.91	18.79
O_2 Average Zero Gas Bias (C_o)	0.01	0.02	0.01	0.01
O_2 Average Span Gas Bias (C_m)	12.10	12.07	12.03	12.07
O_2 Calibration Gas Concentration (C_{ma})	12.10	12.10	12.10	12.10
O_2 Corrected PPM (C_{gas})	18.75	18.77	19.03	18.85
CO Measured PPM (C_{bar})	20.07	17.79	20.75	19.54
CO Average Zero Gas Bias (C_o)	-0.050	-0.040	0.090	0.000
CO Average Span Gas Bias (C_m)	26.60	26.49	26.18	26.42
CO Calibration Gas Concentration (C_{ma})	25.70	25.70	25.70	25.70
CO Corrected PPM (C_{gas})	19.40	17.28	20.36	19.01
CO_2 Measured PPM (C_{bar})	1.41	1.38	1.40	1.40
CO_2 Average Zero Gas Bias (C_o)	-0.02	-0.04	-0.05	-0.04
CO_2 Average Span Gas Bias (C_m)	12.16	12.21	12.35	12.24
CO_2 Calibration Gas Concentration (C_{ma})	12.10	12.10	12.10	12.10
CO_2 Corrected PPM (C_{gas})	1.42	1.40	1.41	1.41

Response Time Checks

Response Time Check

Station: Vail
Date: 6-Dec-07

NO_x Analyzer: TECO 42i-HL
S/N: 0719322711

Span Gas Concentration:		51.2	
Analyzer Span Setting:		101	
Upscale:			
	1)	105	seconds
	2)	115	seconds
	3)	112	seconds
Average upscale response:		111	
Downscale:			
	1)	104	seconds
	2)	108	seconds
	3)	112	seconds
Average downscale response:		108	

CO Analyzer: TECO 48C
S/N: 0427408863

Span Gas Concentration:		25.7	
Analyzer Span Setting:		50	
Upscale:			
	1)	100	seconds
	2)	95	seconds
	3)	100	seconds
Average upscale response:		98	
Downscale:			
	1)	90	seconds
	2)	110	seconds
	3)	120	seconds
Average downscale response:		107	

O_2 Analyzer: Servomex 1400
S/N: 14200/3093

Span Gas Concentration:		12.1	
Analyzer Span Setting:		21	
Upscale:			
	1)	35	seconds
	2)	36	seconds
	3)	40	seconds
Average upscale response:		37	
Downscale:			
	1)	38	seconds
	2)	36	seconds
	3)	40	seconds
Average downscale response:		38	

CO_2 Analyzer: Servomex 1400
S/N: 14150/3093

Span Gas Concentration:		12.1	
Analyzer Span Setting:		21.5	
Upscale:			
	1)	37	seconds
	2)	39	seconds
	3)	42	seconds
Average upscale response:		39	
Downscale:			
	1)	41	seconds
	2)	39	seconds
	3)	41	seconds
Average downscale response:		40	

Slowest Average Time= 111 seconds

Fuel Gas Analysis

PssView [meterstation5runepng] Printed: 12/6/2007 7:59:31 AM

05209

Current Flow

	Meter Number	Plate Size	Meter Type	Tube Size (ID)
Run 1	052090			
Run 2				
Run 3				
Run 4				
Run 5				

	Diff Press	Pressure	Temp	FLOW Volume	FLOW Energy	ACCUMULATION Volume	ACCUMULATION Energy
Run 1		730.9	70.3	41.1			
Run 2							
Run 3							
Run 4							
Run 5							
Total							

Previous Day

	ACCUMULATION Volume	ACCUMULATION Energy
Run 1		
Run 2		
Run 3		
Run 4		
Run 5		
Total		

Gas Analysis

Stream 1	Component	Stream 2
0.043	Hexane - C6+	
0.358	Propane - C3	
0.049	Iso-Butane - IC4	
0.067	N-Butane - NC4	
0.022	IsoPentane- IC5	
0.016	N-Pentane- NC5	
1.662	Nitrogen - N2	
94.822	Methane - C1	
0.53	CO2	
2.429	Ethane - C2	
0.586	SPG	
1021.7	BTU	
	Un-Norm Total	
	Helium - He	
	Oxygen - O2	
0	GC Alarm	
74901	Time of Analysis	
120607	Date of Analysis	

MiscInfo

ACF	31300
CHROMSTAT	0

Discrete Analog

Sample Calculations

SAMPLE CALCULATIONS

EPA F-Factor

EPNG Vail unit A-1. GE M3002-RA Gas Turbine. Sample Run 1

$$F_d = \frac{\left[(3.64 \cdot H_{Wt\%} \cdot 100) + (1.53 \cdot C_{Wt\%} \cdot 100) + (0.14 \cdot N_{2Wt\%} \cdot 100) - (0.46 \cdot O_{2Wt\%} \cdot 100)\right]}{\frac{GCV}{\rho_{FuelGas}}} \cdot 10^6$$

Given:

$H_{Wt\%}$ = 0.237401

$C_{Wt\%}$ = 0.724747

$N_{2Wt\%}$ = 0.027802

$O_{2Wt\%}$ = 0.010050

GCV = 1019 BTU/dscf

$\rho_{Fuel\ Gas}$ = 0.0450 lb/scf

Where:

Fd	Fuel specific F-factor (dscf / MMBTU)
$H_{wt\%}$	Hydrogen weight percent
$C_{wt\%}$	Carbon weight percent
$N_{2wt\%}$	Nitrogen weight percent
$O_{2wt\%}$	Oxigen weight percent
GCV	Upper dry heating value of fuel (BTU / dscf)
$\rho f_{fuel\ gas}$	Density of fuel gas (lb / scf)

Result:

$$F_d = \frac{\left[(3.64 \cdot 23.7401) + (1.53 \cdot 72.4747) + (0.14 \cdot 2.7802) - (0.46 \cdot 1.005)\right]}{\frac{1019\ BTU/dscf}{0.0450\ lb/scf}} \cdot 10^6$$

$$F_d = 8{,}709.738\ dscf / MMBTU$$

FUEL FLOW

EPNG Vail unit A-1. GE M3002-RA Gas Turbine. Sample Run 1

Orifice Flow Constant:

$$C' = Fb \times Fpb \times Fg \times Ftf \times Fr \times Y2 \times Fpv \times Fm$$

$$C' = 581.0142$$

Flow Quantity:

$$Qh = C' \times \sqrt{H_w \times (P_f + Atm)}$$

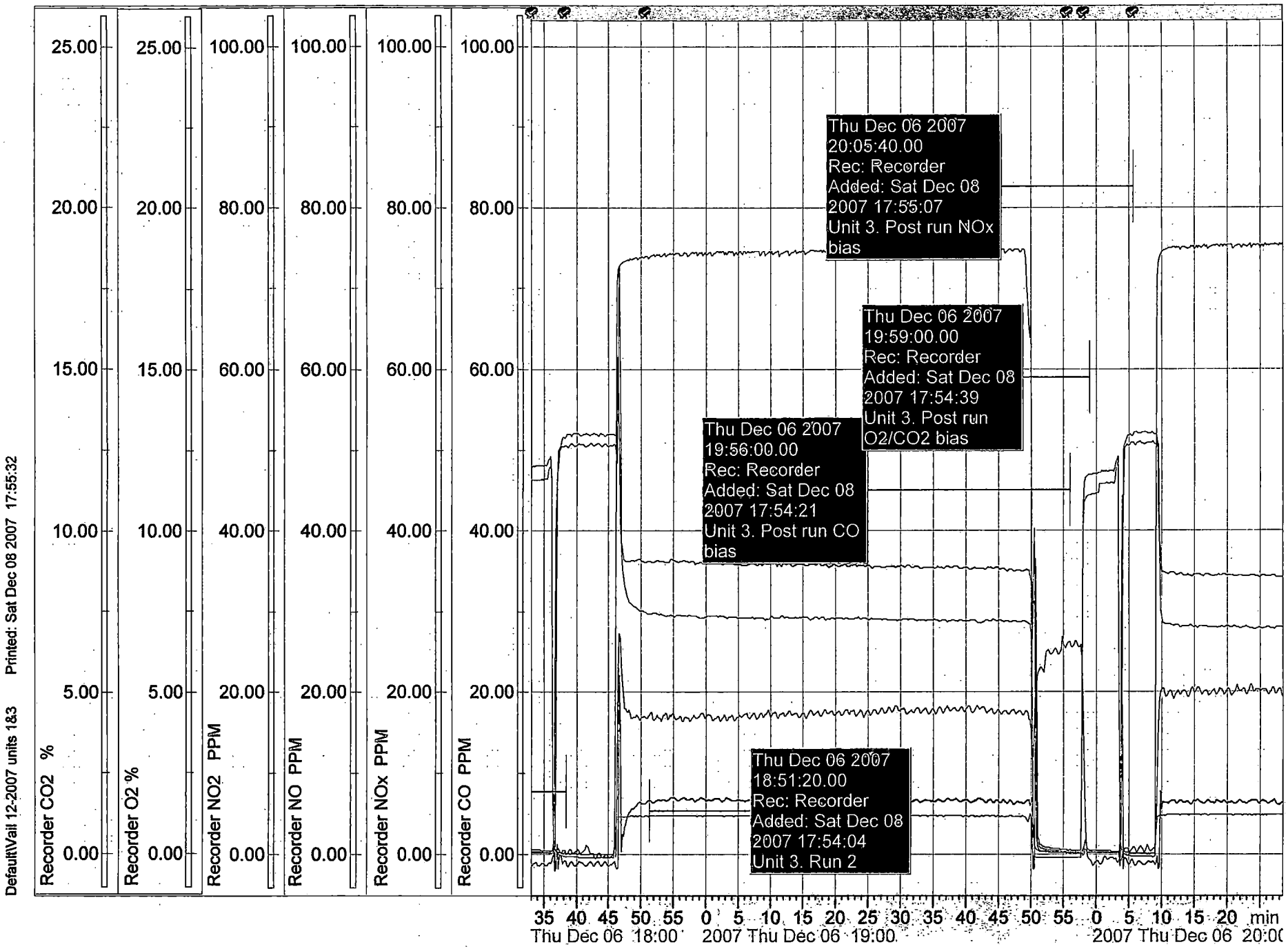
$$Qh = 62{,}756 \frac{ft^3}{hr}$$

Given:

Fb = 433.504	Fr = 1
Fpb = 1	Y2 = 1.0096
Fg = 1.0023	Fpv = 1.0130
Ftf = 1	Fm = 1.3065
Hw = 74.2 in. H_2O	Pf = 142 psi
Atm = 13.23 psi	

Nomenclature:

Q_h:	Quantity of flow at base conditions, ft.^{3}/hr	F_{tf}:	Flowing temperature factor
Q_{tm}:	Quantity of flow at base conditions, SCFM	F_r:	Reynolds number factor
C':	Orifice flow constant	Y_2:	Expansion factor (pressure from downstream tap)
F_b:	Basic orifice flow factor	F_{pv}:	Super compressibility factor
F_{pb}:	Pressure base factor	F_m:	Manometer factor
F_{tb}:	Temperature base factor	H_w:	Differential pressure in inches of water
F_g:	Specific gravity factor	P_f:	Static pressure, psia
		Atm:	Atmospheric pressure, psia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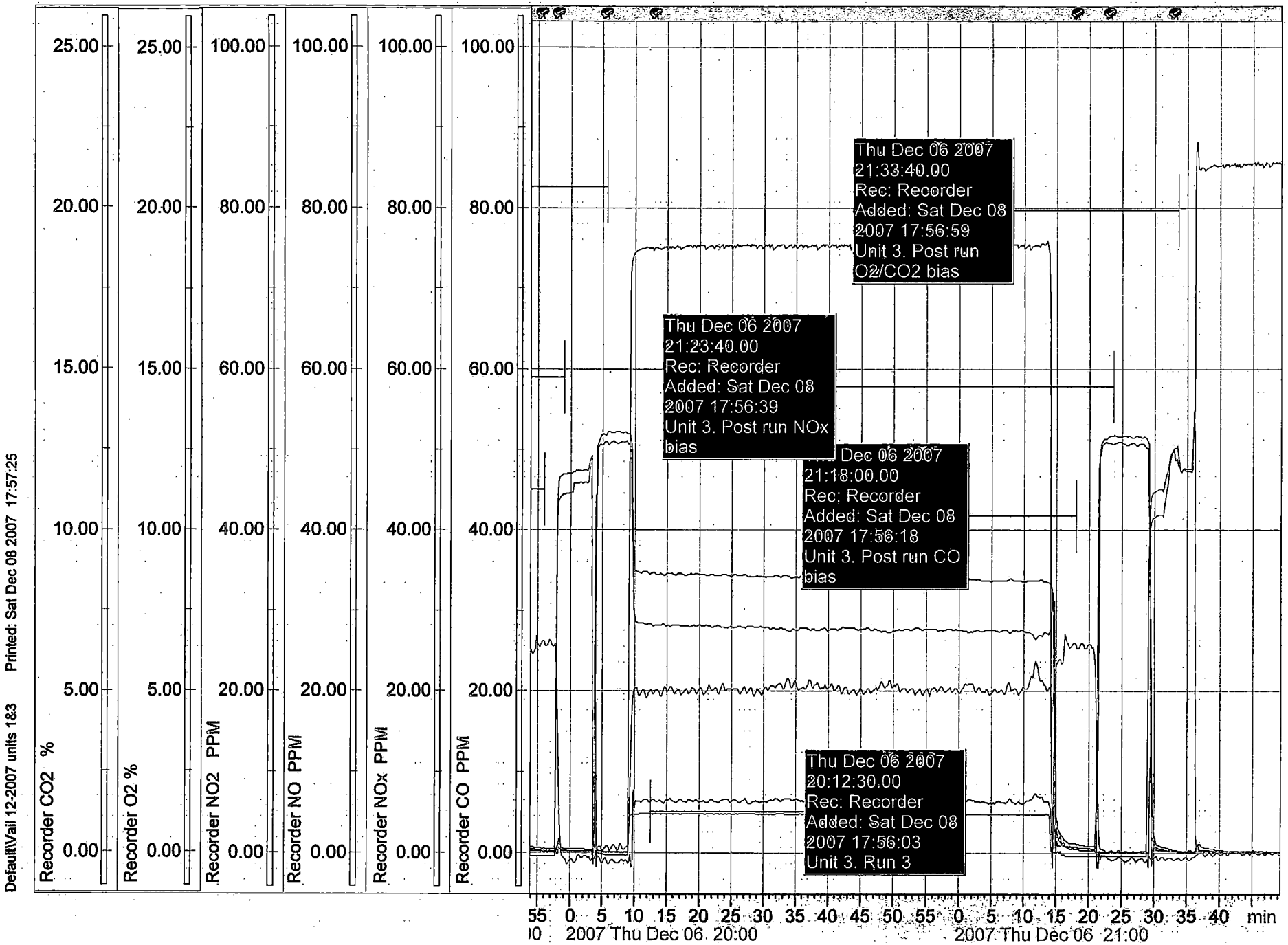
Recorder CO2 %
Recorder O2 %
Recorder NO2 PPM
Recorder NO PPM
Recorder NOx PPM
Recorder CO PPM
25.00
20.00
15.00
10.00
5.00
0.00
100.00
80.00
60.00
40.00
20.00
0.00
Thu Dec 06 2007 20:05:40.00 Rec: Recorder Added: Sat Dec 08 2007 17:55:07 Unit 3. Post run NOx bias
Thu Dec 06 2007 19:59:00.00 Rec: Recorder Added: Sat Dec 08 2007 17:54:39 Unit 3. Post run O2/CO2 bias
Thu Dec 06 2007 19:56:00.00 Rec: Recorder Added: Sat Dec 08 2007 17:54:21 Unit 3. Post run CO bias
Thu Dec 06 2007 18:51:20.00 Rec: Recorder Added: Sat Dec 08 2007 17:54:04 Unit 3. Run 2
35 40 45 50 55 0 5 10 15 20 25 30 35 40 45 50 55 0 5 10 15 20 min
Thu Dec 06 18:00
2007 Thu Dec 06 19:00
2007 Thu Dec 06 20:0(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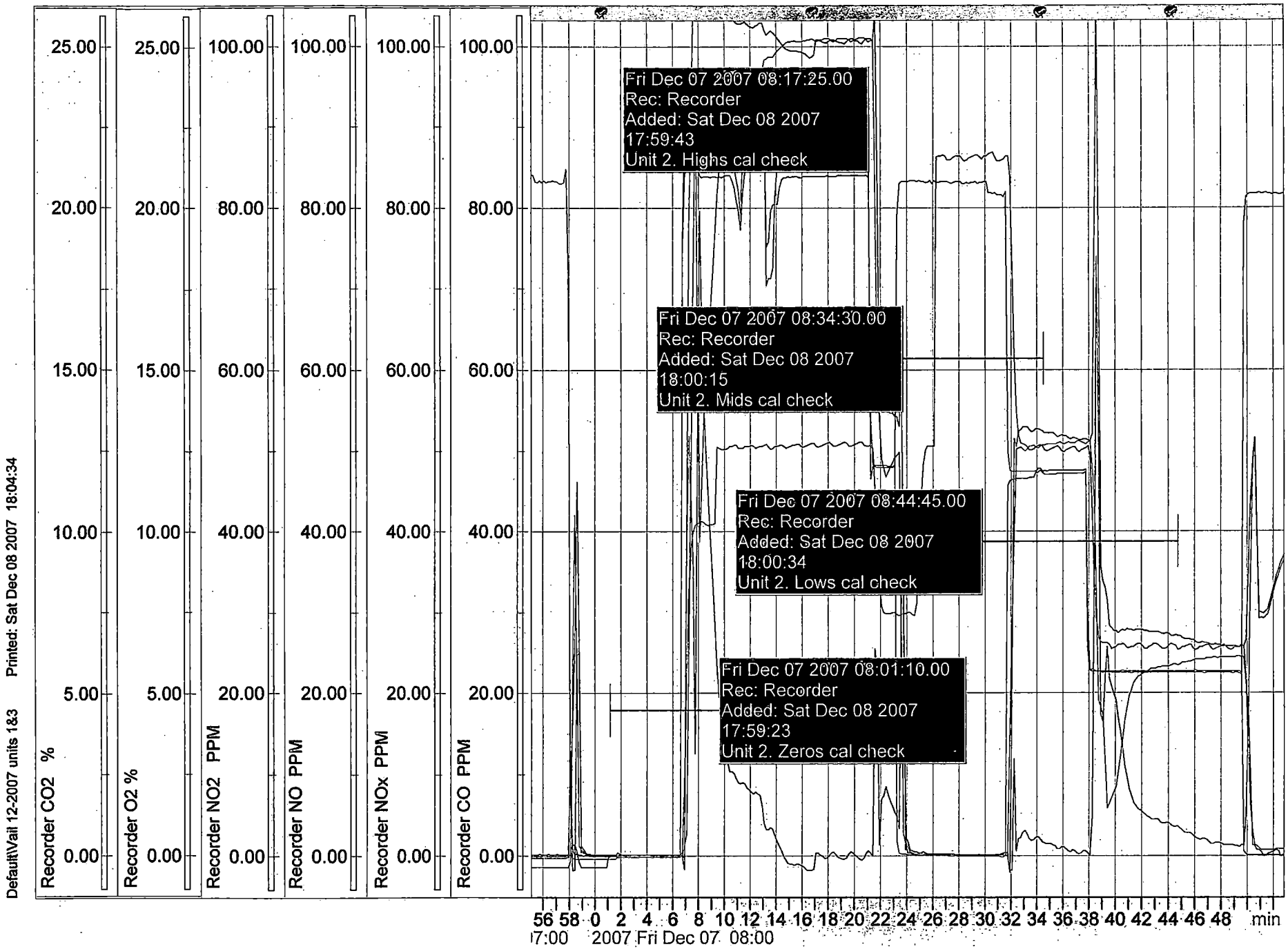
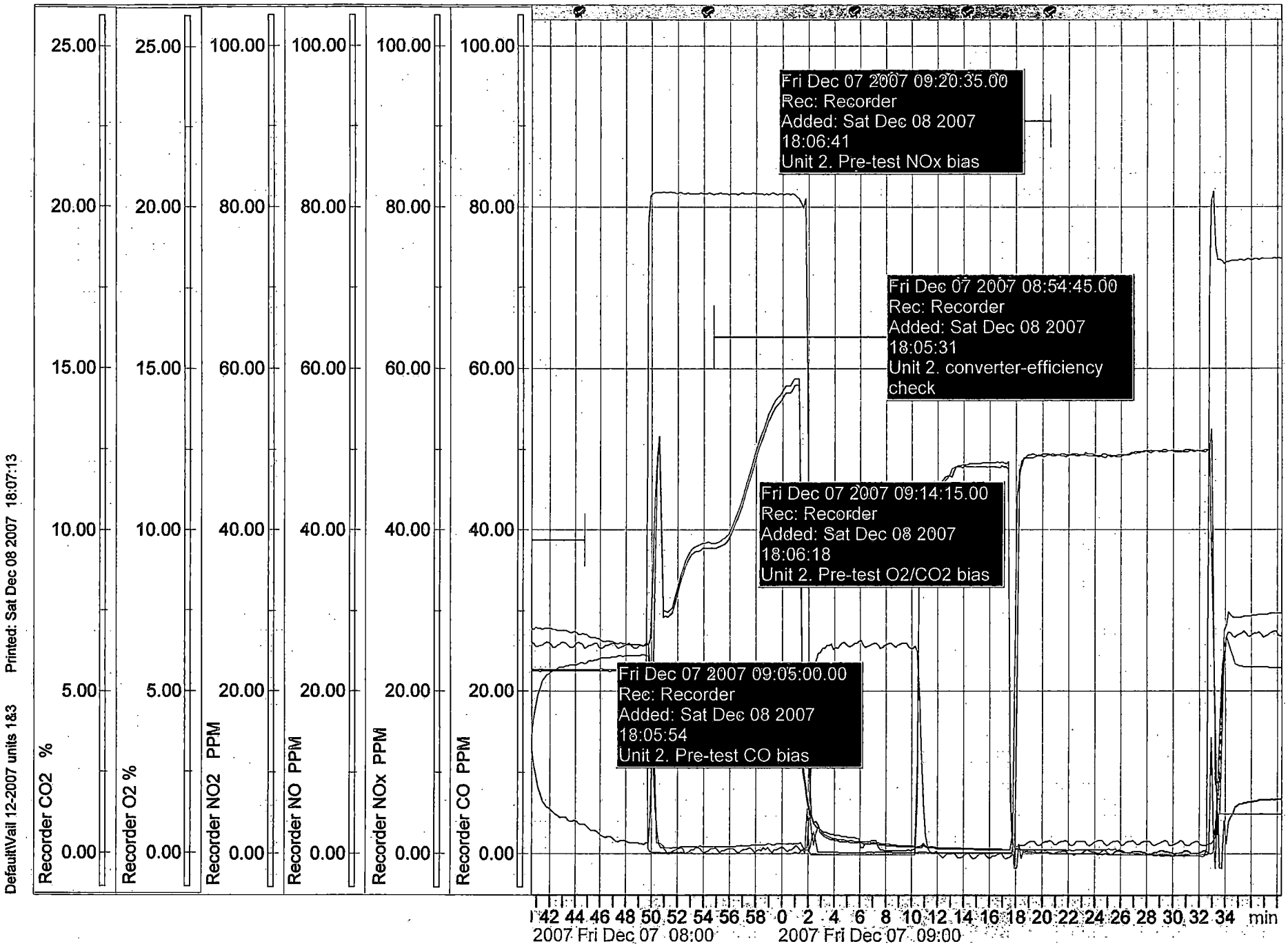
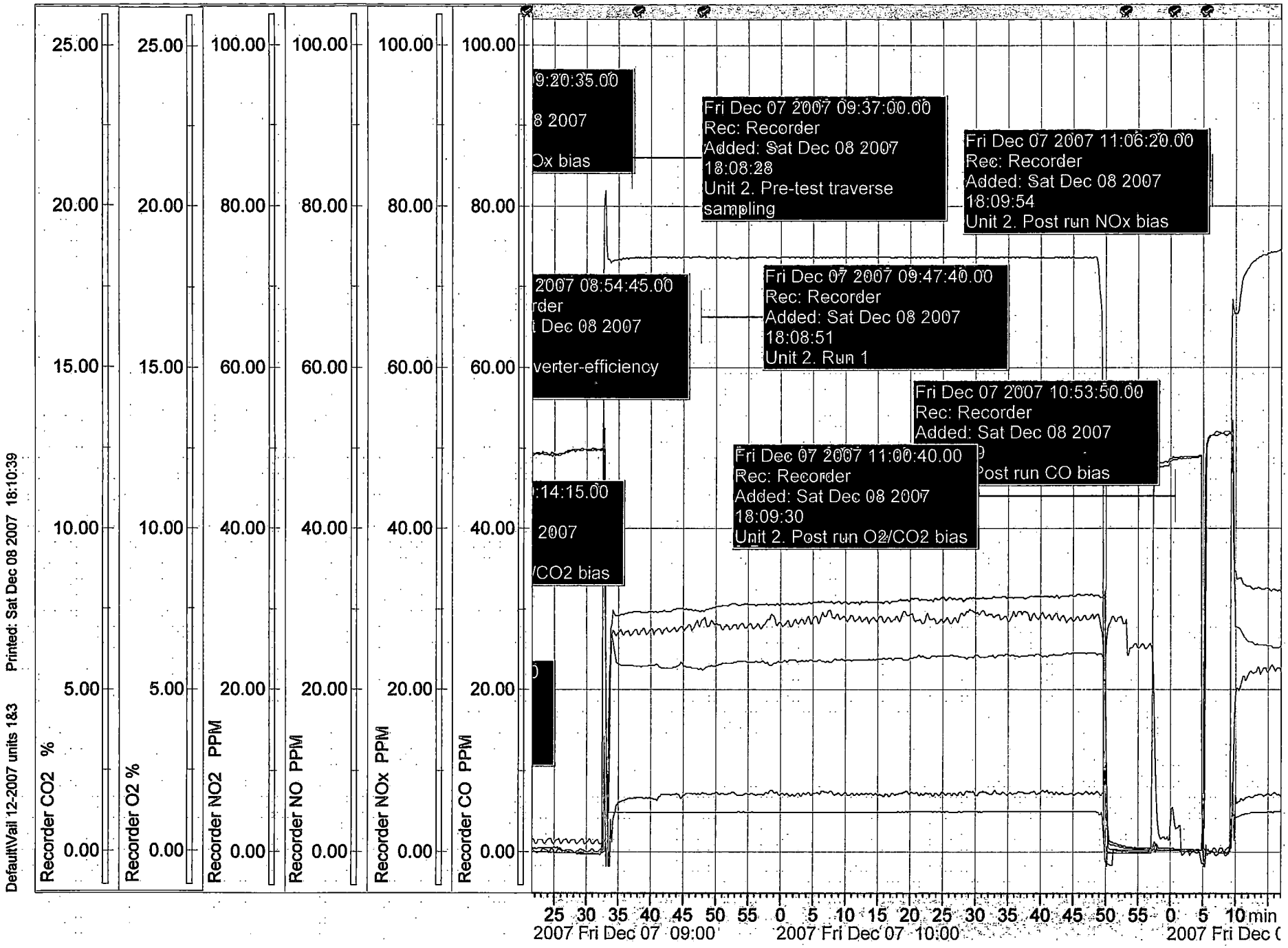
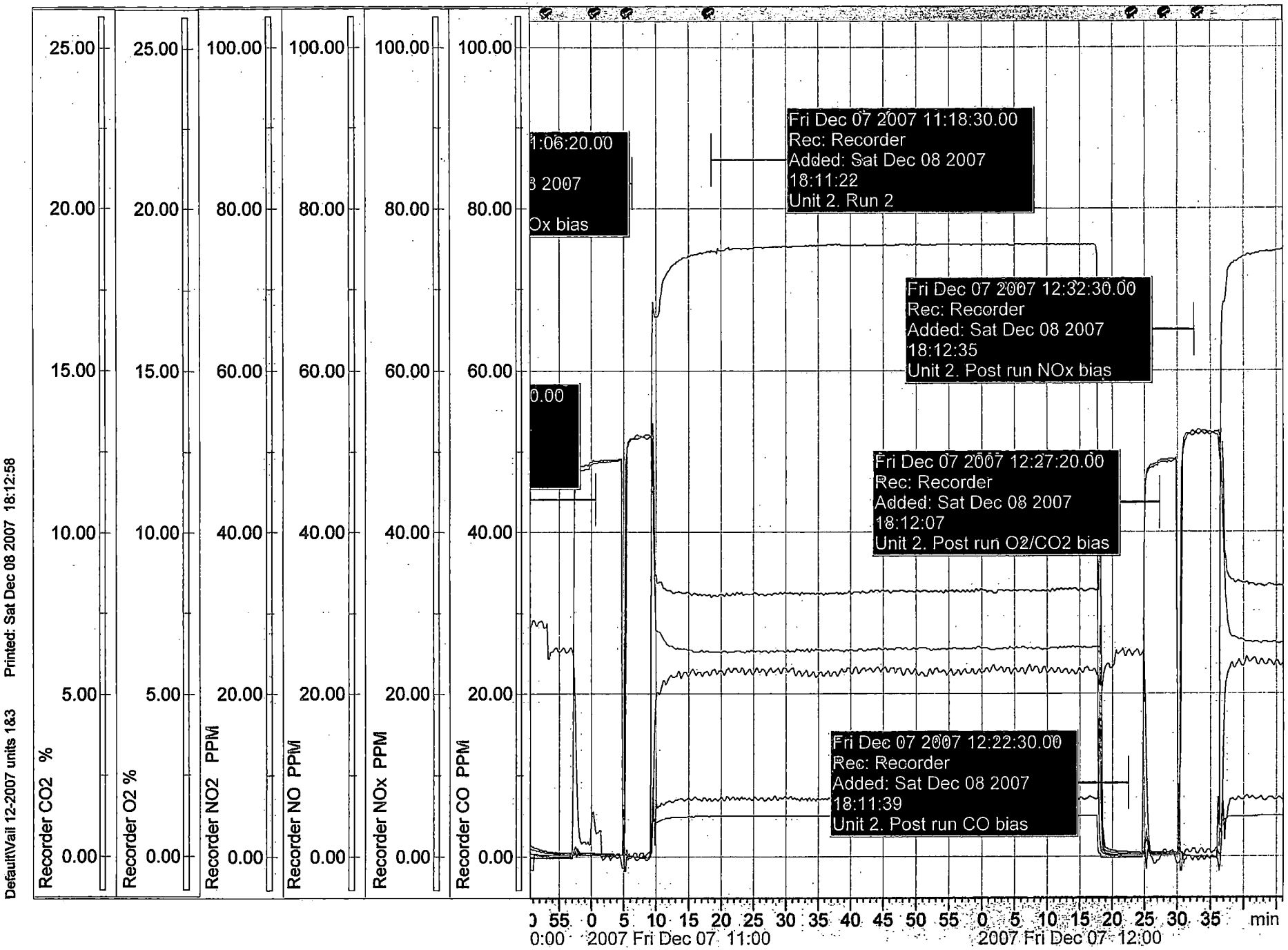
Recorder CO2 %
Recorder O2 %
Recorder NO2 PPM
Recorder NO PPM
Recorder NOx PPM
Recorder CO PPM
25.00
20.00
15.00
10.00
5.00
0.00
100.00
80.00
60.00
40.00
20.00
Thu Dec 06 2007
21:33:40.00
Rec: Recorder
Added: Sat Dec 08
2007 17:56:59
Unit 3. Post run
O2/CO2 bias
Thu Dec 06 2007
21:23:40.00
Rec: Recorder
Added: Sat Dec 08
2007 17:56:39
Unit 3. Post run NOx
bias
Dec 06 2007
21:18:00.00
Rec: Recorder
Added: Sat Dec 08
2007 17:56:18
Unit 3. Post run CO
bias
Thu Dec 06 2007
20:12:30.00
Rec: Recorder
Added: Sat Dec 08
2007 17:56:03
Unit 3. Run 3
55 0 5 10 15 20 25 30 35 40 45 50 55 0 5 10 15 20 25 30 35 40 min
2007 Thu Dec 06 20:00
2007 Thu Dec 06 21:00

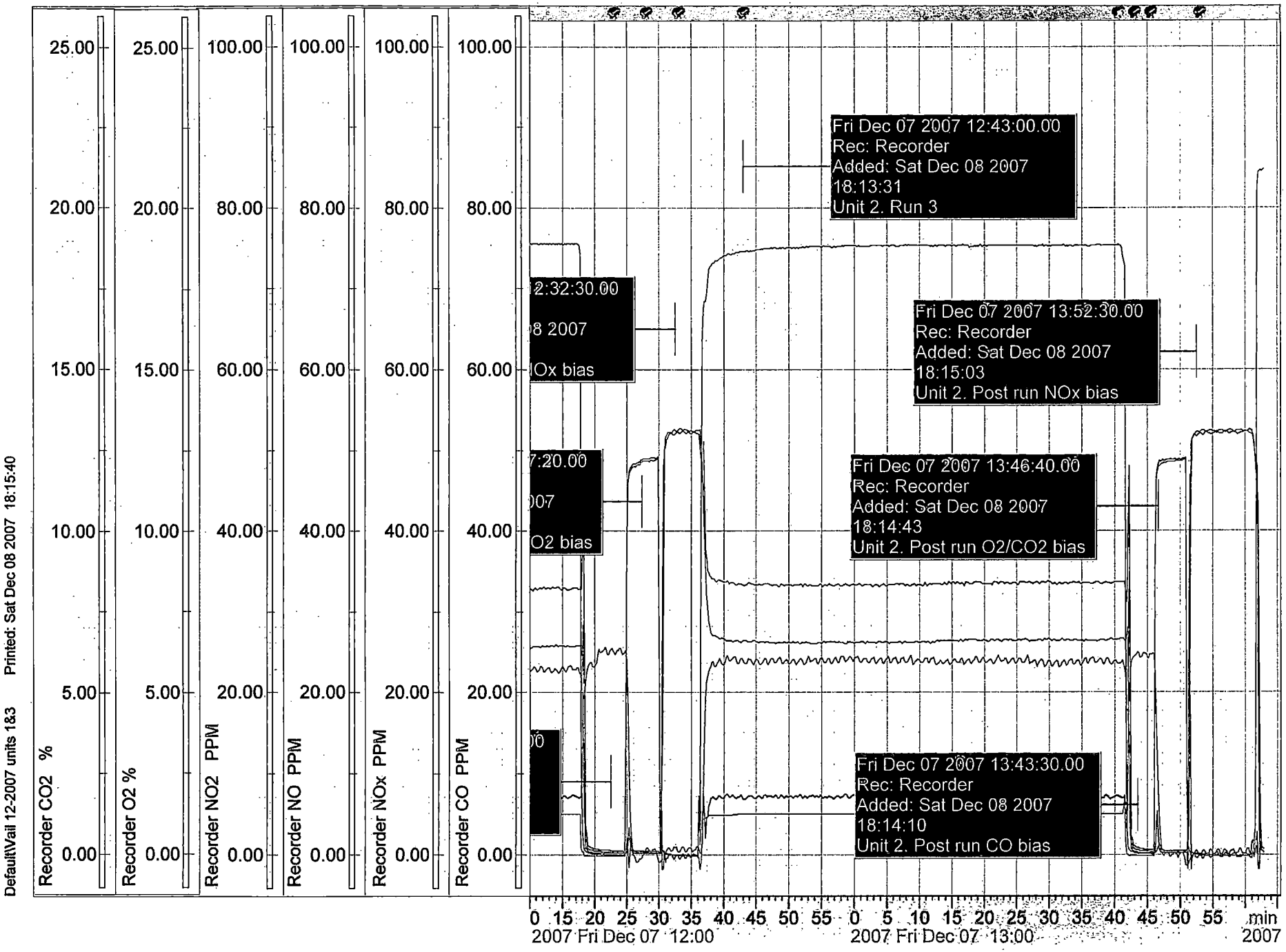


DefaultVail 12-2007 units 1&3 Printed: Sat Dec 08 2007 18:04:34


Fri Dec 07 2007 09:20:35.00
Rec: Recorder
Added: Sat Dec 08 2007
18:06:41
Unit 2. Pre-test NOx bias
Fri Dec 07 2007 08:54:45.00
Rec: Recorder
Added: Sat Dec 08 2007
18:05:31
Unit 2. converter-efficiency check
Fri Dec 07 2007 09:14:15.00
Rec: Recorder
Added: Sat Dec 08 2007
18:06:18
Unit 2. Pre-test O2/CO2 bias
Fri Dec 07 2007 09:05:00.00
Rec: Recorder
Added: Sat Dec 08 2007
18:05:54
Unit 2. Pre-test CO bias
Recorder CO2 %
Recorder O2 %
Recorder NO2 PPM
Recorder NO PPM
Recorder NOx PPM
Recorder CO PPM
25.00
20.00
15.00
10.00
5.00
0.00
100.00
80.00
60.00
40.00
20.00
0.00
42 44 46 48 50 52 54 56 58 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 min
2007 Fri Dec 07 08:00
2007 Fri Dec 07 09:00
Default\Vail 12-2007 units 1&3
Printed: Sat Dec 08 2007 18:07:13


Default\Vail 12-2007 units 1&3 Printed: Sat Dec 08 2007 18:10:39
Recorder CO2 %
Recorder O2 %
Recorder NO2 PPM
Recorder NO PPM
Recorder NOx PPM
Recorder CO PPM
25.00
20.00
15.00
10.00
5.00
0.00
100.00
80.00
60.00
40.00
20.00
Fri Dec 07 2007 09:37:00.00
Rec: Recorder
Added: Sat Dec 08 2007
18:08:28
Unit 2. Pre-test traverse
sampling
Fri Dec 07 2007 11:06:20.00
Rec: Recorder
Added: Sat Dec 08 2007
18:09:54
Unit 2. Post run NOx bias
Fri Dec 07 2007 09:47:40.00
Rec: Recorder
Added: Sat Dec 08 2007
18:08:51
Unit 2. Run 1
Fri Dec 07 2007 10:53:50.00
Rec: Recorder
Added: Sat Dec 08 2007
Fri Dec 07 2007 11:00:40.00
Rec: Recorder
Added: Sat Dec 08 2007
18:09:30
Unit 2. Post run O2/CO2 bias
25 30 35 40 45 50 55 0 5 10 15 20 25 30 35 40 45 50 55 0 5 10 min
2007 Fri Dec 07 09:00
2007 Fri Dec 07 10:00


Default\Vail 12-2007 units 1&3 Printed: Sat Dec 08 2007 18:12:58
Recorder CO2 %
Recorder O2 %
Recorder NO2 PPM
Recorder NO PPM
Recorder NOx PPM
Recorder CO PPM
25.00
20.00
15.00
10.00
5.00
0.00
100.00
80.00
60.00
40.00
20.00
0.00
1:06:20.00
3 2007
Ox bias
0.00
Fri Dec 07 2007 11:18:30.00
Rec: Recorder
Added: Sat Dec 08 2007
18:11:22
Unit 2. Run 2
Fri Dec 07 2007 12:32:30.00
Rec: Recorder
Added: Sat Dec 08 2007
18:12:35
Unit 2. Post run NOx bias
Fri Dec 07 2007 12:27:20.00
Rec: Recorder
Added: Sat Dec 08 2007
18:12:07
Unit 2. Post run O2/CO2 bias
Fri Dec 07 2007 12:22:30.00
Rec: Recorder
Added: Sat Dec 08 2007
18:11:39
Unit 2. Post run CO bias
0 55 0 5 10 15 20 25 30 35 40 45 50 55 0 5 10 15 20 25 30 35 min
0:00 2007 Fri Dec 07 11:00
2007 Fri Dec 07 12:00


DefaultVail 12-2007 units 1&3
Printed: Sat Dec 08 2007 18:15:40
Recorder CO2 %
Recorder O2 %
Recorder NO2 PPM
Recorder NO PPM
Recorder NOx PPM
Recorder CO PPM
25.00
20.00
15.00
10.00
5.00
0.00
100.00
80.00
60.00
40.00
20.00
Fri Dec 07 2007 12:43:00.00
Rec: Recorder
Added: Sat Dec 08 2007
18:13:31
Unit 2. Run 3
Fri Dec 07 2007 13:52:30.00
Rec: Recorder
Added: Sat Dec 08 2007
18:15:03
Unit 2. Post run NOx bias
Fri Dec 07 2007 13:46:40.00
Rec: Recorder
Added: Sat Dec 08 2007
18:14:43
Unit 2. Post run O2/CO2 bias
Fri Dec 07 2007 13:43:30.00
Rec: Recorder
Added: Sat Dec 08 2007
18:14:10
Unit 2. Post run CO bias
0 15 20 25 30 35 40 45 50 55 0 5 10 15 20 25 30 35 40 45 50 55 min
2007 Fri Dec 07 12:00
2007 Fri Dec 07 13:00
2007

Linearity Check Forms

Linearity Checks

Station: Vail
Unit: 1
Model: GE Frame 3
Date: 12/6/2007

Analyzer:	NO_x	CO	O_2	CO_2	THC
Model:	TECO 42i-HL	TECO 48C	Servomex 1400	Servomex 1400	NA
Serial No.:	0719322711	0427408868	14200/3093	14150/3093	NA
Span Value:	101	50.3	21	21.5	NA

	Cyl. #	Cyl. Value (ppm / %)	Analyzer Response		Difference	Percent Difference
			Time	Scan		
NO_x Analyzer						
Zero	ALM041793	0.0	7:10:00	0.09	0.09	0.09%
Mid	AAL069554	51.20	7:20:00	51.55	0.35	0.35%
High	ALM038374	101.00	7:14:00	101.26	0.26	0.26%
Low	1L1048	25.50	7:27:00	25.93	0.43	0.43%
CO Analyzer						
Zero	ALM018182	0.0	7:10:00	-0.27	0.27	0.54%
Mid	ALM051850	50.30	7:20:00	50.35	0.05	0.10%
High	ALM019545	86.00	7:14:00	85.80	0.20	0.40%
Low	ALM039148	25.70	7:27:00	25.77	0.07	0.14%
O_2 Analyzer						
Zero	ALM018182	0.0	7:10:00	-0.03	0.03	0.14%
Mid	ALM036805	12.10	7:20:00	12.08	0.02	0.10%
High	ALM054750	21.00	7:14:00	20.96	0.04	0.19%
Low	ALM047098	5.79	7:27:00	5.81	0.02	0.10%
CO_2 Analyzer						
Zero	ALM018182	0.0	7:10:00	-0.36	0.36	1.67%
Mid	ALM036805	12.10	7:20:00	12.20	0.10	0.47%
High	ALM054750	21.50	7:14:00	21.42	0.08	0.37%
Low	ALM047098	6.02	7:27:00	5.86	0.16	0.74%

Absolute Difference = Final -Initial; Percent Difference= (Absolute Difference / Span Value) x 100

Linearity Checks

Station: Vail
Unit: 2
Model: GE Frame 3
Date: 12/7/2007

Analyzer:	NO_x	CO	O_2	CO_2	THC
Model:	TECO 42i-HL	TECO 48C	Servomex 1400	Servomex 1400	NA
Serial No.:	0719322711	0427408868	14200/3093	14150/3093	NA
Span Value:	101	50.3	21	21.5	NA

	Cyl. #	Cyl. Value (ppm / %)	Analyzer Response		Difference	Percent Difference
			Time	Scan		
NO_x Analyzer						
Zero	ALM041793	0.0	6:09:00	0.00	0.00	0.00%
Mid	AAL069554	51.20	6:40:00	51.45	0.25	0.25%
High	ALM038374	101.00	6:23:00	100.54	0.46	0.46%
Low	1L1048	25.50	6:52:00	25.88	0.38	0.38%
CO Analyzer						
Zero	ALM018182	0.0	6:09:00	-0.02	0.02	0.04%
Mid	ALM051850	50.30	6:40:00	50.15	0.15	0.30%
Low	ALM039148	25.70	6:52:00	25.64	0.06	0.12%
O_2 Analyzer						
Zero	ALM018182	0.0	6:09:00	-0.03	0.03	0.14%
Mid	ALM036805	12.10	6:40:00	11.86	0.24	1.14%
High	ALM054750	21.00	6:23:00	20.97	0.03	0.14%
Low	ALM047098	5.79	6:52:00	5.60	0.19	0.90%
CO_2 Analyzer						
Zero	ALM018182	0.0	6:09:00	-0.08	0.08	0.37%
Mid	ALM036805	12.10	6:40:00	11.75	0.35	1.63%
High	ALM054750	21.50	6:23:00	21.39	0.11	0.51%
Low	ALM047098	6.02	6:52:00	5.65	0.37	1.72%

Absolute Difference = Final -Initial; Percent Difference= (Absolute Difference / Span Value) x 100

Linearity Checks

Station: Vail
Unit: 3
Model: GE Frame 3
Date: 12/6/2007

Analyzer:	NO_X	CO	O_2	CO_2	THC
Model:	TECO 42i-HL	TECO 48C	Servomex 1400	Servomex 1400	NA
Serial No.:	0719322711	0427408868	14200/3093	14150/3093	NA
Span Value:	101	50.3	21	21.5	NA

	Cyl. #	Cyl. Value (ppm / %)	Analyzer Response		Difference	Percent Difference
			Time	Scan		
NO_X Analyzer						
Zero	ALM041793	0.0	7:10:00	0.09	0.09	0.09%
Mid	AAL069554	51.20	7:20:00	51.55	0.35	0.35%
High	ALM038374	101.00	7:14:00	101.26	0.26	0.26%
Low	1L1048	25.50	7:27:00	25.93	0.43	0.43%
CO Analyzer						
Zero	ALM018182	0.0	7:10:00	-0.27	0.27	0.54%
Mid	ALM051850	50.30	7:20:00	50.35	0.05	0.10%
High	ALM019545	86.00	7:14:00	85.80	0.20	0.40%
Low	ALM039148	25.70	7:27:00	25.77	0.07	0.14%
O_2 Analyzer						
Zero	ALM018182	0.0	7:10:00	-0.03	0.03	0.14%
Mid	ALM036805	12.10	7:20:00	12.08	0.02	0.10%
High	ALM054750	21.00	7:14:00	20.96	0.04	0.19%
Low	ALM047098	5.79	7:27:00	5.81	0.02	0.10%
CO_2 Analyzer						
Zero	ALM018182	0.0	7:10:00	-0.36	0.36	1.67%
Mid	ALM036805	12.10	7:20:00	12.20	0.10	0.47%
High	ALM054750	21.50	7:14:00	21.42	0.08	0.37%
Low	ALM047098	6.02	7:27:00	5.86	0.16	0.74%

Absolute Difference = Final -Initial; Percent Difference= (Absolute Difference / Span Value) x 100

System Integrity / Bias Forms

SAMPLE LINE INTEGRITY CHECK

Station	Vail
Unit	1
Model	GE Frame 3
Date	12/6/2007

ANALYZERS	NOx	CO	O_2	CO_2
Analyzer	TECO 42i-HL	TECO 48C	Servomex 1400	Servomex 1400
Serial No.	0719322711	0427408868	14200/3093	14150/3093
Span Value	101	50.3	21	21.5

		PRE-TEST					
		Cal. Gas Through the Complete Calibration System (It)		Cal. Gas Through the Complete Sampling System (Ic)		System Calibration Bias	
		Scan Time	ppm	Scan Time	ppm	(%)	Pass/Fail
NOx Analyzer	Zero response	7:10:00	0.090	8:30:00	0.280	0.19	Pass
	Span Response	7:20:00	51.550	8:36:00	50.850	0.69	Pass
CO Analyzer	Zero response	7:10:00	-0.270	8:30:00	0.270	1.07	Pass
	Span Response	7:20:00	25.770	8:49:00	25.000	1.53	Pass
O_2 Analyzer	Zero response	7:10:00	-0.030	8:36:00	0.040	0.33	Pass
	Span Response	7:20:00	12.080	8:30:00	12.380	1.43	Pass
CO_2 Analyzer	Zero response	7:10:00	-0.360	8:36:00	-0.420	0.28	Pass
	Span Response	7:20:00	12.200	8:30:00	12.620	1.95	Pass

		POST-TEST					
		Cal. Gas Through the Complete Calibration System (It)		Cal. Gas Through the Complete Sampling System (Ic)		System Calibration Bias	
		Scan Time	ppm	Scan Time	ppm	(%)	Pass/Fail
NOx Analyzer	Zero response	7:10:00	0.090	13:09:00	0.760	0.66	Pass
	Span Response	7:20:00	51.550	13:14:00	50.870	0.67	Pass
CO Analyzer	Zero response	7:10:00	-0.270	13:09:00	0.340	1.21	Pass
	Span Response	7:20:00	25.770	13:23:00	26.200	0.85	Pass
O_2 Analyzer	Zero response	7:10:00	-0.030	13:14:00	0.020	0.24	Pass
	Span Response	7:20:00	12.080	13:09:00	12.230	0.71	Pass
CO_2 Analyzer	Zero response	7:10:00	-0.360	13:14:00	-0.160	0.93	Pass
	Span Response	7:20:00	12.200	13:08:00	12.076	0.58	Pass

System Calibration Bias = ((System Cal. Response - Analyzer Cal. Response) / Span) x 100

SAMPLE LINE INTEGRITY CHECK

Station	Vail
Unit	2
Model	GE Frame 3
Date	12/7/2007

ANALYZERS	NOx	CO	O_2	CO_2
Analyzer	TECO 42i-HL	TECO 48C	Servomex 1400	Servomex 1400
Serial No.	0719322711	0427408868	14200/3093	14150/3093
Span Value	101	50.3	21	21.5

		PRE-TEST					
		Cal. Gas Through the Complete Calibration System (It)		Cal. Gas Through the Complete Sampling System (Ic)		System Calibration Bias	
		Scan Time	ppm	Scan Time	ppm	(%)	Pass/Fail
NOx Analyzer	Zero response	6:09:00	0.000	7:19:00	0.590	0.58	Pass
	Span Response	6:40:00	51.452	7:35:00	49.720	1.71	Pass
CO Analyzer	Zero response	6:09:00	-0.020	7:19:00	-0.320	0.60	Pass
	Span Response	6:40:00	25.640	7:11:00	25.700	0.12	Pass
O_2 Analyzer	Zero response	6:09:00	-0.030	7:11:00	0.060	0.43	Pass
	Span Response	6:40:00	11.860	7:19:00	11.940	0.38	Pass
CO_2 Analyzer	Zero response	6:09:00	-0.080	7:11:00	-0.080	0.00	Pass
	Span Response	6:40:00	11.750	7:19:00	12.010	1.21	Pass

		POST-TEST					
		Cal. Gas Through the Complete Calibration System (It)		Cal. Gas Through the Complete Sampling System (Ic)		System Calibration Bias	
		Scan Time	ppm	Scan Time	ppm	(%)	Pass/Fail
NOx Analyzer	Zero response	6:09:00	0.000	11:53:00	0.440	0.44	Pass
	Span Response	6:40:00	51.452	11:58:00	52.000	0.54	Pass
CO Analyzer	Zero response	6:09:00	-0.020	11:53:00	0.020	0.08	Pass
	Span Response	6:40:00	25.640	11:50:00	24.600	2.07	Pass
O_2 Analyzer	Zero response	6:09:00	-0.030	11:50:00	-0.010	0.10	Pass
	Span Response	6:40:00	11.860	11:53:00	12.190	1.57	Pass
CO_2 Analyzer	Zero response	6:09:00	-0.080	11:50:00	-0.080	0.00	Pass
	Span Response	6:40:00	11.750	11:53:00	12.110	1.67	Pass

System Calibration Bias = ((System Cal. Response - Analyzer Cal. Response) / Span) x 100

Calibration / Drift Checks

Station:	Vail
Unit:	1
Model:	GE Frame 3
S/N:	
Date:	12/6/2007

ANALYZER:	NO_x	CO	O_2	CO_2	THC
Model:	TECO 42i-HL	TECO 48C	Servomex 1400	Servomex 1400	NA
Serial No.:	0719322711	0427408868	14200/3093	14150/3093	NA
Span Value:	101	50.3	21	21.5	NA

	CYLINDERS	
	Zero Value	Span Value
NO_x	0	51.2
CO	0	25.7
O_2	0	12.1
CO_2	0	12.1
THC	0	0

		Run 1		Run 2		Run 3	
NO_x Analyzer		Zero	Span	Zero	Span	Zero	Span
Initial Analyzer Response	Time	8:30:00	8:36:00	10:25:00	10:30:00	11:47:00	11:53:00
	Scan	0.28	50.85	0.35	51.13	0.54	50.86
Final Analyzer Response	Time	10:25:00	10:30:00	11:47:00	11:53:00	13:09:00	13:14:00
	Scan	0.35	51.13	0.54	50.86	0.76	50.87
Absolute Difference		0.07	0.28	0.19	0.27	0.22	0.01
Percent Difference		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CO Analyzer							
Initial Analyzer Response	Time	8:30:00	8:49:00	10:25:00	10:35:00	11:47:00	12:02:00
	Scan	0.27	25.00	0.14	25.99	0.15	25.20
Final Analyzer Response	Time	10:25:00	10:35:00	11:47:00	12:02:00	13:09:00	13:23:00
	Scan	0.14	25.99	0.15	25.20	0.34	26.20
Absolute Difference		0.13	0.99	0.01	0.79	0.19	1.00
Percent Difference		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
O_2 Analyzer							
Initial Analyzer Response	Time	8:36:00	8:30:00	10:30:00	10:25:00	11:53:00	11:47:00
	Scan	0.04	12.38	0.02	12.17	0.04	12.15
Final Analyzer Response	Time	10:30:00	10:25:00	11:53:00	11:47:00	13:14:00	13:09:00
	Scan	0.02	12.17	0.04	12.15	0.02	12.23
Absolute Difference		0.02	0.21	0.02	0.02	0.02	0.08
Percent Difference		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CO_2 Analyzer							
Initial Analyzer Response	Time	8:36:00	8:30:00	10:30:00	10:25:00	11:53:00	11:47:00
	Scan	-0.42	12.62	-0.37	12.29	-0.27	12.31
Final Analyzer Response	Time	10:30:00	10:25:00	11:53:00	11:47:00	13:14:00	13:08:00
	Scan	-0.37	12.29	-0.27	12.31	-0.16	12.08
Absolute Difference		0.05	0.33	0.10	0.02	0.11	0.23
Percent Difference		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Absolute Difference = Final -Initial; Percent Difference= (Absolute Difference / Span Value) x 100

Calibration / Drift Checks

Station:	Vail
Unit:	2
Model:	GE Frame 3
S/N:	
Date:	12/7/2007

ANALYZER:	NO_x	CO	O_2	CO_2	THC
Model:	TECO 42i-HL	TECO 48C	Servomex 1400	Servomex 1400	NA
Serial No.:	0719322711	0427408868	14200/3093	14150/3093	NA
Span Value:	101	50.3	21	21.5	NA

	CYLINDERS	
	Zero Value	Span Value
NO_x	0	51.2
CO	0	25.7
O_2	0	12.1
CO_2	0	12.1
THC	0	0

		Run 1		Run 2		Run 3	
NO_x Analyzer		Zero	Span	Zero	Span	Zero	Span
Initial Analyzer Response	Time	7:19:00	7:35:00	8:59:00	9:12:00	10:26:00	10:39:00
	Scan	0.59	49.72	0.48	51.55	0.52	52.15
Final Analyzer Response	Time	8:59:00	9:12:00	10:26:00	10:39:00	11:53:00	11:58:00
	Scan	0.48	51.55	0.52	52.15	0.44	52.00
Absolute Difference		0.11	1.83	0.04	0.60	0.08	0.15
Percent Difference		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CO Analyzer							
Initial Analyzer Response	Time	7:19:00	7:11:00	9:07:00	8:59:00	10:32:00	10:26:00
	Scan	-0.32	25.70	-0.05	25.37	0.26	25.09
Final Analyzer Response	Time	9:07:00	8:59:00	10:32:00	10:26:00	11:53:00	11:50:00
	Scan	-0.05	25.37	0.26	25.09	0.02	24.60
Absolute Difference		0.27	0.33	0.31	0.28	0.24	0.49
Percent Difference		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
O_2 Analyzer							
Initial Analyzer Response	Time	7:11:00	7:19:00	8:59:00	9:07:00	10:26:00	10:32:00
	Scan	0.06	11.94	-0.04	12.22	-0.04	12.21
Final Analyzer Response	Time	8:59:00	9:07:00	10:26:00	10:32:00	11:50:00	11:53:00
	Scan	-0.04	12.22	-0.04	12.21	-0.01	12.19
Absolute Difference		0.10	0.28	0.00	0.01	0.03	0.02
Percent Difference		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CO_2 Analyzer							
Initial Analyzer Response	Time	7:11:00	7:19:00	8:59:00	9:07:00	10:26:00	10:32:00
	Scan	-0.08	12.01	-0.08	12.16	-0.08	12.14
Final Analyzer Response	Time	8:59:00	9:07:00	10:26:00	10:32:00	11:50:00	11:53:00
	Scan	-0.08	12.16	-0.08	12.14	-0.08	12.11
Absolute Difference		0	0.15	0.00	0.02	0.00	0.03
Percent Difference		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Absolute Difference = Final -Initial; Percent Difference= (Absolute Difference / Span Value) x 100

SAMPLE LINE INTEGRITY CHECK

Station	Vail
Unit	3
Model	GE Frame 3
Date	12/6/2007

ANALYZERS	NOx	CO	O_2	CO_2
Analyzer	TECO 42i-HL	TECO 48C	Servomex 1400	Servomex 1400
Serial No.	0719322711	0427408868	14200/3093	14150/3093
Span Value	101	50.3	21	21.5

		PRE-TEST					
		Cal. Gas Through the Complete Calibration System (It)		Cal. Gas Through the Complete Sampling System (Ic)		System Calibration Bias	
		Scan Time	ppm	Scan Time	ppm	(%)	Pass/Fail
NOx Analyzer	Zero response	7:10:00	0.090	14:54:00	0.090	0.00	Pass
	Span Response	7:20:00	51.550	14:58:00	50.470	1.07	Pass
CO Analyzer	Zero response	7:10:00	-0.270	14:54:00	-0.210	0.12	Pass
	Span Response	7:20:00	25.770	15:07:00	26.530	1.51	Pass
O_2 Analyzer	Zero response	7:10:00	-0.030	14:58:00	0.000	0.14	Pass
	Span Response	7:20:00	12.080	14:54:00	12.060	0.10	Pass
CO_2 Analyzer	Zero response	7:10:00	-0.360	14:58:00	0.000	1.67	Pass
	Span Response	7:20:00	12.200	14:54:00	12.060	0.65	Pass

		POST-TEST					
		Cal. Gas Through the Complete Calibration System (It)		Cal. Gas Through the Complete Sampling System (Ic)		System Calibration Bias	
		Scan Time	ppm	Scan Time	ppm	(%)	Pass/Fail
NOx Analyzer	Zero response	7:10:00	0.090	19:23:00	1.130	1.03	Pass
	Span Response	7:20:00	51.550	19:31:00	50.400	1.14	Pass
CO Analyzer	Zero response	7:10:00	-0.270	19:31:00	0.370	1.27	Pass
	Span Response	7:20:00	25.770	19:23:00	26.050	0.56	Pass
O_2 Analyzer	Zero response	7:10:00	-0.030	19:31:00	0.000	0.14	Pass
	Span Response	7:20:00	12.080	19:39:00	12.050	0.14	Pass
CO_2 Analyzer	Zero response	7:10:00	-0.360	19:31:00	-0.050	1.44	Pass
	Span Response	7:20:00	12.200	19:39:00	12.530	1.53	Pass

System Calibration Bias = ((System Cal. Response - Analyzer Cal. Response) / Span) x 100

Calibration / Drift Forms

SAMPLE LINE INTEGRITY CHECK

Station	Vail
Unit	3
Model	GE Frame 3
Date	12/6/2007

ANALYZERS	NOx	CO	O_2	CO_2
Analyzer	TECO 42i-HL	TECO 48C	Servomex 1400	Servomex 1400
Serial No.	0719322711	0427408868	14200/3093	14150/3093
Span Value	101	50.3	21	21.5

		PRE-TEST					
		Cal. Gas Through the Complete Calibration System (It)		Cal. Gas Through the Complete Sampling System (Ic)		System Calibration Bias	
		Scan Time	ppm	Scan Time	ppm	(%)	Pass/Fail
NOx Analyzer	Zero response	7:10:00	0.090	14:54:00	0.090	**0.00**	Pass
	Span Response	7:20:00	51.550	14:58:00	50.470	**1.07**	Pass
CO Analyzer	Zero response	7:10:00	-0.270	14:54:00	-0.210	**0.12**	Pass
	Span Response	7:20:00	25.770	15:07:00	26.530	**1.51**	Pass
O_2 Analyzer	Zero response	7:10:00	-0.030	14:58:00	0.000	**0.14**	Pass
	Span Response	7:20:00	12.080	14:54:00	12.060	**0.10**	Pass
CO_2 Analyzer	Zero response	7:10:00	-0.360	14:58:00	0.000	**1.67**	Pass
	Span Response	7:20:00	12.200	14:54:00	12.060	**0.65**	Pass

		POST-TEST					
		Cal. Gas Through the Complete Calibration System (It)		Cal. Gas Through the Complete Sampling System (Ic)		System Calibration Bias	
		Scan Time	ppm	Scan Time	ppm	(%)	Pass/Fail
NOx Analyzer	Zero response	7:10:00	0.090	19:23:00	1.130	**1.03**	Pass
	Span Response	7:20:00	51.550	19:31:00	50.400	**1.14**	Pass
CO Analyzer	Zero response	7:10:00	-0.270	19:31:00	0.370	**1.27**	Pass
	Span Response	7:20:00	25.770	19:23:00	26.050	**0.56**	Pass
O_2 Analyzer	Zero response	7:10:00	-0.030	19:31:00	0.000	**0.14**	Pass
	Span Response	7:20:00	12.080	19:39:00	12.050	**0.14**	Pass
CO_2 Analyzer	Zero response	7:10:00	-0.360	19:31:00	-0.050	**1.44**	Pass
	Span Response	7:20:00	12.200	19:39:00	12.530	**1.53**	Pass

System Calibration Bias = ((System Cal. Response - Analyzer Cal. Response) / Span) x 100

Raw Data

EPNG Vail UNIT A-1

TimeStamp	co	co2	no1	nox	o2	ambient	barometric	humidity	run_name
12/6/2007 8:08	-0.375	-0.361	0.069	0.131	-0.028	53.32	13.22	56.83	Zero Cal Check
12/6/2007 8:08	-0.623	-0.361	0.071	0.101	-0.027	53.33	13.22	56.84	Zero Cal Check
12/6/2007 8:08	-0.493	-0.361	0.070	0.099	-0.030	53.32	13.22	56.84	Zero Cal Check
12/6/2007 8:08	-0.250	-0.361	0.063	0.098	-0.028	53.33	13.22	56.83	Zero Cal Check
12/6/2007 8:08	-0.114	-0.361	0.069	0.075	-0.027	53.32	13.22	56.83	Zero Cal Check
12/6/2007 8:09	-0.013	-0.361	0.070	0.074	-0.030	53.32	13.22	56.83	Zero Cal Check
12/6/2007 8:09	-0.013	-0.361	0.038	0.068	-0.031	53.33	13.22	56.83	Zero Cal Check
Average	**-0.269**	**-0.361**	**0.064**	**0.092**	**-0.029**				
12/6/2007 8:15	85.989	21.415	100.901	101.669	20.958	53.33	13.22	57.04	Span Cal Check
12/6/2007 8:15	85.540	21.417	100.979	101.547	20.958	53.33	13.22	57.04	Span Cal Check
12/6/2007 8:15	85.402	21.420	101.069	101.428	20.961	53.34	13.22	57.04	Span Cal Check
12/6/2007 8:15	85.617	21.421	101.100	101.298	20.960	53.34	13.22	57.05	Span Cal Check
12/6/2007 8:16	85.912	21.421	101.128	101.201	20.963	53.33	13.22	57.05	Span Cal Check
12/6/2007 8:16	86.127	21.425	101.134	101.079	20.963	53.34	13.22	57.05	Span Cal Check
12/6/2007 8:16	86.225	21.420	101.124	101.032	20.964	53.34	13.22	57.06	Span Cal Check
Average	**85.830**	**21.420**	**101.062**	**101.322**	**20.961**				
12/6/2007 8:22	50.374	12.202	51.932	51.853	12.083	53.35	13.22	57.20	Mid Cal Check
12/6/2007 8:22	50.649	12.205	52.016	51.701	12.081	53.35	13.22	57.21	Mid Cal Check
12/6/2007 8:22	50.765	12.203	52.098	51.604	12.086	53.35	13.22	57.22	Mid Cal Check
12/6/2007 8:22	50.590	12.202	52.141	51.520	12.086	53.34	13.22	57.24	Mid Cal Check
12/6/2007 8:22	50.169	12.202	52.199	51.409	12.085	53.35	13.22	57.26	Mid Cal Check
12/6/2007 8:22	49.910	12.201	52.150	51.310	12.084	53.35	13.22	57.24	Mid Cal Check
12/6/2007 8:23	49.988	12.204	52.091	51.438	12.084	53.34	13.22	57.25	Mid Cal Check
Average	**50.349**	**12.203**	**52.090**	**51.548**	**12.084**				
12/6/2007 8:28	25.930	5.856	25.118	26.173	5.809	53.44	13.22	57.27	Low Cal Check
12/6/2007 8:28	25.504	5.856	25.200	26.030	5.806	53.44	13.22	57.29	Low Cal Check
12/6/2007 8:28	25.423	5.855	25.212	25.903	5.807	53.44	13.22	57.31	Low Cal Check
12/6/2007 8:29	25.648	5.855	25.211	25.864	5.804	53.45	13.22	57.32	Low Cal Check
12/6/2007 8:29	25.847	5.856	25.181	25.836	5.806	53.45	13.22	57.32	Low Cal Check
12/6/2007 8:29	25.972	5.857	25.180	25.859	5.805	53.46	13.22	57.30	Low Cal Check
12/6/2007 8:29	26.070	5.854	25.207	25.863	5.805	53.46	13.22	57.30	Low Cal Check
Average	**25.771**	**5.856**	**25.187**	**25.933**	**5.806**				
12/6/2007 8:34	1.385	-0.401	1.124	48.795	20.385	53.58	13.22	57.09	NO2 Direct Challenge
12/6/2007 8:34	1.516	-0.404	1.098	48.769	20.401	53.59	13.22	57.09	NO2 Direct Challenge
12/6/2007 8:35	1.615	-0.408	1.064	48.787	20.414	53.59	13.22	57.09	NO2 Direct Challenge
12/6/2007 8:35	2.003	-0.407	1.063	48.794	20.418	53.59	13.22	57.07	NO2 Direct Challenge
12/6/2007 8:35	2.721	-0.408	1.092	48.933	20.424	53.59	13.22	57.06	NO2 Direct Challenge
12/6/2007 8:35	3.423	-0.410	1.121	49.109	20.428	53.60	13.22	57.04	NO2 Direct Challenge
12/6/2007 8:35	3.968	-0.408	1.152	49.397	20.353	53.60	13.22	57.03	NO2 Direct Challenge
Average	**2.376**	**-0.407**	**1.102**	**48.941**	**20.403**				
12/6/2007 9:31	0.162	12.619	0.145	0.303	12.386	57.70	13.23	52.78	O2 Upscale Bias
12/6/2007 9:31	-0.154	12.624	0.144	0.298	12.369	57.71	13.23	52.79	O2 Upscale Bias
12/6/2007 9:31	0.002	12.556	0.146	0.296	12.347	57.71	13.23	52.77	O2 Upscale Bias
12/6/2007 9:31	0.382	12.641	0.143	0.273	12.389	57.73	13.23	52.77	O2 Upscale Bias
12/6/2007 9:31	0.605	12.642	0.117	0.268	12.383	57.73	13.23	52.77	O2 Upscale Bias
12/6/2007 9:31	0.626	12.639	0.115	0.273	12.380	57.74	13.23	52.75	O2 Upscale Bias
12/6/2007 9:32	0.267	12.635	0.112	0.245	12.381	57.75	13.23	52.76	O2 Upscale Bias
Average	**0.270**	**12.622**	**0.132**	**0.279**	**12.376**				
12/6/2007 9:36	0.157	-0.435	52.812	50.712	0.044	57.95	13.23	53.64	NOx Upscale Bias
12/6/2007 9:36	0.036	-0.440	52.916	50.802	0.042	57.96	13.23	53.71	NOx Upscale Bias
12/6/2007 9:36	0.024	-0.446	53.007	50.815	0.039	57.98	13.23	53.79	NOx Upscale Bias
12/6/2007 9:36	0.299	-0.450	53.069	50.840	0.037	57.99	13.23	53.92	NOx Upscale Bias
12/6/2007 9:37	0.510	-0.453	53.120	50.896	0.037	57.99	13.23	54.00	NOx Upscale Bias
12/6/2007 9:37	0.715	-0.457	53.149	50.951	0.033	58.01	13.23	54.05	NOx Upscale Bias
12/6/2007 9:37	0.370	-0.460	53.178	50.954	0.031	58.02	13.23	54.13	NOx Upscale Bias
Average	**0.302**	**-0.449**	**53.036**	**50.853**	**0.038**				
12/6/2007 9:50	50.518	-0.463	0.147	0.244	0.100	59.03	13.23	52.20	CO Upscale Bias
12/6/2007 9:50	50.396	-0.463	0.147	0.242	0.101	59.05	13.23	52.17	CO Upscale Bias
12/6/2007 9:50	50.566	-0.463	0.146	0.246	0.101	59.06	13.23	52.15	CO Upscale Bias
12/6/2007 9:50	50.585	-0.464	0.147	0.244	0.099	59.08	13.23	52.12	CO Upscale Bias
12/6/2007 9:50	50.591	-0.463	0.149	0.241	0.099	59.10	13.23	52.10	CO Upscale Bias
12/6/2007 9:51	50.681	-0.463	0.146	0.246	0.097	59.11	13.23	52.06	CO Upscale Bias
12/6/2007 9:51	50.411	-0.463	0.118	0.248	0.095	59.13	13.23	52.05	CO Upscale Bias
Average	**50.535**	**-0.463**	**0.143**	**0.245**	**0.099**				
12/6/2007 9:58	15.483	1.086	40.571	46.208	17.960	59.73	13.23	51.48	#1 Sample Location #1
12/6/2007 9:58	15.750	1.086	40.644	46.162	17.963	59.75	13.23	51.43	#1 Sample Location #1
12/6/2007 9:58	15.937	1.088	40.728	46.231	17.963	59.76	13.23	51.39	#1 Sample Location #1
12/6/2007 9:58	15.869	1.088	40.766	46.324	17.964	59.77	13.23	51.35	#1 Sample Location #1
12/6/2007 9:58	15.836	1.088	40.822	46.333	17.958	59.79	13.23	51.31	#1 Sample Location #1
12/6/2007 9:58	15.634	1.088	40.802	46.333	17.970	59.81	13.23	51.30	#1 Sample Location #1
12/6/2007 9:59	15.441	1.089	40.771	46.330	17.972	59.83	13.23	51.25	#1 Sample Location #1

12/6/2007 9:59	15.382	1.086	40.849	46.304	17.980	59.84	13.23	51.24	#1	Sample Location #1
12/6/2007 9:59	15.661	1.079	40.914	46.331	17.991	59.85	13.23	51.22	#1	Sample Location #1
12/6/2007 9:59	15.932	1.079	40.785	46.414	17.992	59.87	13.23	51.24	#1	Sample Location #1
12/6/2007 9:59	15.916	1.082	40.637	46.341	17.990	59.89	13.23	51.25	#1	Sample Location #1
12/6/2007 9:59	15.513	1.084	40.725	46.166	17.992	59.90	13.23	51.26	#1	Sample Location #1
12/6/2007 10:00	15.146	1.085	40.818	46.208	17.995	59.92	13.23	51.23	#1	Sample Location #1
12/6/2007 10:00	15.171	1.085	40.851	46.271	17.996	59.94	13.23	51.22	#1	Sample Location #1
12/6/2007 10:00	15.373	1.085	40.880	46.247	18.000	59.95	13.23	51.20	#1	Sample Location #1
12/6/2007 10:00	15.561	1.086	40.886	46.188	18.005	59.98	13.23	51.19	#1	Sample Location #1
12/6/2007 10:00	15.747	1.084	40.915	46.104	17.992	59.99	13.23	51.19	#1	Sample Location #1
12/6/2007 10:00	15.716	1.079	40.891	46.008	17.981	60.01	13.23	51.17	#1	Sample Location #1
12/6/2007 10:01	15.352	1.081	40.856	45.996	18.005	60.02	13.23	51.12	#1	Sample Location #1
Average	**15.601**	**1.085**	**40.795**	**46.237**	**17.983**					
12/6/2007 10:03	16.062	1.067	38.484	46.362	18.002	60.24	13.23	50.21	#1	Sample Location #2
12/6/2007 10:03	16.165	1.067	38.422	46.312	18.016	60.26	13.23	50.18	#1	Sample Location #2
12/6/2007 10:03	16.276	1.078	38.341	46.280	18.024	60.28	13.23	50.14	#1	Sample Location #2
12/6/2007 10:04	16.419	1.074	38.247	46.330	17.999	60.30	13.23	50.12	#1	Sample Location #2
12/6/2007 10:04	16.056	1.074	38.375	46.364	18.007	60.31	13.23	50.08	#1	Sample Location #2
12/6/2007 10:04	15.692	1.076	38.557	46.366	18.018	60.32	13.23	50.05	#1	Sample Location #2
12/6/2007 10:04	15.681	1.081	38.653	46.419	18.027	60.34	13.23	50.04	#1	Sample Location #2
12/6/2007 10:04	15.977	1.084	38.746	46.429	18.016	60.35	13.23	50.01	#1	Sample Location #2
12/6/2007 10:04	16.154	1.078	38.842	46.427	17.985	60.37	13.23	49.98	#1	Sample Location #2
12/6/2007 10:05	16.116	1.079	38.928	46.481	18.005	60.38	13.23	49.95	#1	Sample Location #2
12/6/2007 10:05	15.672	1.082	38.934	46.594	18.021	60.39	13.23	49.91	#1	Sample Location #2
12/6/2007 10:05	15.346	1.083	38.938	46.603	18.033	60.41	13.23	49.90	#1	Sample Location #2
12/6/2007 10:05	15.394	1.080	38.886	46.657	18.016	60.42	13.23	49.86	#1	Sample Location #2
12/6/2007 10:05	15.755	1.069	38.819	46.560	17.966	60.43	13.23	49.85	#1	Sample Location #2
12/6/2007 10:05	15.764	1.069	38.816	46.437	17.981	60.44	13.23	49.82	#1	Sample Location #2
12/6/2007 10:06	15.852	1.072	38.818	46.344	17.993	60.46	13.23	49.82	#1	Sample Location #2
12/6/2007 10:06	15.832	1.074	38.926	46.257	18.005	60.47	13.23	49.81	#1	Sample Location #2
12/6/2007 10:06	15.594	1.076	39.046	46.273	18.021	60.48	13.23	49.79	#1	Sample Location #2
12/6/2007 10:06	15.349	1.077	39.004	46.332	18.017	60.49	13.23	49.79	#1	Sample Location #2
Average	**15.850**	**1.076**	**38.725**	**46.412**	**18.008**					
12/6/2007 10:08	16.335	1.067	42.469	45.890	18.033	60.64	13.23	49.70	#1	Sample Location #3
12/6/2007 10:08	16.236	1.064	42.419	45.829	17.971	60.65	13.23	49.68	#1	Sample Location #3
12/6/2007 10:09	16.164	1.058	42.369	45.854	17.950	60.67	13.23	49.70	#1	Sample Location #3
12/6/2007 10:09	16.258	1.059	42.468	45.848	17.963	60.68	13.23	49.70	#1	Sample Location #3
12/6/2007 10:09	16.239	1.060	42.555	45.930	17.974	60.69	13.23	49.72	#1	Sample Location #3
12/6/2007 10:09	16.021	1.062	42.514	46.085	17.982	60.71	13.23	49.76	#1	Sample Location #3
12/6/2007 10:09	15.764	1.062	42.454	46.069	17.990	60.73	13.23	49.76	#1	Sample Location #3
12/6/2007 10:09	15.911	1.060	42.374	46.003	18.003	60.74	13.23	49.79	#1	Sample Location #3
12/6/2007 10:10	16.157	1.059	42.285	46.058	18.010	60.75	13.23	49.81	#1	Sample Location #3
12/6/2007 10:10	16.191	1.060	42.166	46.122	18.016	60.77	13.23	49.83	#1	Sample Location #3
12/6/2007 10:10	16.456	1.063	42.076	46.096	18.025	60.79	13.23	49.86	#1	Sample Location #3
12/6/2007 10:10	16.439	1.066	42.039	46.071	18.038	60.81	13.23	49.90	#1	Sample Location #3
12/6/2007 10:10	16.230	1.064	42.037	46.042	18.042	60.82	13.23	49.90	#1	Sample Location #3
12/6/2007 10:10	15.946	1.064	41.956	46.063	18.028	60.84	13.23	49.92	#1	Sample Location #3
12/6/2007 10:11	15.877	1.065	41.862	46.070	18.044	60.85	13.23	49.93	#1	Sample Location #3
12/6/2007 10:11	16.037	1.064	41.879	46.071	18.025	60.86	13.23	49.96	#1	Sample Location #3
12/6/2007 10:11	16.373	1.062	41.879	46.040	18.033	60.88	13.23	49.97	#1	Sample Location #3
12/6/2007 10:11	16.430	1.064	41.882	46.004	18.026	60.89	13.23	49.99	#1	Sample Location #3
12/6/2007 10:11	16.107	1.051	41.917	46.002	17.945	60.91	13.23	49.98	#1	Sample Location #3
Average	**16.167**	**1.062**	**42.189**	**46.008**	**18.005**					
12/6/2007 10:18	16.397	1.068	41.217	45.905	18.053	61.36	13.23	47.86	#1	Run
12/6/2007 10:18	16.056	1.070	41.104	46.024	18.042	61.36	13.23	47.73	#1	Run
12/6/2007 10:18	15.652	1.068	40.990	45.998	18.011	61.37	13.23	47.68	#1	Run
12/6/2007 10:18	15.672	1.070	40.468	46.087	18.021	61.38	13.23	47.59	#1	Run
12/6/2007 10:18	15.776	1.075	39.887	46.097	18.028	61.39	13.23	47.55	#1	Run
12/6/2007 10:18	15.985	1.073	39.775	45.952	18.024	61.41	13.23	47.45	#1	Run
12/6/2007 10:19	16.241	1.072	39.747	46.080	18.053	61.42	13.23	47.36	#1	Run
12/6/2007 10:19	16.098	1.068	39.554	46.258	18.068	61.43	13.23	47.24	#1	Run
12/6/2007 10:19	15.776	1.057	39.340	46.276	18.072	61.44	13.23	47.02	#1	Run
12/6/2007 10:19	15.472	1.053	39.269	46.217	18.030	61.45	13.23	46.85	#1	Run
12/6/2007 10:19	15.613	1.052	39.179	46.049	18.011	61.46	13.23	46.78	#1	Run
12/6/2007 10:19	15.842	1.057	39.255	45.815	18.024	61.47	13.23	46.67	#1	Run
12/6/2007 10:20	15.774	1.065	39.340	45.839	18.025	61.48	13.23	46.56	#1	Run
12/6/2007 10:20	15.933	1.067	39.484	45.896	18.039	61.49	13.23	46.53	#1	Run
12/6/2007 10:20	15.732	1.068	39.637	45.959	18.041	61.50	13.23	46.48	#1	Run
12/6/2007 10:20	15.188	1.068	39.677	46.081	18.047	61.51	13.23	46.33	#1	Run
12/6/2007 10:20	15.065	1.063	39.715	46.037	18.023	61.52	13.23	46.32	#1	Run
12/6/2007 10:20	15.569	1.064	39.738	46.001	18.027	61.53	13.23	46.31	#1	Run
12/6/2007 10:21	15.665	1.070	39.771	45.995	18.042	61.55	13.23	46.31	#1	Run
12/6/2007 10:21	15.747	1.071	39.775	45.993	18.055	61.55	13.23	46.32	#1	Run
12/6/2007 10:21	15.589	1.075	39.776	46.087	18.056	61.57	13.23	46.34	#1	Run

12/6/2007 10:21	15.331	1.073	39.687	46.204	18.048	61.58	13.23	46.35	#1 Run
12/6/2007 10:21	15.268	1.072	39.630	46.269	18.043	61.58	13.23	46.37	#1 Run
12/6/2007 10:21	15.391	1.073	39.671	46.303	18.047	61.59	13.23	46.38	#1 Run
12/6/2007 10:22	15.572	1.072	39.732	46.306	18.053	61.60	13.23	46.39	#1 Run
12/6/2007 10:22	15.667	1.072	39.801	46.329	18.058	61.61	13.23	46.41	#1 Run
12/6/2007 10:22	15.739	1.068	39.884	46.169	18.054	61.62	13.23	46.41	#1 Run
12/6/2007 10:22	15.473	1.064	39.809	46.051	18.049	61.63	13.23	46.42	#1 Run
12/6/2007 10:22	15.188	1.057	39.719	46.065	18.060	61.64	13.23	46.43	#1 Run
12/6/2007 10:22	15.416	1.059	39.549	46.091	18.067	61.65	13.23	46.45	#1 Run
12/6/2007 10:23	15.720	1.059	39.368	46.036	18.056	61.66	13.23	46.46	#1 Run
12/6/2007 10:23	15.977	1.060	39.483	45.916	18.056	61.67	13.23	46.47	#1 Run
12/6/2007 10:23	16.031	1.054	39.634	45.800	18.000	61.68	13.23	46.47	#1 Run
12/6/2007 10:23	15.880	1.054	39.674	45.742	18.009	61.69	13.23	46.47	#1 Run
12/6/2007 10:23	15.534	1.056	39.705	45.870	18.024	61.70	13.23	46.47	#1 Run
12/6/2007 10:23	15.535	1.057	39.629	46.050	18.036	61.71	13.23	46.47	#1 Run
12/6/2007 10:24	15.895	1.061	39.511	46.118	18.046	61.73	13.23	46.47	#1 Run
12/6/2007 10:24	16.075	1.069	39.582	46.150	18.060	61.73	13.23	46.46	#1 Run
12/6/2007 10:24	16.196	1.072	39.671	46.179	18.064	61.75	13.23	46.45	#1 Run
12/6/2007 10:24	16.245	1.070	39.818	46.240	18.059	61.75	13.23	46.43	#1 Run
12/6/2007 10:24	15.856	1.065	39.940	46.143	18.024	61.77	13.23	46.42	#1 Run
12/6/2007 10:24	15.492	1.069	39.900	46.048	18.048	61.77	13.23	46.41	#1 Run
12/6/2007 10:25	15.710	1.071	39.838	46.118	18.053	61.78	13.23	46.41	#1 Run
12/6/2007 10:25	15.972	1.069	39.776	46.207	18.044	61.79	13.23	46.42	#1 Run
12/6/2007 10:25	16.031	1.067	39.717	46.185	18.018	61.81	13.23	46.41	#1 Run
12/6/2007 10:25	15.971	1.067	39.715	46.185	18.037	61.81	13.23	46.42	#1 Run
12/6/2007 10:25	15.994	1.072	39.713	46.214	18.062	61.82	13.23	46.40	#1 Run
12/6/2007 10:25	15.752	1.066	39.795	46.219	18.050	61.83	13.23	46.39	#1 Run
12/6/2007 10:26	15.370	1.066	39.912	46.086	18.044	61.83	13.23	46.39	#1 Run
12/6/2007 10:26	15.530	1.064	39.843	45.951	18.042	61.85	13.23	46.39	#1 Run
12/6/2007 10:26	15.850	1.066	39.782	45.966	18.042	61.85	13.23	46.37	#1 Run
12/6/2007 10:26	15.848	1.047	39.717	45.996	17.943	61.86	13.23	46.38	#1 Run
12/6/2007 10:26	15.831	1.049	39.684	46.031	17.956	61.87	13.23	46.38	#1 Run
12/6/2007 10:26	15.668	1.052	39.575	46.118	17.970	61.88	13.23	46.37	#1 Run
12/6/2007 10:27	15.407	1.057	39.450	46.069	17.982	61.88	13.23	46.39	#1 Run
12/6/2007 10:27	15.245	1.061	39.527	45.971	17.996	61.89	13.23	46.38	#1 Run
12/6/2007 10:27	15.311	1.066	39.643	46.057	18.004	61.90	13.23	46.38	#1 Run
12/6/2007 10:27	15.590	1.068	39.736	46.144	18.013	61.91	13.23	46.38	#1 Run
12/6/2007 10:27	15.732	1.069	39.824	46.078	18.021	61.92	13.23	46.38	#1 Run
12/6/2007 10:27	15.575	1.069	39.838	46.003	18.026	61.93	13.23	46.36	#1 Run
12/6/2007 10:28	15.161	1.068	39.835	46.035	18.033	61.94	13.23	46.36	#1 Run
12/6/2007 10:28	14.973	1.068	39.800	46.069	18.039	61.94	13.23	46.37	#1 Run
12/6/2007 10:28	15.091	1.067	39.745	46.067	18.042	61.96	13.23	46.37	#1 Run
12/6/2007 10:28	15.271	1.067	39.739	46.070	18.043	61.97	13.23	46.37	#1 Run
12/6/2007 10:28	15.395	1.068	39.740	46.042	18.045	61.97	13.23	46.38	#1 Run
12/6/2007 10:28	15.535	1.068	39.800	45.981	18.049	61.98	13.23	46.38	#1 Run
12/6/2007 10:29	15.360	1.068	39.858	46.000	18.051	61.98	13.23	46.39	#1 Run
12/6/2007 10:29	15.062	1.067	39.808	46.037	18.055	62.00	13.23	46.39	#1 Run
12/6/2007 10:29	14.906	1.060	39.745	46.095	18.068	62.01	13.23	46.40	#1 Run
12/6/2007 10:29	15.089	1.061	39.635	46.151	18.071	62.02	13.23	46.42	#1 Run
12/6/2007 10:29	15.308	1.060	39.539	46.016	18.034	62.03	13.23	46.43	#1 Run
12/6/2007 10:29	15.588	1.061	39.640	45.814	18.053	62.04	13.23	46.43	#1 Run
12/6/2007 10:30	15.714	1.066	39.763	45.820	18.064	62.05	13.23	46.42	#1 Run
12/6/2007 10:30	15.432	1.071	39.801	45.874	18.059	62.06	13.23	46.42	#1 Run
12/6/2007 10:30	15.152	1.056	39.810	46.074	17.953	62.07	13.23	46.42	#1 Run
12/6/2007 10:30	15.210	1.049	39.890	46.251	17.936	62.08	13.23	46.45	#1 Run
12/6/2007 10:30	15.407	1.051	39.947	46.129	17.954	62.09	13.23	46.45	#1 Run
12/6/2007 10:30	15.691	1.055	39.950	46.010	17.966	62.10	13.23	46.47	#1 Run
12/6/2007 10:31	15.812	1.055	39.952	46.064	17.977	62.11	13.23	46.47	#1 Run
12/6/2007 10:31	15.613	1.057	39.901	46.147	17.990	62.11	13.23	46.46	#1 Run
12/6/2007 10:31	15.486	1.057	39.839	46.187	18.001	62.12	13.23	46.46	#1 Run
12/6/2007 10:31	15.557	1.058	39.778	46.241	18.011	62.13	13.23	46.45	#1 Run
12/6/2007 10:31	15.585	1.061	39.716	46.214	18.017	62.14	13.23	46.45	#1 Run
12/6/2007 10:31	15.696	1.064	39.764	46.130	18.029	62.15	13.23	46.43	#1 Run
12/6/2007 10:32	15.915	1.063	39.854	46.105	18.027	62.16	13.23	46.42	#1 Run
12/6/2007 10:32	16.080	1.065	39.834	46.101	18.031	62.18	13.23	46.42	#1 Run
12/6/2007 10:32	15.653	1.065	39.773	46.012	18.032	62.19	13.23	46.42	#1 Run
12/6/2007 10:32	15.254	1.067	39.829	45.895	18.037	62.20	13.23	46.42	#1 Run
12/6/2007 10:32	15.283	1.068	39.853	45.989	18.043	62.20	13.23	46.54	#1 Run
12/6/2007 10:32	15.381	1.065	39.746	46.141	18.044	62.21	13.23	46.66	#1 Run
12/6/2007 10:33	15.494	1.066	39.633	46.104	18.048	62.23	13.23	46.87	#1 Run
12/6/2007 10:33	15.651	1.065	39.760	46.010	18.052	62.24	13.23	47.04	#1 Run
12/6/2007 10:33	15.547	1.063	39.909	45.923	18.035	62.26	13.23	47.15	#1 Run
12/6/2007 10:33	15.087	1.057	39.874	45.859	18.018	62.27	13.23	47.25	#1 Run
12/6/2007 10:33	14.939	1.057	39.836	45.935	18.034	62.29	13.23	47.36	#1 Run

12/6/2007 10:33	15.179	1.052	39.728	46.056	18.050	62.32	13.23	47.42	#1 Run
12/6/2007 10:34	15.308	1.052	39.604	45.983	18.060	62.34	13.23	47.44	#1 Run
12/6/2007 10:34	15.450	1.056	39.620	45.841	18.070	62.37	13.23	47.43	#1 Run
12/6/2007 10:34	15.391	1.057	39.623	45.750	18.073	62.38	13.23	47.41	#1 Run
12/6/2007 10:34	15.068	1.053	39.674	45.660	18.054	62.40	13.23	47.37	#1 Run
12/6/2007 10:34	14.746	1.055	39.706	45.702	18.046	62.43	13.23	47.31	#1 Run
12/6/2007 10:34	14.807	1.055	39.683	45.764	18.027	62.45	13.23	47.23	#1 Run
12/6/2007 10:35	15.036	1.061	39.674	45.874	18.056	62.48	13.23	47.12	#1 Run
12/6/2007 10:35	15.254	1.063	39.596	45.990	18.056	62.50	13.23	47.04	#1 Run
12/6/2007 10:35	15.193	1.064	39.505	45.969	18.053	62.51	13.23	46.94	#1 Run
12/6/2007 10:35	14.968	1.049	39.612	45.919	17.957	62.53	13.23	46.84	#1 Run
12/6/2007 10:35	14.632	1.049	39.729	45.829	17.966	62.55	13.23	46.73	#1 Run
12/6/2007 10:35	14.591	1.052	39.741	45.744	17.986	62.58	13.23	46.61	#1 Run
12/6/2007 10:36	14.841	1.052	39.736	45.811	18.001	62.60	13.23	46.47	#1 Run
12/6/2007 10:36	15.080	1.053	39.712	45.904	18.008	62.62	13.23	46.39	#1 Run
12/6/2007 10:36	15.148	1.054	39.682	45.970	18.015	62.63	13.23	46.28	#1 Run
12/6/2007 10:36	15.061	1.055	39.645	46.060	18.021	62.65	13.23	46.18	#1 Run
12/6/2007 10:36	14.828	1.057	39.594	45.926	18.031	62.66	13.23	46.07	#1 Run
12/6/2007 10:36	14.787	1.057	39.755	45.756	18.038	62.68	13.23	45.97	#1 Run
12/6/2007 10:37	15.012	1.057	39.905	45.737	18.046	62.70	13.23	45.91	#1 Run
12/6/2007 10:37	15.311	1.058	39.801	45.809	18.054	62.72	13.23	45.77	#1 Run
12/6/2007 10:37	15.423	1.055	39.678	45.848	18.064	62.73	13.23	45.66	#1 Run
12/6/2007 10:37	15.293	1.048	39.621	45.878	18.023	62.74	13.23	45.55	#1 Run
12/6/2007 10:37	15.122	1.049	39.539	45.749	18.039	62.76	13.23	45.45	#1 Run
12/6/2007 10:37	15.074	1.051	39.584	45.548	18.051	62.78	13.23	45.36	#1 Run
12/6/2007 10:38	15.212	1.049	39.646	45.579	18.064	62.79	13.23	45.27	#1 Run
12/6/2007 10:38	15.472	1.046	39.597	45.641	18.081	62.81	13.23	45.16	#1 Run
12/6/2007 10:38	15.617	1.048	39.531	45.673	18.082	62.83	13.23	45.08	#1 Run
12/6/2007 10:38	15.698	1.048	39.465	45.678	18.062	62.83	13.23	44.96	#1 Run
12/6/2007 10:38	15.465	1.051	39.389	45.704	18.057	62.85	13.23	44.87	#1 Run
12/6/2007 10:38	15.283	1.054	39.486	45.651	18.061	62.87	13.23	44.80	#1 Run
12/6/2007 10:39	15.426	1.056	39.610	45.620	18.053	62.88	13.23	44.70	#1 Run
12/6/2007 10:39	15.675	1.052	39.673	45.619	18.046	62.90	13.23	44.61	#1 Run
12/6/2007 10:39	15.791	1.054	39.712	45.614	18.059	62.92	13.23	44.56	#1 Run
12/6/2007 10:39	15.766	1.053	39.742	45.618	18.064	62.93	13.23	44.56	#1 Run
12/6/2007 10:39	15.435	1.049	39.776	45.670	18.042	62.95	13.23	44.51	#1 Run
12/6/2007 10:39	15.184	1.048	39.745	45.754	18.055	62.96	13.23	44.51	#1 Run
12/6/2007 10:40	15.255	1.041	39.713	45.737	18.026	62.98	13.23	44.51	#1 Run
12/6/2007 10:40	15.281	1.039	39.680	45.708	18.042	62.98	13.23	44.53	#1 Run
12/6/2007 10:40	15.434	1.040	39.649	45.649	18.051	62.99	13.23	44.53	#1 Run
12/6/2007 10:40	15.721	1.042	39.624	45.591	18.061	63.00	13.23	44.54	#1 Run
12/6/2007 10:40	15.503	1.043	39.570	45.536	18.073	63.00	13.23	44.55	#1 Run
12/6/2007 10:40	15.153	1.044	39.589	45.482	18.081	63.01	13.23	44.57	#1 Run
12/6/2007 10:41	15.121	1.044	39.589	45.555	18.087	63.02	13.23	44.58	#1 Run
12/6/2007 10:41	15.083	1.044	39.560	45.610	18.089	63.02	13.23	44.60	#1 Run
12/6/2007 10:41	15.239	1.042	39.533	45.590	18.073	63.03	13.23	44.60	#1 Run
12/6/2007 10:41	15.495	1.033	39.532	45.529	18.023	63.03	13.23	44.62	#1 Run
12/6/2007 10:41	15.569	1.033	39.559	45.581	18.037	63.03	13.23	44.62	#1 Run
12/6/2007 10:41	15.233	1.034	39.531	45.642	18.052	63.04	13.23	44.64	#1 Run
12/6/2007 10:42	14.953	1.034	39.469	45.670	18.064	63.05	13.23	44.65	#1 Run
12/6/2007 10:42	14.955	1.036	39.464	45.677	18.077	63.05	13.23	44.64	#1 Run
12/6/2007 10:42	15.009	1.025	39.436	45.648	17.995	63.06	13.23	44.65	#1 Run
12/6/2007 10:42	15.211	1.021	39.382	45.592	17.988	63.06	13.23	44.64	#1 Run
12/6/2007 10:42	15.354	1.024	39.319	45.614	17.999	63.06	13.23	44.64	#1 Run
12/6/2007 10:42	15.325	1.025	39.396	45.614	18.009	63.07	13.23	44.65	#1 Run
12/6/2007 10:43	15.159	1.027	39.462	45.506	18.017	63.07	13.23	44.66	#1 Run
12/6/2007 10:43	14.921	1.029	39.467	45.416	18.025	63.08	13.23	44.67	#1 Run
12/6/2007 10:43	14.910	1.030	39.440	45.381	18.033	63.08	13.23	44.68	#1 Run
12/6/2007 10:43	15.084	1.029	39.436	45.352	18.033	63.08	13.23	44.68	#1 Run
12/6/2007 10:43	15.211	1.033	39.462	45.478	18.037	63.09	13.23	44.70	#1 Run
12/6/2007 10:43	15.389	1.034	39.388	45.607	18.042	63.10	13.23	44.72	#1 Run
12/6/2007 10:44	15.490	1.034	39.296	45.641	18.047	63.10	13.23	44.72	#1 Run
12/6/2007 10:44	15.231	1.033	39.380	45.621	18.053	63.10	13.23	44.70	#1 Run
12/6/2007 10:44	14.947	1.030	39.465	45.449	18.062	63.11	13.23	44.70	#1 Run
12/6/2007 10:44	15.039	1.029	39.466	45.296	18.073	63.11	13.23	44.71	#1 Run
12/6/2007 10:44	15.313	1.030	39.467	45.345	18.077	63.12	13.23	44.70	#1 Run
12/6/2007 10:44	15.515	1.030	39.329	45.460	18.084	63.13	13.23	44.73	#1 Run
12/6/2007 10:45	15.653	1.034	39.157	45.440	18.095	63.13	13.23	44.74	#1 Run
12/6/2007 10:45	15.562	1.032	39.220	45.385	18.075	63.13	13.23	44.76	#1 Run
12/6/2007 10:45	15.326	1.031	39.305	45.275	18.069	63.14	13.23	44.76	#1 Run
12/6/2007 10:45	15.343	1.034	39.316	45.207	18.081	63.14	13.23	44.76	#1 Run
12/6/2007 10:45	15.583	1.032	39.313	45.203	18.067	63.15	13.23	44.76	#1 Run
12/6/2007 10:45	15.653	1.036	39.338	45.205	18.076	63.15	13.23	44.77	#1 Run
12/6/2007 10:46	15.736	1.030	39.347	45.310	18.035	63.16	13.23	44.77	#1 Run

12/6/2007 10:46	15.856	1.029	39.376	45.432	18.045	63.16	13.23	44.76	#1 Run
12/6/2007 10:46	15.704	1.034	39.377	45.523	18.083	63.17	13.23	44.75	#1 Run
12/6/2007 10:46	15.322	1.034	39.403	45.609	18.088	63.17	13.23	44.74	#1 Run
12/6/2007 10:46	15.314	1.030	39.407	45.590	18.088	63.18	13.23	44.75	#1 Run
12/6/2007 10:46	15.544	1.030	39.406	45.558	18.089	63.18	13.23	44.75	#1 Run
12/6/2007 10:47	15.786	1.028	39.408	45.454	18.085	63.18	13.23	44.75	#1 Run
12/6/2007 10:47	15.737	1.026	39.405	45.362	18.074	63.19	13.23	44.74	#1 Run
12/6/2007 10:47	15.439	1.025	39.406	45.325	18.092	63.20	13.23	44.74	#1 Run
12/6/2007 10:47	15.219	1.025	39.320	45.301	18.086	63.21	13.23	44.73	#1 Run
12/6/2007 10:47	15.180	1.025	39.235	45.267	18.097	63.21	13.23	44.72	#1 Run
12/6/2007 10:47	15.254	1.026	39.155	45.214	18.097	63.22	13.23	44.70	#1 Run
12/6/2007 10:48	15.314	1.029	39.092	45.236	18.103	63.23	13.23	44.69	#1 Run
12/6/2007 10:48	15.515	1.025	39.110	45.214	18.072	63.23	13.23	44.69	#1 Run
12/6/2007 10:48	15.575	1.026	39.140	45.179	18.072	63.24	13.23	44.68	#1 Run
12/6/2007 10:48	15.253	1.029	39.201	45.182	18.093	63.24	13.23	44.69	#1 Run
12/6/2007 10:48	14.886	1.028	39.281	45.100	18.087	63.25	13.23	44.68	#1 Run
12/6/2007 10:48	14.841	1.030	39.286	45.076	18.084	63.26	13.23	44.67	#1 Run
12/6/2007 10:49	15.111	1.033	39.285	45.119	18.079	63.27	13.23	44.67	#1 Run
12/6/2007 10:49	15.193	1.026	39.307	45.174	18.037	63.27	13.23	44.67	#1 Run
12/6/2007 10:49	15.115	1.029	39.343	45.260	18.057	63.28	13.23	44.67	#1 Run
12/6/2007 10:49	15.175	1.032	39.271	45.342	18.076	63.29	13.23	44.67	#1 Run
12/6/2007 10:49	14.933	1.030	39.214	45.403	18.074	63.30	13.23	44.66	#1 Run
12/6/2007 10:49	14.720	1.028	39.265	45.407	18.084	63.31	13.23	44.67	#1 Run
12/6/2007 10:50	14.706	1.030	39.318	45.322	18.092	63.31	13.23	44.67	#1 Run
12/6/2007 10:50	14.910	1.029	39.349	45.238	18.089	63.32	13.23	44.66	#1 Run
12/6/2007 10:50	15.081	1.018	39.356	45.239	17.986	63.33	13.23	44.64	#1 Run
12/6/2007 10:50	15.125	1.012	39.292	45.239	17.979	63.34	13.24	44.69	#1 Run
12/6/2007 10:50	14.975	1.013	39.212	45.319	17.998	63.34	13.24	44.93	#1 Run
12/6/2007 10:50	14.769	1.015	39.150	45.402	18.010	63.35	13.24	45.19	#1 Run
12/6/2007 10:51	14.754	1.016	39.125	45.386	18.021	63.37	13.24	45.34	#1 Run
12/6/2007 10:51	15.044	1.017	39.175	45.302	18.031	63.38	13.24	45.60	#1 Run
12/6/2007 10:51	15.256	1.019	39.262	45.211	18.039	63.40	13.24	45.79	#1 Run
12/6/2007 10:51	15.315	1.020	39.267	45.154	18.049	63.41	13.24	45.99	#1 Run
12/6/2007 10:51	15.334	1.021	39.264	45.176	18.060	63.43	13.24	46.13	#1 Run
12/6/2007 10:51	14.970	1.023	39.157	45.259	18.066	63.44	13.24	46.21	#1 Run
12/6/2007 10:52	14.969	1.023	39.063	45.161	18.070	63.47	13.24	46.26	#1 Run
12/6/2007 10:52	15.227	1.023	39.083	45.021	18.075	63.49	13.24	46.28	#1 Run
12/6/2007 10:52	15.385	1.022	39.112	45.034	18.078	63.51	13.24	46.26	#1 Run
12/6/2007 10:52	15.484	1.023	39.090	45.039	18.083	63.53	13.24	46.24	#1 Run
12/6/2007 10:52	15.525	1.023	39.060	45.117	18.088	63.55	13.24	46.21	#1 Run
12/6/2007 10:52	15.364	1.026	39.135	45.177	18.090	63.57	13.24	46.12	#1 Run
12/6/2007 10:53	15.148	1.028	39.253	45.100	18.091	63.58	13.24	46.07	#1 Run
12/6/2007 10:53	15.229	1.029	39.285	45.016	18.092	63.61	13.24	45.99	#1 Run
12/6/2007 10:53	15.392	1.030	39.334	45.161	18.097	63.63	13.24	45.90	#1 Run
12/6/2007 10:53	15.517	1.029	39.265	45.361	18.092	63.63	13.24	45.81	#1 Run
12/6/2007 10:53	15.655	1.022	39.182	45.354	18.060	63.66	13.24	45.68	#1 Run
12/6/2007 10:53	15.564	1.026	39.255	45.275	18.099	63.68	13.24	45.59	#1 Run
12/6/2007 10:54	15.263	1.027	39.339	45.158	18.104	63.69	13.24	45.48	#1 Run
12/6/2007 10:54	15.010	1.021	39.351	45.074	18.071	63.72	13.24	45.39	#1 Run
12/6/2007 10:54	15.026	1.019	39.324	45.165	18.075	63.74	13.24	45.24	#1 Run
12/6/2007 10:54	15.272	1.025	39.265	45.283	18.105	63.76	13.24	45.15	#1 Run
12/6/2007 10:54	15.455	1.024	39.208	45.352	18.101	63.79	13.24	45.04	#1 Run
12/6/2007 10:54	15.425	1.023	39.260	45.413	18.103	63.80	13.24	44.93	#1 Run
12/6/2007 10:55	15.230	1.012	39.283	45.305	18.057	63.81	13.24	44.82	#1 Run
12/6/2007 10:55	14.890	1.012	39.243	45.185	18.068	63.84	13.24	44.75	#1 Run
12/6/2007 10:55	14.791	1.014	39.184	45.097	18.084	63.85	13.24	44.62	#1 Run
12/6/2007 10:55	14.968	1.018	39.155	44.986	18.106	63.87	13.24	44.54	#1 Run
12/6/2007 10:55	15.232	1.018	39.119	45.035	18.108	63.88	13.24	44.41	#1 Run
12/6/2007 10:55	15.351	1.019	39.086	45.096	18.110	63.90	13.24	44.33	#1 Run
12/6/2007 10:56	15.261	1.018	39.033	45.113	18.095	63.92	13.24	44.22	#1 Run
12/6/2007 10:56	14.930	1.016	39.109	45.115	18.085	63.93	13.24	44.13	#1 Run
12/6/2007 10:56	14.709	1.019	39.194	45.011	18.108	63.94	13.24	44.02	#1 Run
12/6/2007 10:56	14.930	1.011	39.175	44.924	18.029	63.96	13.24	43.94	#1 Run
12/6/2007 10:56	15.134	1.012	39.172	44.970	18.048	63.98	13.24	43.84	#1 Run
12/6/2007 10:56	15.253	1.015	39.035	45.074	18.077	63.99	13.24	43.73	#1 Run
12/6/2007 10:57	15.180	1.019	38.884	45.063	18.106	64.00	13.24	43.67	#1 Run
12/6/2007 10:57	14.962	1.018	38.961	44.983	18.093	64.02	13.24	43.58	#1 Run
12/6/2007 10:57	14.749	1.015	39.069	44.925	18.079	64.03	13.24	43.53	#1 Run
12/6/2007 10:57	14.830	1.018	39.059	44.892	18.110	64.05	13.24	43.44	#1 Run
12/6/2007 10:57	15.076	1.020	39.033	45.050	18.108	64.06	13.24	43.33	#1 Run
12/6/2007 10:57	15.259	1.018	39.058	45.193	18.100	64.07	13.24	43.25	#1 Run
12/6/2007 10:58	15.216	1.017	39.116	45.083	18.096	64.09	13.24	43.17	#1 Run
12/6/2007 10:58	15.004	1.018	39.143	44.947	18.110	64.10	13.24	43.08	#1 Run
12/6/2007 10:58	14.783	1.014	39.167	44.973	18.065	64.11	13.23	43.03	#1 Run

12/6/2007 10:58	14.941	1.012	39.173	44.971	18.052	64.12	13.23	43.06	#1 Run
12/6/2007 10:58	15.185	1.013	39.169	45.058	18.070	64.13	13.23	43.04	#1 Run
12/6/2007 10:58	15.333	1.014	39.120	45.164	18.088	64.15	13.23	43.03	#1 Run
12/6/2007 10:59	15.414	1.015	39.061	45.202	18.100	64.15	13.23	43.03	#1 Run
12/6/2007 10:59	15.274	1.016	39.079	45.199	18.111	64.16	13.23	43.07	#1 Run
12/6/2007 10:59	15.189	1.015	39.087	45.137	18.124	64.17	13.23	43.08	#1 Run
12/6/2007 10:59	15.318	1.015	39.082	45.085	18.122	64.17	13.23	43.08	#1 Run
12/6/2007 10:59	15.515	1.012	39.058	44.957	18.103	64.17	13.23	43.09	#1 Run
12/6/2007 10:59	15.655	1.013	39.057	44.830	18.109	64.19	13.23	43.11	#1 Run
12/6/2007 11:00	15.780	1.013	39.052	44.739	18.106	64.19	13.23	43.12	#1 Run
12/6/2007 11:00	15.839	1.013	39.054	44.681	18.121	64.20	13.23	43.13	#1 Run
12/6/2007 11:00	15.537	1.014	39.056	44.734	18.119	64.20	13.23	43.15	#1 Run
12/6/2007 11:00	15.318	1.013	39.030	44.821	18.119	64.21	13.23	43.15	#1 Run
12/6/2007 11:00	15.378	1.014	38.998	44.857	18.122	64.21	13.23	43.18	#1 Run
12/6/2007 11:00	15.752	1.012	38.942	44.883	18.098	64.21	13.23	43.18	#1 Run
12/6/2007 11:01	16.000	1.004	38.886	44.910	18.039	64.22	13.23	43.18	#1 Run
12/6/2007 11:01	15.896	1.005	38.883	44.913	18.065	64.22	13.23	43.19	#1 Run
12/6/2007 11:01	15.538	1.007	38.853	44.886	18.097	64.23	13.23	43.20	#1 Run
12/6/2007 11:01	15.354	1.012	38.854	44.832	18.123	64.23	13.23	43.21	#1 Run
12/6/2007 11:01	15.354	1.011	38.847	44.858	18.097	64.24	13.23	43.21	#1 Run
12/6/2007 11:01	15.383	1.011	38.931	44.858	18.110	64.24	13.23	43.22	#1 Run
12/6/2007 11:02	15.545	1.013	38.989	44.798	18.110	64.24	13.23	43.22	#1 Run
12/6/2007 11:02	15.756	1.016	39.051	44.710	18.107	64.25	13.23	43.23	#1 Run
12/6/2007 11:02	15.636	1.014	39.083	44.870	18.080	64.26	13.23	43.24	#1 Run
12/6/2007 11:02	15.258	1.001	39.116	45.050	17.977	64.26	13.23	43.25	#1 Run
12/6/2007 11:02	14.990	1.003	39.139	45.119	18.000	64.27	13.23	43.25	#1 Run
12/6/2007 11:02	15.216	1.005	39.036	45.204	18.016	64.27	13.23	43.26	#1 Run
12/6/2007 11:03	15.455	1.006	38.948	45.176	18.028	64.27	13.23	43.27	#1 Run
12/6/2007 11:03	15.454	1.007	38.992	45.095	18.041	64.28	13.23	43.26	#1 Run
12/6/2007 11:03	15.454	1.007	39.030	45.042	18.053	64.29	13.23	43.28	#1 Run
12/6/2007 11:03	15.332	1.008	39.031	45.007	18.061	64.30	13.23	43.28	#1 Run
12/6/2007 11:03	15.024	1.009	39.029	44.924	18.071	64.30	13.23	43.29	#1 Run
12/6/2007 11:03	14.867	1.009	39.032	44.824	18.079	64.30	13.23	43.29	#1 Run
12/6/2007 11:04	15.030	1.010	39.026	44.757	18.087	64.31	13.23	43.30	#1 Run
12/6/2007 11:04	15.242	1.010	39.055	44.705	18.094	64.31	13.23	43.31	#1 Run
12/6/2007 11:04	15.383	1.011	39.082	44.844	18.099	64.32	13.23	43.31	#1 Run
12/6/2007 11:04	15.333	1.011	39.006	44.993	18.102	64.33	13.23	43.32	#1 Run
12/6/2007 11:04	15.029	1.010	38.890	45.029	18.103	64.33	13.23	43.33	#1 Run
12/6/2007 11:04	14.805	1.010	38.907	45.003	18.106	64.34	13.23	43.34	#1 Run
12/6/2007 11:05	14.830	1.007	38.935	44.976	18.115	64.35	13.23	43.34	#1 Run
12/6/2007 11:05	15.111	1.007	38.910	44.977	18.119	64.35	13.23	43.35	#1 Run
12/6/2007 11:05	15.447	1.008	38.860	44.811	18.119	64.36	13.23	43.35	#1 Run
12/6/2007 11:05	15.553	1.009	38.853	44.606	18.122	64.37	13.23	43.36	#1 Run
12/6/2007 11:05	15.431	1.010	38.820	44.611	18.121	64.37	13.23	43.37	#1 Run
12/6/2007 11:05	15.134	1.010	38.811	44.668	18.123	64.38	13.23	43.36	#1 Run
12/6/2007 11:06	14.990	1.013	38.778	44.672	18.119	64.39	13.23	43.37	#1 Run
12/6/2007 11:06	15.130	1.014	38.783	44.720	18.121	64.39	13.23	43.36	#1 Run
12/6/2007 11:06	15.334	1.017	38.782	44.858	18.095	64.40	13.23	43.36	#1 Run
12/6/2007 11:06	15.556	1.012	38.898	44.964	18.080	64.41	13.23	43.36	#1 Run
12/6/2007 11:06	15.617	1.015	39.039	44.954	18.089	64.42	13.23	43.35	#1 Run
12/6/2007 11:06	15.396	1.016	39.134	44.952	18.094	64.43	13.23	43.36	#1 Run
12/6/2007 11:07	15.112	1.019	39.210	44.954	18.103	64.43	13.23	43.37	#1 Run
12/6/2007 11:07	15.172	1.020	39.271	44.952	18.106	64.44	13.23	43.36	#1 Run
12/6/2007 11:07	15.514	1.019	39.293	44.980	18.106	64.45	13.23	43.36	#1 Run
12/6/2007 11:07	15.755	1.020	39.289	45.006	18.113	64.46	13.24	43.36	#1 Run
12/6/2007 11:07	15.757	1.017	39.266	45.034	18.090	64.48	13.24	43.50	#1 Run
12/6/2007 11:07	15.588	1.011	39.193	45.084	18.058	64.49	13.24	43.75	#1 Run
12/6/2007 11:08	15.230	1.014	39.068	45.091	18.084	64.50	13.24	43.92	#1 Run
12/6/2007 11:08	15.094	1.017	39.086	45.094	18.113	64.52	13.24	44.16	#1 Run
12/6/2007 11:08	15.229	1.015	39.146	45.069	18.113	64.53	13.24	44.34	#1 Run
12/6/2007 11:08	15.393	1.011	39.177	45.051	18.100	64.55	13.24	44.53	#1 Run
12/6/2007 11:08	15.574	1.002	39.206	44.891	18.031	64.56	13.24	44.69	#1 Run
12/6/2007 11:08	15.656	1.005	39.120	44.779	18.043	64.57	13.24	44.79	#1 Run
12/6/2007 11:09	15.420	1.006	39.014	44.791	18.063	64.59	13.24	44.86	#1 Run
12/6/2007 11:09	15.175	1.008	38.946	44.821	18.076	64.61	13.24	44.89	#1 Run
12/6/2007 11:09	15.094	1.010	38.883	44.828	18.088	64.63	13.24	44.90	#1 Run
12/6/2007 11:09	15.235	1.009	38.844	44.863	18.103	64.65	13.24	44.91	#1 Run
12/6/2007 11:09	15.397	1.011	38.785	44.891	18.107	64.67	13.24	44.87	#1 Run
12/6/2007 11:09	15.455	1.008	38.815	44.892	18.094	64.69	13.24	44.82	#1 Run
12/6/2007 11:10	15.405	1.010	38.845	44.921	18.104	64.70	13.24	44.74	#1 Run
12/6/2007 11:10	15.163	1.012	38.877	44.921	18.119	64.72	13.24	44.69	#1 Run
12/6/2007 11:10	14.874	1.012	38.935	44.868	18.126	64.73	13.24	44.60	#1 Run
12/6/2007 11:10	14.834	1.011	38.912	44.830	18.112	64.75	13.24	44.53	#1 Run
12/6/2007 11:10	15.029	1.011	38.885	44.767	18.114	64.77	13.24	44.42	#1 Run

12/6/2007 11:10	15.235	1.012	38.909	44.702	18.125	64.78	13.24	44.39	#1 Run
12/6/2007 11:11	15.314	1.007	38.960	44.649	18.086	64.80	13.24	44.40	#1 Run
12/6/2007 11:11	15.157	1.008	38.966	44.594	18.105	64.82	13.24	44.36	#1 Run
12/6/2007 11:11	14.854	1.010	38.966	44.616	18.124	64.84	13.24	44.31	#1 Run
12/6/2007 11:11	14.691	1.009	38.971	44.644	18.092	64.85	13.24	44.23	#1 Run
12/6/2007 11:11	14.791	1.000	38.989	44.749	18.016	64.86	13.24	44.17	#1 Run
12/6/2007 11:11	14.929	1.003	38.898	44.882	18.042	64.87	13.24	44.13	#1 Run
12/6/2007 11:12	15.137	1.004	38.785	44.944	18.059	64.88	13.24	44.10	#1 Run
12/6/2007 11:12	15.216	1.005	38.900	44.945	18.066	64.90	13.24	44.08	#1 Run
12/6/2007 11:12	15.004	1.007	38.993	44.835	18.088	64.91	13.24	44.04	#1 Run
12/6/2007 11:12	14.802	1.008	39.000	44.746	18.104	64.92	13.24	44.00	#1 Run
12/6/2007 11:12	14.831	1.009	38.969	44.762	18.111	64.93	13.24	43.83	#1 Run
12/6/2007 11:12	15.035	1.010	38.932	44.762	18.128	64.94	13.24	43.70	#1 Run
12/6/2007 11:13	15.237	1.009	38.903	44.856	18.111	64.96	13.24	43.58	#1 Run
12/6/2007 11:13	15.392	1.006	38.853	44.911	18.099	64.96	13.24	43.45	#1 Run
12/6/2007 11:13	15.375	1.009	38.760	44.859	18.123	64.98	13.24	43.32	#1 Run
12/6/2007 11:13	15.105	1.007	38.889	44.742	18.093	64.99	13.24	43.23	#1 Run
12/6/2007 11:13	14.951	1.007	39.041	44.704	18.119	65.00	13.24	43.07	#1 Run
12/6/2007 11:13	15.125	1.009	39.001	44.674	18.123	65.02	13.24	42.97	#1 Run
12/6/2007 11:14	15.394	1.008	38.940	44.749	18.128	65.03	13.24	42.84	#1 Run
12/6/2007 11:14	15.574	1.009	38.901	44.819	18.119	65.04	13.24	42.74	#1 Run
12/6/2007 11:14	15.805	1.010	38.877	44.883	18.123	65.06	13.24	42.62	#1 Run
12/6/2007 11:14	15.663	1.011	38.903	44.885	18.107	65.07	13.24	42.54	#1 Run
12/6/2007 11:14	15.356	1.009	38.933	44.913	18.096	65.08	13.24	42.43	#1 Run
12/6/2007 11:14	15.258	1.011	39.016	44.966	18.102	65.10	13.24	42.33	#1 Run
12/6/2007 11:15	15.402	1.012	39.076	44.894	18.106	65.12	13.24	42.28	#1 Run
12/6/2007 11:15	15.605	1.012	39.142	44.822	18.118	65.15	13.24	42.22	#1 Run
12/6/2007 11:15	15.739	1.007	39.202	44.795	18.046	65.16	13.24	42.14	#1 Run
12/6/2007 11:15	15.743	1.002	39.176	44.795	18.018	65.17	13.24	42.05	#1 Run
12/6/2007 11:15	15.408	1.004	39.147	44.854	18.047	65.19	13.24	42.00	#1 Run
12/6/2007 11:15	15.258	1.003	39.090	44.912	18.069	65.20	13.24	41.93	#1 Run
12/6/2007 11:16	15.359	1.006	39.003	44.889	18.087	65.22	13.24	41.88	#1 Run
12/6/2007 11:16	15.509	1.008	38.942	44.857	18.111	65.23	13.24	41.84	#1 Run
12/6/2007 11:16	15.601	1.009	38.880	44.857	18.129	65.25	13.24	41.80	#1 Run
12/6/2007 11:16	15.622	1.011	38.880	44.886	18.134	65.26	13.23	41.81	#1 Run
12/6/2007 11:16	15.481	1.006	38.880	44.887	18.097	65.28	13.23	41.78	#1 Run
12/6/2007 11:16	15.155	1.005	38.931	44.888	18.119	65.29	13.23	41.79	#1 Run
12/6/2007 11:17	15.059	1.006	38.963	44.853	18.138	65.31	13.23	41.79	#1 Run
12/6/2007 11:17	15.462	1.005	38.939	44.826	18.137	65.32	13.23	41.78	#1 Run
12/6/2007 11:17	15.614	1.004	38.907	44.798	18.127	65.33	13.23	41.77	#1 Run
12/6/2007 11:17	15.501	1.005	38.875	44.738	18.118	65.34	13.23	41.78	#1 Run
12/6/2007 11:17	15.478	1.004	38.850	44.725	18.126	65.35	13.23	41.80	#1 Run
12/6/2007 11:17	15.120	1.003	38.845	44.701	18.092	65.36	13.24	41.81	#1 Run
12/6/2007 11:18	14.954	0.999	38.842	44.649	18.069	65.37	13.23	41.81	#1 Run
Average	**15.353**	**1.034**	**39.354**	**45.412**	**18.065**	**63.311**	**13.234**	**44.887**	
12/6/2007 11:26	0.327	12.302	0.123	0.392	12.172	65.87	13.24	41.77	O2 Upscale Bias
12/6/2007 11:26	0.374	12.296	0.119	0.365	12.171	65.88	13.24	41.74	O2 Upscale Bias
12/6/2007 11:26	0.277	12.303	0.115	0.362	12.177	65.89	13.24	41.68	O2 Upscale Bias
12/6/2007 11:26	0.074	12.290	0.092	0.357	12.158	65.90	13.24	41.62	O2 Upscale Bias
12/6/2007 11:26	-0.080	12.263	0.095	0.332	12.157	65.91	13.24	41.59	O2 Upscale Bias
12/6/2007 11:27	0.032	12.309	0.096	0.333	12.171	65.91	13.24	41.54	O2 Upscale Bias
12/6/2007 11:27	0.175	12.306	0.092	0.335	12.174	65.93	13.24	41.41	O2 Upscale Bias
Average	**0.168**	**12.295**	**0.105**	**0.354**	**12.168**				
12/6/2007 11:30	0.294	-0.435	53.043	51.197	0.024	66.15	13.24	41.13	NOx Upscale Bias
12/6/2007 11:30	0.337	-0.441	53.166	51.091	0.019	66.15	13.24	41.12	NOx Upscale Bias
12/6/2007 11:30	0.232	-0.447	53.181	51.005	0.016	66.16	13.23	41.12	NOx Upscale Bias
12/6/2007 11:31	-0.016	-0.368	53.157	51.076	0.017	66.18	13.23	41.12	NOx Upscale Bias
12/6/2007 11:31	-0.123	-0.292	53.129	51.160	0.015	66.19	13.23	41.12	NOx Upscale Bias
12/6/2007 11:31	-0.019	-0.295	53.116	51.173	0.009	66.20	13.23	41.12	NOx Upscale Bias
12/6/2007 11:31	0.157	-0.298	53.068	51.203	0.007	66.22	13.23	41.12	NOx Upscale Bias
Average	**0.123**	**-0.368**	**53.123**	**51.130**	**0.015**				
12/6/2007 11:36	26.031	-0.321	0.634	0.861	0.004	66.62	13.23	41.26	CO Upscale Bias
12/6/2007 11:36	25.790	-0.322	0.606	0.811	0.004	66.65	13.23	41.27	CO Upscale Bias
12/6/2007 11:36	25.770	-0.322	0.577	0.753	0.003	66.67	13.23	41.26	CO Upscale Bias
12/6/2007 11:36	25.917	-0.323	0.545	0.728	0.004	66.69	13.23	41.23	CO Upscale Bias
12/6/2007 11:36	26.009	-0.323	0.515	0.690	0.003	66.71	13.23	41.23	CO Upscale Bias
12/6/2007 11:37	26.109	-0.323	0.487	0.664	0.004	66.73	13.23	41.24	CO Upscale Bias
12/6/2007 11:37	26.309	-0.324	0.481	0.640	0.001	66.75	13.23	41.22	CO Upscale Bias
Average	**25.991**	**-0.323**	**0.549**	**0.735**	**0.004**				
12/6/2007 11:42	17.771	1.193	35.909	45.170	18.014	67.28	13.23	40.74	#2 Run
12/6/2007 11:43	17.485	1.194	35.916	45.022	18.027	67.29	13.23	40.72	#2 Run
12/6/2007 11:43	17.305	1.193	36.000	44.887	18.037	67.29	13.23	40.72	#2 Run
12/6/2007 11:43	17.326	1.195	36.076	44.799	18.039	67.30	13.23	40.72	#2 Run
12/6/2007 11:43	17.550	1.194	36.090	44.742	18.026	67.31	13.23	40.71	#2 Run

12/6/2007 11:43	17.849	1.190	36.088	44.711	18.001	67.32	13.23	40.73	#2 Run
12/6/2007 11:43	17.848	1.188	36.123	44.646	18.000	67.33	13.23	40.74	#2 Run
12/6/2007 11:44	17.516	1.190	36.152	44.584	18.003	67.33	13.23	40.74	#2 Run
12/6/2007 11:44	17.202	1.192	36.150	44.534	18.008	67.34	13.23	40.72	#2 Run
12/6/2007 11:44	17.223	1.186	36.154	44.587	17.950	67.35	13.23	40.73	#2 Run
12/6/2007 11:44	17.263	1.192	36.150	44.615	17.968	67.36	13.23	40.72	#2 Run
12/6/2007 11:44	17.266	1.194	36.153	44.700	17.991	67.38	13.23	40.72	#2 Run
12/6/2007 11:44	17.507	1.197	36.147	44.762	18.009	67.40	13.23	40.74	#2 Run
12/6/2007 11:45	17.601	1.199	36.124	44.677	18.017	67.42	13.23	40.77	#2 Run
12/6/2007 11:45	17.167	1.201	36.122	44.595	18.023	67.44	13.23	40.80	#2 Run
12/6/2007 11:45	16.763	1.202	36.123	44.685	18.034	67.45	13.23	40.82	#2 Run
12/6/2007 11:45	17.002	1.206	36.092	44.731	18.049	67.45	13.23	40.82	#2 Run
12/6/2007 11:45	17.346	1.207	36.097	44.651	18.050	67.46	13.23	40.83	#2 Run
12/6/2007 11:45	17.588	1.199	36.068	44.568	17.993	67.46	13.23	40.83	#2 Run
12/6/2007 11:46	17.911	1.201	36.070	44.533	18.017	67.46	13.23	40.85	#2 Run
12/6/2007 11:46	17.933	1.203	36.131	44.498	18.033	67.48	13.23	40.84	#2 Run
12/6/2007 11:46	17.569	1.205	36.179	44.461	18.053	67.49	13.23	40.83	#2 Run
12/6/2007 11:46	17.389	1.204	36.178	44.395	18.062	67.48	13.23	40.84	#2 Run
12/6/2007 11:46	17.828	1.192	36.157	44.258	17.974	67.49	13.23	40.84	#2 Run
12/6/2007 11:46	18.009	1.188	36.102	44.153	17.989	67.50	13.23	40.87	#2 Run
12/6/2007 11:47	18.333	1.188	36.013	44.096	18.005	67.52	13.23	40.90	#2 Run
12/6/2007 11:47	20.384	1.190	35.798	44.088	18.021	67.53	13.23	40.90	#2 Run
12/6/2007 11:47	22.787	1.191	35.505	43.868	18.044	67.55	13.23	40.90	#2 Run
12/6/2007 11:47	23.593	1.193	34.769	43.786	18.059	67.57	13.23	40.91	#2 Run
12/6/2007 11:47	22.812	1.195	34.125	44.197	18.083	67.57	13.23	40.93	#2 Run
12/6/2007 11:47	21.386	1.190	34.642	44.283	18.033	67.59	13.23	40.92	#2 Run
12/6/2007 11:48	20.180	1.193	35.198	44.124	18.061	67.60	13.23	40.91	#2 Run
12/6/2007 11:48	19.598	1.197	35.418	44.065	18.066	67.62	13.23	40.92	#2 Run
12/6/2007 11:48	19.842	1.193	35.576	43.928	18.047	67.64	13.23	40.91	#2 Run
12/6/2007 11:48	20.151	1.183	35.415	43.876	17.960	67.66	13.23	40.92	#2 Run
12/6/2007 11:48	20.065	1.186	35.264	43.975	17.977	67.67	13.23	40.91	#2 Run
12/6/2007 11:48	19.864	1.188	35.346	44.006	17.994	67.68	13.23	40.91	#2 Run
12/6/2007 11:49	19.718	1.190	35.455	44.061	18.005	67.69	13.23	40.91	#2 Run
12/6/2007 11:49	19.440	1.191	35.488	44.112	18.014	67.69	13.23	40.91	#2 Run
12/6/2007 11:49	19.279	1.194	35.544	44.144	18.021	67.71	13.23	40.91	#2 Run
12/6/2007 11:49	19.579	1.198	35.557	44.184	18.026	67.72	13.23	40.90	#2 Run
12/6/2007 11:49	19.992	1.203	35.554	44.153	18.031	67.74	13.23	40.91	#2 Run
12/6/2007 11:49	20.480	1.204	35.553	44.118	18.039	67.76	13.23	40.91	#2 Run
12/6/2007 11:50	20.924	1.205	35.550	44.088	18.046	67.77	13.23	40.90	#2 Run
12/6/2007 11:50	20.847	1.204	35.494	44.066	18.055	67.79	13.23	40.90	#2 Run
12/6/2007 11:50	20.321	1.205	35.439	44.149	18.064	67.79	13.23	40.90	#2 Run
12/6/2007 11:50	19.542	1.205	35.732	44.181	18.069	67.80	13.23	40.89	#2 Run
12/6/2007 11:50	18.693	1.206	36.047	44.128	18.071	67.81	13.23	40.87	#2 Run
12/6/2007 11:50	18.160	1.206	36.189	44.090	18.079	67.83	13.23	40.86	#2 Run
12/6/2007 11:51	18.004	1.207	36.262	44.096	18.086	67.85	13.23	40.81	#2 Run
12/6/2007 11:51	18.271	1.207	36.122	44.148	18.092	67.86	13.23	40.77	#2 Run
12/6/2007 11:51	19.014	1.208	35.990	44.124	18.094	67.87	13.23	40.73	#2 Run
12/6/2007 11:51	19.501	1.204	35.888	44.091	18.080	67.89	13.23	40.66	#2 Run
12/6/2007 11:51	19.401	1.198	35.826	44.203	18.038	67.90	13.23	40.59	#2 Run
12/6/2007 11:51	19.156	1.193	35.917	44.265	18.024	67.92	13.23	40.50	#2 Run
12/6/2007 11:52	18.726	1.197	36.005	44.157	18.052	67.94	13.23	40.41	#2 Run
12/6/2007 11:52	18.436	1.198	35.944	44.084	18.048	67.96	13.23	40.27	#2 Run
12/6/2007 11:52	18.618	1.192	35.884	44.056	18.031	67.99	13.23	40.19	#2 Run
12/6/2007 11:52	18.471	1.195	35.941	44.002	18.049	68.01	13.23	40.14	#2 Run
12/6/2007 11:52	17.968	1.197	36.002	44.033	18.067	68.03	13.23	40.06	#2 Run
12/6/2007 11:52	17.834	1.193	36.168	44.059	18.035	68.04	13.23	40.05	#2 Run
12/6/2007 11:53	17.513	1.193	36.340	44.038	18.055	68.04	13.23	40.03	#2 Run
12/6/2007 11:53	16.986	1.199	36.334	44.060	18.078	68.05	13.23	39.93	#2 Run
12/6/2007 11:53	17.004	1.199	36.308	44.030	18.078	68.07	13.23	39.89	#2 Run
12/6/2007 11:53	17.185	1.197	36.302	44.001	18.072	68.08	13.23	39.87	#2 Run
12/6/2007 11:53	17.387	1.192	36.303	43.976	18.042	68.10	13.23	40.09	#2 Run
12/6/2007 11:53	17.408	1.194	36.328	43.950	18.070	68.12	13.23	40.32	#2 Run
12/6/2007 11:54	17.128	1.193	36.352	43.978	18.069	68.14	13.23	40.36	#2 Run
12/6/2007 11:54	16.820	1.195	36.295	44.028	18.079	68.17	13.23	40.39	#2 Run
12/6/2007 11:54	16.412	1.189	36.258	43.997	18.039	68.18	13.23	40.72	#2 Run
12/6/2007 11:54	16.191	1.192	36.406	43.930	18.067	68.20	13.23	41.10	#2 Run
12/6/2007 11:54	16.225	1.185	36.516	43.825	18.008	68.22	13.23	41.14	#2 Run
12/6/2007 11:54	16.382	1.184	36.517	43.772	18.010	68.24	13.23	41.37	#2 Run
12/6/2007 11:55	16.523	1.185	36.492	43.893	18.021	68.28	13.23	41.80	#2 Run
12/6/2007 11:55	16.558	1.185	36.425	44.044	18.029	68.33	13.23	41.98	#2 Run
12/6/2007 11:55	16.420	1.183	36.369	43.914	18.043	68.39	13.23	41.98	#2 Run
12/6/2007 11:55	16.222	1.181	36.428	43.756	18.061	68.44	13.23	42.13	#2 Run
12/6/2007 11:55	16.233	1.182	36.451	43.708	18.061	68.47	13.23	42.21	#2 Run
12/6/2007 11:55	16.464	1.181	36.334	43.680	18.043	68.49	13.23	42.28	#2 Run

12/6/2007 11:56	16.681	1.176	36.222	43.708	18.007	68.52	13.23	42.33	#2 Run
12/6/2007 11:56	16.884	1.183	36.288	43.684	18.023	68.54	13.23	42.37	#2 Run
12/6/2007 11:56	16.966	1.189	36.365	43.631	18.031	68.56	13.23	42.40	#2 Run
12/6/2007 11:56	16.680	1.191	36.469	43.587	18.045	68.59	13.23	42.39	#2 Run
12/6/2007 11:56	16.488	1.191	36.532	43.731	18.041	68.63	13.23	42.38	#2 Run
12/6/2007 11:56	16.600	1.189	36.412	43.916	18.043	68.67	13.23	42.35	#2 Run
12/6/2007 11:57	16.867	1.193	36.299	43.938	18.067	68.70	13.23	42.31	#2 Run
12/6/2007 11:57	17.086	1.192	36.412	43.908	18.067	68.74	13.23	42.24	#2 Run
12/6/2007 11:57	17.222	1.186	36.530	43.888	18.012	68.77	13.23	42.18	#2 Run
12/6/2007 11:57	17.204	1.181	36.574	43.881	17.992	68.80	13.23	42.10	#2 Run
12/6/2007 11:57	16.882	1.184	36.608	43.797	18.017	68.82	13.23	42.03	#2 Run
12/6/2007 11:57	16.762	1.187	36.634	43.747	18.036	68.85	13.23	41.97	#2 Run
12/6/2007 11:58	16.907	1.188	36.630	43.806	18.052	68.89	13.23	41.89	#2 Run
12/6/2007 11:58	17.103	1.183	36.572	43.887	18.000	68.93	13.23	41.79	#2 Run
12/6/2007 11:58	17.288	1.184	36.524	43.884	18.018	68.97	13.23	41.70	#2 Run
12/6/2007 11:58	17.367	1.186	36.488	43.860	18.033	69.00	13.23	41.61	#2 Run
12/6/2007 11:58	17.186	1.188	36.478	43.882	18.042	69.00	13.23	41.55	#2 Run
12/6/2007 11:58	16.855	1.191	36.454	43.908	18.068	69.01	13.23	41.49	#2 Run
12/6/2007 11:59	16.694	1.193	36.467	43.904	18.075	69.00	13.23	41.39	#2 Run
12/6/2007 11:59	16.735	1.189	36.587	43.849	18.059	68.99	13.23	41.30	#2 Run
12/6/2007 11:59	16.978	1.190	36.694	43.796	18.073	68.98	13.23	41.22	#2 Run
12/6/2007 11:59	17.068	1.190	36.692	43.794	18.070	68.99	13.23	41.12	#2 Run
12/6/2007 11:59	17.126	1.191	36.693	43.660	18.072	69.00	13.23	41.06	#2 Run
12/6/2007 11:59	16.927	1.188	36.633	43.545	18.057	69.02	13.23	40.96	#2 Run
12/6/2007 12:00	16.554	1.191	36.549	43.617	18.082	69.05	13.23	40.89	#2 Run
12/6/2007 12:00	16.533	1.188	36.606	43.712	18.051	69.07	13.23	40.81	#2 Run
12/6/2007 12:00	16.632	1.188	36.627	43.779	18.065	69.09	13.23	40.71	#2 Run
12/6/2007 12:00	16.876	1.189	36.541	43.884	18.061	69.10	13.23	40.66	#2 Run
12/6/2007 12:00	17.164	1.186	36.462	43.904	18.036	69.11	13.23	40.54	#2 Run
12/6/2007 12:00	17.147	1.185	36.460	43.933	18.040	69.12	13.23	40.47	#2 Run
12/6/2007 12:01	16.763	1.188	36.464	43.888	18.059	69.12	13.23	40.43	#2 Run
12/6/2007 12:01	16.422	1.190	36.555	43.790	18.071	69.13	13.23	40.37	#2 Run
12/6/2007 12:01	16.573	1.190	36.632	43.696	18.075	69.16	13.23	40.33	#2 Run
12/6/2007 12:01	16.802	1.184	36.595	43.652	18.032	69.18	13.23	40.33	#2 Run
12/6/2007 12:01	16.933	1.190	36.572	43.713	18.065	69.20	13.23	40.33	#2 Run
12/6/2007 12:01	17.037	1.191	36.600	43.762	18.069	69.22	13.23	40.29	#2 Run
12/6/2007 12:02	16.828	1.191	36.629	43.844	18.063	69.24	13.23	40.22	#2 Run
12/6/2007 12:02	16.423	1.187	36.634	43.927	18.043	69.25	13.23	40.11	#2 Run
12/6/2007 12:02	16.331	1.189	36.626	43.939	18.059	69.27	13.23	40.04	#2 Run
12/6/2007 12:02	16.716	1.183	36.536	43.927	18.012	69.29	13.23	40.00	#2 Run
12/6/2007 12:02	17.007	1.181	36.427	43.843	18.016	69.30	13.23	39.99	#2 Run
12/6/2007 12:02	17.208	1.186	36.453	43.709	18.038	69.32	13.23	39.97	#2 Run
12/6/2007 12:03	17.125	1.188	36.480	43.707	18.058	69.34	13.23	39.96	#2 Run
12/6/2007 12:03	16.821	1.185	36.561	43.706	18.021	69.35	13.23	39.96	#2 Run
12/6/2007 12:03	16.664	1.183	36.654	43.675	18.019	69.35	13.23	39.96	#2 Run
12/6/2007 12:03	16.808	1.183	36.663	43.649	18.027	69.36	13.23	39.96	#2 Run
12/6/2007 12:03	17.077	1.185	36.636	43.645	18.036	69.36	13.23	39.96	#2 Run
12/6/2007 12:03	17.451	1.186	36.628	43.648	18.049	69.37	13.23	39.95	#2 Run
12/6/2007 12:04	17.709	1.187	36.601	43.648	18.055	69.38	13.23	39.96	#2 Run
12/6/2007 12:04	17.488	1.182	36.629	43.650	18.015	69.38	13.23	39.94	#2 Run
12/6/2007 12:04	17.067	1.184	36.634	43.677	18.032	69.39	13.23	39.92	#2 Run
12/6/2007 12:04	17.044	1.187	36.572	43.761	18.045	69.41	13.23	39.88	#2 Run
12/6/2007 12:04	17.380	1.190	36.514	43.711	18.061	69.43	13.23	39.86	#2 Run
12/6/2007 12:04	17.611	1.188	36.544	43.622	18.047	69.46	13.23	39.83	#2 Run
12/6/2007 12:05	17.814	1.190	36.539	43.653	18.055	69.47	13.23	39.80	#2 Run
12/6/2007 12:05	18.084	1.186	36.486	43.683	18.015	69.50	13.23	39.78	#2 Run
12/6/2007 12:05	17.893	1.188	36.462	43.684	18.028	69.52	13.23	39.77	#2 Run
12/6/2007 12:05	17.639	1.193	36.392	43.656	18.053	69.54	13.23	39.75	#2 Run
12/6/2007 12:05	17.926	1.197	36.338	43.712	18.053	69.55	13.23	39.73	#2 Run
12/6/2007 12:05	18.145	1.200	36.393	43.781	18.067	69.57	13.23	39.73	#2 Run
12/6/2007 12:06	18.175	1.201	36.461	43.872	18.069	69.58	13.23	39.70	#2 Run
12/6/2007 12:06	18.103	1.201	36.545	43.969	18.069	69.59	13.23	39.67	#2 Run
12/6/2007 12:06	18.072	1.200	36.602	43.934	18.049	69.59	13.23	39.65	#2 Run
12/6/2007 12:06	17.717	1.192	36.708	43.889	18.003	69.60	13.23	39.63	#2 Run
12/6/2007 12:06	17.206	1.193	36.806	43.801	18.024	69.58	13.23	39.60	#2 Run
12/6/2007 12:06	17.064	1.196	36.811	43.720	18.048	69.58	13.23	39.58	#2 Run
12/6/2007 12:07	17.135	1.198	36.812	43.742	18.058	69.59	13.23	39.54	#2 Run
12/6/2007 12:07	17.376	1.196	36.778	43.771	18.032	69.60	13.23	39.53	#2 Run
12/6/2007 12:07	17.539	1.192	36.780	43.831	18.004	69.60	13.23	39.51	#2 Run
12/6/2007 12:07	17.356	1.196	36.756	43.884	18.043	69.60	13.23	39.47	#2 Run
12/6/2007 12:07	16.913	1.194	36.723	43.861	18.020	69.61	13.23	39.47	#2 Run
12/6/2007 12:07	16.533	1.192	36.691	43.856	18.025	69.63	13.23	39.47	#2 Run
12/6/2007 12:08	16.602	1.193	36.668	43.887	18.048	69.65	13.23	39.47	#2 Run
12/6/2007 12:08	16.734	1.191	36.729	43.876	18.019	69.67	13.23	39.47	#2 Run

12/6/2007 12:08	16.906	1.192	36.808	43.761	18.026	69.69	13.23	39.47	#2 Run
12/6/2007 12:08	17.039	1.193	36.815	43.681	18.044	69.71	13.23	39.45	#2 Run
12/6/2007 12:08	16.928	1.196	36.812	43.707	18.069	69.75	13.23	39.42	#2 Run
12/6/2007 12:08	16.581	1.195	36.789	43.765	18.066	69.78	13.23	39.39	#2 Run
12/6/2007 12:09	16.384	1.196	36.751	43.852	18.064	69.79	13.23	39.38	#2 Run
12/6/2007 12:09	16.434	1.190	36.687	43.908	18.038	69.80	13.23	39.34	#2 Run
12/6/2007 12:09	16.674	1.195	36.616	43.874	18.067	69.81	13.23	39.31	#2 Run
12/6/2007 12:09	16.906	1.196	36.739	43.756	18.071	69.81	13.23	39.28	#2 Run
12/6/2007 12:09	17.110	1.195	36.847	43.649	18.065	69.80	13.23	39.24	#2 Run
12/6/2007 12:09	17.098	1.194	36.791	43.563	18.044	69.80	13.23	39.20	#2 Run
12/6/2007 12:10	16.786	1.191	36.728	43.672	18.038	69.80	13.23	39.17	#2 Run
12/6/2007 12:10	16.585	1.194	36.727	43.763	18.050	69.80	13.23	39.16	#2 Run
12/6/2007 12:10	16.775	1.193	36.730	43.770	18.051	69.80	13.23	39.14	#2 Run
12/6/2007 12:10	17.078	1.196	36.763	43.736	18.063	69.80	13.23	39.15	#2 Run
12/6/2007 12:10	17.239	1.184	36.817	43.645	17.995	69.79	13.23	39.15	#2 Run
12/6/2007 12:10	17.408	1.184	36.814	43.578	18.007	69.78	13.23	39.14	#2 Run
12/6/2007 12:11	17.396	1.186	36.843	43.627	18.023	69.80	13.23	39.13	#2 Run
12/6/2007 12:11	16.965	1.190	36.741	43.704	18.047	69.81	13.23	39.13	#2 Run
12/6/2007 12:11	16.864	1.193	36.651	43.710	18.069	69.84	13.23	39.12	#2 Run
12/6/2007 12:11	17.156	1.194	36.665	43.706	18.074	69.87	13.23	39.14	#2 Run
12/6/2007 12:11	17.480	1.191	36.661	43.649	18.056	69.90	13.23	39.17	#2 Run
12/6/2007 12:11	17.572	1.191	36.632	43.623	18.063	69.93	13.23	39.15	#2 Run
12/6/2007 12:12	17.568	1.188	36.607	43.560	18.051	69.94	13.23	39.14	#2 Run
12/6/2007 12:12	17.358	1.191	36.629	43.511	18.070	69.94	13.23	39.12	#2 Run
12/6/2007 12:12	17.061	1.186	36.661	43.456	18.033	69.94	13.23	39.11	#2 Run
12/6/2007 12:12	16.802	1.186	36.722	43.414	18.046	69.94	13.23	39.12	#2 Run
12/6/2007 12:12	16.844	1.185	36.753	43.483	18.028	69.96	13.23	39.11	#2 Run
12/6/2007 12:12	17.144	1.187	36.720	43.540	18.047	69.99	13.23	39.10	#2 Run
12/6/2007 12:13	17.267	1.188	36.694	43.572	18.055	70.03	13.23	39.07	#2 Run
12/6/2007 12:13	17.200	1.185	36.669	43.630	18.023	70.06	13.23	39.01	#2 Run
12/6/2007 12:13	16.816	1.174	36.638	43.654	17.968	70.10	13.23	38.94	#2 Run
12/6/2007 12:13	16.507	1.177	36.575	43.682	17.985	70.11	13.23	38.93	#2 Run
12/6/2007 12:13	16.542	1.181	36.560	43.675	18.002	70.13	13.23	38.96	#2 Run
12/6/2007 12:13	16.719	1.181	36.714	43.615	18.012	70.15	13.23	39.13	#2 Run
12/6/2007 12:14	16.836	1.182	36.871	43.534	18.023	70.16	13.23	39.24	#2 Run
12/6/2007 12:14	16.938	1.185	36.806	43.517	18.033	70.17	13.23	39.35	#2 Run
12/6/2007 12:14	16.968	1.186	36.727	43.571	18.044	70.18	13.23	39.45	#2 Run
12/6/2007 12:14	16.611	1.189	36.673	43.622	18.052	70.20	13.23	39.60	#2 Run
12/6/2007 12:14	16.384	1.189	36.593	43.620	18.057	70.24	13.23	39.74	#2 Run
12/6/2007 12:14	16.361	1.190	36.672	43.571	18.061	70.27	13.23	39.86	#2 Run
12/6/2007 12:15	16.521	1.192	36.717	43.536	18.068	70.30	13.23	39.98	#2 Run
12/6/2007 12:15	16.557	1.194	36.659	43.542	18.077	70.32	13.23	40.13	#2 Run
12/6/2007 12:15	16.704	1.197	36.608	43.601	18.086	70.34	13.23	40.21	#2 Run
12/6/2007 12:15	16.905	1.198	36.666	43.642	18.076	70.34	13.23	40.27	#2 Run
12/6/2007 12:15	17.035	1.199	36.716	43.507	18.082	70.33	13.23	40.36	#2 Run
12/6/2007 12:15	17.223	1.199	36.569	43.386	18.075	70.34	13.23	40.44	#2 Run
12/6/2007 12:16	17.429	1.202	36.435	43.615	18.095	70.36	13.23	40.50	#2 Run
12/6/2007 12:16	17.388	1.202	36.525	43.790	18.083	70.39	13.23	40.48	#2 Run
12/6/2007 12:16	17.294	1.203	36.590	43.728	18.081	70.45	13.23	40.50	#2 Run
12/6/2007 12:16	17.267	1.204	36.764	43.663	18.076	70.48	13.23	40.49	#2 Run
12/6/2007 12:16	16.913	1.204	36.898	43.744	18.077	70.51	13.23	40.44	#2 Run
12/6/2007 12:16	16.623	1.204	36.850	43.878	18.068	70.55	13.23	40.38	#2 Run
12/6/2007 12:17	16.561	1.209	36.778	43.886	18.069	70.59	13.23	40.36	#2 Run
12/6/2007 12:17	16.805	1.206	36.952	43.822	18.059	70.61	13.23	40.30	#2 Run
12/6/2007 12:17	17.026	1.207	37.132	43.733	18.065	70.62	13.23	40.23	#2 Run
12/6/2007 12:17	17.063	1.193	37.113	43.690	17.996	70.61	13.23	40.17	#2 Run
12/6/2007 12:17	17.141	1.193	37.100	43.775	18.009	70.62	13.23	40.12	#2 Run
12/6/2007 12:17	16.889	1.192	36.995	43.854	18.026	70.62	13.23	40.08	#2 Run
12/6/2007 12:18	16.909	1.188	36.862	43.857	18.042	70.62	13.23	40.04	#2 Run
12/6/2007 12:18	17.205	1.189	36.842	43.827	18.053	70.63	13.23	39.97	#2 Run
12/6/2007 12:18	17.431	1.186	36.811	43.593	18.072	70.65	13.23	39.91	#2 Run
12/6/2007 12:18	17.632	1.188	36.777	43.379	18.082	70.67	13.23	39.88	#2 Run
12/6/2007 12:18	17.595	1.189	36.723	43.449	18.085	70.67	13.23	39.82	#2 Run
12/6/2007 12:18	17.292	1.193	36.691	43.499	18.084	70.68	13.23	39.82	#2 Run
12/6/2007 12:19	17.100	1.193	36.664	43.507	18.077	70.71	13.23	39.78	#2 Run
12/6/2007 12:19	17.141	1.194	36.637	43.533	18.069	70.74	13.23	39.74	#2 Run
12/6/2007 12:19	17.409	1.195	36.644	43.560	18.052	70.76	13.23	39.72	#2 Run
12/6/2007 12:19	17.553	1.192	36.703	43.558	18.031	70.77	13.23	39.66	#2 Run
12/6/2007 12:19	17.654	1.196	36.770	43.531	18.049	70.80	13.23	39.59	#2 Run
12/6/2007 12:19	17.354	1.200	36.889	43.483	18.066	70.83	13.23	39.54	#2 Run
12/6/2007 12:20	16.988	1.202	36.990	43.571	18.063	70.87	13.23	39.45	#2 Run
12/6/2007 12:20	16.941	1.202	36.933	43.683	18.069	70.91	13.23	39.42	#2 Run
12/6/2007 12:20	17.286	1.203	36.854	43.763	18.060	70.94	13.23	39.36	#2 Run
12/6/2007 12:20	17.531	1.203	36.756	43.849	18.070	70.95	13.23	39.28	#2 Run

12/6/2007 12:20	17.894	1.202	36.648	43.909	18.070	70.93	13.23	39.22	#2 Run
12/6/2007 12:20	17.894	1.201	36.729	43.903	18.080	70.92	13.23	39.14	#2 Run
12/6/2007 12:21	17.556	1.197	36.791	43.816	18.082	70.91	13.23	39.10	#2 Run
12/6/2007 12:21	17.188	1.197	36.846	43.751	18.083	70.91	13.23	39.07	#2 Run
12/6/2007 12:21	17.074	1.191	36.871	43.620	18.069	70.91	13.23	39.03	#2 Run
12/6/2007 12:21	17.068	1.185	36.870	43.484	18.066	70.91	13.23	38.96	#2 Run
12/6/2007 12:21	17.151	1.184	36.869	43.441	18.050	70.93	13.23	38.94	#2 Run
12/6/2007 12:21	17.169	1.183	36.802	43.410	18.051	70.95	13.23	39.02	#2 Run
12/6/2007 12:22	17.011	1.186	36.718	43.505	18.082	70.97	13.23	38.94	#2 Run
12/6/2007 12:22	16.646	1.188	36.658	43.559	18.096	71.01	13.23	38.88	#2 Run
12/6/2007 12:22	16.566	1.190	36.575	43.554	18.092	71.04	13.23	38.83	#2 Run
12/6/2007 12:22	16.705	1.188	36.547	43.529	18.072	71.06	13.23	38.80	#2 Run
12/6/2007 12:22	16.929	1.190	36.547	43.477	18.079	71.06	13.23	38.77	#2 Run
12/6/2007 12:22	17.128	1.190	36.640	43.398	18.086	71.06	13.23	38.75	#2 Run
12/6/2007 12:23	17.170	1.194	36.754	43.305	18.094	71.06	13.23	38.72	#2 Run
12/6/2007 12:23	16.927	1.195	36.728	43.290	18.097	71.07	13.23	38.67	#2 Run
12/6/2007 12:23	16.708	1.193	36.728	43.409	18.072	71.07	13.23	38.64	#2 Run
12/6/2007 12:23	16.742	1.187	36.758	43.506	18.037	71.08	13.23	38.62	#2 Run
12/6/2007 12:23	16.978	1.188	36.781	43.560	18.051	71.09	13.23	38.61	#2 Run
12/6/2007 12:23	17.233	1.189	36.720	43.637	18.067	71.12	13.23	38.55	#2 Run
12/6/2007 12:24	17.431	1.191	36.642	43.587	18.065	71.16	13.23	38.58	#2 Run
12/6/2007 12:24	17.392	1.183	36.695	43.523	18.020	71.19	13.23	38.67	#2 Run
12/6/2007 12:24	16.967	1.186	36.730	43.426	18.043	71.25	13.23	38.71	#2 Run
12/6/2007 12:24	16.862	1.191	36.769	43.337	18.064	71.28	13.23	38.70	#2 Run
12/6/2007 12:24	17.101	1.193	36.814	43.313	18.082	71.32	13.23	38.65	#2 Run
12/6/2007 12:24	17.383	1.190	36.762	43.339	18.047	71.35	13.23	38.55	#2 Run
12/6/2007 12:25	17.714	1.183	36.701	43.393	18.023	71.38	13.23	38.54	#2 Run
12/6/2007 12:25	17.771	1.188	36.664	43.461	18.049	71.39	13.23	38.55	#2 Run
12/6/2007 12:25	17.532	1.191	36.641	43.443	18.064	71.39	13.23	38.57	#2 Run
12/6/2007 12:25	17.313	1.196	36.669	43.437	18.076	71.41	13.23	38.58	#2 Run
12/6/2007 12:25	17.348	1.200	36.705	43.365	18.088	71.45	13.23	38.58	#2 Run
12/6/2007 12:25	17.460	1.196	36.784	43.311	18.062	71.48	13.23	38.59	#2 Run
12/6/2007 12:26	17.475	1.202	36.894	43.342	18.089	71.52	13.23	38.60	#2 Run
12/6/2007 12:26	17.709	1.202	36.961	43.392	18.093	71.59	13.23	38.60	#2 Run
12/6/2007 12:26	17.854	1.199	36.988	43.370	18.077	71.65	13.23	38.60	#2 Run
12/6/2007 12:26	17.391	1.198	36.923	43.380	18.077	71.70	13.23	38.59	#2 Run
12/6/2007 12:26	16.946	1.198	36.847	43.449	18.056	71.73	13.23	38.62	#2 Run
12/6/2007 12:26	17.025	1.196	36.876	43.468	18.049	71.75	13.23	38.67	#2 Run
12/6/2007 12:27	17.249	1.197	36.875	43.480	18.065	71.74	13.23	38.67	#2 Run
12/6/2007 12:27	17.197	1.202	36.791	43.535	18.084	71.75	13.23	38.69	#2 Run
12/6/2007 12:27	17.332	1.195	36.729	43.530	18.034	71.76	13.23	38.70	#2 Run
12/6/2007 12:27	17.531	1.195	36.729	43.507	18.042	71.78	13.23	38.71	#2 Run
12/6/2007 12:27	17.253	1.197	36.724	43.500	18.052	71.80	13.23	38.73	#2 Run
12/6/2007 12:27	17.087	1.194	36.697	43.468	18.043	71.81	13.23	38.74	#2 Run
12/6/2007 12:28	17.391	1.195	36.695	43.435	18.057	71.80	13.23	38.74	#2 Run
12/6/2007 12:28	17.562	1.200	36.698	43.376	18.087	71.78	13.23	38.73	#2 Run
12/6/2007 12:28	17.496	1.201	36.726	43.401	18.083	71.75	13.23	38.72	#2 Run
12/6/2007 12:28	17.553	1.201	36.735	43.400	18.079	71.72	13.23	38.72	#2 Run
12/6/2007 12:28	17.487	1.191	36.747	43.501	18.008	71.67	13.23	38.71	#2 Run
12/6/2007 12:28	17.308	1.189	36.624	43.648	18.015	71.60	13.23	38.71	#2 Run
12/6/2007 12:29	17.347	1.194	36.485	43.583	18.046	71.54	13.23	38.70	#2 Run
12/6/2007 12:29	17.688	1.199	36.461	43.525	18.053	71.53	13.23	38.70	#2 Run
12/6/2007 12:29	18.314	1.196	36.459	43.442	18.037	71.53	13.23	38.70	#2 Run
12/6/2007 12:29	18.982	1.199	36.267	43.405	18.053	71.55	13.23	38.71	#2 Run
12/6/2007 12:29	19.322	1.189	36.051	43.468	17.971	71.56	13.23	38.71	#2 Run
12/6/2007 12:29	18.983	1.186	36.230	43.445	17.970	71.58	13.23	38.70	#2 Run
12/6/2007 12:30	18.318	1.188	36.409	43.480	17.990	71.65	13.23	38.69	#2 Run
12/6/2007 12:30	18.420	1.190	36.559	43.525	18.006	71.70	13.23	38.67	#2 Run
12/6/2007 12:30	18.962	1.189	36.655	43.394	18.020	71.75	13.23	38.66	#2 Run
12/6/2007 12:30	19.354	1.188	36.551	43.352	18.029	71.79	13.23	38.64	#2 Run
12/6/2007 12:30	19.207	1.186	36.407	43.468	18.039	71.82	13.23	38.65	#2 Run
12/6/2007 12:30	18.781	1.183	36.490	43.552	18.050	71.85	13.23	38.65	#2 Run
12/6/2007 12:31	18.039	1.181	36.579	43.501	18.055	71.88	13.23	38.64	#2 Run
12/6/2007 12:31	17.389	1.183	36.578	43.445	18.059	71.90	13.23	38.63	#2 Run
12/6/2007 12:31	17.274	1.183	36.586	43.369	18.064	71.91	13.23	38.61	#2 Run
12/6/2007 12:31	17.191	1.185	36.677	43.307	18.072	71.93	13.23	38.60	#2 Run
12/6/2007 12:31	17.441	1.187	36.732	43.222	18.079	71.95	13.23	38.77	#2 Run
12/6/2007 12:31	17.748	1.185	36.729	43.139	18.059	71.97	13.23	38.96	#2 Run
12/6/2007 12:32	17.773	1.184	36.698	43.226	18.048	71.99	13.23	39.09	#2 Run
12/6/2007 12:32	17.452	1.186	36.697	43.296	18.068	72.03	13.23	39.19	#2 Run
12/6/2007 12:32	17.452	1.185	36.651	43.356	18.053	72.08	13.23	39.32	#2 Run
12/6/2007 12:32	18.034	1.184	36.467	43.474	18.055	72.15	13.23	39.41	#2 Run
12/6/2007 12:32	18.413	1.187	36.290	43.439	18.072	72.21	13.23	39.48	#2 Run
12/6/2007 12:32	18.474	1.191	36.486	43.344	18.093	72.23	13.23	39.52	#2 Run

12/6/2007 12:33	18.300	1.185	36.672	43.291	18.033	72.28	13.23	39.55	#2 Run
12/6/2007 12:33	17.791	1.175	36.670	43.264	17.990	72.34	13.23	39.55	#2 Run
12/6/2007 12:33	17.268	1.178	36.676	43.315	18.014	72.41	13.23	39.55	#2 Run
12/6/2007 12:33	17.087	1.181	36.738	43.340	18.028	72.44	13.23	39.52	#2 Run
12/6/2007 12:33	17.228	1.182	36.790	43.341	18.034	72.44	13.23	39.47	#2 Run
12/6/2007 12:33	17.589	1.184	36.816	43.331	18.040	72.42	13.23	39.44	#2 Run
12/6/2007 12:34	18.216	1.184	36.818	43.191	18.048	72.39	13.23	39.40	#2 Run
12/6/2007 12:34	18.546	1.185	36.607	43.105	18.054	72.36	13.23	39.36	#2 Run
12/6/2007 12:34	18.247	1.186	36.391	43.338	18.064	72.33	13.23	39.33	#2 Run
12/6/2007 12:34	17.852	1.188	36.396	43.527	18.075	72.29	13.23	39.28	#2 Run
12/6/2007 12:34	17.775	1.189	36.431	43.462	18.096	72.27	13.23	39.24	#2 Run
12/6/2007 12:34	17.936	1.188	36.463	43.364	18.077	72.26	13.23	39.19	#2 Run
12/6/2007 12:35	18.055	1.186	36.488	43.281	18.059	72.26	13.23	39.15	#2 Run
12/6/2007 12:35	17.984	1.187	36.490	43.223	18.068	72.27	13.23	39.10	#2 Run
12/6/2007 12:35	17.706	1.185	36.496	43.224	18.049	72.29	13.23	39.05	#2 Run
12/6/2007 12:35	17.065	1.186	36.552	43.210	18.052	72.32	13.23	38.98	#2 Run
12/6/2007 12:35	16.884	1.187	36.618	43.325	18.057	72.37	13.23	38.91	#2 Run
12/6/2007 12:35	16.946	1.189	36.737	43.429	18.053	72.39	13.23	38.87	#2 Run
12/6/2007 12:36	16.888	1.189	36.853	43.271	18.055	72.40	13.23	38.82	#2 Run
12/6/2007 12:36	16.865	1.193	36.909	43.184	18.081	72.38	13.23	38.74	#2 Run
12/6/2007 12:36	16.959	1.186	36.962	43.352	18.037	72.39	13.23	38.65	#2 Run
12/6/2007 12:36	16.788	1.188	36.816	43.550	18.054	72.37	13.23	38.61	#2 Run
12/6/2007 12:36	16.503	1.188	36.667	43.466	18.047	72.34	13.23	38.60	#2 Run
12/6/2007 12:36	16.786	1.187	36.665	43.312	18.045	72.34	13.23	38.55	#2 Run
12/6/2007 12:37	17.193	1.189	36.656	43.346	18.067	72.36	13.23	38.50	#2 Run
12/6/2007 12:37	17.755	1.191	36.601	43.399	18.068	72.38	13.23	38.44	#2 Run
12/6/2007 12:37	17.958	1.182	36.544	43.401	18.029	72.41	13.23	38.36	#2 Run
12/6/2007 12:37	17.800	1.185	36.599	43.372	18.054	72.45	13.23	38.23	#2 Run
12/6/2007 12:37	17.415	1.191	36.662	43.346	18.082	72.50	13.23	38.11	#2 Run
12/6/2007 12:37	17.191	1.190	36.666	43.347	18.072	72.54	13.23	38.00	#2 Run
12/6/2007 12:38	17.172	1.180	36.648	43.400	18.030	72.56	13.23	38.00	#2 Run
12/6/2007 12:38	17.331	1.178	36.761	43.421	18.040	72.58	13.23	37.95	#2 Run
12/6/2007 12:38	17.369	1.180	36.844	43.232	18.051	72.59	13.23	37.86	#2 Run
12/6/2007 12:38	17.552	1.180	36.812	43.084	18.064	72.60	13.23	37.80	#2 Run
12/6/2007 12:38	17.482	1.181	36.788	43.228	18.055	72.61	13.23	37.77	#2 Run
12/6/2007 12:38	17.203	1.177	36.726	43.354	18.045	72.63	13.23	37.74	#2 Run
12/6/2007 12:39	17.256	1.180	36.670	43.218	18.075	72.63	13.23	37.68	#2 Run
12/6/2007 12:39	17.351	1.174	36.731	43.070	18.028	72.64	13.23	37.66	#2 Run
12/6/2007 12:39	17.694	1.175	36.773	43.096	18.032	72.65	13.23	37.63	#2 Run
12/6/2007 12:39	17.936	1.178	36.688	43.156	18.056	72.63	13.23	37.69	#2 Run
12/6/2007 12:39	17.886	1.180	36.606	43.193	18.072	72.62	13.23	37.71	#2 Run
12/6/2007 12:39	18.059	1.182	36.470	43.190	18.077	72.60	13.23	37.74	#2 Run
12/6/2007 12:40	18.622	1.183	36.332	43.218	18.089	72.60	13.23	37.74	#2 Run
12/6/2007 12:40	19.313	1.184	36.200	43.221	18.091	72.59	13.23	37.76	#2 Run
12/6/2007 12:40	19.807	1.184	36.100	43.277	18.091	72.58	13.23	37.77	#2 Run
12/6/2007 12:40	20.045	1.183	36.159	43.265	18.087	72.59	13.23	37.78	#2 Run
12/6/2007 12:40	21.291	1.184	36.119	43.163	18.089	72.59	13.23	37.77	#2 Run
12/6/2007 12:40	22.404	1.186	35.243	43.270	18.092	72.61	13.23	37.78	#2 Run
12/6/2007 12:41	22.949	1.179	34.428	43.465	18.055	72.63	13.22	37.78	#2 Run
12/6/2007 12:41	22.815	1.179	34.725	43.316	18.067	72.65	13.22	37.79	#2 Run
12/6/2007 12:41	22.258	1.184	35.136	43.274	18.095	72.68	13.22	37.78	#2 Run
12/6/2007 12:41	21.584	1.187	35.462	43.253	18.114	72.70	13.22	37.78	#2 Run
12/6/2007 12:41	21.253	1.185	35.772	43.291	18.099	72.72	13.22	37.76	#2 Run
12/6/2007 12:41	20.790	1.185	35.860	43.400	18.083	72.76	13.22	37.75	#2 Run
12/6/2007 12:42	19.875	1.186	35.943	43.392	18.086	72.80	13.22	37.74	#2 Run
12/6/2007 12:42	19.153	1.183	35.996	43.367	18.078	72.86	13.22	37.71	#2 Run
12/6/2007 12:42	18.721	1.187	36.082	43.359	18.105	72.95	13.22	37.68	#2 Run
12/6/2007 12:42	18.048	1.184	36.362	43.273	18.074	73.02	13.22	37.66	#2 Run
12/6/2007 12:42	17.885	1.183	36.647	43.218	18.042	73.13	13.22	37.64	#2 Run
12/6/2007 12:42	17.715	1.153	36.735	43.217	17.805	73.41	13.22	37.62	#2 Run
Average	**17.647**	**1.191**	**36.465**	**43.704**	**18.049**	**70.124**	**13.232**	**39.684**	
12/6/2007 12:48	-0.362	12.302	0.153	0.722	12.151	74.36	13.22	37.51	O2 Upscale Bias
12/6/2007 12:48	-0.739	12.309	0.149	0.691	12.154	74.33	13.22	37.50	O2 Upscale Bias
12/6/2007 12:48	-0.780	12.315	0.150	0.665	12.154	74.31	13.22	37.51	O2 Upscale Bias
12/6/2007 12:49	-0.692	12.321	0.153	0.640	12.160	74.31	13.22	37.52	O2 Upscale Bias
12/6/2007 12:49	-0.590	12.291	0.152	0.637	12.137	74.32	13.22	37.49	O2 Upscale Bias
12/6/2007 12:49	-0.306	12.235	0.152	0.609	12.106	74.33	13.22	37.49	O2 Upscale Bias
12/6/2007 12:49	-0.094	12.272	0.151	0.604	12.135	74.34	13.22	37.47	O2 Upscale Bias
12/6/2007 12:49	-0.344	12.337	0.153	0.575	12.160	74.34	13.22	37.45	O2 Upscale Bias
12/6/2007 12:49	-0.738	12.281	0.150	0.544	12.129	74.34	13.22	37.44	O2 Upscale Bias
12/6/2007 12:50	0.131	12.337	0.118	0.541	12.160	74.32	13.22	37.42	O2 Upscale Bias
12/6/2007 12:50	0.411	12.324	0.123	0.544	12.153	74.30	13.22	37.39	O2 Upscale Bias
12/6/2007 12:50	0.612	12.333	0.123	0.519	12.157	74.29	13.22	37.37	O2 Upscale Bias
12/6/2007 12:50	0.818	12.344	0.121	0.517	12.162	74.30	13.22	37.35	O2 Upscale Bias

Average	**-0.206**	**12.308**	**0.142**	**0.601**	**12.148**				
12/6/2007 12:54	0.740	-0.243	52.368	50.651	0.055	74.72	13.22	37.11	NOx Upscale Bias
12/6/2007 12:54	0.374	-0.253	52.489	50.593	0.050	74.75	13.22	37.07	NOx Upscale Bias
12/6/2007 12:54	0.066	-0.261	52.594	50.842	0.045	74.77	13.22	37.07	NOx Upscale Bias
12/6/2007 12:54	0.124	-0.269	52.560	51.082	0.039	74.80	13.22	37.08	NOx Upscale Bias
12/6/2007 12:54	0.401	-0.275	52.524	51.075	0.036	74.82	13.22	37.04	NOx Upscale Bias
12/6/2007 12:54	0.617	-0.279	52.727	50.988	0.033	74.83	13.22	37.02	NOx Upscale Bias
12/6/2007 12:55	0.822	-0.285	52.892	50.818	0.029	74.85	13.22	37.02	NOx Upscale Bias
Average	**0.449**	**-0.266**	**52.593**	**50.864**	**0.041**				
12/6/2007 13:02	25.683	-0.083	0.335	0.662	0.143	75.09	13.22	37.54	CO Upscale Bias
12/6/2007 13:02	25.624	-0.103	0.309	0.639	0.129	75.09	13.22	37.53	CO Upscale Bias
12/6/2007 13:02	25.252	-0.101	0.306	0.634	0.127	75.09	13.22	37.54	CO Upscale Bias
12/6/2007 13:03	24.848	-0.139	0.279	0.607	0.095	75.09	13.22	37.54	CO Upscale Bias
12/6/2007 13:03	24.991	-0.156	0.273	0.576	0.076	75.09	13.22	37.56	CO Upscale Bias
12/6/2007 13:03	25.010	-0.163	0.251	0.576	0.068	75.09	13.22	37.60	CO Upscale Bias
12/6/2007 13:03	25.013	-0.165	0.248	0.541	0.068	75.09	13.22	37.63	CO Upscale Bias
Average	**25.203**	**-0.130**	**0.286**	**0.605**	**0.101**				
12/6/2007 13:06	15.928	1.422	36.651	43.407	18.115	75.07	13.22	36.73	#3 Run
12/6/2007 13:07	16.054	1.424	36.497	43.506	18.122	75.07	13.22	36.79	#3 Run
12/6/2007 13:07	16.153	1.423	36.590	43.556	18.125	75.07	13.22	36.82	#3 Run
12/6/2007 13:07	15.983	1.423	36.640	43.528	18.133	75.07	13.22	36.81	#3 Run
12/6/2007 13:07	15.691	1.424	36.726	43.505	18.136	75.07	13.22	36.81	#3 Run
12/6/2007 13:07	15.570	1.423	36.818	43.443	18.143	75.07	13.22	36.82	#3 Run
12/6/2007 13:07	15.473	1.424	36.814	43.397	18.149	75.08	13.22	36.81	#3 Run
12/6/2007 13:08	15.916	1.422	36.761	43.375	18.153	75.08	13.22	36.81	#3 Run
12/6/2007 13:08	16.237	1.417	36.525	43.418	18.164	75.07	13.22	36.80	#3 Run
12/6/2007 13:08	16.267	1.417	36.325	43.542	18.168	75.08	13.22	36.81	#3 Run
12/6/2007 13:08	15.993	1.417	36.300	43.612	18.175	75.08	13.22	36.78	#3 Run
12/6/2007 13:08	15.966	1.418	36.241	43.533	18.177	75.08	13.22	36.75	#3 Run
12/6/2007 13:08	16.617	1.411	35.946	43.471	18.158	75.09	13.22	36.71	#3 Run
12/6/2007 13:09	16.869	1.411	35.703	43.384	18.164	75.09	13.22	36.68	#3 Run
12/6/2007 13:09	16.869	1.413	36.005	43.187	18.180	75.09	13.22	36.67	#3 Run
12/6/2007 13:09	16.688	1.414	36.265	43.135	18.184	75.09	13.22	36.65	#3 Run
12/6/2007 13:09	16.488	1.405	36.197	43.174	18.126	75.09	13.22	36.57	#3 Run
12/6/2007 13:09	16.380	1.405	36.155	43.265	18.136	75.10	13.22	36.48	#3 Run
12/6/2007 13:09	16.366	1.407	35.979	43.399	18.146	75.10	13.22	36.44	#3 Run
12/6/2007 13:10	17.102	1.411	35.797	43.373	18.162	75.10	13.22	36.36	#3 Run
12/6/2007 13:10	18.144	1.410	35.498	43.386	18.178	75.10	13.22	36.19	#3 Run
12/6/2007 13:10	18.955	1.405	35.199	43.270	18.162	75.10	13.22	36.09	#3 Run
12/6/2007 13:10	19.704	1.409	34.932	43.180	18.187	75.11	13.22	36.07	#3 Run
12/6/2007 13:10	20.147	1.405	34.664	43.317	18.157	75.11	13.22	36.05	#3 Run
12/6/2007 13:10	19.829	1.400	34.534	43.430	18.141	75.11	13.22	36.00	#3 Run
12/6/2007 13:11	19.608	1.403	34.401	43.574	18.154	75.12	13.22	35.94	#3 Run
12/6/2007 13:11	20.369	1.407	34.392	43.656	18.171	75.12	13.22	35.77	#3 Run
12/6/2007 13:11	20.950	1.404	34.379	43.419	18.166	75.12	13.22	35.58	#3 Run
12/6/2007 13:11	20.494	1.409	34.564	43.218	18.194	75.12	13.22	35.40	#3 Run
12/6/2007 13:11	19.586	1.406	34.792	43.416	18.172	75.12	13.22	35.36	#3 Run
12/6/2007 13:11	18.216	1.405	35.536	43.518	18.169	75.12	13.22	35.34	#3 Run
12/6/2007 13:12	17.078	1.399	36.067	43.354	18.125	75.14	13.22	35.47	#3 Run
12/6/2007 13:12	16.602	1.390	35.829	43.404	18.135	75.14	13.22	35.75	#3 Run
12/6/2007 13:12	16.980	1.390	35.571	43.397	18.149	75.14	13.22	36.44	#3 Run
12/6/2007 13:12	17.473	1.392	35.420	43.372	18.155	75.15	13.22	36.60	#3 Run
12/6/2007 13:12	17.475	1.394	35.266	43.400	18.158	75.14	13.22	36.05	#3 Run
12/6/2007 13:12	18.109	1.397	35.324	43.347	18.159	75.15	13.22	36.04	#3 Run
12/6/2007 13:13	18.811	1.400	35.379	43.111	18.170	75.15	13.22	36.24	#3 Run
12/6/2007 13:13	18.612	1.406	35.378	42.966	18.178	75.16	13.22	36.24	#3 Run
12/6/2007 13:13	17.765	1.396	35.444	43.279	18.114	75.16	13.22	36.12	#3 Run
12/6/2007 13:13	16.932	1.397	35.838	43.514	18.127	75.16	13.22	35.98	#3 Run
12/6/2007 13:13	16.667	1.400	36.209	43.398	18.137	75.17	13.22	36.04	#3 Run
12/6/2007 13:13	16.669	1.401	36.216	43.324	18.145	75.17	13.22	35.76	#3 Run
12/6/2007 13:14	16.763	1.402	36.230	43.147	18.161	75.17	13.22	35.62	#3 Run
12/6/2007 13:14	16.767	1.404	36.058	43.043	18.170	75.18	13.22	35.58	#3 Run
12/6/2007 13:14	16.496	1.394	35.947	43.311	18.118	75.18	13.22	35.42	#3 Run
12/6/2007 13:14	16.554	1.395	36.237	43.419	18.124	75.18	13.22	35.24	#3 Run
12/6/2007 13:14	17.077	1.396	36.456	43.220	18.132	75.18	13.22	35.23	#3 Run
12/6/2007 13:14	17.684	1.397	36.117	43.201	18.140	75.19	13.22	35.29	#3 Run
12/6/2007 13:15	17.758	1.395	35.803	43.310	18.146	75.18	13.22	35.30	#3 Run
12/6/2007 13:15	17.397	1.395	35.962	43.333	18.154	75.19	13.22	35.28	#3 Run
12/6/2007 13:15	17.284	1.395	36.011	43.292	18.160	75.19	13.22	35.18	#3 Run
12/6/2007 13:15	17.634	1.395	35.600	43.380	18.173	75.20	13.22	35.00	#3 Run
12/6/2007 13:15	18.124	1.393	35.211	43.436	18.158	75.20	13.22	34.99	#3 Run
12/6/2007 13:15	18.271	1.382	35.359	43.354	18.122	75.20	13.22	34.97	#3 Run
12/6/2007 13:16	18.339	1.383	35.478	43.179	18.139	75.20	13.22	34.91	#3 Run
12/6/2007 13:16	17.932	1.383	35.365	43.084	18.147	75.19	13.22	34.88	#3 Run

12/6/2007 13:16	17.388	1.385	35.279	43.226	18.154	75.19	13.22	34.84	#3 Run
12/6/2007 13:16	17.014	1.385	35.463	43.286	18.160	75.20	13.22	34.87	#3 Run
12/6/2007 13:16	17.152	1.385	35.597	43.190	18.164	75.19	13.22	34.90	#3 Run
12/6/2007 13:16	17.534	1.387	35.481	43.165	18.169	75.19	13.22	34.93	#3 Run
12/6/2007 13:17	17.964	1.387	35.372	43.192	18.176	75.18	13.22	34.94	#3 Run
12/6/2007 13:17	18.255	1.387	35.336	43.185	18.181	75.18	13.22	34.95	#3 Run
12/6/2007 13:17	18.085	1.390	35.276	43.090	18.190	75.19	13.22	35.01	#3 Run
12/6/2007 13:17	18.178	1.387	35.177	43.016	18.171	75.18	13.22	35.00	#3 Run
12/6/2007 13:17	18.359	1.391	35.125	43.103	18.202	75.17	13.22	34.90	#3 Run
12/6/2007 13:17	18.736	1.390	35.202	43.126	18.185	75.17	13.22	34.82	#3 Run
12/6/2007 13:18	18.418	1.377	35.278	43.115	18.116	75.17	13.22	34.79	#3 Run
12/6/2007 13:18	17.433	1.382	35.521	43.064	18.133	75.17	13.22	34.73	#3 Run
12/6/2007 13:18	16.905	1.385	35.778	43.039	18.143	75.18	13.22	34.69	#3 Run
12/6/2007 13:18	16.212	1.387	35.865	43.057	18.155	75.21	13.22	34.65	#3 Run
12/6/2007 13:18	15.666	1.390	36.020	43.208	18.164	75.28	13.22	34.62	#3 Run
12/6/2007 13:18	15.658	1.394	36.237	43.312	18.172	75.31	13.22	34.62	#3 Run
12/6/2007 13:19	15.840	1.395	36.398	43.060	18.178	75.16	13.22	34.60	#3 Run
12/6/2007 13:19	16.226	1.395	36.219	42.922	18.186	74.97	13.22	34.56	#3 Run
12/6/2007 13:19	17.108	1.397	36.006	43.117	18.192	74.84	13.22	34.50	#3 Run
12/6/2007 13:19	17.432	1.395	35.731	43.306	18.198	74.77	13.21	34.36	#3 Run
12/6/2007 13:19	17.019	1.395	35.493	43.297	18.212	74.77	13.21	34.21	#3 Run
12/6/2007 13:19	16.562	1.396	35.826	43.214	18.217	74.78	13.22	34.20	#3 Run
12/6/2007 13:20	16.204	1.394	36.087	43.193	18.211	74.81	13.22	34.21	#3 Run
12/6/2007 13:20	15.980	1.394	36.230	43.189	18.201	74.81	13.22	34.19	#3 Run
12/6/2007 13:20	16.028	1.389	36.393	43.053	18.172	74.80	13.21	34.14	#3 Run
12/6/2007 13:20	15.822	1.377	36.429	42.936	18.108	74.77	13.22	34.12	#3 Run
12/6/2007 13:20	15.432	1.380	36.486	43.117	18.134	74.74	13.21	34.17	#3 Run
12/6/2007 13:20	15.158	1.384	36.456	43.298	18.151	74.73	13.21	34.22	#3 Run
12/6/2007 13:21	15.175	1.385	36.430	43.242	18.166	74.74	13.21	34.24	#3 Run
12/6/2007 13:21	15.447	1.387	36.461	43.165	18.170	74.75	13.21	34.23	#3 Run
12/6/2007 13:21	15.913	1.390	36.497	43.065	18.181	74.77	13.22	34.24	#3 Run
12/6/2007 13:21	16.226	1.389	36.313	43.048	18.189	74.78	13.21	34.29	#3 Run
12/6/2007 13:21	16.127	1.395	36.184	43.158	18.191	74.82	13.22	34.34	#3 Run
12/6/2007 13:21	15.784	1.395	36.250	43.202	18.197	74.86	13.21	34.34	#3 Run
12/6/2007 13:22	16.073	1.395	36.286	43.064	18.197	74.88	13.21	34.27	#3 Run
12/6/2007 13:22	17.135	1.398	35.819	43.039	18.204	74.91	13.21	34.26	#3 Run
12/6/2007 13:22	17.863	1.400	35.472	43.048	18.207	74.95	13.21	34.27	#3 Run
12/6/2007 13:22	18.236	1.400	35.528	43.003	18.193	75.01	13.21	34.28	#3 Run
12/6/2007 13:22	18.124	1.389	35.627	43.178	18.119	75.06	13.22	34.26	#3 Run
12/6/2007 13:22	17.513	1.393	35.783	43.304	18.133	75.12	13.22	34.28	#3 Run
12/6/2007 13:23	16.962	1.394	35.952	43.243	18.148	75.18	13.21	34.28	#3 Run
12/6/2007 13:23	16.868	1.396	35.978	43.189	18.163	75.24	13.21	34.31	#3 Run
12/6/2007 13:23	16.851	1.400	36.059	43.152	18.173	75.32	13.22	34.31	#3 Run
12/6/2007 13:23	16.673	1.405	36.156	43.123	18.192	75.39	13.21	34.30	#3 Run
12/6/2007 13:23	16.852	1.408	36.230	43.237	18.192	75.47	13.21	34.19	#3 Run
12/6/2007 13:23	17.323	1.403	35.948	43.406	18.181	75.52	13.21	34.06	#3 Run
12/6/2007 13:24	17.360	1.405	35.712	43.464	18.199	75.58	13.21	33.99	#3 Run
12/6/2007 13:24	17.271	1.402	35.837	43.372	18.188	75.62	13.22	33.97	#3 Run
12/6/2007 13:24	17.306	1.403	35.964	43.179	18.191	75.67	13.21	34.00	#3 Run
12/6/2007 13:24	17.572	1.391	35.829	43.090	18.115	75.71	13.22	34.01	#3 Run
12/6/2007 13:24	17.572	1.390	35.758	43.311	18.131	75.70	13.22	34.08	#3 Run
12/6/2007 13:24	17.212	1.392	35.933	43.425	18.153	75.68	13.22	34.15	#3 Run
12/6/2007 13:25	16.557	1.393	36.114	43.297	18.167	75.67	13.21	34.22	#3 Run
12/6/2007 13:25	15.809	1.392	36.352	43.194	18.191	75.66	13.21	34.32	#3 Run
12/6/2007 13:25	15.347	1.393	36.521	43.200	18.206	75.67	13.21	34.37	#3 Run
12/6/2007 13:25	15.261	1.385	36.346	43.240	18.132	75.68	13.21	34.36	#3 Run
12/6/2007 13:25	15.397	1.382	36.206	43.099	18.126	75.68	13.21	34.25	#3 Run
12/6/2007 13:25	15.783	1.386	36.178	42.984	18.143	75.74	13.21	34.20	#3 Run
12/6/2007 13:26	16.318	1.388	36.136	43.016	18.152	75.85	13.22	34.22	#3 Run
12/6/2007 13:26	16.334	1.391	35.960	43.068	18.159	76.05	13.21	34.21	#3 Run
12/6/2007 13:26	16.093	1.392	35.819	43.093	18.170	76.29	13.21	34.16	#3 Run
12/6/2007 13:26	16.457	1.396	35.793	43.062	18.174	76.53	13.21	34.04	#3 Run
12/6/2007 13:26	17.319	1.398	35.760	43.010	18.177	76.76	13.21	33.88	#3 Run
12/6/2007 13:26	17.762	1.405	35.373	43.060	18.178	76.95	13.21	33.81	#3 Run
12/6/2007 13:27	17.644	1.403	35.175	43.252	18.177	77.09	13.21	33.81	#3 Run
12/6/2007 13:27	17.187	1.407	35.801	43.240	18.197	77.21	13.21	33.85	#3 Run
12/6/2007 13:27	16.706	1.404	36.378	43.173	18.177	77.27	13.21	33.81	#3 Run
12/6/2007 13:27	16.604	1.405	36.198	43.282	18.183	77.30	13.21	33.83	#3 Run
12/6/2007 13:27	17.059	1.396	36.013	43.314	18.108	77.30	13.21	33.87	#3 Run
12/6/2007 13:27	17.932	1.395	35.771	43.363	18.108	77.25	13.21	33.86	#3 Run
12/6/2007 13:28	18.471	1.399	35.570	43.281	18.133	77.16	13.21	33.90	#3 Run
12/6/2007 13:28	18.343	1.399	35.622	43.191	18.151	77.09	13.21	33.98	#3 Run
12/6/2007 13:28	17.911	1.398	35.699	43.349	18.170	77.02	13.21	34.02	#3 Run
12/6/2007 13:28	17.172	1.399	35.938	43.462	18.193	76.99	13.21	34.06	#3 Run

12/6/2007 13:28	16.194	1.397	36.207	43.362	18.189	76.90	13.21	34.02	#3 Run
12/6/2007 13:28	15.559	1.395	36.452	43.280	18.190	76.78	13.21	33.96	#3 Run
12/6/2007 13:29	15.550	1.392	36.657	43.022	18.194	76.65	13.21	33.90	#3 Run
12/6/2007 13:29	15.449	1.389	36.594	42.865	18.193	76.51	13.21	33.93	#3 Run
12/6/2007 13:29	15.359	1.384	36.534	42.895	18.155	76.46	13.21	33.97	#3 Run
12/6/2007 13:29	15.356	1.378	36.416	42.915	18.124	76.42	13.21	33.94	#3 Run
12/6/2007 13:29	15.321	1.381	36.311	42.859	18.151	76.36	13.21	33.80	#3 Run
12/6/2007 13:29	14.924	1.382	36.402	42.769	18.169	76.28	13.21	33.67	#3 Run
12/6/2007 13:30	14.672	1.386	36.488	42.707	18.185	76.21	13.21	33.78	#3 Run
12/6/2007 13:30	14.877	1.388	36.443	42.690	18.194	76.15	13.21	33.93	#3 Run
12/6/2007 13:30	15.079	1.390	36.369	42.838	18.199	76.11	13.21	34.07	#3 Run
12/6/2007 13:30	15.296	1.392	36.260	42.945	18.210	76.04	13.21	34.18	#3 Run
12/6/2007 13:30	15.441	1.389	36.140	42.880	18.206	75.93	13.21	34.25	#3 Run
12/6/2007 13:30	15.219	1.381	36.286	42.766	18.145	75.84	13.21	34.38	#3 Run
12/6/2007 13:31	14.825	1.381	36.425	42.674	18.150	75.73	13.21	34.37	#3 Run
12/6/2007 13:31	14.563	1.385	36.427	42.634	18.168	75.63	13.21	34.39	#3 Run
12/6/2007 13:31	14.685	1.391	36.365	42.796	18.185	75.57	13.21	34.47	#3 Run
12/6/2007 13:31	15.009	1.389	36.207	42.926	18.175	75.52	13.21	34.45	#3 Run
12/6/2007 13:31	15.559	1.390	36.047	42.793	18.185	75.48	13.21	34.41	#3 Run
12/6/2007 13:31	15.950	1.378	35.834	42.744	18.115	75.46	13.21	34.39	#3 Run
12/6/2007 13:32	15.823	1.380	35.674	42.969	18.140	75.43	13.21	34.41	#3 Run
12/6/2007 13:32	15.430	1.383	35.943	43.059	18.160	75.41	13.22	34.41	#3 Run
12/6/2007 13:32	15.146	1.386	36.202	42.883	18.174	75.41	13.21	34.44	#3 Run
12/6/2007 13:32	15.059	1.389	36.072	42.797	18.191	75.41	13.21	34.50	#3 Run
12/6/2007 13:32	15.110	1.391	35.971	42.742	18.194	75.41	13.22	34.55	#3 Run
12/6/2007 13:32	15.641	1.383	35.946	42.728	18.140	75.42	13.22	34.66	#3 Run
12/6/2007 13:33	15.979	1.378	35.924	42.783	18.129	75.44	13.22	34.81	#3 Run
12/6/2007 13:33	16.008	1.381	36.016	42.829	18.145	75.45	13.21	34.93	#3 Run
12/6/2007 13:33	15.433	1.384	36.091	42.773	18.162	75.46	13.22	35.04	#3 Run
12/6/2007 13:33	15.179	1.387	36.031	42.739	18.179	75.47	13.21	35.12	#3 Run
12/6/2007 13:33	15.379	1.389	35.984	42.642	18.172	75.48	13.21	35.19	#3 Run
12/6/2007 13:33	15.540	1.379	36.020	42.586	18.120	75.49	13.22	35.20	#3 Run
12/6/2007 13:34	15.460	1.380	36.075	42.707	18.132	75.50	13.22	35.21	#3 Run
12/6/2007 13:34	15.438	1.384	36.167	42.818	18.137	75.50	13.22	35.29	#3 Run
12/6/2007 13:34	15.348	1.391	36.237	42.635	18.139	75.50	13.21	35.44	#3 Run
12/6/2007 13:34	15.293	1.392	36.148	42.520	18.145	75.51	13.21	35.51	#3 Run
12/6/2007 13:34	15.629	1.392	36.085	42.738	18.153	75.53	13.22	35.59	#3 Run
12/6/2007 13:34	16.237	1.396	35.982	42.921	18.170	75.57	13.21	35.70	#3 Run
12/6/2007 13:35	16.990	1.396	35.852	42.925	18.175	75.63	13.21	35.76	#3 Run
12/6/2007 13:35	17.470	1.385	35.624	42.959	18.108	75.69	13.21	35.81	#3 Run
12/6/2007 13:35	17.334	1.385	35.443	43.009	18.122	75.74	13.21	35.86	#3 Run
12/6/2007 13:35	16.709	1.387	35.767	42.944	18.135	75.77	13.21	35.87	#3 Run
12/6/2007 13:35	16.123	1.388	36.042	42.860	18.147	75.78	13.21	35.84	#3 Run
12/6/2007 13:35	15.754	1.391	36.063	42.836	18.169	75.78	13.21	35.81	#3 Run
12/6/2007 13:36	15.661	1.391	36.105	42.897	18.161	75.76	13.21	35.78	#3 Run
12/6/2007 13:36	15.681	1.389	36.172	42.878	18.168	75.75	13.21	35.76	#3 Run
12/6/2007 13:36	15.742	1.392	36.231	42.689	18.167	75.73	13.21	35.74	#3 Run
12/6/2007 13:36	15.642	1.384	36.119	42.552	18.123	75.73	13.21	35.72	#3 Run
12/6/2007 13:36	15.563	1.385	36.042	42.765	18.138	75.74	13.21	35.71	#3 Run
12/6/2007 13:36	15.580	1.387	36.102	42.939	18.154	75.74	13.21	35.71	#3 Run
12/6/2007 13:37	15.794	1.389	36.135	42.792	18.164	75.74	13.21	35.69	#3 Run
12/6/2007 13:37	16.073	1.388	36.012	42.700	18.169	75.76	13.21	35.61	#3 Run
12/6/2007 13:37	16.126	1.390	35.924	42.818	18.171	75.76	13.21	35.50	#3 Run
12/6/2007 13:37	15.887	1.391	35.980	42.878	18.175	75.74	13.21	35.47	#3 Run
12/6/2007 13:37	15.520	1.389	36.021	42.727	18.174	75.72	13.21	35.46	#3 Run
12/6/2007 13:37	15.375	1.385	36.140	42.591	18.136	75.71	13.21	35.39	#3 Run
12/6/2007 13:38	15.473	1.379	36.264	42.661	18.106	75.70	13.21	35.33	#3 Run
12/6/2007 13:38	15.556	1.383	36.167	42.792	18.129	75.68	13.21	35.30	#3 Run
12/6/2007 13:38	15.456	1.384	36.111	42.721	18.145	75.67	13.21	35.29	#3 Run
12/6/2007 13:38	15.281	1.387	36.200	42.655	18.159	75.66	13.21	35.15	#3 Run
12/6/2007 13:38	14.857	1.389	36.276	42.722	18.170	75.65	13.21	35.02	#3 Run
12/6/2007 13:38	14.437	1.384	36.301	42.790	18.141	75.65	13.21	34.96	#3 Run
12/6/2007 13:39	14.389	1.386	36.310	42.701	18.167	75.64	13.21	34.94	#3 Run
12/6/2007 13:39	14.568	1.384	36.370	42.627	18.139	75.65	13.21	34.87	#3 Run
12/6/2007 13:39	14.668	1.387	36.438	42.786	18.157	75.66	13.21	34.85	#3 Run
12/6/2007 13:39	14.738	1.390	36.506	42.903	18.187	75.67	13.21	34.86	#3 Run
12/6/2007 13:39	14.497	1.392	36.565	42.710	18.192	75.68	13.21	34.86	#3 Run
12/6/2007 13:39	14.256	1.385	36.505	42.597	18.154	75.70	13.21	34.94	#3 Run
12/6/2007 13:40	14.311	1.386	36.421	42.752	18.157	75.71	13.21	35.02	#3 Run
12/6/2007 13:40	14.611	1.389	36.382	42.871	18.181	75.74	13.21	35.03	#3 Run
12/6/2007 13:40	14.867	1.389	36.363	42.693	18.175	75.75	13.21	35.06	#3 Run
12/6/2007 13:40	14.970	1.388	36.436	42.510	18.179	75.76	13.21	35.13	#3 Run
12/6/2007 13:40	15.036	1.389	36.453	42.641	18.159	75.75	13.21	35.17	#3 Run
12/6/2007 13:40	14.833	1.383	36.313	42.771	18.130	75.76	13.21	35.21	#3 Run

12/6/2007 13:41	14.793	1.384	36.219	42.761	18.145	75.77	13.21	35.15	#3 Run
12/6/2007 13:41	14.996	1.385	36.312	42.665	18.159	75.79	13.21	35.06	#3 Run
12/6/2007 13:41	15.221	1.390	36.350	42.578	18.179	75.81	13.21	35.04	#3 Run
12/6/2007 13:41	15.466	1.391	36.262	42.538	18.187	75.84	13.21	35.03	#3 Run
12/6/2007 13:41	15.452	1.391	36.202	42.649	18.188	75.83	13.21	34.94	#3 Run
12/6/2007 13:41	15.323	1.391	36.288	42.685	18.189	75.83	13.21	34.84	#3 Run
12/6/2007 13:42	14.939	1.389	36.364	42.527	18.175	75.81	13.21	34.85	#3 Run
12/6/2007 13:42	14.900	1.394	36.398	42.422	18.193	75.79	13.21	34.86	#3 Run
12/6/2007 13:42	15.101	1.391	36.452	42.576	18.181	75.79	13.21	34.83	#3 Run
12/6/2007 13:42	15.258	1.392	36.381	42.776	18.195	75.79	13.21	34.79	#3 Run
12/6/2007 13:42	15.250	1.391	36.318	42.796	18.179	75.82	13.21	34.74	#3 Run
12/6/2007 13:42	15.147	1.379	36.487	42.728	18.101	75.84	13.21	34.70	#3 Run
12/6/2007 13:43	15.032	1.378	36.594	42.566	18.116	75.85	13.21	34.72	#3 Run
12/6/2007 13:43	14.761	1.381	36.544	42.526	18.142	75.86	13.21	34.79	#3 Run
12/6/2007 13:43	14.775	1.384	36.505	42.665	18.156	75.87	13.21	34.83	#3 Run
12/6/2007 13:43	14.915	1.386	36.380	42.846	18.169	75.87	13.21	34.86	#3 Run
12/6/2007 13:43	15.195	1.390	36.251	42.701	18.188	75.89	13.21	34.89	#3 Run
12/6/2007 13:43	15.348	1.392	36.341	42.530	18.199	75.88	13.21	34.93	#3 Run
12/6/2007 13:44	15.281	1.388	36.352	42.534	18.166	75.89	13.21	35.00	#3 Run
12/6/2007 13:44	15.518	1.379	35.983	42.645	18.126	75.89	13.21	35.03	#3 Run
12/6/2007 13:44	15.941	1.382	35.664	42.785	18.138	75.90	13.21	35.06	#3 Run
12/6/2007 13:44	16.848	1.384	35.601	42.812	18.150	75.89	13.21	35.01	#3 Run
12/6/2007 13:44	17.697	1.387	35.502	42.629	18.156	75.90	13.21	34.79	#3 Run
12/6/2007 13:44	18.180	1.388	35.331	42.503	18.168	75.91	13.21	34.58	#3 Run
12/6/2007 13:45	18.090	1.390	35.206	42.591	18.175	75.92	13.21	34.51	#3 Run
12/6/2007 13:45	17.595	1.390	35.307	42.646	18.176	75.93	13.21	34.50	#3 Run
12/6/2007 13:45	16.799	1.394	35.427	42.637	18.183	75.92	13.21	34.49	#3 Run
12/6/2007 13:45	16.066	1.391	35.677	42.605	18.165	75.92	13.21	34.48	#3 Run
12/6/2007 13:45	15.621	1.395	35.964	42.553	18.162	75.92	13.21	34.44	#3 Run
12/6/2007 13:45	15.443	1.399	36.112	42.518	18.191	75.93	13.21	34.42	#3 Run
12/6/2007 13:46	15.340	1.393	36.280	42.733	18.158	75.94	13.21	34.45	#3 Run
12/6/2007 13:46	15.224	1.395	36.306	42.933	18.180	75.96	13.21	34.55	#3 Run
12/6/2007 13:46	15.003	1.394	36.349	42.691	18.169	75.98	13.21	34.61	#3 Run
12/6/2007 13:46	14.436	1.393	36.410	42.539	18.165	75.99	13.21	34.53	#3 Run
12/6/2007 13:46	14.373	1.393	36.487	42.747	18.157	76.01	13.21	34.42	#3 Run
12/6/2007 13:46	14.473	1.387	36.421	42.929	18.128	76.03	13.21	34.38	#3 Run
12/6/2007 13:47	14.591	1.391	36.366	42.691	18.156	76.06	13.21	34.31	#3 Run
12/6/2007 13:47	14.775	1.393	36.394	42.488	18.182	76.08	13.21	34.20	#3 Run
12/6/2007 13:47	14.835	1.387	36.425	42.697	18.133	76.10	13.21	34.13	#3 Run
12/6/2007 13:47	14.738	1.383	36.391	42.847	18.125	76.09	13.21	34.02	#3 Run
12/6/2007 13:47	14.661	1.389	36.355	42.643	18.155	76.07	13.21	33.96	#3 Run
12/6/2007 13:47	15.158	1.393	36.165	42.561	18.185	76.05	13.21	33.91	#3 Run
12/6/2007 13:48	15.583	1.393	35.983	42.729	18.195	76.05	13.21	33.84	#3 Run
12/6/2007 13:48	15.643	1.392	36.012	42.811	18.187	76.04	13.21	33.83	#3 Run
12/6/2007 13:48	15.545	1.392	36.053	42.563	18.191	76.01	13.21	33.83	#3 Run
12/6/2007 13:48	15.420	1.391	36.235	42.344	18.188	75.98	13.21	33.78	#3 Run
12/6/2007 13:48	15.225	1.390	36.416	42.584	18.179	75.96	13.21	33.86	#3 Run
12/6/2007 13:48	14.916	1.385	36.351	42.799	18.154	75.94	13.21	33.93	#3 Run
12/6/2007 13:49	14.798	1.388	36.309	42.764	18.182	75.92	13.21	34.04	#3 Run
12/6/2007 13:49	15.017	1.388	36.369	42.674	18.189	75.90	13.21	34.11	#3 Run
12/6/2007 13:49	15.281	1.387	36.421	42.651	18.184	75.88	13.21	34.13	#3 Run
12/6/2007 13:49	15.361	1.385	36.319	42.645	18.164	75.87	13.21	34.18	#3 Run
12/6/2007 13:49	15.321	1.376	36.210	42.615	18.118	75.83	13.21	34.21	#3 Run
12/6/2007 13:49	15.121	1.381	36.219	42.576	18.140	75.81	13.21	34.19	#3 Run
12/6/2007 13:50	15.057	1.384	36.212	42.533	18.157	75.78	13.21	34.14	#3 Run
12/6/2007 13:50	15.665	1.389	36.046	42.537	18.178	75.76	13.21	34.11	#3 Run
12/6/2007 13:50	16.630	1.388	35.809	42.573	18.155	75.74	13.21	34.07	#3 Run
12/6/2007 13:50	17.357	1.392	35.365	42.697	18.180	75.72	13.21	34.02	#3 Run
12/6/2007 13:50	17.617	1.394	35.012	42.861	18.173	75.70	13.21	33.93	#3 Run
12/6/2007 13:50	17.135	1.393	35.539	42.811	18.163	75.69	13.21	33.94	#3 Run
12/6/2007 13:51	16.285	1.394	35.977	42.812	18.167	75.68	13.21	33.95	#3 Run
12/6/2007 13:51	15.382	1.398	36.123	42.830	18.156	75.67	13.21	33.86	#3 Run
12/6/2007 13:51	15.078	1.388	36.277	42.807	18.105	75.65	13.21	33.79	#3 Run
12/6/2007 13:51	15.182	1.391	36.309	42.835	18.135	75.66	13.21	33.85	#3 Run
12/6/2007 13:51	15.240	1.395	36.352	42.840	18.154	75.66	13.21	33.87	#3 Run
12/6/2007 13:51	15.159	1.398	36.264	42.865	18.173	75.65	13.21	33.84	#3 Run
12/6/2007 13:52	15.070	1.394	36.234	42.851	18.145	75.66	13.21	33.87	#3 Run
12/6/2007 13:52	14.774	1.389	36.358	42.780	18.135	75.66	13.21	33.87	#3 Run
12/6/2007 13:52	14.523	1.388	36.446	42.809	18.138	75.67	13.21	33.89	#3 Run
12/6/2007 13:52	14.374	1.393	36.355	42.822	18.175	75.69	13.21	33.92	#3 Run
12/6/2007 13:52	14.498	1.392	36.300	42.758	18.166	75.72	13.21	33.92	#3 Run
12/6/2007 13:52	14.696	1.381	36.334	42.674	18.096	75.73	13.21	33.93	#3 Run
12/6/2007 13:53	14.879	1.381	36.355	42.678	18.113	75.74	13.21	33.93	#3 Run
12/6/2007 13:53	14.897	1.383	36.293	42.660	18.125	75.75	13.21	33.93	#3 Run

12/6/2007 13:53	14.627	1.384	36.247	42.468	18.133	75.74	13.21	33.95	#3 Run
12/6/2007 13:53	14.573	1.385	36.145	42.392	18.143	75.73	13.21	33.90	#3 Run
12/6/2007 13:53	14.677	1.385	36.072	42.578	18.150	75.72	13.21	33.90	#3 Run
12/6/2007 13:53	14.799	1.388	36.161	42.731	18.159	75.72	13.21	33.91	#3 Run
12/6/2007 13:54	15.017	1.388	36.198	42.613	18.163	75.70	13.21	33.93	#3 Run
12/6/2007 13:54	15.260	1.387	36.047	42.595	18.177	75.70	13.21	33.96	#3 Run
12/6/2007 13:54	15.111	1.383	35.923	42.675	18.154	75.70	13.21	34.02	#3 Run
12/6/2007 13:54	14.787	1.385	36.097	42.650	18.174	75.68	13.21	34.04	#3 Run
12/6/2007 13:54	14.878	1.389	36.198	42.546	18.193	75.66	13.21	34.07	#3 Run
12/6/2007 13:54	14.998	1.388	36.084	42.529	18.172	75.64	13.21	34.10	#3 Run
12/6/2007 13:55	15.222	1.387	35.980	42.556	18.142	75.61	13.21	34.13	#3 Run
12/6/2007 13:55	15.583	1.381	36.010	42.562	18.083	75.59	13.21	34.20	#3 Run
12/6/2007 13:55	16.025	1.385	36.033	42.625	18.105	75.57	13.21	34.25	#3 Run
12/6/2007 13:55	15.711	1.388	36.002	42.698	18.118	75.55	13.21	34.24	#3 Run
12/6/2007 13:55	15.299	1.389	36.018	42.591	18.127	75.53	13.21	34.22	#3 Run
12/6/2007 13:55	15.132	1.390	36.201	42.528	18.134	75.53	13.21	34.23	#3 Run
12/6/2007 13:56	15.078	1.391	36.366	42.664	18.143	75.51	13.21	34.24	#3 Run
12/6/2007 13:56	15.242	1.391	36.392	42.844	18.149	75.50	13.21	34.24	#3 Run
12/6/2007 13:56	15.663	1.393	36.364	42.701	18.153	75.49	13.21	34.22	#3 Run
12/6/2007 13:56	16.127	1.397	36.038	42.632	18.159	75.48	13.21	34.22	#3 Run
12/6/2007 13:56	16.458	1.398	35.769	42.792	18.166	75.47	13.21	34.21	#3 Run
12/6/2007 13:56	16.819	1.395	35.647	42.848	18.151	75.46	13.21	34.22	#3 Run
12/6/2007 13:57	17.259	1.397	35.566	42.776	18.172	75.45	13.21	34.23	#3 Run
12/6/2007 13:57	17.554	1.400	35.622	42.686	18.169	75.45	13.21	34.16	#3 Run
12/6/2007 13:57	17.880	1.390	35.658	42.783	18.113	75.44	13.21	33.97	#3 Run
12/6/2007 13:57	17.736	1.390	35.481	42.921	18.124	75.44	13.21	33.78	#3 Run
12/6/2007 13:57	16.994	1.394	35.418	42.972	18.132	75.43	13.21	33.69	#3 Run
12/6/2007 13:57	16.115	1.396	35.893	42.880	18.139	75.42	13.21	33.65	#3 Run
12/6/2007 13:58	15.733	1.397	36.272	42.836	18.149	75.42	13.21	33.62	#3 Run
12/6/2007 13:58	15.662	1.397	36.272	42.880	18.168	75.43	13.21	33.62	#3 Run
12/6/2007 13:58	15.624	1.399	36.289	42.960	18.176	75.42	13.21	33.65	#3 Run
12/6/2007 13:58	15.447	1.396	36.472	43.031	18.140	75.43	13.21	33.66	#3 Run
12/6/2007 13:58	15.301	1.378	36.589	42.947	18.056	75.42	13.21	33.61	#3 Run
12/6/2007 13:58	15.022	1.376	36.437	42.913	18.072	75.43	13.21	33.57	#3 Run
12/6/2007 13:59	14.857	1.375	36.338	42.843	18.091	75.42	13.21	33.53	#3 Run
12/6/2007 13:59	14.855	1.374	36.377	42.749	18.108	75.42	13.21	33.57	#3 Run
12/6/2007 13:59	14.859	1.376	36.422	42.669	18.113	75.43	13.21	33.66	#3 Run
12/6/2007 13:59	14.877	1.377	36.322	42.645	18.122	75.42	13.21	33.70	#3 Run
12/6/2007 13:59	14.962	1.378	36.242	42.673	18.134	75.43	13.21	33.82	#3 Run
12/6/2007 13:59	14.982	1.380	36.249	42.657	18.141	75.42	13.21	33.85	#3 Run
12/6/2007 14:00	15.124	1.382	36.234	42.488	18.147	75.43	13.21	33.85	#3 Run
12/6/2007 14:00	15.422	1.383	36.024	42.449	18.157	75.43	13.21	33.74	#3 Run
12/6/2007 14:00	15.506	1.383	35.878	42.600	18.164	75.43	13.21	33.67	#3 Run
12/6/2007 14:00	15.331	1.384	35.992	42.672	18.170	75.43	13.21	33.67	#3 Run
12/6/2007 14:00	15.260	1.387	36.132	42.670	18.171	75.43	13.21	33.67	#3 Run
12/6/2007 14:00	15.197	1.387	36.218	42.665	18.172	75.43	13.21	33.47	#3 Run
12/6/2007 14:01	14.938	1.386	36.266	42.612	18.175	75.44	13.21	33.24	#3 Run
12/6/2007 14:01	14.920	1.386	36.174	42.616	18.175	75.44	13.21	33.14	#3 Run
12/6/2007 14:01	15.121	1.389	36.134	42.647	18.176	75.43	13.21	33.13	#3 Run
12/6/2007 14:01	15.411	1.388	36.170	42.645	18.180	75.43	13.21	33.17	#3 Run
12/6/2007 14:01	15.916	1.391	36.203	42.511	18.177	75.43	13.21	33.19	#3 Run
12/6/2007 14:01	16.400	1.393	36.086	42.471	18.177	75.44	13.21	33.23	#3 Run
12/6/2007 14:02	16.811	1.393	35.978	42.741	18.178	75.42	13.21	33.26	#3 Run
12/6/2007 14:02	16.948	1.393	35.677	43.001	18.179	75.42	13.21	33.21	#3 Run
12/6/2007 14:02	16.898	1.394	35.429	42.864	18.182	75.42	13.21	33.25	#3 Run
12/6/2007 14:02	16.913	1.394	35.559	42.678	18.188	75.41	13.21	33.33	#3 Run
12/6/2007 14:02	16.678	1.392	35.722	42.860	18.189	75.41	13.21	33.40	#3 Run
12/6/2007 14:02	16.376	1.392	35.971	42.945	18.180	75.41	13.21	33.47	#3 Run
12/6/2007 14:03	16.049	1.392	36.192	42.690	18.187	75.41	13.21	33.53	#3 Run
12/6/2007 14:03	15.659	1.383	36.314	42.506	18.125	75.41	13.21	33.58	#3 Run
12/6/2007 14:03	15.177	1.377	36.383	42.627	18.097	75.40	13.21	33.63	#3 Run
12/6/2007 14:03	14.943	1.379	36.317	42.770	18.118	75.41	13.21	33.64	#3 Run
12/6/2007 14:03	15.252	1.381	36.273	42.734	18.129	75.40	13.21	33.67	#3 Run
12/6/2007 14:03	15.553	1.388	36.307	42.654	18.135	75.40	13.21	33.68	#3 Run
12/6/2007 14:04	15.824	1.385	36.313	42.548	18.146	75.40	13.21	33.69	#3 Run
12/6/2007 14:04	15.878	1.384	36.138	42.505	18.156	75.39	13.21	33.61	#3 Run
12/6/2007 14:04	15.582	1.386	36.020	42.581	18.166	75.39	13.21	33.50	#3 Run
12/6/2007 14:04	15.221	1.385	36.139	42.570	18.171	75.39	13.21	33.45	#3 Run
12/6/2007 14:04	15.058	1.388	36.281	42.411	18.178	75.39	13.21	33.31	#3 Run
12/6/2007 14:04	15.122	1.389	36.304	42.335	18.188	75.38	13.21	33.25	#3 Run
12/6/2007 14:05	15.293	1.389	36.289	42.546	18.183	75.38	13.21	33.21	#3 Run
12/6/2007 14:05	15.329	1.386	36.234	42.715	18.172	75.38	13.21	33.25	#3 Run
12/6/2007 14:05	15.110	1.389	36.192	42.671	18.191	75.38	13.21	33.22	#3 Run
12/6/2007 14:05	14.716	1.391	36.312	42.608	18.200	75.37	13.21	33.18	#3 Run

12/6/2007 14:05	14.576	1.381	36.386	42.554	18.118	75.37	13.21	33.24	#3 Run
12/6/2007 14:05	14.713	1.375	36.349	42.554	18.107	75.36	13.21	33.30	#3 Run
12/6/2007 14:06	14.886	1.376	36.291	42.662	18.123	75.36	13.21	33.28	#3 Run
12/6/2007 14:06	14.958	1.377	36.240	42.711	18.130	75.36	13.21	33.28	#3 Run
12/6/2007 14:06	14.898	1.378	36.216	42.564	18.142	75.35	13.21	33.37	#3 Run
12/6/2007 14:06	14.667	1.378	36.251	42.445	18.146	75.34	13.21	33.44	#3 Run
12/6/2007 14:06	14.432	1.356	36.291	42.447	17.942	75.35	13.21	33.41	#3 Run
12/6/2007 14:06	14.334	1.225	36.169	42.491	16.941	75.35	13.21	33.40	#3 Run
Average	**16.052**	**1.391**	**36.043**	**42.909**	**18.155**	**75.567**	**13.213**	**34.574**	
12/6/2007 14:11	0.442	12.063	0.216	0.874	12.233	75.32	13.21	34.10	O2 Upscale Bias
12/6/2007 14:11	0.200	12.074	0.188	0.839	12.239	75.32	13.21	34.06	O2 Upscale Bias
12/6/2007 14:11	0.171	12.074	0.187	0.787	12.234	75.32	13.21	34.03	O2 Upscale Bias
12/6/2007 14:11	0.264	12.086	0.188	0.758	12.235	75.33	13.21	34.01	O2 Upscale Bias
12/6/2007 14:11	0.362	12.078	0.178	0.718	12.230	75.32	13.21	34.01	O2 Upscale Bias
12/6/2007 14:11	0.466	12.077	0.151	0.692	12.226	75.32	13.21	34.04	O2 Upscale Bias
12/6/2007 14:12	0.472	12.081	0.150	0.671	12.230	75.32	13.21	34.10	O2 Upscale Bias
Average	**0.340**	**12.076**	**0.180**	**0.763**	**12.232**				
12/6/2007 14:15	0.578	-0.147	52.677	50.823	0.029	75.34	13.21	33.67	NOx Upscale Bias
12/6/2007 14:15	0.315	-0.152	52.587	50.775	0.023	75.34	13.21	33.66	NOx Upscale Bias
12/6/2007 14:15	0.033	-0.154	52.504	50.882	0.025	75.34	13.21	33.71	NOx Upscale Bias
12/6/2007 14:15	0.124	-0.158	52.783	50.907	0.023	75.34	13.21	33.86	NOx Upscale Bias
12/6/2007 14:16	0.377	-0.161	52.981	50.945	0.019	75.34	13.21	34.06	NOx Upscale Bias
12/6/2007 14:16	0.436	-0.164	52.804	51.003	0.019	75.35	13.21	34.19	NOx Upscale Bias
12/6/2007 14:16	0.469	-0.164	52.667	50.747	0.017	75.34	13.21	34.27	NOx Upscale Bias
Average	**0.333**	**-0.157**	**52.715**	**50.869**	**0.022**				
12/6/2007 14:21	26.375	-0.179	0.245	0.515	0.034	75.38	13.21	33.63	CO Upscale Bias
12/6/2007 14:21	26.576	-0.181	0.213	0.460	0.028	75.38	13.21	33.65	CO Upscale Bias
12/6/2007 14:21	26.758	-0.182	0.192	0.434	0.027	75.38	13.21	33.67	CO Upscale Bias
12/6/2007 14:21	26.818	-0.182	0.193	0.401	0.031	75.39	13.21	33.67	CO Upscale Bias
12/6/2007 14:22	26.608	-0.183	0.192	0.368	0.030	75.39	13.20	33.55	CO Upscale Bias
12/6/2007 14:22	26.175	-0.182	0.183	0.347	0.027	75.39	13.21	33.33	CO Upscale Bias
12/6/2007 14:22	26.174	-0.184	0.158	0.348	0.026	75.39	13.21	33.19	CO Upscale Bias
12/6/2007 14:23	25.854	-0.185	0.155	0.284	0.031	75.40	13.21	33.27	CO Upscale Bias
12/6/2007 14:23	26.013	-0.185	0.160	0.284	0.031	75.40	13.21	33.41	CO Upscale Bias
12/6/2007 14:23	26.303	-0.186	0.160	0.281	0.032	75.40	13.21	33.50	CO Upscale Bias
12/6/2007 14:23	26.577	-0.187	0.158	0.254	0.029	75.40	13.21	33.62	CO Upscale Bias
12/6/2007 14:24	26.340	-0.185	0.159	0.256	0.029	75.41	13.21	33.66	CO Upscale Bias
12/6/2007 14:24	26.292	-0.187	0.158	0.255	0.034	75.41	13.21	33.66	CO Upscale Bias
12/6/2007 14:24	25.997	-0.185	0.154	0.258	0.036	75.41	13.21	33.67	CO Upscale Bias
Average	**26.347**	**-0.184**	**0.177**	**0.339**	**0.030**				

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TimeStamp	co	co2	no1	nox	o2	ambient	barometric	humidity	run_name
12/6/2007 15:46	-0.067	12.816	0.073	0.106	12.300	74.98	13.20	31.93	O2 Upscale Bias
12/6/2007 15:46	0.095	12.835	0.096	0.082	12.309	74.98	13.20	31.92	O2 Upscale Bias
12/6/2007 15:47	0.298	12.845	0.098	0.086	12.312	74.98	13.20	31.90	O2 Upscale Bias
12/6/2007 15:47	0.495	12.854	0.094	0.085	12.314	74.98	13.20	31.92	O2 Upscale Bias
12/6/2007 15:47	0.700	12.860	0.096	0.084	12.316	74.98	13.20	31.92	O2 Upscale Bias
12/6/2007 15:47	0.500	12.868	0.095	0.110	12.318	74.98	13.20	31.96	O2 Upscale Bias
12/6/2007 15:47	0.224	12.867	0.097	0.115	12.320	74.99	13.20	32.01	O2 Upscale Bias
12/6/2007 15:50	0.199	12.473	0.066	0.047	12.316	74.99	13.20	32.27	O2 Upscale Bias
12/6/2007 15:50	0.389	12.477	0.068	0.048	12.321	74.99	13.20	32.35	O2 Upscale Bias
12/6/2007 15:50	0.517	12.476	0.066	0.051	12.318	74.98	13.20	32.40	O2 Upscale Bias
12/6/2007 15:50	0.617	12.480	0.072	0.047	12.322	74.98	13.20	32.38	O2 Upscale Bias
12/6/2007 15:50	0.554	12.473	0.069	0.049	12.317	74.99	13.20	32.35	O2 Upscale Bias
12/6/2007 15:51	0.370	12.483	0.066	0.049	12.323	74.99	13.20	32.36	O2 Upscale Bias
12/6/2007 15:51	0.159	12.485	0.070	0.048	12.319	74.98	13.20	32.38	O2 Upscale Bias
12/6/2007 15:54	-0.574	11.910	0.100	0.077	11.964	74.94	13.20	32.50	O2 Upscale Bias
12/6/2007 15:54	-0.659	11.894	0.096	0.076	11.956	74.93	13.20	32.48	O2 Upscale Bias
12/6/2007 15:54	-0.918	11.880	0.096	0.078	11.947	74.93	13.20	32.54	O2 Upscale Bias
12/6/2007 15:54	-1.063	11.875	0.101	0.081	11.953	74.93	13.20	32.59	O2 Upscale Bias
12/6/2007 15:54	-0.810	12.150	0.100	0.086	12.140	74.92	13.20	32.62	O2 Upscale Bias
12/6/2007 15:54	0.214	12.314	0.096	0.112	12.226	74.92	13.20	32.65	O2 Upscale Bias
12/6/2007 15:55	2.374	12.376	0.099	0.110	12.262	74.92	13.20	32.68	O2 Upscale Bias
Average	**0.172**	**12.461**	**0.086**	**0.077**	**12.232**				
12/6/2007 15:59	1.022	0.003	52.594	50.545	0.007	74.87	13.20	33.10	NOx Upscale Bias
12/6/2007 16:00	0.722	0.002	52.514	50.560	0.007	74.87	13.20	33.07	NOx Upscale Bias
12/6/2007 16:00	0.480	0.000	52.700	50.477	0.003	74.87	13.20	33.02	NOx Upscale Bias
12/6/2007 16:00	0.525	-0.002	52.796	50.340	0.002	74.87	13.20	33.02	NOx Upscale Bias
12/6/2007 16:00	0.628	-0.004	52.668	50.350	0.000	74.86	13.20	33.01	NOx Upscale Bias
12/6/2007 16:00	0.825	-0.005	52.571	50.472	0.000	74.87	13.20	33.07	NOx Upscale Bias
12/6/2007 16:00	0.933	-0.007	52.610	50.512	-0.001	74.86	13.20	33.14	NOx Upscale Bias
Average	**0.734**	**-0.002**	**52.636**	**50.465**	**0.003**				

12/6/2007 16:07	26.698	-0.024	0.156	0.207	0.018	74.84	13.20	33.08	CO Upscale Bias
12/6/2007 16:07	26.812	-0.024	0.164	0.207	0.018	74.84	13.20	33.12	CO Upscale Bias
12/6/2007 16:08	26.817	-0.024	0.186	0.206	0.020	74.84	13.20	33.15	CO Upscale Bias
12/6/2007 16:08	26.414	-0.025	0.189	0.205	0.020	74.84	13.20	33.15	CO Upscale Bias
12/6/2007 16:08	26.156	-0.026	0.192	0.212	0.019	74.84	13.20	33.16	CO Upscale Bias
12/6/2007 16:08	26.292	-0.027	0.190	0.231	0.018	74.84	13.20	33.17	CO Upscale Bias
12/6/2007 16:08	26.492	-0.027	0.193	0.207	0.017	74.84	13.20	33.19	CO Upscale Bias
Average	**26.526**	**-0.025**	**0.182**	**0.211**	**0.018**				
12/6/2007 16:16	19.880	1.426	32.857	37.031	18.433	74.81	13.20	34.40	#1 Sample Location #4
12/6/2007 16:16	20.166	1.429	32.806	37.120	18.440	74.82	13.20	34.39	#1 Sample Location #4
12/6/2007 16:16	20.378	1.429	32.775	37.177	18.438	74.81	13.20	34.40	#1 Sample Location #4
12/6/2007 16:17	20.492	1.428	32.759	37.170	18.435	74.81	13.20	34.43	#1 Sample Location #4
12/6/2007 16:17	20.230	1.430	32.791	37.145	18.457	74.81	13.20	34.46	#1 Sample Location #4
12/6/2007 16:17	19.741	1.430	32.839	37.143	18.474	74.81	13.20	34.48	#1 Sample Location #4
12/6/2007 16:17	19.783	1.427	32.856	37.178	18.458	74.81	13.20	34.48	#1 Sample Location #4
12/6/2007 16:17	19.882	1.430	32.854	37.388	18.478	74.81	13.20	34.50	#1 Sample Location #4
12/6/2007 16:17	19.981	1.428	32.796	37.535	18.478	74.80	13.20	34.52	#1 Sample Location #4
12/6/2007 16:18	20.084	1.427	32.777	37.533	18.469	74.80	13.20	34.54	#1 Sample Location #4
12/6/2007 16:18	20.186	1.426	32.905	37.480	18.469	74.81	13.20	34.56	#1 Sample Location #4
12/6/2007 16:18	19.926	1.422	32.999	37.371	18.481	74.80	13.20	34.56	#1 Sample Location #4
12/6/2007 16:18	19.625	1.417	32.878	37.346	18.479	74.80	13.20	34.56	#1 Sample Location #4
12/6/2007 16:18	19.591	1.422	32.804	37.438	18.502	74.80	13.20	34.58	#1 Sample Location #4
12/6/2007 16:18	19.865	1.420	32.770	37.454	18.464	74.80	13.20	34.61	#1 Sample Location #4
12/6/2007 16:19	20.166	1.431	32.744	37.284	18.496	74.80	13.20	34.62	#1 Sample Location #4
12/6/2007 16:19	20.289	1.438	32.713	37.226	18.538	74.80	13.20	34.63	#1 Sample Location #4
12/6/2007 16:19	20.298	1.435	32.688	37.460	18.512	74.80	13.20	34.63	#1 Sample Location #4
12/6/2007 16:19	20.023	1.436	32.689	37.638	18.498	74.80	13.20	34.64	#1 Sample Location #4
Average	**20.031**	**1.428**	**32.805**	**37.322**	**18.474**				
12/6/2007 16:21	19.771	1.419	32.947	37.660	18.514	74.80	13.20	34.58	#1 Sample Location #5
12/6/2007 16:21	19.969	1.422	32.899	37.552	18.551	74.80	13.20	34.61	#1 Sample Location #5
12/6/2007 16:21	20.360	1.428	32.870	37.460	18.596	74.80	13.20	34.62	#1 Sample Location #5
12/6/2007 16:21	20.396	1.431	33.199	37.431	18.600	74.80	13.20	34.64	#1 Sample Location #5
12/6/2007 16:21	20.122	1.425	34.952	37.125	18.569	74.80	13.20	34.67	#1 Sample Location #5
12/6/2007 16:22	20.367	1.429	36.337	37.202	18.599	74.80	13.20	34.70	#1 Sample Location #5
12/6/2007 16:22	20.848	1.438	36.346	37.428	18.593	74.80	13.20	34.75	#1 Sample Location #5
12/6/2007 16:22	21.436	1.426	36.215	37.121	18.501	74.80	13.20	34.77	#1 Sample Location #5
12/6/2007 16:22	21.858	1.424	35.748	36.924	18.545	74.80	13.20	34.79	#1 Sample Location #5
12/6/2007 16:22	22.172	1.424	35.210	36.759	18.589	74.80	13.20	34.81	#1 Sample Location #5
12/6/2007 16:22	22.109	1.426	34.649	36.628	18.605	74.81	13.20	34.83	#1 Sample Location #5
12/6/2007 16:23	21.650	1.433	34.165	36.648	18.618	74.81	13.20	34.87	#1 Sample Location #5
12/6/2007 16:23	21.328	1.437	33.922	36.661	18.633	74.80	13.20	34.94	#1 Sample Location #5
12/6/2007 16:23	21.205	1.437	33.714	36.844	18.646	74.81	13.20	34.99	#1 Sample Location #5
12/6/2007 16:23	21.105	1.436	33.654	36.945	18.658	74.81	13.20	35.05	#1 Sample Location #5
12/6/2007 16:23	21.098	1.436	33.578	36.857	18.641	74.81	13.20	35.11	#1 Sample Location #5
12/6/2007 16:23	21.096	1.434	33.391	36.822	18.640	74.81	13.20	35.11	#1 Sample Location #5
12/6/2007 16:24	20.735	1.434	33.219	36.966	18.653	74.81	13.20	35.12	#1 Sample Location #5
12/6/2007 16:24	20.335	1.434	33.089	37.072	18.639	74.81	13.20	35.10	#1 Sample Location #5
Average	**20.945**	**1.430**	**34.216**	**37.058**	**18.599**				
12/6/2007 16:25	20.646	1.432	34.328	36.980	18.666	74.82	13.21	35.11	#1 Sample Location #6
12/6/2007 16:26	21.236	1.435	35.370	36.834	18.680	74.81	13.21	35.18	#1 Sample Location #6
12/6/2007 16:26	21.657	1.444	36.216	36.774	18.680	74.82	13.20	35.24	#1 Sample Location #6
12/6/2007 16:26	21.427	1.446	36.890	36.850	18.679	74.82	13.20	35.29	#1 Sample Location #6
12/6/2007 16:26	21.033	1.444	36.800	37.097	18.677	74.82	13.21	35.36	#1 Sample Location #6
12/6/2007 16:26	21.087	1.441	36.651	37.251	18.698	74.82	13.20	35.39	#1 Sample Location #6
12/6/2007 16:26	21.000	1.438	36.391	37.340	18.702	74.82	13.21	35.42	#1 Sample Location #6
12/6/2007 16:27	20.993	1.434	35.999	37.105	18.671	74.82	13.21	35.42	#1 Sample Location #6
12/6/2007 16:27	20.908	1.434	35.257	37.025	18.692	74.82	13.20	35.45	#1 Sample Location #6
12/6/2007 16:27	20.621	1.438	34.531	37.108	18.696	74.82	13.21	35.48	#1 Sample Location #6
12/6/2007 16:27	20.143	1.433	33.986	37.139	18.669	74.83	13.21	35.54	#1 Sample Location #6
12/6/2007 16:27	19.908	1.431	33.502	37.069	18.678	74.83	13.20	35.59	#1 Sample Location #6
12/6/2007 16:27	19.891	1.436	33.235	36.983	18.701	74.83	13.20	35.60	#1 Sample Location #6
12/6/2007 16:28	20.069	1.435	33.005	37.003	18.694	74.82	13.20	35.62	#1 Sample Location #6
12/6/2007 16:28	20.272	1.436	32.833	37.022	18.700	74.83	13.21	35.69	#1 Sample Location #6
12/6/2007 16:28	20.387	1.434	32.725	37.070	18.673	74.83	13.21	35.74	#1 Sample Location #6
12/6/2007 16:28	20.216	1.430	32.722	37.081	18.646	74.82	13.20	35.73	#1 Sample Location #6
12/6/2007 16:28	19.829	1.433	32.710	37.026	18.677	74.83	13.20	35.71	#1 Sample Location #6
12/6/2007 16:28	19.885	1.436	32.634	37.001	18.694	74.82	13.20	35.70	#1 Sample Location #6
Average	**20.590**	**1.436**	**34.515**	**37.040**	**18.683**				
12/6/2007 16:30	19.989	1.429	32.197	37.245	18.715	74.81	13.21	35.66	#5 Run
12/6/2007 16:30	19.720	1.430	32.107	37.286	18.700	74.81	13.21	35.69	#5 Run
12/6/2007 16:31	19.420	1.431	32.057	37.362	18.691	74.81	13.21	35.70	#5 Run
12/6/2007 16:31	19.568	1.435	32.155	37.376	18.715	74.81	13.21	35.72	#5 Run
12/6/2007 16:31	19.863	1.438	32.236	37.315	18.689	74.81	13.21	35.74	#5 Run
12/6/2007 16:31	20.068	1.437	32.292	37.323	18.686	74.81	13.21	35.76	#5 Run

12/6/2007 16:31	20.186	1.436	32.327	37.513	18.674	74.81	13.21	35.75	#5 Run
12/6/2007 16:31	20.189	1.418	32.295	37.667	18.592	74.81	13.21	35.75	#5 Run
12/6/2007 16:32	19.648	1.423	32.224	37.707	18.641	74.81	13.21	35.74	#5 Run
12/6/2007 16:32	19.411	1.426	32.094	37.752	18.680	74.81	13.21	35.78	#5 Run
12/6/2007 16:32	19.571	1.431	31.993	37.628	18.695	74.81	13.21	35.75	#5 Run
12/6/2007 16:32	19.771	1.431	32.042	37.479	18.714	74.81	13.21	35.73	#5 Run
12/6/2007 16:32	19.876	1.436	32.064	37.399	18.727	74.81	13.21	35.75	#5 Run
12/6/2007 16:32	19.981	1.437	32.064	37.395	18.737	74.81	13.21	35.75	#5 Run
12/6/2007 16:33	19.900	1.435	32.047	37.519	18.735	74.81	13.21	35.78	#5 Run
12/6/2007 16:33	19.527	1.430	31.960	37.650	18.702	74.80	13.21	35.79	#5 Run
12/6/2007 16:33	19.308	1.432	31.935	37.616	18.707	74.80	13.21	35.82	#5 Run
12/6/2007 16:33	19.468	1.419	32.037	37.545	18.635	74.80	13.21	35.84	#5 Run
12/6/2007 16:33	19.757	1.422	32.079	37.421	18.680	74.81	13.21	35.87	#5 Run
12/6/2007 16:33	19.877	1.428	32.018	37.387	18.716	74.80	13.21	35.88	#5 Run
12/6/2007 16:34	20.074	1.435	31.961	37.474	18.733	74.80	13.21	35.88	#5 Run
12/6/2007 16:34	20.051	1.434	31.893	37.499	18.711	74.80	13.21	35.90	#5 Run
12/6/2007 16:34	19.684	1.432	31.834	37.427	18.670	74.80	13.21	35.89	#5 Run
12/6/2007 16:34	19.408	1.435	31.937	37.372	18.665	74.80	13.21	35.90	#5 Run
12/6/2007 16:34	19.475	1.433	32.036	37.431	18.655	74.80	13.21	35.90	#5 Run
12/6/2007 16:34	19.667	1.425	32.027	37.499	18.637	74.80	13.21	35.91	#5 Run
12/6/2007 16:35	19.960	1.427	32.040	37.543	18.700	74.79	13.21	35.94	#5 Run
12/6/2007 16:35	20.083	1.429	32.152	37.505	18.726	74.79	13.21	35.98	#5 Run
12/6/2007 16:35	19.872	1.427	32.178	37.400	18.719	74.79	13.21	36.00	#5 Run
12/6/2007 16:35	19.480	1.427	31.996	37.355	18.708	74.79	13.21	36.02	#5 Run
12/6/2007 16:35	19.389	1.431	31.873	37.454	18.718	74.79	13.21	36.03	#5 Run
12/6/2007 16:35	19.567	1.428	31.969	37.443	18.703	74.78	13.21	36.05	#5 Run
12/6/2007 16:36	19.766	1.427	32.032	37.254	18.704	74.78	13.21	36.07	#5 Run
12/6/2007 16:36	19.880	1.427	32.032	37.197	18.714	74.78	13.21	36.10	#5 Run
12/6/2007 16:36	19.986	1.426	32.015	37.342	18.708	74.78	13.21	36.11	#5 Run
12/6/2007 16:36	19.813	1.424	31.929	37.444	18.695	74.78	13.21	36.13	#5 Run
12/6/2007 16:36	19.513	1.424	31.903	37.402	18.685	74.77	13.21	36.13	#5 Run
12/6/2007 16:36	19.393	1.424	31.988	37.337	18.702	74.77	13.21	36.15	#5 Run
12/6/2007 16:37	19.568	1.426	32.018	37.363	18.723	74.77	13.21	36.16	#5 Run
12/6/2007 16:37	19.860	1.415	31.947	37.426	18.604	74.77	13.21	36.19	#5 Run
12/6/2007 16:37	19.890	1.414	31.913	37.448	18.616	74.77	13.21	36.22	#5 Run
12/6/2007 16:37	19.981	1.418	31.993	37.405	18.641	74.76	13.21	36.24	#5 Run
12/6/2007 16:37	19.692	1.420	32.062	37.275	18.661	74.75	13.21	36.27	#5 Run
12/6/2007 16:37	19.409	1.425	32.019	37.213	18.679	74.75	13.21	36.30	#5 Run
12/6/2007 16:38	19.589	1.428	31.957	37.395	18.697	74.75	13.21	36.31	#5 Run
12/6/2007 16:38	19.768	1.429	31.882	37.520	18.717	74.75	13.21	36.35	#5 Run
12/6/2007 16:38	20.062	1.431	31.824	37.452	18.726	74.73	13.21	36.35	#5 Run
12/6/2007 16:38	20.270	1.429	31.864	37.391	18.736	74.74	13.21	36.32	#5 Run
12/6/2007 16:38	20.205	1.422	31.857	37.441	18.751	74.73	13.21	36.39	#5 Run
12/6/2007 16:38	19.733	1.421	31.723	37.489	18.753	74.73	13.21	36.41	#5 Run
12/6/2007 16:39	19.601	1.422	31.613	37.395	18.760	74.73	13.21	36.43	#5 Run
12/6/2007 16:39	19.690	1.430	31.678	37.303	18.750	74.72	13.21	36.44	#5 Run
12/6/2007 16:39	19.783	1.433	31.722	37.345	18.753	74.71	13.21	36.49	#5 Run
12/6/2007 16:39	19.790	1.428	31.724	37.394	18.766	74.71	13.21	36.57	#5 Run
12/6/2007 16:39	20.064	1.422	31.726	37.418	18.746	74.70	13.21	36.62	#5 Run
12/6/2007 16:39	20.001	1.413	31.728	37.417	18.713	74.71	13.21	36.62	#5 Run
12/6/2007 16:40	19.597	1.421	31.720	37.412	18.754	74.70	13.21	36.65	#5 Run
12/6/2007 16:40	19.317	1.418	31.680	37.354	18.743	74.69	13.21	36.68	#5 Run
12/6/2007 16:40	19.597	1.418	31.639	37.207	18.748	74.69	13.21	36.68	#5 Run
12/6/2007 16:40	19.778	1.418	31.670	37.098	18.744	74.69	13.21	36.70	#5 Run
12/6/2007 16:40	19.971	1.419	31.667	37.214	18.760	74.68	13.21	36.72	#5 Run
12/6/2007 16:40	20.083	1.417	31.568	37.286	18.719	74.69	13.21	36.74	#5 Run
12/6/2007 16:41	19.816	1.420	31.507	37.250	18.762	74.68	13.21	36.77	#5 Run
12/6/2007 16:41	19.437	1.420	31.628	37.179	18.753	74.67	13.21	36.82	#5 Run
12/6/2007 16:41	19.514	1.418	31.714	37.043	18.749	74.67	13.21	36.87	#5 Run
12/6/2007 16:41	19.812	1.422	31.687	36.997	18.756	74.67	13.21	36.93	#5 Run
12/6/2007 16:41	20.084	1.424	31.637	37.127	18.749	74.67	13.21	36.97	#5 Run
12/6/2007 16:41	20.184	1.424	31.546	37.208	18.751	74.66	13.21	37.01	#5 Run
12/6/2007 16:42	20.190	1.426	31.531	37.202	18.749	74.66	13.21	37.05	#5 Run
12/6/2007 16:42	19.892	1.426	31.665	37.139	18.731	74.66	13.21	37.09	#5 Run
12/6/2007 16:42	19.608	1.424	31.774	37.020	18.714	74.65	13.21	37.14	#5 Run
12/6/2007 16:42	19.800	1.421	31.712	36.988	18.697	74.65	13.21	37.18	#5 Run
12/6/2007 16:42	19.894	1.430	31.658	37.074	18.733	74.65	13.21	37.23	#5 Run
12/6/2007 16:42	19.891	1.431	31.628	37.148	18.760	74.65	13.21	37.33	#5 Run
12/6/2007 16:43	20.070	1.429	31.626	37.227	18.756	74.65	13.21	37.36	#5 Run
12/6/2007 16:43	20.094	1.431	31.692	37.254	18.750	74.64	13.21	37.37	#5 Run
12/6/2007 16:43	19.820	1.431	31.768	37.206	18.746	74.64	13.21	37.38	#5 Run
12/6/2007 16:43	19.531	1.429	31.820	37.154	18.750	74.64	13.21	37.42	#5 Run
12/6/2007 16:43	19.631	1.429	31.837	37.049	18.757	74.64	13.21	37.46	#5 Run
12/6/2007 16:43	20.019	1.427	31.728	37.015	18.747	74.64	13.21	37.45	#5 Run

12/6/2007 16:44	20.292	1.420	31.639	37.107	18.683	74.63	13.21	37.48	#5 Run
12/6/2007 16:44	20.382	1.408	31.553	37.156	18.625	74.63	13.21	37.53	#5 Run
12/6/2007 16:44	20.213	1.412	31.505	37.176	18.662	74.63	13.21	37.54	#5 Run
12/6/2007 16:44	19.718	1.415	31.558	37.175	18.687	74.63	13.21	37.57	#5 Run
12/6/2007 16:44	19.505	1.422	31.620	37.184	18.708	74.63	13.21	37.64	#5 Run
12/6/2007 16:44	19.708	1.427	31.712	37.206	18.728	74.63	13.21	37.69	#5 Run
12/6/2007 16:45	19.908	1.426	31.790	37.205	18.738	74.62	13.21	37.76	#5 Run
12/6/2007 16:45	20.091	1.424	31.826	37.221	18.757	74.62	13.21	37.83	#5 Run
12/6/2007 16:45	20.179	1.425	31.826	37.291	18.764	74.62	13.21	37.86	#5 Run
12/6/2007 16:45	19.917	1.424	31.726	37.342	18.768	74.62	13.21	37.92	#5 Run
12/6/2007 16:45	19.537	1.426	31.631	37.309	18.772	74.61	13.21	37.93	#5 Run
12/6/2007 16:45	19.610	1.419	31.601	37.259	18.723	74.62	13.21	37.96	#5 Run
12/6/2007 16:46	19.808	1.422	31.589	37.218	18.751	74.62	13.21	38.00	#5 Run
12/6/2007 16:46	19.998	1.424	31.644	37.146	18.765	74.62	13.21	38.02	#5 Run
12/6/2007 16:46	20.095	1.425	31.657	37.155	18.777	74.61	13.21	38.01	#5 Run
12/6/2007 16:46	20.185	1.423	31.624	37.194	18.762	74.62	13.21	38.02	#5 Run
12/6/2007 16:46	19.922	1.425	31.598	37.245	18.756	74.61	13.21	38.02	#5 Run
12/6/2007 16:46	19.546	1.421	31.568	37.265	18.734	74.61	13.21	38.04	#5 Run
12/6/2007 16:47	19.708	1.415	31.531	37.256	18.694	74.61	13.21	38.08	#5 Run
12/6/2007 16:47	19.911	1.416	31.590	37.216	18.725	74.61	13.21	38.09	#5 Run
12/6/2007 16:47	20.109	1.421	31.616	37.133	18.767	74.61	13.21	38.10	#5 Run
12/6/2007 16:47	20.299	1.426	31.564	37.124	18.785	74.62	13.21	38.11	#5 Run
12/6/2007 16:47	20.390	1.423	31.520	37.238	18.757	74.61	13.21	38.11	#5 Run
12/6/2007 16:47	20.030	1.422	31.443	37.312	18.747	74.61	13.21	38.15	#5 Run
12/6/2007 16:48	19.729	1.422	31.415	37.283	18.753	74.61	13.21	38.16	#5 Run
12/6/2007 16:48	19.805	1.426	31.504	37.206	18.775	74.61	13.21	38.17	#5 Run
12/6/2007 16:48	20.019	1.424	31.571	37.062	18.756	74.60	13.21	38.20	#5 Run
12/6/2007 16:48	20.312	1.422	31.534	36.984	18.748	74.60	13.21	38.23	#5 Run
12/6/2007 16:48	20.488	1.423	31.498	37.092	18.746	74.60	13.21	38.26	#5 Run
12/6/2007 16:48	20.491	1.412	31.439	37.179	18.665	74.60	13.21	38.29	#5 Run
12/6/2007 16:49	20.128	1.419	31.429	37.198	18.717	74.60	13.21	38.34	#5 Run
12/6/2007 16:49	19.816	1.425	31.583	37.154	18.767	74.60	13.21	38.36	#5 Run
12/6/2007 16:49	19.816	1.424	31.722	37.078	18.744	74.60	13.21	38.36	#5 Run
12/6/2007 16:49	20.100	1.420	31.732	37.022	18.717	74.60	13.21	38.37	#5 Run
12/6/2007 16:49	20.209	1.427	31.728	36.992	18.766	74.60	13.21	38.39	#5 Run
12/6/2007 16:49	20.393	1.425	31.637	36.988	18.751	74.60	13.21	38.43	#5 Run
12/6/2007 16:50	20.389	1.422	31.568	37.045	18.743	74.60	13.21	38.49	#5 Run
12/6/2007 16:50	20.028	1.422	31.550	37.099	18.743	74.60	13.21	38.51	#5 Run
12/6/2007 16:50	19.750	1.427	31.545	37.117	18.765	74.60	13.21	38.54	#5 Run
12/6/2007 16:50	19.999	1.424	31.546	37.110	18.742	74.60	13.21	38.54	#5 Run
12/6/2007 16:50	20.111	1.413	31.551	37.081	18.652	74.60	13.21	38.53	#5 Run
12/6/2007 16:50	20.291	1.414	31.584	37.009	18.681	74.60	13.21	38.55	#5 Run
12/6/2007 16:51	20.271	1.418	31.596	36.962	18.707	74.60	13.21	38.55	#5 Run
12/6/2007 16:51	20.073	1.419	31.568	36.954	18.728	74.61	13.21	38.57	#5 Run
12/6/2007 16:51	19.808	1.419	31.549	36.979	18.751	74.61	13.21	38.59	#5 Run
12/6/2007 16:51	19.719	1.423	31.549	37.006	18.776	74.61	13.21	38.61	#5 Run
12/6/2007 16:51	19.908	1.419	31.528	37.040	18.743	74.60	13.21	38.62	#5 Run
12/6/2007 16:51	20.100	1.422	31.439	37.097	18.770	74.61	13.21	38.64	#5 Run
12/6/2007 16:52	20.192	1.421	31.407	37.107	18.757	74.61	13.21	38.65	#5 Run
12/6/2007 16:52	20.174	1.421	31.426	37.095	18.762	74.60	13.21	38.65	#5 Run
12/6/2007 16:52	20.034	1.422	31.444	37.116	18.774	74.60	13.21	38.66	#5 Run
12/6/2007 16:52	19.700	1.424	31.501	37.080	18.789	74.61	13.21	38.67	#5 Run
12/6/2007 16:52	19.799	1.418	31.544	36.983	18.757	74.61	13.21	38.70	#5 Run
12/6/2007 16:52	19.995	1.416	31.512	36.959	18.727	74.60	13.21	38.75	#5 Run
12/6/2007 16:53	20.096	1.417	31.479	37.052	18.738	74.60	13.21	38.78	#5 Run
12/6/2007 16:53	20.197	1.409	31.440	37.149	18.688	74.61	13.21	38.77	#5 Run
12/6/2007 16:53	20.251	1.415	31.412	37.149	18.734	74.60	13.21	38.77	#5 Run
12/6/2007 16:53	19.855	1.414	31.482	37.106	18.778	74.60	13.21	38.78	#5 Run
12/6/2007 16:53	19.701	1.412	31.527	36.962	18.777	74.60	13.21	38.78	#5 Run
12/6/2007 16:53	19.814	1.412	31.437	36.875	18.782	74.60	13.21	38.82	#5 Run
12/6/2007 16:54	20.100	1.415	31.357	36.874	18.779	74.60	13.21	38.86	#5 Run
12/6/2007 16:54	20.200	1.419	31.317	36.871	18.749	74.60	13.21	38.86	#5 Run
12/6/2007 16:54	20.283	1.418	31.288	36.970	18.739	74.60	13.21	38.93	#5 Run
12/6/2007 16:54	20.162	1.424	31.314	37.041	18.770	74.60	13.21	38.98	#5 Run
12/6/2007 16:54	19.871	1.424	31.355	37.058	18.767	74.60	13.21	38.99	#5 Run
12/6/2007 16:54	19.808	1.422	31.416	37.036	18.750	74.60	13.21	39.06	#5 Run
12/6/2007 16:55	20.018	1.425	31.479	36.960	18.744	74.59	13.21	39.09	#5 Run
12/6/2007 16:55	20.302	1.423	31.450	36.932	18.761	74.60	13.21	39.10	#5 Run
12/6/2007 16:55	20.392	1.422	31.407	37.024	18.757	74.60	13.21	39.10	#5 Run
12/6/2007 16:55	20.371	1.421	31.349	37.095	18.747	74.60	13.21	39.10	#5 Run
12/6/2007 16:55	20.149	1.425	31.326	37.074	18.757	74.60	13.21	39.10	#5 Run
12/6/2007 16:55	19.806	1.422	31.385	37.006	18.711	74.60	13.21	39.13	#5 Run
12/6/2007 16:56	19.916	1.411	31.441	36.910	18.659	74.59	13.21	39.12	#5 Run
12/6/2007 16:56	20.209	1.417	31.494	36.820	18.694	74.59	13.21	39.12	#5 Run

12/6/2007 16:56	20.401	1.419	31.508	36.791	18.713	74.60	13.21	39.11	#5 Run
12/6/2007 16:56	20.480	1.421	31.437	36.803	18.738	74.59	13.21	39.11	#5 Run
12/6/2007 16:56	20.352	1.423	31.379	36.832	18.760	74.59	13.21	39.13	#5 Run
12/6/2007 16:56	19.949	1.423	31.321	36.867	18.768	74.59	13.21	39.15	#5 Run
12/6/2007 16:57	19.629	1.426	31.300	36.910	18.763	74.60	13.21	39.15	#5 Run
12/6/2007 16:57	19.813	1.423	31.382	36.895	18.766	74.59	13.21	39.13	#5 Run
12/6/2007 16:57	20.006	1.421	31.455	36.846	18.763	74.59	13.21	39.12	#5 Run
12/6/2007 16:57	20.210	1.422	31.456	36.821	18.776	74.60	13.21	39.12	#5 Run
12/6/2007 16:57	20.401	1.420	31.457	36.819	18.749	74.59	13.21	39.13	#5 Run
12/6/2007 16:57	20.460	1.414	31.456	36.818	18.731	74.59	13.21	39.12	#5 Run
12/6/2007 16:58	20.141	1.421	31.446	36.895	18.785	74.59	13.21	39.13	#5 Run
12/6/2007 16:58	19.672	1.423	31.406	36.950	18.777	74.59	13.21	39.18	#5 Run
12/6/2007 16:58	19.621	1.418	31.372	36.980	18.733	74.59	13.21	39.19	#5 Run
12/6/2007 16:58	19.804	1.425	31.404	37.006	18.779	74.58	13.21	39.20	#5 Run
12/6/2007 16:58	20.015	1.423	31.472	37.034	18.727	74.59	13.21	39.19	#5 Run
12/6/2007 16:58	20.302	1.420	31.542	37.038	18.729	74.59	13.21	39.19	#5 Run
12/6/2007 16:59	20.362	1.426	31.603	36.947	18.769	74.59	13.21	39.23	#5 Run
12/6/2007 16:59	20.053	1.417	31.603	36.937	18.751	74.58	13.21	39.30	#5 Run
12/6/2007 16:59	19.707	1.416	31.557	37.043	18.778	74.58	13.21	39.33	#5 Run
12/6/2007 16:59	19.844	1.413	31.390	37.129	18.754	74.58	13.21	39.35	#5 Run
12/6/2007 16:59	20.108	1.415	31.241	37.036	18.768	74.58	13.21	39.34	#5 Run
12/6/2007 16:59	20.301	1.416	31.205	36.933	18.780	74.58	13.21	39.36	#5 Run
12/6/2007 17:00	20.385	1.414	31.216	36.899	18.762	74.58	13.21	39.35	#5 Run
12/6/2007 17:00	20.262	1.419	31.314	36.864	18.754	74.57	13.21	39.35	#5 Run
12/6/2007 17:00	19.961	1.414	31.408	36.813	18.712	74.58	13.21	39.39	#5 Run
12/6/2007 17:00	19.710	1.421	31.425	36.842	18.750	74.58	13.21	39.39	#5 Run
12/6/2007 17:00	19.827	1.424	31.424	37.019	18.757	74.57	13.21	39.38	#5 Run
12/6/2007 17:00	20.011	1.423	31.425	37.148	18.777	74.56	13.21	39.37	#5 Run
12/6/2007 17:01	20.203	1.418	31.405	37.145	18.773	74.56	13.21	39.36	#5 Run
12/6/2007 17:01	20.280	1.406	31.347	37.069	18.669	74.55	13.21	39.36	#5 Run
12/6/2007 17:01	20.152	1.408	31.301	36.802	18.702	74.55	13.21	39.34	#5 Run
12/6/2007 17:01	19.774	1.409	31.306	36.644	18.726	74.55	13.21	39.31	#5 Run
12/6/2007 17:01	19.751	1.412	31.299	36.739	18.752	74.54	13.21	39.27	#5 Run
12/6/2007 17:01	20.011	1.418	31.270	36.834	18.769	74.54	13.21	39.25	#5 Run
12/6/2007 17:02	20.121	1.423	31.259	36.892	18.774	74.54	13.21	39.22	#5 Run
12/6/2007 17:02	20.400	1.422	31.323	36.938	18.775	74.53	13.21	39.24	#5 Run
12/6/2007 17:02	20.471	1.411	31.358	36.939	18.736	74.52	13.21	39.25	#5 Run
12/6/2007 17:02	20.239	1.413	31.338	36.920	18.766	74.52	13.21	39.25	#5 Run
12/6/2007 17:02	19.807	1.415	31.340	36.862	18.773	74.52	13.21	39.26	#5 Run
12/6/2007 17:02	19.986	1.417	31.328	36.829	18.781	74.51	13.21	39.27	#5 Run
12/6/2007 17:03	20.032	1.414	31.299	36.867	18.777	74.50	13.21	39.30	#5 Run
12/6/2007 17:03	20.227	1.415	31.267	36.909	18.772	74.51	13.21	39.33	#5 Run
12/6/2007 17:03	20.414	1.414	31.245	36.913	18.763	74.51	13.21	39.32	#5 Run
12/6/2007 17:03	20.572	1.412	31.243	36.919	18.737	74.50	13.21	39.33	#5 Run
12/6/2007 17:03	20.341	1.412	31.237	36.858	18.746	74.50	13.21	39.37	#5 Run
12/6/2007 17:03	19.907	1.414	31.288	36.801	18.769	74.49	13.21	39.38	#5 Run
12/6/2007 17:04	20.030	1.415	31.299	36.755	18.787	74.49	13.21	39.39	#5 Run
12/6/2007 17:04	20.231	1.414	31.271	36.725	18.767	74.48	13.21	39.43	#5 Run
12/6/2007 17:04	20.432	1.408	31.245	36.659	18.711	74.48	13.21	39.46	#5 Run
12/6/2007 17:04	20.588	1.412	31.249	36.602	18.723	74.48	13.21	39.46	#5 Run
12/6/2007 17:04	20.540	1.399	31.254	36.666	18.671	74.48	13.21	39.46	#5 Run
12/6/2007 17:04	20.048	1.404	31.283	36.716	18.718	74.47	13.21	39.49	#5 Run
12/6/2007 17:05	19.711	1.411	31.287	36.746	18.757	74.47	13.21	39.53	#5 Run
12/6/2007 17:05	19.849	1.407	31.227	36.773	18.738	74.46	13.21	39.54	#5 Run
12/6/2007 17:05	20.152	1.411	31.193	36.794	18.761	74.46	13.21	39.56	#5 Run
12/6/2007 17:05	20.434	1.411	31.219	36.799	18.751	74.46	13.21	39.53	#5 Run
12/6/2007 17:05	20.575	1.401	31.238	36.824	18.691	74.45	13.21	39.53	#5 Run
12/6/2007 17:05	20.343	1.407	31.217	36.832	18.729	74.45	13.21	39.53	#5 Run
12/6/2007 17:06	19.880	1.412	31.229	36.850	18.752	74.45	13.21	39.54	#5 Run
12/6/2007 17:06	19.814	1.412	31.254	36.828	18.754	74.44	13.21	39.58	#5 Run
12/6/2007 17:06	19.932	1.408	31.271	36.739	18.726	74.45	13.21	39.58	#5 Run
12/6/2007 17:06	20.109	1.410	31.240	36.695	18.758	74.44	13.21	39.61	#5 Run
12/6/2007 17:06	20.234	1.410	31.219	36.776	18.760	74.44	13.21	39.63	#5 Run
12/6/2007 17:06	20.376	1.409	31.219	36.836	18.735	74.43	13.21	39.66	#5 Run
12/6/2007 17:07	20.151	1.416	31.210	36.898	18.728	74.43	13.21	39.66	#5 Run
12/6/2007 17:07	19.760	1.420	31.186	36.925	18.755	74.42	13.21	39.66	#5 Run
12/6/2007 17:07	19.549	1.416	31.188	36.856	18.741	74.42	13.21	39.67	#5 Run
12/6/2007 17:07	19.847	1.412	31.193	36.769	18.734	74.41	13.21	39.66	#5 Run
12/6/2007 17:07	20.110	1.410	31.223	36.691	18.743	74.41	13.21	39.66	#5 Run
12/6/2007 17:07	20.214	1.415	31.251	36.650	18.728	74.40	13.21	39.66	#5 Run
12/6/2007 17:08	20.290	1.415	31.270	36.820	18.705	74.39	13.21	39.66	#5 Run
12/6/2007 17:08	20.243	1.423	31.239	36.983	18.751	74.38	13.21	39.70	#5 Run
12/6/2007 17:08	19.761	1.422	31.270	37.090	18.758	74.38	13.21	39.72	#5 Run
12/6/2007 17:08	19.508	1.406	31.440	37.107	18.665	74.37	13.21	39.72	#5 Run

12/6/2007 17:08	19.649	1.400	31.529	36.987	18.707	74.37	13.21	39.74	#5 Run
12/6/2007 17:08	19.930	1.405	31.434	36.908	18.754	74.36	13.21	39.75	#5 Run
12/6/2007 17:09	20.150	1.406	31.343	36.766	18.751	74.35	13.21	39.77	#5 Run
12/6/2007 17:09	20.340	1.400	31.248	36.688	18.706	74.35	13.21	39.79	#5 Run
12/6/2007 17:09	20.042	1.402	31.166	36.707	18.727	74.35	13.21	39.81	#5 Run
12/6/2007 17:09	19.611	1.408	31.107	36.699	18.773	74.34	13.21	39.82	#5 Run
12/6/2007 17:09	19.810	1.408	31.105	36.660	18.758	74.34	13.21	39.82	#5 Run
12/6/2007 17:09	19.931	1.413	31.206	36.613	18.754	74.33	13.21	39.83	#5 Run
12/6/2007 17:10	20.155	1.398	31.270	36.594	18.640	74.33	13.21	39.85	#5 Run
12/6/2007 17:10	20.399	1.401	31.245	36.628	18.673	74.33	13.21	39.84	#5 Run
12/6/2007 17:10	20.337	1.401	31.216	36.818	18.704	74.33	13.21	39.86	#5 Run
12/6/2007 17:10	20.070	1.403	31.188	36.880	18.727	74.32	13.21	39.90	#5 Run
12/6/2007 17:10	19.899	1.405	31.175	36.675	18.747	74.32	13.21	39.89	#5 Run
12/6/2007 17:10	20.023	1.407	31.155	36.537	18.755	74.31	13.21	39.90	#5 Run
12/6/2007 17:11	20.236	1.406	31.155	36.578	18.768	74.31	13.21	39.90	#5 Run
12/6/2007 17:11	20.417	1.406	31.124	36.623	18.780	74.30	13.21	39.87	#5 Run
12/6/2007 17:11	20.452	1.407	31.106	36.616	18.792	74.30	13.21	39.89	#5 Run
12/6/2007 17:11	20.215	1.409	31.136	36.581	18.803	74.30	13.21	39.89	#5 Run
12/6/2007 17:11	19.868	1.407	31.148	36.542	18.757	74.29	13.21	39.90	#5 Run
12/6/2007 17:11	19.753	1.405	31.129	36.519	18.779	74.29	13.21	39.87	#5 Run
12/6/2007 17:12	19.989	1.401	31.127	36.579	18.716	74.29	13.21	39.90	#5 Run
12/6/2007 17:12	20.052	1.389	31.120	36.634	18.647	74.27	13.21	39.90	#5 Run
12/6/2007 17:12	20.311	1.393	31.099	36.684	18.676	74.27	13.21	39.86	#5 Run
12/6/2007 17:12	20.354	1.395	31.096	36.723	18.690	74.27	13.21	39.86	#5 Run
12/6/2007 17:12	20.135	1.397	31.086	36.651	18.710	74.26	13.21	39.83	#5 Run
12/6/2007 17:12	19.881	1.402	31.136	36.594	18.728	74.26	13.21	39.72	#5 Run
12/6/2007 17:13	19.849	1.402	31.135	36.636	18.739	74.25	13.21	39.55	#5 Run
12/6/2007 17:13	20.135	1.404	31.052	36.695	18.756	74.25	13.21	39.46	#5 Run
12/6/2007 17:13	20.329	1.405	31.019	36.741	18.767	74.25	13.21	39.31	#5 Run
12/6/2007 17:13	20.453	1.404	31.078	36.739	18.774	74.24	13.21	39.10	#5 Run
12/6/2007 17:13	20.217	1.403	31.105	36.631	18.782	74.23	13.21	38.98	#5 Run
12/6/2007 17:13	19.853	1.406	31.060	36.585	18.786	74.23	13.21	38.87	#5 Run
12/6/2007 17:14	19.751	1.406	31.022	36.666	18.791	74.22	13.21	38.89	#5 Run
12/6/2007 17:14	20.025	1.403	30.972	36.742	18.795	74.22	13.21	38.99	#5 Run
12/6/2007 17:14	20.319	1.404	30.967	36.768	18.802	74.21	13.21	39.03	#5 Run
12/6/2007 17:14	20.417	1.405	31.030	36.741	18.804	74.21	13.21	38.94	#5 Run
12/6/2007 17:14	20.455	1.406	31.082	36.584	18.805	74.20	13.21	38.92	#5 Run
12/6/2007 17:14	20.233	1.404	31.017	36.484	18.813	74.20	13.21	38.96	#5 Run
12/6/2007 17:15	19.993	1.399	30.959	36.579	18.824	74.20	13.21	38.96	#5 Run
12/6/2007 17:15	20.072	1.394	30.909	36.569	18.785	74.20	13.21	38.90	#5 Run
12/6/2007 17:15	20.316	1.386	30.889	36.327	18.735	74.18	13.21	38.85	#5 Run
12/6/2007 17:15	20.431	1.390	30.889	36.183	18.769	74.18	13.21	38.59	#5 Run
12/6/2007 17:15	20.591	1.401	30.867	36.333	18.788	74.17	13.21	38.45	#5 Run
12/6/2007 17:15	20.531	1.409	30.782	36.481	18.805	74.17	13.21	38.63	#5 Run
12/6/2007 17:16	20.192	1.405	30.789	36.525	18.777	74.17	13.21	39.07	#5 Run
12/6/2007 17:16	19.810	1.398	31.054	36.498	18.737	74.16	13.21	39.32	#5 Run
12/6/2007 17:16	19.973	1.404	31.213	36.446	18.759	74.16	13.21	39.51	#5 Run
12/6/2007 17:16	20.295	1.405	31.130	36.485	18.781	74.15	13.21	39.81	#5 Run
12/6/2007 17:16	20.714	1.404	31.059	36.533	18.792	74.14	13.20	39.99	#5 Run
12/6/2007 17:16	20.731	1.403	31.023	36.539	18.806	74.14	13.21	40.17	#5 Run
12/6/2007 17:17	20.411	1.402	30.969	36.485	18.818	74.14	13.21	40.30	#5 Run
12/6/2007 17:17	20.093	1.401	30.902	36.436	18.801	74.13	13.20	40.45	#5 Run
12/6/2007 17:17	20.121	1.410	30.885	36.420	18.803	74.12	13.20	40.70	#5 Run
12/6/2007 17:17	20.222	1.405	30.975	36.394	18.778	74.12	13.20	40.81	#5 Run
12/6/2007 17:17	20.313	1.398	31.056	36.463	18.779	74.12	13.21	40.95	#5 Run
12/6/2007 17:17	20.452	1.402	31.103	36.489	18.789	74.10	13.21	40.98	#5 Run
12/6/2007 17:18	20.692	1.402	31.113	36.387	18.800	74.10	13.21	40.98	#5 Run
12/6/2007 17:18	20.593	1.398	31.056	36.317	18.769	74.09	13.21	40.98	#5 Run
12/6/2007 17:18	20.137	1.400	31.001	36.311	18.779	74.09	13.21	41.03	#5 Run
12/6/2007 17:18	19.982	1.394	30.963	36.298	18.752	74.08	13.20	41.13	#5 Run
12/6/2007 17:18	20.282	1.399	30.920	36.319	18.776	74.08	13.21	41.22	#5 Run
12/6/2007 17:18	20.536	1.397	30.920	36.331	18.766	74.07	13.21	41.25	#5 Run
12/6/2007 17:19	20.706	1.399	30.927	36.358	18.781	74.06	13.20	41.30	#5 Run
12/6/2007 17:19	20.753	1.405	30.952	36.407	18.791	74.05	13.21	41.35	#5 Run
12/6/2007 17:19	20.490	1.404	30.948	36.482	18.779	74.05	13.21	41.35	#5 Run
12/6/2007 17:19	20.111	1.406	30.952	36.529	18.820	74.05	13.21	41.36	#5 Run
12/6/2007 17:19	20.249	1.401	30.960	36.444	18.761	74.04	13.20	41.43	#5 Run
12/6/2007 17:19	20.420	1.398	30.983	36.362	18.748	74.03	13.20	41.49	#5 Run
12/6/2007 17:20	20.520	1.399	30.981	36.301	18.763	74.03	13.20	41.56	#5 Run
12/6/2007 17:20	20.614	1.401	30.973	36.293	18.774	74.02	13.20	41.58	#5 Run
12/6/2007 17:20	20.649	1.400	30.935	36.408	18.784	74.01	13.20	41.62	#5 Run
12/6/2007 17:20	20.395	1.402	30.873	36.524	18.800	74.00	13.21	41.64	#5 Run
12/6/2007 17:20	19.974	1.400	30.847	36.520	18.763	73.99	13.21	41.66	#5 Run
12/6/2007 17:20	19.951	1.389	30.906	36.471	18.684	73.99	13.20	41.70	#5 Run

12/6/2007 17:21	20.148	1.395	30.959	36.384	18.728	73.98	13.20	41.74	#5 Run
12/6/2007 17:21	20.324	1.400	30.980	36.340	18.753	73.98	13.20	41.76	#5 Run
12/6/2007 17:21	20.395	1.400	30.971	36.416	18.770	73.97	13.20	41.76	#5 Run
12/6/2007 17:21	20.353	1.402	30.915	36.497	18.791	73.97	13.20	41.81	#5 Run
12/6/2007 17:21	20.131	1.405	30.900	36.496	18.810	73.96	13.21	41.81	#5 Run
12/6/2007 17:21	19.869	1.407	30.941	36.470	18.815	73.95	13.20	41.82	#5 Run
12/6/2007 17:22	19.878	1.402	30.984	36.382	18.766	73.95	13.21	41.82	#5 Run
12/6/2007 17:22	20.155	1.403	30.991	36.327	18.790	73.94	13.21	41.81	#5 Run
12/6/2007 17:22	20.323	1.403	30.994	36.358	18.812	73.94	13.21	41.79	#5 Run
12/6/2007 17:22	20.434	1.401	30.941	36.386	18.800	73.93	13.21	41.77	#5 Run
12/6/2007 17:22	20.550	1.404	30.914	36.407	18.807	73.93	13.21	41.76	#5 Run
12/6/2007 17:22	20.315	1.398	30.890	36.394	18.764	73.92	13.21	41.75	#5 Run
12/6/2007 17:23	20.014	1.397	30.894	36.292	18.780	73.93	13.21	41.73	#5 Run
12/6/2007 17:23	20.181	1.401	30.899	36.223	18.799	73.93	13.21	41.74	#5 Run
12/6/2007 17:23	20.424	1.399	30.900	36.222	18.777	73.92	13.21	41.75	#5 Run
12/6/2007 17:23	20.548	1.398	30.844	36.244	18.783	73.92	13.21	41.75	#5 Run
12/6/2007 17:23	20.711	1.394	30.796	36.302	18.722	73.92	13.21	41.74	#5 Run
12/6/2007 17:23	20.736	1.393	30.762	36.320	18.742	73.92	13.21	41.73	#5 Run
12/6/2007 17:24	20.412	1.399	30.768	36.307	18.789	73.92	13.21	41.72	#5 Run
12/6/2007 17:24	20.066	1.403	30.859	36.235	18.814	73.92	13.21	41.71	#5 Run
12/6/2007 17:24	20.046	1.403	30.922	36.177	18.809	73.93	13.21	41.71	#5 Run
12/6/2007 17:24	20.314	1.400	30.920	36.144	18.784	73.93	13.21	41.72	#5 Run
12/6/2007 17:24	20.653	1.403	30.913	36.162	18.820	73.93	13.21	41.77	#5 Run
12/6/2007 17:24	20.792	1.402	30.885	36.194	18.804	73.93	13.21	41.81	#5 Run
12/6/2007 17:25	20.714	1.404	30.846	36.273	18.811	73.94	13.21	41.82	#5 Run
12/6/2007 17:25	20.313	1.402	30.753	36.352	18.805	73.94	13.21	41.85	#5 Run
12/6/2007 17:25	20.053	1.401	30.723	36.335	18.786	73.94	13.21	41.86	#5 Run
12/6/2007 17:25	20.324	1.396	30.759	36.282	18.739	73.95	13.21	41.89	#5 Run
12/6/2007 17:25	20.454	1.403	30.797	36.247	18.788	73.95	13.21	41.89	#5 Run
12/6/2007 17:25	20.653	1.400	30.812	36.211	18.785	73.94	13.21	41.88	#5 Run
12/6/2007 17:26	20.795	1.396	30.824	36.150	18.751	73.96	13.21	41.86	#5 Run
12/6/2007 17:26	20.691	1.398	30.759	36.127	18.784	73.96	13.21	41.84	#5 Run
12/6/2007 17:26	20.250	1.400	30.694	36.212	18.804	73.96	13.21	41.82	#5 Run
12/6/2007 17:26	20.132	1.400	30.633	36.278	18.808	73.97	13.21	41.83	#5 Run
12/6/2007 17:26	20.357	1.401	30.619	36.326	18.810	73.98	13.21	41.85	#5 Run
12/6/2007 17:26	20.521	1.400	30.711	36.279	18.798	73.98	13.21	41.86	#5 Run
12/6/2007 17:27	20.652	1.401	30.770	36.133	18.795	73.99	13.21	41.87	#5 Run
12/6/2007 17:27	20.732	1.403	30.767	36.097	18.815	74.00	13.21	41.89	#5 Run
12/6/2007 17:27	20.510	1.394	30.768	36.228	18.729	74.01	13.21	41.90	#5 Run
12/6/2007 17:27	20.108	1.384	30.723	36.354	18.682	74.01	13.20	41.82	#5 Run
12/6/2007 17:27	19.784	1.391	30.721	36.339	18.727	74.01	13.21	41.75	#5 Run
12/6/2007 17:27	19.848	1.395	30.837	36.278	18.755	74.02	13.20	41.73	#5 Run
12/6/2007 17:28	20.053	1.399	30.881	36.231	18.792	74.03	13.21	41.75	#5 Run
12/6/2007 17:28	20.251	1.402	30.771	36.260	18.818	74.03	13.21	41.75	#5 Run
12/6/2007 17:28	20.361	1.401	30.694	36.337	18.809	74.03	13.21	41.75	#5 Run
12/6/2007 17:28	20.228	1.403	30.755	36.321	18.820	74.04	13.21	41.73	#5 Run
12/6/2007 17:28	19.928	1.401	30.783	36.163	18.799	74.05	13.21	41.73	#5 Run
12/6/2007 17:28	19.709	1.382	30.822	36.084	18.656	74.06	13.21	41.74	#5 Run
12/6/2007 17:29	19.816	1.386	30.836	36.215	18.694	74.06	13.21	41.74	#5 Run
12/6/2007 17:29	19.977	1.391	30.747	36.316	18.724	74.08	13.21	41.76	#5 Run
12/6/2007 17:29	20.216	1.393	30.711	36.269	18.751	74.08	13.21	41.80	#5 Run
12/6/2007 17:29	20.257	1.396	30.796	36.180	18.767	74.09	13.21	41.81	#5 Run
12/6/2007 17:29	20.100	1.398	30.864	36.147	18.793	74.10	13.21	41.82	#5 Run
12/6/2007 17:29	19.746	1.401	30.710	36.176	18.798	74.11	13.20	41.82	#5 Run
12/6/2007 17:30	19.626	1.401	30.648	36.184	18.805	74.12	13.21	41.79	#5 Run
12/6/2007 17:30	19.816	1.402	30.747	36.124	18.805	74.13	13.21	41.75	#5 Run
12/6/2007 17:30	19.948	1.402	30.822	35.987	18.814	74.14	13.21	41.71	#5 Run
12/6/2007 17:30	20.149	1.392	30.804	35.965	18.680	74.16	13.21	41.69	#5 Run
12/6/2007 17:30	20.260	1.353	30.782	36.091	18.331	74.17	13.21	41.67	#5 Run
Average	**20.065**	**1.413**	**31.355**	**36.857**	**18.745**	**74.434**	**13.208**	**39.040**	
12/6/2007 17:34	26.546	-0.038	0.160	0.620	0.009	74.46	13.21	41.04	CO Upscale Bias
12/6/2007 17:34	26.680	-0.038	0.158	0.617	0.007	74.47	13.21	41.03	CO Upscale Bias
12/6/2007 17:35	26.875	-0.039	0.157	0.586	0.005	74.48	13.21	41.03	CO Upscale Bias
12/6/2007 17:35	26.987	-0.039	0.158	0.563	0.007	74.49	13.21	41.03	CO Upscale Bias
12/6/2007 17:35	26.800	-0.039	0.157	0.560	0.004	74.50	13.21	41.03	CO Upscale Bias
12/6/2007 17:35	26.439	-0.040	0.160	0.556	0.002	74.50	13.21	41.03	CO Upscale Bias
12/6/2007 17:35	26.347	-0.040	0.160	0.532	0.002	74.51	13.21	41.03	CO Upscale Bias
Average	**26.668**	**-0.039**	**0.159**	**0.576**	**0.005**				
12/6/2007 17:38	-0.407	12.211	0.221	0.607	12.096	74.67	13.21	41.06	O2 Upscale Bias
12/6/2007 17:38	-0.629	12.251	0.218	0.591	12.132	74.69	13.21	41.06	O2 Upscale Bias
12/6/2007 17:39	-1.034	12.262	0.207	0.583	12.143	74.70	13.20	41.07	O2 Upscale Bias
12/6/2007 17:39	-1.102	12.255	0.185	0.587	12.143	74.70	13.20	41.07	O2 Upscale Bias
12/6/2007 17:39	-1.023	12.261	0.188	0.590	12.148	74.72	13.21	41.06	O2 Upscale Bias
12/6/2007 17:39	-0.883	12.268	0.177	0.594	12.154	74.72	13.21	41.01	O2 Upscale Bias

12/6/2007 17:39	-0.850	12.271	0.158	0.578	12.157	74.74	13.21	40.99	O2 Upscale Bias
Average	**-0.847**	**12.254**	**0.193**	**0.590**	**12.139**				
12/6/2007 17:49	-0.075	-0.033	52.465	50.460	-0.027	74.98	13.21	40.22	NOx Upscale Bias
12/6/2007 17:49	0.219	-0.033	52.403	50.520	-0.027	74.96	13.21	40.24	NOx Upscale Bias
12/6/2007 17:49	0.382	-0.033	52.397	50.445	-0.032	74.95	13.21	40.24	NOx Upscale Bias
12/6/2007 17:49	0.359	-0.034	52.543	50.329	-0.029	74.95	13.21	40.28	NOx Upscale Bias
12/6/2007 17:50	0.116	-0.034	52.618	50.221	-0.026	74.94	13.21	40.32	NOx Upscale Bias
12/6/2007 17:50	-0.097	-0.034	52.587	50.169	-0.027	74.92	13.21	40.34	NOx Upscale Bias
12/6/2007 17:50	-0.108	-0.035	52.543	50.289	-0.028	74.92	13.21	40.35	NOx Upscale Bias
Average	**0.114**	**-0.034**	**52.508**	**50.347**	**-0.028**				
12/6/2007 17:55	17.378	1.375	31.187	36.009	18.524	74.57	13.21	40.81	#6 Run
12/6/2007 17:55	17.456	1.378	31.092	36.072	18.564	74.55	13.21	40.85	#6 Run
12/6/2007 17:55	17.538	1.377	30.963	36.123	18.527	74.54	13.21	40.88	#6 Run
12/6/2007 17:55	17.357	1.369	30.828	36.157	18.502	74.54	13.21	40.87	#6 Run
12/6/2007 17:55	17.096	1.375	30.693	36.185	18.543	74.52	13.21	40.89	#6 Run
12/6/2007 17:56	17.071	1.376	30.595	36.151	18.562	74.51	13.21	40.96	#6 Run
12/6/2007 17:56	17.260	1.374	30.637	36.082	18.561	74.50	13.21	40.99	#6 Run
12/6/2007 17:56	17.377	1.373	30.651	35.961	18.577	74.49	13.21	40.99	#6 Run
12/6/2007 17:56	17.416	1.372	30.567	35.882	18.572	74.47	13.21	40.99	#6 Run
12/6/2007 17:56	17.438	1.372	30.507	35.822	18.565	74.47	13.21	40.99	#6 Run
12/6/2007 17:56	17.296	1.373	30.451	35.798	18.587	74.45	13.21	41.02	#6 Run
12/6/2007 17:57	17.175	1.375	30.375	35.856	18.596	74.44	13.21	41.11	#6 Run
12/6/2007 17:57	17.326	1.371	30.290	35.903	18.556	74.43	13.21	41.17	#6 Run
12/6/2007 17:57	17.517	1.368	30.219	35.904	18.524	74.42	13.21	41.19	#6 Run
12/6/2007 17:57	17.698	1.380	30.228	35.904	18.566	74.40	13.21	41.25	#6 Run
12/6/2007 17:57	17.925	1.382	30.237	35.892	18.599	74.39	13.21	41.28	#6 Run
12/6/2007 17:57	17.699	1.382	30.306	35.866	18.614	74.39	13.21	41.31	#6 Run
12/6/2007 17:58	17.157	1.383	30.368	35.844	18.632	74.37	13.21	41.32	#6 Run
12/6/2007 17:58	17.013	1.386	30.371	35.860	18.654	74.36	13.21	41.33	#6 Run
12/6/2007 17:58	17.125	1.382	30.365	35.940	18.608	74.35	13.21	41.36	#6 Run
12/6/2007 17:58	17.358	1.380	30.330	35.997	18.627	74.35	13.21	41.37	#6 Run
12/6/2007 17:58	17.494	1.385	30.293	36.018	18.663	74.34	13.21	41.39	#6 Run
12/6/2007 17:58	17.333	1.382	30.224	36.011	18.633	74.32	13.21	41.42	#6 Run
12/6/2007 17:59	17.233	1.383	30.181	35.981	18.652	74.31	13.21	41.45	#6 Run
12/6/2007 17:59	17.049	1.373	30.233	35.957	18.577	74.30	13.21	41.45	#6 Run
12/6/2007 17:59	16.989	1.372	30.217	35.966	18.589	74.29	13.21	41.47	#6 Run
12/6/2007 17:59	17.374	1.378	30.150	35.969	18.628	74.28	13.21	41.48	#6 Run
12/6/2007 17:59	17.577	1.381	30.084	35.914	18.664	74.27	13.21	41.49	#6 Run
12/6/2007 17:59	17.659	1.384	30.057	35.854	18.685	74.27	13.21	41.49	#6 Run
12/6/2007 18:00	17.736	1.375	30.035	35.795	18.592	74.26	13.21	41.52	#6 Run
12/6/2007 18:00	17.439	1.379	30.035	35.767	18.613	74.25	13.21	41.53	#6 Run
12/6/2007 18:00	17.114	1.389	30.043	35.826	18.663	74.24	13.21	41.55	#6 Run
12/6/2007 18:00	17.337	1.388	30.089	35.912	18.655	74.22	13.21	41.59	#6 Run
12/6/2007 18:00	17.527	1.386	30.117	36.073	18.652	74.22	13.21	41.62	#6 Run
12/6/2007 18:00	17.579	1.382	30.075	36.160	18.652	74.21	13.21	41.67	#6 Run
12/6/2007 18:01	17.720	1.385	30.022	36.124	18.688	74.20	13.21	41.71	#6 Run
12/6/2007 18:01	17.616	1.379	29.986	36.073	18.640	74.19	13.21	41.73	#6 Run
12/6/2007 18:01	17.252	1.379	29.958	36.030	18.671	74.18	13.21	41.79	#6 Run
12/6/2007 18:01	17.076	1.384	30.033	35.962	18.692	74.17	13.21	41.85	#6 Run
12/6/2007 18:01	17.122	1.385	30.106	35.873	18.683	74.16	13.21	41.89	#6 Run
12/6/2007 18:01	17.226	1.385	30.136	35.817	18.693	74.15	13.21	41.91	#6 Run
12/6/2007 18:02	17.374	1.385	30.143	35.847	18.692	74.14	13.21	41.92	#6 Run
12/6/2007 18:02	17.434	1.380	30.074	35.908	18.609	74.13	13.21	41.94	#6 Run
12/6/2007 18:02	17.176	1.376	30.026	35.941	18.603	74.11	13.21	42.03	#6 Run
12/6/2007 18:02	16.871	1.380	29.998	35.993	18.636	74.11	13.21	42.08	#6 Run
12/6/2007 18:02	16.991	1.382	29.982	36.027	18.669	74.09	13.21	42.13	#6 Run
12/6/2007 18:02	17.222	1.386	30.014	36.034	18.696	74.08	13.21	42.14	#6 Run
12/6/2007 18:03	17.323	1.386	30.040	35.965	18.690	74.07	13.21	42.18	#6 Run
12/6/2007 18:03	17.327	1.385	30.066	35.919	18.686	74.06	13.21	42.20	#6 Run
12/6/2007 18:03	17.237	1.377	30.069	35.887	18.607	74.06	13.21	42.21	#6 Run
12/6/2007 18:03	17.055	1.378	30.090	35.882	18.629	74.05	13.21	42.21	#6 Run
12/6/2007 18:03	16.911	1.384	30.077	35.919	18.676	74.03	13.21	42.24	#6 Run
12/6/2007 18:03	17.053	1.383	30.029	35.959	18.692	74.02	13.21	42.25	#6 Run
12/6/2007 18:04	17.215	1.385	30.019	35.958	18.708	74.01	13.21	42.27	#6 Run
12/6/2007 18:04	17.424	1.382	30.043	35.900	18.705	74.00	13.21	42.29	#6 Run
12/6/2007 18:04	17.478	1.380	30.047	35.730	18.686	73.99	13.21	42.29	#6 Run
12/6/2007 18:04	17.286	1.382	29.990	35.623	18.714	73.99	13.21	42.32	#6 Run
12/6/2007 18:04	17.178	1.375	29.940	35.680	18.645	73.98	13.21	42.37	#6 Run
12/6/2007 18:04	17.256	1.370	29.905	35.723	18.617	73.97	13.21	42.41	#6 Run
12/6/2007 18:05	17.416	1.378	29.864	35.743	18.668	73.95	13.21	42.46	#6 Run
12/6/2007 18:05	17.581	1.384	29.790	35.782	18.714	73.94	13.21	42.48	#6 Run
12/6/2007 18:05	17.778	1.383	29.736	35.781	18.702	73.93	13.21	42.51	#6 Run
12/6/2007 18:05	17.881	1.381	29.732	35.774	18.664	73.92	13.21	42.56	#6 Run
12/6/2007 18:05	17.734	1.372	29.750	35.742	18.615	73.92	13.21	42.61	#6 Run

12/6/2007 18:05	17.453	1.379	29.815	35.711	18.662	73.90	13.21	42.66	#6 Run
12/6/2007 18:06	17.273	1.388	29.874	35.685	18.707	73.89	13.21	42.69	#6 Run
12/6/2007 18:06	17.392	1.382	29.929	35.671	18.648	73.88	13.21	42.71	#6 Run
12/6/2007 18:06	17.628	1.381	29.946	35.700	18.673	73.86	13.21	42.73	#6 Run
12/6/2007 18:06	17.630	1.386	29.948	35.730	18.710	73.86	13.21	42.76	#6 Run
12/6/2007 18:06	17.580	1.388	29.967	35.764	18.719	73.85	13.21	42.79	#6 Run
12/6/2007 18:06	17.430	1.387	30.020	35.784	18.712	73.84	13.21	42.84	#6 Run
12/6/2007 18:07	17.157	1.377	30.034	35.790	18.619	73.83	13.21	42.84	#6 Run
12/6/2007 18:07	16.976	1.375	30.023	35.829	18.630	73.82	13.21	42.87	#6 Run
12/6/2007 18:07	17.058	1.380	30.001	35.890	18.675	73.82	13.21	42.90	#6 Run
12/6/2007 18:07	17.227	1.382	29.966	35.931	18.699	73.81	13.21	42.90	#6 Run
12/6/2007 18:07	17.328	1.387	29.946	35.930	18.727	73.79	13.21	42.92	#6 Run
12/6/2007 18:07	17.427	1.389	29.936	35.931	18.736	73.78	13.21	42.93	#6 Run
12/6/2007 18:08	17.378	1.385	29.926	35.921	18.728	73.77	13.21	42.94	#6 Run
12/6/2007 18:08	17.116	1.383	29.954	35.875	18.726	73.76	13.21	42.95	#6 Run
12/6/2007 18:08	16.914	1.383	29.977	35.774	18.719	73.75	13.21	42.98	#6 Run
12/6/2007 18:08	17.055	1.380	29.974	35.673	18.723	73.74	13.21	43.01	#6 Run
12/6/2007 18:08	17.277	1.384	29.968	35.619	18.740	73.73	13.21	43.05	#6 Run
12/6/2007 18:08	17.477	1.382	29.934	35.616	18.711	73.73	13.21	43.14	#6 Run
12/6/2007 18:09	17.476	1.374	29.896	35.720	18.672	73.71	13.21	43.18	#6 Run
12/6/2007 18:09	17.171	1.381	29.836	35.790	18.693	73.70	13.21	43.22	#6 Run
12/6/2007 18:09	16.974	1.374	29.794	35.811	18.658	73.69	13.21	43.22	#6 Run
12/6/2007 18:09	17.094	1.378	29.808	35.804	18.698	73.68	13.21	43.26	#6 Run
12/6/2007 18:09	17.313	1.382	29.835	35.764	18.731	73.67	13.21	43.32	#6 Run
12/6/2007 18:09	17.425	1.380	29.878	35.711	18.715	73.66	13.21	43.39	#6 Run
12/6/2007 18:10	17.527	1.382	29.916	35.682	18.727	73.65	13.21	43.42	#6 Run
12/6/2007 18:10	17.476	1.380	29.917	35.655	18.714	73.64	13.21	43.42	#6 Run
12/6/2007 18:10	17.176	1.377	29.905	35.627	18.716	73.62	13.21	43.44	#6 Run
12/6/2007 18:10	16.975	1.368	29.874	35.596	18.646	73.62	13.21	43.46	#6 Run
12/6/2007 18:10	17.049	1.373	29.846	35.566	18.681	73.61	13.21	43.47	#6 Run
12/6/2007 18:10	17.209	1.378	29.798	35.552	18.721	73.60	13.21	43.48	#6 Run
12/6/2007 18:11	17.326	1.373	29.764	35.588	18.662	73.59	13.21	43.50	#6 Run
12/6/2007 18:11	17.473	1.376	29.766	35.599	18.702	73.58	13.21	43.53	#6 Run
12/6/2007 18:11	17.525	1.381	29.763	35.559	18.727	73.57	13.21	43.55	#6 Run
12/6/2007 18:11	17.426	1.381	29.769	35.504	18.739	73.55	13.21	43.57	#6 Run
12/6/2007 18:11	17.426	1.375	29.785	35.485	18.665	73.54	13.21	43.58	#6 Run
12/6/2007 18:11	17.514	1.374	29.752	35.472	18.676	73.54	13.21	43.57	#6 Run
12/6/2007 18:12	17.629	1.380	29.744	35.438	18.729	73.52	13.21	43.60	#6 Run
12/6/2007 18:12	17.680	1.378	29.773	35.418	18.707	73.51	13.21	43.62	#6 Run
12/6/2007 18:12	17.729	1.376	29.785	35.462	18.696	73.49	13.21	43.65	#6 Run
12/6/2007 18:12	17.574	1.378	29.747	35.492	18.719	73.48	13.21	43.70	#6 Run
12/6/2007 18:12	17.273	1.384	29.737	35.532	18.734	73.47	13.21	43.73	#6 Run
12/6/2007 18:12	17.224	1.384	29.759	35.594	18.694	73.46	13.21	43.73	#6 Run
12/6/2007 18:13	17.356	1.384	29.775	35.659	18.714	73.44	13.21	43.80	#6 Run
12/6/2007 18:13	17.529	1.385	29.804	35.726	18.721	73.43	13.21	43.86	#6 Run
12/6/2007 18:13	17.678	1.381	29.802	35.722	18.737	73.42	13.21	43.90	#6 Run
12/6/2007 18:13	17.827	1.377	29.714	35.696	18.724	73.40	13.21	43.91	#6 Run
12/6/2007 18:13	17.677	1.376	29.681	35.599	18.734	73.40	13.21	43.97	#6 Run
12/6/2007 18:13	17.279	1.379	29.712	35.503	18.741	73.38	13.21	43.98	#6 Run
12/6/2007 18:14	17.120	1.380	29.724	35.471	18.747	73.38	13.21	44.00	#6 Run
12/6/2007 18:14	17.256	1.383	29.704	35.486	18.742	73.36	13.21	44.06	#6 Run
12/6/2007 18:14	17.524	1.382	29.712	35.599	18.699	73.36	13.21	44.08	#6 Run
12/6/2007 18:14	17.778	1.370	29.745	35.628	18.625	73.35	13.21	44.09	#6 Run
12/6/2007 18:14	17.828	1.377	29.758	35.547	18.671	73.33	13.21	44.12	#6 Run
12/6/2007 18:14	17.577	1.382	29.722	35.508	18.711	73.32	13.21	44.13	#6 Run
12/6/2007 18:15	17.425	1.386	29.671	35.600	18.734	73.31	13.21	44.15	#6 Run
12/6/2007 18:15	17.576	1.383	29.585	35.658	18.701	73.30	13.21	44.17	#6 Run
12/6/2007 18:15	17.674	1.372	29.551	35.651	18.627	73.29	13.21	44.17	#6 Run
12/6/2007 18:15	17.801	1.380	29.636	35.617	18.660	73.29	13.21	44.17	#6 Run
12/6/2007 18:15	18.085	1.384	29.674	35.610	18.679	73.27	13.21	44.18	#6 Run
12/6/2007 18:15	17.981	1.387	29.664	35.666	18.700	73.26	13.21	44.18	#6 Run
12/6/2007 18:16	17.530	1.389	29.693	35.774	18.707	73.25	13.21	44.20	#6 Run
12/6/2007 18:16	17.425	1.386	29.876	35.805	18.697	73.24	13.21	44.23	#6 Run
12/6/2007 18:16	17.727	1.389	29.957	35.713	18.749	73.24	13.21	44.28	#6 Run
12/6/2007 18:16	17.820	1.379	29.808	35.709	18.675	73.22	13.21	44.30	#6 Run
12/6/2007 18:16	17.880	1.377	29.726	35.738	18.673	73.22	13.21	44.28	#6 Run
12/6/2007 18:16	17.932	1.378	29.768	35.648	18.699	73.20	13.21	44.29	#6 Run
12/6/2007 18:17	17.628	1.382	29.783	35.477	18.724	73.20	13.21	44.30	#6 Run
12/6/2007 18:17	17.275	1.387	29.765	35.381	18.751	73.19	13.21	44.31	#6 Run
12/6/2007 18:17	17.377	1.385	29.780	35.544	18.721	73.17	13.21	44.31	#6 Run
12/6/2007 18:17	17.624	1.370	29.848	35.584	18.613	73.16	13.21	44.34	#6 Run
12/6/2007 18:17	17.677	1.375	29.917	35.444	18.651	73.15	13.21	44.36	#6 Run
12/6/2007 18:17	17.727	1.379	29.956	35.429	18.682	73.14	13.21	44.37	#6 Run
12/6/2007 18:18	17.779	1.382	29.945	35.614	18.696	73.13	13.21	44.38	#6 Run

12/6/2007 18:18	17.631	1.384	29.857	35.721	18.709	73.12	13.21	44.38	#6 Run
12/6/2007 18:18	17.477	1.385	29.809	35.623	18.721	73.11	13.21	44.40	#6 Run
12/6/2007 18:18	17.577	1.386	29.879	35.536	18.745	73.10	13.21	44.38	#6 Run
12/6/2007 18:18	17.729	1.390	29.914	35.563	18.760	73.08	13.21	44.38	#6 Run
12/6/2007 18:18	17.958	1.382	29.815	35.643	18.688	73.08	13.21	44.43	#6 Run
12/6/2007 18:19	18.078	1.371	29.773	35.670	18.623	73.06	13.21	44.47	#6 Run
12/6/2007 18:19	17.926	1.375	29.803	35.616	18.661	73.05	13.21	44.55	#6 Run
12/6/2007 18:19	17.676	1.378	29.819	35.457	18.690	73.05	13.21	44.60	#6 Run
12/6/2007 18:19	17.626	1.380	29.806	35.349	18.707	73.03	13.21	44.66	#6 Run
12/6/2007 18:19	17.728	1.382	29.798	35.408	18.725	73.03	13.21	44.70	#6 Run
12/6/2007 18:19	17.825	1.384	29.832	35.468	18.746	73.02	13.21	44.76	#6 Run
12/6/2007 18:20	17.879	1.384	29.830	35.533	18.745	73.01	13.21	44.79	#6 Run
12/6/2007 18:20	17.720	1.375	29.778	35.608	18.685	73.00	13.21	44.84	#6 Run
12/6/2007 18:20	17.421	1.377	29.776	35.634	18.705	72.99	13.21	44.87	#6 Run
12/6/2007 18:20	17.273	1.382	29.830	35.630	18.726	72.98	13.21	44.91	#6 Run
12/6/2007 18:20	17.378	1.385	29.847	35.625	18.758	72.97	13.21	44.94	#6 Run
12/6/2007 18:20	17.573	1.381	29.822	35.618	18.719	72.96	13.21	44.94	#6 Run
12/6/2007 18:21	17.797	1.383	29.830	35.586	18.740	72.95	13.21	44.94	#6 Run
12/6/2007 18:21	17.881	1.383	29.874	35.559	18.742	72.95	13.21	44.92	#6 Run
12/6/2007 18:21	17.648	1.381	29.899	35.523	18.765	72.93	13.21	44.95	#6 Run
12/6/2007 18:21	17.372	1.370	29.872	35.479	18.668	72.92	13.21	44.98	#6 Run
12/6/2007 18:21	17.376	1.368	29.842	35.431	18.678	72.92	13.21	45.00	#6 Run
12/6/2007 18:21	17.575	1.373	29.812	35.410	18.707	72.90	13.21	45.05	#6 Run
12/6/2007 18:22	17.828	1.377	29.755	35.477	18.726	72.89	13.21	45.09	#6 Run
12/6/2007 18:22	18.103	1.382	29.634	35.552	18.746	72.89	13.21	45.13	#6 Run
12/6/2007 18:22	18.120	1.385	29.574	35.595	18.762	72.87	13.21	45.15	#6 Run
12/6/2007 18:22	17.901	1.387	29.630	35.586	18.762	72.86	13.21	45.20	#6 Run
12/6/2007 18:22	17.676	1.386	29.698	35.558	18.762	72.85	13.21	45.22	#6 Run
12/6/2007 18:22	17.630	1.386	29.785	35.527	18.758	72.84	13.21	45.24	#6 Run
12/6/2007 18:23	17.781	1.385	29.854	35.495	18.759	72.83	13.21	45.34	#6 Run
12/6/2007 18:23	17.928	1.387	29.863	35.494	18.772	72.81	13.21	45.38	#6 Run
12/6/2007 18:23	18.044	1.387	29.854	35.564	18.761	72.82	13.21	45.41	#6 Run
12/6/2007 18:23	17.840	1.386	29.752	35.637	18.758	72.80	13.21	45.38	#6 Run
12/6/2007 18:23	17.558	1.386	29.737	35.648	18.757	72.79	13.21	45.37	#6 Run
12/6/2007 18:23	17.479	1.387	29.820	35.584	18.775	72.78	13.21	45.38	#6 Run
12/6/2007 18:24	17.627	1.384	29.869	35.480	18.745	72.77	13.21	45.47	#6 Run
12/6/2007 18:24	17.881	1.379	29.844	35.441	18.739	72.76	13.21	45.52	#6 Run
12/6/2007 18:24	18.082	1.384	29.777	35.504	18.782	72.75	13.21	45.54	#6 Run
12/6/2007 18:24	18.181	1.377	29.640	35.555	18.720	72.74	13.21	45.56	#6 Run
12/6/2007 18:24	17.941	1.375	29.576	35.520	18.724	72.73	13.21	45.58	#6 Run
12/6/2007 18:24	17.781	1.381	29.631	35.414	18.759	72.72	13.21	45.59	#6 Run
12/6/2007 18:25	17.831	1.376	29.674	35.287	18.709	72.71	13.21	45.62	#6 Run
12/6/2007 18:25	17.931	1.372	29.677	35.228	18.672	72.70	13.21	45.64	#6 Run
12/6/2007 18:25	18.033	1.378	29.692	35.278	18.707	72.69	13.21	45.65	#6 Run
12/6/2007 18:25	18.083	1.384	29.751	35.332	18.738	72.69	13.21	45.71	#6 Run
12/6/2007 18:25	17.840	1.387	29.774	35.460	18.773	72.68	13.21	45.77	#6 Run
12/6/2007 18:25	17.617	1.378	29.695	35.562	18.685	72.67	13.21	45.79	#6 Run
12/6/2007 18:26	17.637	1.374	29.665	35.526	18.684	72.67	13.21	45.80	#6 Run
12/6/2007 18:26	17.790	1.380	29.716	35.473	18.714	72.66	13.21	45.82	#6 Run
12/6/2007 18:26	17.932	1.382	29.769	35.402	18.746	72.65	13.21	45.84	#6 Run
12/6/2007 18:26	18.030	1.385	29.794	35.359	18.763	72.64	13.21	45.83	#6 Run
12/6/2007 18:26	18.034	1.386	29.790	35.354	18.761	72.64	13.21	45.84	#6 Run
12/6/2007 18:26	17.742	1.385	29.793	35.369	18.757	72.62	13.21	45.88	#6 Run
12/6/2007 18:27	17.579	1.383	29.769	35.419	18.748	72.62	13.21	45.97	#6 Run
12/6/2007 18:27	17.637	1.385	29.707	35.492	18.750	72.61	13.21	45.99	#6 Run
12/6/2007 18:27	17.852	1.385	29.669	35.515	18.760	72.61	13.21	46.00	#6 Run
12/6/2007 18:27	18.081	1.390	29.684	35.530	18.775	72.60	13.21	46.03	#6 Run
12/6/2007 18:27	18.232	1.383	29.703	35.491	18.725	72.59	13.21	46.07	#6 Run
12/6/2007 18:27	18.232	1.377	29.703	35.430	18.711	72.59	13.21	46.11	#6 Run
12/6/2007 18:28	18.001	1.383	29.683	35.368	18.753	72.58	13.21	46.14	#6 Run
12/6/2007 18:28	17.819	1.378	29.617	35.338	18.730	72.57	13.21	46.18	#6 Run
12/6/2007 18:28	17.960	1.384	29.590	35.370	18.773	72.57	13.21	46.25	#6 Run
12/6/2007 18:28	18.081	1.386	29.616	35.407	18.762	72.56	13.21	46.28	#6 Run
12/6/2007 18:28	18.081	1.384	29.631	35.465	18.758	72.55	13.21	46.31	#6 Run
12/6/2007 18:28	18.128	1.380	29.609	35.515	18.708	72.55	13.21	46.37	#6 Run
12/6/2007 18:29	17.937	1.379	29.637	35.533	18.718	72.54	13.21	46.38	#6 Run
12/6/2007 18:29	17.596	1.381	29.735	35.508	18.748	72.53	13.21	46.39	#6 Run
12/6/2007 18:29	17.536	1.384	29.788	35.399	18.771	72.53	13.21	46.42	#6 Run
12/6/2007 18:29	17.694	1.377	29.797	35.353	18.696	72.53	13.21	46.45	#6 Run
12/6/2007 18:29	17.900	1.379	29.795	35.409	18.722	72.52	13.21	46.47	#6 Run
12/6/2007 18:29	18.081	1.385	29.703	35.457	18.768	72.51	13.21	46.51	#6 Run
12/6/2007 18:30	18.129	1.379	29.644	35.486	18.694	72.50	13.21	46.52	#6 Run
12/6/2007 18:30	17.839	1.374	29.680	35.489	18.682	72.50	13.21	46.52	#6 Run
12/6/2007 18:30	17.497	1.379	29.723	35.434	18.711	72.50	13.21	46.54	#6 Run

12/6/2007 18:30	17.496	1.379	29.772	35.364	18.739	72.49	13.21	46.54	#6 Run
12/6/2007 18:30	17.760	1.382	29.769	35.331	18.771	72.48	13.21	46.55	#6 Run
12/6/2007 18:30	17.995	1.381	29.716	35.348	18.766	72.48	13.21	46.55	#6 Run
12/6/2007 18:31	18.130	1.383	29.656	35.407	18.767	72.47	13.21	46.55	#6 Run
12/6/2007 18:31	18.082	1.376	29.593	35.428	18.702	72.46	13.21	46.57	#6 Run
12/6/2007 18:31	17.741	1.371	29.567	35.360	18.687	72.46	13.21	46.61	#6 Run
12/6/2007 18:31	17.637	1.374	29.644	35.263	18.709	72.45	13.21	46.64	#6 Run
12/6/2007 18:31	17.859	1.375	29.688	35.144	18.723	72.44	13.21	46.67	#6 Run
12/6/2007 18:31	18.098	1.378	29.662	35.126	18.743	72.44	13.21	46.66	#6 Run
12/6/2007 18:32	18.238	1.381	29.629	35.218	18.757	72.44	13.21	46.67	#6 Run
12/6/2007 18:32	18.228	1.382	29.604	35.306	18.769	72.43	13.21	46.70	#6 Run
12/6/2007 18:32	17.981	1.380	29.581	35.334	18.750	72.42	13.21	46.71	#6 Run
12/6/2007 18:32	17.719	1.383	29.592	35.348	18.769	72.41	13.21	46.70	#6 Run
12/6/2007 18:32	17.798	1.383	29.621	35.328	18.761	72.40	13.21	46.72	#6 Run
12/6/2007 18:32	17.998	1.383	29.649	35.301	18.761	72.40	13.21	46.76	#6 Run
12/6/2007 18:33	18.263	1.382	29.648	35.257	18.774	72.38	13.21	46.79	#6 Run
12/6/2007 18:33	18.444	1.384	29.595	35.229	18.779	72.38	13.21	46.78	#6 Run
12/6/2007 18:33	18.367	1.383	29.558	35.194	18.776	72.37	13.21	46.79	#6 Run
12/6/2007 18:33	18.081	1.381	29.585	35.158	18.760	72.36	13.21	46.80	#6 Run
12/6/2007 18:33	17.820	1.378	29.620	35.196	18.747	72.36	13.21	46.82	#6 Run
12/6/2007 18:33	17.902	1.379	29.634	35.245	18.758	72.35	13.21	46.82	#6 Run
12/6/2007 18:34	18.164	1.383	29.606	35.279	18.770	72.35	13.21	46.83	#6 Run
12/6/2007 18:34	18.461	1.378	29.530	35.309	18.733	72.34	13.21	46.87	#6 Run
12/6/2007 18:34	18.524	1.380	29.496	35.323	18.760	72.34	13.21	46.90	#6 Run
12/6/2007 18:34	18.304	1.379	29.491	35.323	18.730	72.33	13.21	46.91	#6 Run
12/6/2007 18:34	18.081	1.376	29.496	35.318	18.727	72.33	13.21	46.90	#6 Run
12/6/2007 18:34	18.042	1.382	29.527	35.289	18.775	72.32	13.21	46.93	#6 Run
12/6/2007 18:35	18.265	1.384	29.535	35.269	18.783	72.32	13.21	46.96	#6 Run
12/6/2007 18:35	18.565	1.383	29.506	35.253	18.762	72.32	13.21	47.01	#6 Run
12/6/2007 18:35	18.749	1.382	29.479	35.239	18.753	72.31	13.21	47.01	#6 Run
12/6/2007 18:35	18.668	1.376	29.449	35.246	18.720	72.31	13.21	47.04	#6 Run
12/6/2007 18:35	18.345	1.384	29.435	35.283	18.779	72.30	13.21	47.08	#6 Run
12/6/2007 18:35	18.131	1.381	29.459	35.336	18.754	72.30	13.21	47.10	#6 Run
12/6/2007 18:36	18.143	1.380	29.471	35.367	18.713	72.30	13.21	47.11	#6 Run
12/6/2007 18:36	18.305	1.371	29.500	35.386	18.678	72.29	13.21	47.11	#6 Run
12/6/2007 18:36	18.385	1.376	29.540	35.375	18.718	72.28	13.21	47.11	#6 Run
12/6/2007 18:36	18.444	1.379	29.596	35.325	18.748	72.28	13.21	47.14	#6 Run
12/6/2007 18:36	18.363	1.383	29.632	35.250	18.777	72.27	13.21	47.16	#6 Run
12/6/2007 18:36	17.978	1.386	29.612	35.233	18.792	72.26	13.21	47.19	#6 Run
12/6/2007 18:37	17.721	1.379	29.602	35.329	18.748	72.26	13.21	47.21	#6 Run
12/6/2007 18:37	17.799	1.382	29.568	35.399	18.775	72.25	13.21	47.22	#6 Run
12/6/2007 18:37	17.942	1.381	29.575	35.420	18.766	72.24	13.21	47.22	#6 Run
12/6/2007 18:37	18.041	1.383	29.621	35.371	18.786	72.24	13.21	47.22	#6 Run
12/6/2007 18:37	18.198	1.378	29.637	35.262	18.733	72.23	13.21	47.22	#6 Run
12/6/2007 18:37	18.098	1.376	29.628	35.219	18.747	72.22	13.21	47.24	#6 Run
12/6/2007 18:38	17.859	1.382	29.597	35.250	18.766	72.22	13.21	47.26	#6 Run
12/6/2007 18:38	17.968	1.376	29.557	35.269	18.734	72.21	13.21	47.29	#6 Run
12/6/2007 18:38	18.200	1.382	29.511	35.278	18.773	72.21	13.21	47.32	#6 Run
12/6/2007 18:38	18.399	1.379	29.463	35.299	18.737	72.21	13.21	47.36	#6 Run
12/6/2007 18:38	18.481	1.373	29.453	35.288	18.711	72.21	13.21	47.39	#6 Run
12/6/2007 18:38	18.421	1.379	29.507	35.228	18.765	72.20	13.21	47.38	#6 Run
12/6/2007 18:39	18.080	1.378	29.547	35.126	18.739	72.20	13.21	47.39	#6 Run
12/6/2007 18:39	17.880	1.373	29.549	35.058	18.722	72.19	13.21	47.41	#6 Run
12/6/2007 18:39	18.015	1.377	29.542	35.070	18.750	72.18	13.21	47.42	#6 Run
12/6/2007 18:39	18.199	1.381	29.510	35.119	18.781	72.17	13.21	47.44	#6 Run
12/6/2007 18:39	18.337	1.382	29.479	35.207	18.768	72.17	13.21	47.45	#6 Run
12/6/2007 18:39	18.442	1.377	29.448	35.242	18.754	72.17	13.21	47.47	#6 Run
12/6/2007 18:40	18.297	1.382	29.439	35.230	18.787	72.16	13.21	47.51	#6 Run
12/6/2007 18:40	17.938	1.379	29.462	35.210	18.743	72.16	13.21	47.52	#6 Run
12/6/2007 18:40	17.718	1.368	29.475	35.210	18.677	72.15	13.21	47.54	#6 Run
12/6/2007 18:40	17.819	1.373	29.529	35.200	18.720	72.15	13.21	47.58	#6 Run
12/6/2007 18:40	18.000	1.378	29.547	35.180	18.760	72.14	13.21	47.60	#6 Run
12/6/2007 18:40	18.202	1.381	29.534	35.182	18.788	72.14	13.21	47.61	#6 Run
12/6/2007 18:41	18.343	1.380	29.529	35.174	18.779	72.13	13.21	47.65	#6 Run
12/6/2007 18:41	18.205	1.381	29.570	35.140	18.766	72.13	13.21	47.67	#6 Run
12/6/2007 18:41	17.903	1.375	29.593	35.125	18.728	72.13	13.21	47.69	#6 Run
12/6/2007 18:41	17.851	1.380	29.542	35.144	18.775	72.12	13.21	47.72	#6 Run
12/6/2007 18:41	18.090	1.382	29.502	35.210	18.777	72.12	13.21	47.73	#6 Run
12/6/2007 18:41	18.367	1.372	29.431	35.262	18.716	72.11	13.21	47.74	#6 Run
12/6/2007 18:42	18.542	1.376	29.395	35.215	18.747	72.11	13.21	47.74	#6 Run
12/6/2007 18:42	18.525	1.380	29.411	35.178	18.772	72.11	13.21	47.74	#6 Run
12/6/2007 18:42	18.245	1.378	29.451	35.170	18.759	72.10	13.21	47.75	#6 Run
12/6/2007 18:42	17.898	1.373	29.504	35.139	18.702	72.10	13.21	47.78	#6 Run
12/6/2007 18:42	17.927	1.363	29.542	35.086	18.654	72.09	13.21	47.78	#6 Run

12/6/2007 18:42	18.195	1.370	29.514	35.090	18.688	72.09	13.21	47.82	#6 Run
12/6/2007 18:43	18.410	1.374	29.456	35.191	18.719	72.09	13.21	47.83	#6 Run
12/6/2007 18:43	18.608	1.378	29.349	35.284	18.751	72.08	13.21	47.84	#6 Run
12/6/2007 18:43	18.566	1.380	29.298	35.284	18.768	72.08	13.21	47.84	#6 Run
12/6/2007 18:43	18.303	1.381	29.357	35.255	18.783	72.08	13.21	47.86	#6 Run
12/6/2007 18:43	18.125	1.382	29.408	35.202	18.797	72.07	13.21	47.86	#6 Run
12/6/2007 18:43	18.155	1.384	29.440	35.189	18.807	72.05	13.21	47.88	#6 Run
12/6/2007 18:44	18.328	1.381	29.456	35.223	18.783	72.05	13.21	47.91	#6 Run
12/6/2007 18:44	18.451	1.381	29.458	35.248	18.779	72.04	13.21	47.94	#6 Run
12/6/2007 18:44	18.488	1.382	29.447	35.285	18.797	72.03	13.21	47.94	#6 Run
12/6/2007 18:44	18.365	1.380	29.402	35.299	18.779	72.03	13.21	47.93	#6 Run
12/6/2007 18:44	18.162	1.382	29.378	35.291	18.793	72.01	13.21	47.93	#6 Run
12/6/2007 18:44	18.082	1.379	29.403	35.234	18.764	72.01	13.21	47.96	#6 Run
12/6/2007 18:45	18.223	1.381	29.446	35.129	18.781	71.99	13.21	47.98	#6 Run
12/6/2007 18:45	18.425	1.373	29.496	35.062	18.708	71.98	13.21	48.00	#6 Run
12/6/2007 18:45	18.554	1.375	29.496	35.060	18.740	71.98	13.21	48.00	#6 Run
12/6/2007 18:45	18.525	1.379	29.444	35.087	18.769	71.97	13.21	48.02	#6 Run
12/6/2007 18:45	18.245	1.371	29.403	35.137	18.706	71.96	13.21	48.08	#6 Run
12/6/2007 18:45	18.026	1.373	29.355	35.165	18.736	71.96	13.21	48.07	#6 Run
12/6/2007 18:46	18.166	1.378	29.336	35.194	18.766	71.95	13.21	48.08	#6 Run
12/6/2007 18:46	18.431	1.378	29.334	35.197	18.762	71.94	13.21	48.11	#6 Run
12/6/2007 18:46	18.630	1.379	29.355	35.127	18.757	71.94	13.21	48.13	#6 Run
12/6/2007 18:46	18.752	1.367	29.403	35.043	18.672	71.93	13.21	48.12	#6 Run
12/6/2007 18:46	18.605	1.370	29.440	34.977	18.712	71.92	13.21	48.13	#6 Run
12/6/2007 18:46	18.183	1.376	29.470	34.967	18.749	71.92	13.21	48.12	#6 Run
12/6/2007 18:47	17.858	1.378	29.491	35.021	18.773	71.92	13.21	48.12	#6 Run
12/6/2007 18:47	17.903	1.378	29.489	35.072	18.792	71.91	13.21	48.12	#6 Run
12/6/2007 18:47	18.127	1.376	29.480	35.114	18.774	71.90	13.21	48.11	#6 Run
12/6/2007 18:47	18.400	1.368	29.448	35.139	18.755	71.87	13.21	48.13	#6 Run
12/6/2007 18:47	18.627	1.375	29.368	35.099	18.807	71.85	13.21	48.15	#6 Run
12/6/2007 18:47	18.622	1.376	29.232	35.100	18.797	71.83	13.21	48.16	#6 Run
12/6/2007 18:48	18.463	1.374	29.151	35.100	18.787	71.81	13.21	48.16	#6 Run
12/6/2007 18:48	18.384	1.373	29.122	35.100	18.767	71.79	13.21	48.18	#6 Run
12/6/2007 18:48	18.447	1.375	29.123	35.089	18.792	71.77	13.21	48.19	#6 Run
12/6/2007 18:48	18.552	1.379	29.177	35.056	18.803	71.74	13.21	48.20	#6 Run
12/6/2007 18:48	18.584	1.374	29.252	35.025	18.720	71.71	13.21	48.24	#6 Run
12/6/2007 18:48	18.515	1.370	29.343	34.991	18.705	71.70	13.21	48.23	#6 Run
12/6/2007 18:49	18.221	1.376	29.434	34.973	18.750	71.68	13.21	48.23	#6 Run
12/6/2007 18:49	17.958	1.381	29.503	35.000	18.781	71.67	13.21	48.23	#6 Run
12/6/2007 18:49	17.941	1.383	29.518	35.069	18.795	71.65	13.21	48.28	#6 Run
12/6/2007 18:49	18.044	1.383	29.439	35.167	18.788	71.63	13.21	48.34	#6 Run
12/6/2007 18:49	18.223	1.379	29.388	35.203	18.762	71.61	13.21	48.38	#6 Run
12/6/2007 18:49	18.353	1.374	29.356	35.230	18.725	71.58	13.21	48.43	#6 Run
12/6/2007 18:50	18.310	1.377	29.386	35.148	18.768	71.56	13.21	48.47	#6 Run
12/6/2007 18:50	18.009	1.380	29.505	35.077	18.789	71.55	13.21	48.47	#6 Run
12/6/2007 18:50	17.758	1.379	29.557	35.039	18.796	71.54	13.21	48.47	#6 Run
12/6/2007 18:50	17.741	1.374	29.508	35.083	18.742	71.53	13.21	48.49	#6 Run
12/6/2007 18:50	17.922	1.366	29.475	35.147	18.718	71.52	13.21	48.59	#6 Run
12/6/2007 18:50	18.124	1.373	29.418	35.178	18.765	71.51	13.21	48.62	#6 Run
12/6/2007 18:51	18.181	1.380	29.419	35.140	18.803	71.51	13.21	48.60	#6 Run
12/6/2007 18:51	18.041	1.380	29.485	35.048	18.791	71.51	13.21	48.60	#6 Run
12/6/2007 18:51	17.766	1.370	29.498	34.950	18.725	71.51	13.21	48.63	#6 Run
12/6/2007 18:51	17.682	1.372	29.438	34.949	18.768	71.52	13.21	48.69	#6 Run
12/6/2007 18:51	17.860	1.374	29.373	35.041	18.792	71.54	13.21	48.70	#6 Run
12/6/2007 18:51	18.053	1.374	29.314	35.098	18.803	71.56	13.21	48.70	#6 Run
12/6/2007 18:52	18.083	1.368	29.292	34.989	18.749	71.57	13.21	48.75	#6 Run
12/6/2007 18:52	18.082	1.358	29.356	34.868	18.687	71.58	13.21	48.88	#6 Run
12/6/2007 18:52	17.941	1.364	29.396	34.797	18.726	71.59	13.21	49.01	#6 Run
12/6/2007 18:52	17.741	1.369	29.394	34.784	18.759	71.61	13.21	49.10	#6 Run
12/6/2007 18:52	17.681	1.372	29.370	34.899	18.789	71.61	13.21	49.11	#6 Run
12/6/2007 18:52	17.861	1.373	29.279	34.971	18.794	71.61	13.21	49.17	#6 Run
12/6/2007 18:53	18.055	1.375	29.241	34.962	18.802	71.60	13.21	49.18	#6 Run
12/6/2007 18:53	18.155	1.369	29.327	34.898	18.754	71.60	13.21	49.20	#6 Run
12/6/2007 18:53	18.189	1.364	29.405	34.765	18.744	71.59	13.21	49.30	#6 Run
12/6/2007 18:53	18.043	1.368	29.421	34.710	18.777	71.60	13.21	49.32	#6 Run
12/6/2007 18:53	17.771	1.370	29.385	34.774	18.792	71.61	13.21	49.36	#6 Run
12/6/2007 18:53	17.680	1.370	29.309	34.840	18.801	71.63	13.21	49.44	#6 Run
12/6/2007 18:54	17.863	1.370	29.255	34.858	18.795	71.65	13.21	49.47	#6 Run
12/6/2007 18:54	18.051	1.371	29.283	34.851	18.799	71.67	13.21	49.56	#6 Run
12/6/2007 18:54	18.152	1.369	29.306	34.819	18.782	71.69	13.21	49.62	#6 Run
12/6/2007 18:54	18.114	1.364	29.303	34.780	18.731	71.70	13.21	49.70	#6 Run
12/6/2007 18:54	17.805	1.367	29.319	34.730	18.769	71.71	13.21	49.76	#6 Run
12/6/2007 18:54	17.540	1.370	29.347	34.721	18.792	71.71	13.21	49.81	#6 Run
12/6/2007 18:55	17.553	1.372	29.353	34.761	18.800	71.72	13.21	49.90	#6 Run

12/6/2007 18:55	17.761	1.367	29.325	34.819	18.755	71.71	13.21	49.95	#6 Run
Average	**17.793**	**1.379**	**29.729**	**35.458**	**18.718**	**72.875**	**13.210**	**45.395**	
12/6/2007 18:59	25.118	-0.038	0.245	0.766	0.043	71.49	13.21	50.89	CO Upscale Bias
12/6/2007 18:59	25.182	-0.039	0.250	0.753	0.042	71.47	13.21	50.91	CO Upscale Bias
12/6/2007 18:59	25.453	-0.039	0.247	0.734	0.039	71.47	13.21	50.94	CO Upscale Bias
12/6/2007 18:59	25.666	-0.039	0.247	0.726	0.037	71.47	13.21	50.98	CO Upscale Bias
12/6/2007 19:00	25.713	-0.038	0.246	0.706	0.036	71.48	13.21	51.01	CO Upscale Bias
12/6/2007 19:00	25.578	-0.039	0.246	0.709	0.035	71.49	13.22	51.03	CO Upscale Bias
12/6/2007 19:00	25.234	-0.039	0.244	0.691	0.032	71.51	13.22	51.02	CO Upscale Bias
12/6/2007 19:01	25.980	-0.040	0.224	0.587	0.021	71.73	13.22	50.47	CO Upscale Bias
12/6/2007 19:01	26.129	-0.040	0.211	0.574	0.020	71.76	13.22	50.31	CO Upscale Bias
12/6/2007 19:01	26.428	-0.040	0.191	0.548	0.020	71.79	13.22	50.18	CO Upscale Bias
12/6/2007 19:02	26.597	-0.040	0.189	0.554	0.017	71.80	13.22	50.05	CO Upscale Bias
12/6/2007 19:02	26.618	-0.040	0.191	0.543	0.016	71.81	13.22	49.99	CO Upscale Bias
12/6/2007 19:02	26.271	-0.040	0.193	0.525	0.015	71.81	13.22	49.87	CO Upscale Bias
12/6/2007 19:02	26.044	-0.040	0.193	0.517	0.012	71.81	13.22	49.55	CO Upscale Bias
Average	**25.858**	**-0.039**	**0.223**	**0.638**	**0.028**				
12/6/2007 19:07	-0.128	12.184	0.194	0.461	12.004	71.45	13.21	49.44	O2 Upscale Bias
12/6/2007 19:07	-0.333	12.168	0.193	0.462	12.001	71.43	13.21	49.46	O2 Upscale Bias
12/6/2007 19:08	-0.371	12.162	0.191	0.454	11.994	71.41	13.21	49.53	O2 Upscale Bias
12/6/2007 19:08	-0.216	12.159	0.195	0.433	11.991	71.40	13.21	49.59	O2 Upscale Bias
12/6/2007 19:08	-0.098	12.182	0.192	0.425	12.006	71.39	13.21	49.62	O2 Upscale Bias
12/6/2007 19:08	-0.070	12.171	0.193	0.408	11.999	71.38	13.21	49.70	O2 Upscale Bias
12/6/2007 19:08	-0.067	12.176	0.182	0.407	12.000	71.38	13.21	49.75	O2 Upscale Bias
Average	**-0.183**	**12.172**	**0.191**	**0.436**	**11.999**				
12/6/2007 19:12	0.623	-0.008	52.675	50.649	0.002	71.51	13.21	51.80	NOx Upscale Bias
12/6/2007 19:12	0.885	-0.011	52.636	50.688	-0.002	71.51	13.22	51.91	NOx Upscale Bias
12/6/2007 19:12	1.111	-0.013	52.677	50.662	-0.004	71.51	13.22	51.99	NOx Upscale Bias
12/6/2007 19:13	1.226	-0.013	52.718	50.561	-0.004	71.49	13.22	52.13	NOx Upscale Bias
12/6/2007 19:13	1.107	-0.015	52.766	50.485	-0.005	71.47	13.22	52.15	NOx Upscale Bias
12/6/2007 19:13	0.903	-0.016	52.786	50.437	-0.006	71.45	13.22	52.23	NOx Upscale Bias
12/6/2007 19:13	0.607	-0.017	52.791	50.443	-0.005	71.43	13.22	52.32	NOx Upscale Bias
Average	**0.923**	**-0.013**	**52.721**	**50.561**	**-0.004**				
12/6/2007 19:18	20.548	1.408	28.796	34.328	18.841	70.67	13.22	53.12	#7 Run
12/6/2007 19:18	20.432	1.409	28.712	34.394	18.844	70.66	13.22	53.12	#7 Run
12/6/2007 19:19	20.128	1.401	28.664	34.423	18.797	70.63	13.22	53.19	#7 Run
12/6/2007 19:19	20.172	1.405	28.680	34.390	18.834	70.62	13.22	53.31	#7 Run
12/6/2007 19:19	20.439	1.410	28.719	34.292	18.871	70.60	13.22	53.42	#7 Run
12/6/2007 19:19	20.572	1.413	28.749	34.231	18.877	70.58	13.22	53.44	#7 Run
12/6/2007 19:19	20.595	1.412	28.760	34.227	18.873	70.57	13.22	53.50	#7 Run
12/6/2007 19:19	20.514	1.406	28.730	34.236	18.832	70.55	13.22	53.53	#7 Run
12/6/2007 19:20	20.254	1.407	28.722	34.266	18.851	70.53	13.22	53.52	#7 Run
12/6/2007 19:20	19.924	1.404	28.767	34.262	18.808	70.51	13.22	53.54	#7 Run
12/6/2007 19:20	19.892	1.404	28.812	34.216	18.825	70.50	13.22	53.57	#7 Run
12/6/2007 19:20	20.135	1.409	28.847	34.166	18.851	70.48	13.22	53.58	#7 Run
12/6/2007 19:20	20.590	1.414	28.845	34.102	18.889	70.48	13.22	53.57	#7 Run
12/6/2007 19:20	20.930	1.412	28.669	34.125	18.872	70.46	13.22	53.60	#7 Run
12/6/2007 19:21	20.834	1.416	28.593	34.263	18.893	70.45	13.22	53.71	#7 Run
12/6/2007 19:21	20.343	1.408	28.663	34.320	18.825	70.44	13.22	53.78	#7 Run
12/6/2007 19:21	20.474	1.410	28.668	34.323	18.852	70.44	13.22	53.79	#7 Run
12/6/2007 19:21	20.657	1.412	28.570	34.359	18.862	70.43	13.22	53.80	#7 Run
12/6/2007 19:21	20.936	1.408	28.513	34.375	18.854	70.42	13.22	53.86	#7 Run
12/6/2007 19:21	20.999	1.412	28.617	34.323	18.874	70.41	13.22	53.87	#7 Run
12/6/2007 19:22	20.836	1.413	28.707	34.260	18.871	70.41	13.22	53.90	#7 Run
12/6/2007 19:22	20.476	1.406	28.719	34.184	18.830	70.40	13.22	53.96	#7 Run
12/6/2007 19:22	20.120	1.411	28.749	34.142	18.867	70.40	13.22	53.94	#7 Run
12/6/2007 19:22	20.274	1.416	28.768	34.132	18.907	70.40	13.22	54.01	#7 Run
12/6/2007 19:22	20.469	1.415	28.769	34.205	18.895	70.39	13.22	54.16	#7 Run
12/6/2007 19:22	20.571	1.412	28.763	34.265	18.889	70.40	13.22	54.22	#7 Run
12/6/2007 19:23	20.594	1.411	28.706	34.302	18.895	70.39	13.22	54.23	#7 Run
12/6/2007 19:23	20.435	1.400	28.612	34.324	18.824	70.38	13.22	54.24	#7 Run
12/6/2007 19:23	20.072	1.400	28.584	34.261	18.843	70.37	13.22	54.23	#7 Run
12/6/2007 19:23	20.078	1.404	28.617	34.194	18.860	70.36	13.22	54.28	#7 Run
12/6/2007 19:23	20.271	1.407	28.633	34.126	18.879	70.34	13.22	54.33	#7 Run
12/6/2007 19:23	20.468	1.410	28.637	34.098	18.903	70.32	13.22	54.33	#7 Run
12/6/2007 19:24	20.576	1.412	28.636	34.069	18.914	70.30	13.22	54.32	#7 Run
12/6/2007 19:24	20.755	1.413	28.638	34.077	18.918	70.29	13.22	54.32	#7 Run
12/6/2007 19:24	20.476	1.414	28.614	34.171	18.896	70.27	13.22	54.30	#7 Run
12/6/2007 19:24	20.155	1.417	28.554	34.256	18.920	70.25	13.22	54.30	#7 Run
12/6/2007 19:24	20.183	1.421	28.542	34.256	18.915	70.24	13.22	54.34	#7 Run
12/6/2007 19:24	20.467	1.419	28.603	34.231	18.898	70.23	13.22	54.33	#7 Run
12/6/2007 19:25	20.764	1.417	28.647	34.185	18.895	70.22	13.22	54.33	#7 Run
12/6/2007 19:25	20.796	1.422	28.679	34.186	18.924	70.21	13.22	54.33	#7 Run
12/6/2007 19:25	20.796	1.421	28.693	34.245	18.913	70.20	13.22	54.37	#7 Run

12/6/2007 19:25	20.557	1.416	28.652	34.291	18.882	70.19	13.22	54.40	#7 Run
12/6/2007 19:25	20.176	1.419	28.647	34.291	18.924	70.18	13.22	54.47	#7 Run
12/6/2007 19:25	20.185	1.415	28.696	34.253	18.902	70.16	13.22	54.51	#7 Run
12/6/2007 19:26	20.466	1.412	28.725	34.178	18.910	70.15	13.22	54.54	#7 Run
12/6/2007 19:26	20.675	1.414	28.709	34.150	18.925	70.14	13.22	54.53	#7 Run
12/6/2007 19:26	20.859	1.415	28.699	34.168	18.910	70.13	13.22	54.50	#7 Run
12/6/2007 19:26	20.732	1.415	28.669	34.178	18.929	70.11	13.22	54.49	#7 Run
12/6/2007 19:26	20.295	1.416	28.666	34.210	18.927	70.11	13.22	54.46	#7 Run
12/6/2007 19:26	20.031	1.415	28.668	34.194	18.929	70.09	13.22	54.45	#7 Run
12/6/2007 19:27	20.084	1.401	28.685	34.107	18.815	70.09	13.22	54.51	#7 Run
12/6/2007 19:27	20.368	1.401	28.709	34.050	18.832	70.07	13.22	54.58	#7 Run
12/6/2007 19:27	20.488	1.406	28.696	34.039	18.870	70.07	13.22	54.60	#7 Run
12/6/2007 19:27	20.830	1.410	28.655	34.049	18.883	70.06	13.22	54.65	#7 Run
12/6/2007 19:27	21.139	1.412	28.612	34.129	18.901	70.05	13.22	54.65	#7 Run
12/6/2007 19:27	20.958	1.414	28.509	34.191	18.918	70.04	13.22	54.65	#7 Run
12/6/2007 19:28	20.655	1.414	28.472	34.231	18.918	70.04	13.22	54.65	#7 Run
12/6/2007 19:28	20.507	1.414	28.499	34.200	18.910	70.02	13.22	54.64	#7 Run
12/6/2007 19:28	20.584	1.404	28.527	34.122	18.857	70.02	13.22	54.67	#7 Run
12/6/2007 19:28	20.777	1.406	28.566	34.081	18.888	70.01	13.22	54.67	#7 Run
12/6/2007 19:28	20.884	1.411	28.621	34.080	18.929	70.00	13.22	54.66	#7 Run
12/6/2007 19:28	20.733	1.408	28.662	34.075	18.894	69.99	13.22	54.70	#7 Run
12/6/2007 19:29	20.375	1.410	28.684	34.042	18.920	69.99	13.22	54.69	#7 Run
12/6/2007 19:29	20.136	1.406	28.626	34.035	18.872	69.98	13.22	54.68	#7 Run
12/6/2007 19:29	20.456	1.405	28.583	34.066	18.889	69.98	13.22	54.71	#7 Run
12/6/2007 19:29	20.763	1.410	28.526	34.105	18.928	69.97	13.22	54.76	#7 Run
12/6/2007 19:29	21.160	1.410	28.477	34.157	18.919	69.96	13.22	54.80	#7 Run
12/6/2007 19:29	21.374	1.398	28.448	34.201	18.859	69.96	13.22	54.81	#7 Run
12/6/2007 19:30	21.075	1.402	28.413	34.191	18.897	69.95	13.22	54.80	#7 Run
12/6/2007 19:30	20.601	1.409	28.379	34.163	18.939	69.94	13.22	54.81	#7 Run
12/6/2007 19:30	20.497	1.409	28.373	34.130	18.927	69.94	13.22	54.83	#7 Run
12/6/2007 19:30	20.671	1.405	28.406	34.101	18.893	69.92	13.22	54.82	#7 Run
12/6/2007 19:30	20.693	1.409	28.457	34.071	18.917	69.90	13.22	54.80	#7 Run
12/6/2007 19:30	20.785	1.411	28.544	34.022	18.931	69.89	13.22	54.81	#7 Run
12/6/2007 19:31	20.796	1.405	28.583	33.953	18.871	69.87	13.22	54.84	#7 Run
12/6/2007 19:31	20.637	1.399	28.491	33.967	18.849	69.85	13.22	54.91	#7 Run
12/6/2007 19:31	20.590	1.404	28.419	34.085	18.889	69.84	13.22	54.90	#7 Run
12/6/2007 19:31	20.669	1.406	28.423	34.145	18.899	69.83	13.22	54.87	#7 Run
12/6/2007 19:31	20.695	1.404	28.434	34.141	18.893	69.81	13.22	54.87	#7 Run
12/6/2007 19:31	20.693	1.413	28.466	34.129	18.946	69.79	13.22	54.89	#7 Run
12/6/2007 19:32	20.695	1.412	28.513	34.098	18.913	69.78	13.22	54.91	#7 Run
12/6/2007 19:32	20.606	1.409	28.595	34.061	18.911	69.77	13.22	54.96	#7 Run
12/6/2007 19:32	20.270	1.412	28.616	34.011	18.925	69.77	13.22	54.99	#7 Run
12/6/2007 19:32	20.112	1.409	28.556	34.014	18.903	69.75	13.22	55.00	#7 Run
12/6/2007 19:32	20.274	1.411	28.529	34.078	18.937	69.74	13.22	55.03	#7 Run
12/6/2007 19:32	20.477	1.411	28.548	34.124	18.935	69.73	13.22	55.03	#7 Run
12/6/2007 19:33	20.860	1.413	28.513	34.166	18.935	69.72	13.22	55.03	#7 Run
12/6/2007 19:33	20.984	1.411	28.429	34.191	18.937	69.71	13.22	55.02	#7 Run
12/6/2007 19:33	20.723	1.411	28.400	34.153	18.923	69.70	13.22	55.07	#7 Run
12/6/2007 19:33	20.272	1.410	28.536	34.079	18.941	69.69	13.22	55.09	#7 Run
12/6/2007 19:33	20.195	1.412	28.617	33.961	18.942	69.68	13.22	55.11	#7 Run
12/6/2007 19:33	20.440	1.409	28.648	33.905	18.914	69.67	13.22	55.12	#7 Run
12/6/2007 19:34	20.675	1.408	28.656	33.919	18.928	69.65	13.22	55.16	#7 Run
12/6/2007 19:34	20.789	1.412	28.630	33.946	18.944	69.64	13.22	55.20	#7 Run
12/6/2007 19:34	20.707	1.408	28.591	33.979	18.924	69.62	13.22	55.26	#7 Run
12/6/2007 19:34	20.154	1.409	28.527	33.996	18.925	69.61	13.22	55.26	#7 Run
12/6/2007 19:34	19.915	1.408	28.480	33.985	18.937	69.60	13.22	55.22	#7 Run
12/6/2007 19:34	20.049	1.407	28.446	33.973	18.911	69.59	13.22	55.24	#7 Run
12/6/2007 19:35	20.367	1.398	28.441	33.992	18.858	69.58	13.22	55.29	#7 Run
12/6/2007 19:35	20.660	1.401	28.469	33.973	18.903	69.57	13.22	55.31	#7 Run
12/6/2007 19:35	20.606	1.406	28.499	33.925	18.947	69.57	13.22	55.30	#7 Run
12/6/2007 19:35	20.415	1.405	28.530	33.916	18.942	69.56	13.22	55.30	#7 Run
12/6/2007 19:35	20.213	1.405	28.537	33.948	18.941	69.55	13.22	55.33	#7 Run
12/6/2007 19:35	20.011	1.394	28.506	33.958	18.851	69.55	13.22	55.35	#7 Run
12/6/2007 19:36	20.070	1.396	28.477	33.921	18.875	69.54	13.22	55.35	#7 Run
12/6/2007 19:36	20.543	1.401	28.429	33.904	18.910	69.54	13.22	55.36	#7 Run
12/6/2007 19:36	20.867	1.405	28.420	33.892	18.947	69.52	13.22	55.35	#7 Run
12/6/2007 19:36	20.989	1.405	28.478	33.893	18.938	69.52	13.22	55.36	#7 Run
12/6/2007 19:36	20.722	1.403	28.487	33.922	18.921	69.52	13.22	55.36	#7 Run
12/6/2007 19:36	20.511	1.401	28.405	33.938	18.893	69.52	13.22	55.37	#7 Run
12/6/2007 19:37	20.673	1.397	28.336	33.929	18.874	69.51	13.22	55.36	#7 Run
12/6/2007 19:37	20.937	1.402	28.265	33.931	18.920	69.50	13.22	55.35	#7 Run
12/6/2007 19:37	21.093	1.404	28.246	33.981	18.895	69.50	13.22	55.34	#7 Run
12/6/2007 19:37	21.100	1.389	28.340	33.996	18.809	69.50	13.22	55.32	#7 Run
12/6/2007 19:37	21.096	1.394	28.361	34.023	18.847	69.49	13.22	55.35	#7 Run

12/6/2007 19:37	21.008	1.398	28.267	34.054	18.880	69.48	13.22	55.38	#7 Run
12/6/2007 19:38	20.905	1.402	28.181	34.044	18.901	69.49	13.22	55.37	#7 Run
12/6/2007 19:38	21.075	1.405	28.181	34.025	18.922	69.48	13.22	55.35	#7 Run
12/6/2007 19:38	21.181	1.407	28.221	34.012	18.934	69.48	13.22	55.34	#7 Run
12/6/2007 19:38	21.379	1.408	28.301	33.972	18.940	69.49	13.22	55.34	#7 Run
12/6/2007 19:38	21.396	1.410	28.338	33.902	18.945	69.50	13.22	55.37	#7 Run
12/6/2007 19:38	21.396	1.410	28.333	33.896	18.950	69.50	13.22	55.38	#7 Run
12/6/2007 19:39	21.127	1.412	28.328	33.995	18.960	69.50	13.22	55.39	#7 Run
12/6/2007 19:39	20.734	1.410	28.298	34.060	18.956	69.49	13.22	55.37	#7 Run
12/6/2007 19:39	20.780	1.400	28.252	34.085	18.844	69.48	13.22	55.38	#7 Run
12/6/2007 19:39	21.139	1.393	28.187	34.076	18.845	69.47	13.22	55.41	#7 Run
12/6/2007 19:39	21.562	1.397	28.130	34.046	18.886	69.46	13.22	55.42	#7 Run
12/6/2007 19:39	21.964	1.400	28.066	34.007	18.912	69.44	13.22	55.44	#7 Run
12/6/2007 19:40	22.001	1.401	28.021	33.937	18.933	69.44	13.22	55.46	#7 Run
12/6/2007 19:40	21.819	1.404	27.990	33.864	18.946	69.43	13.22	55.48	#7 Run
12/6/2007 19:40	21.166	1.405	28.004	33.796	18.965	69.42	13.22	55.52	#7 Run
12/6/2007 19:40	20.915	1.396	28.144	33.749	18.878	69.42	13.22	55.52	#7 Run
12/6/2007 19:40	20.982	1.400	28.205	33.801	18.911	69.42	13.22	55.55	#7 Run
12/6/2007 19:40	21.358	1.405	28.155	33.864	18.959	69.42	13.22	55.58	#7 Run
12/6/2007 19:41	21.664	1.397	28.109	33.881	18.870	69.43	13.22	55.59	#7 Run
12/6/2007 19:41	21.517	1.391	28.093	33.889	18.846	69.44	13.22	55.61	#7 Run
12/6/2007 19:41	21.047	1.397	28.107	33.900	18.881	69.44	13.22	55.64	#7 Run
12/6/2007 19:41	20.634	1.403	28.186	33.879	18.905	69.44	13.22	55.66	#7 Run
12/6/2007 19:41	20.594	1.406	28.266	33.880	18.928	69.44	13.22	55.66	#7 Run
12/6/2007 19:41	20.683	1.409	28.327	33.884	18.954	69.42	13.22	55.69	#7 Run
12/6/2007 19:42	20.688	1.405	28.360	33.902	18.903	69.41	13.22	55.70	#7 Run
12/6/2007 19:42	20.873	1.399	28.362	33.920	18.886	69.40	13.22	55.74	#7 Run
12/6/2007 19:42	20.983	1.403	28.361	33.884	18.921	69.39	13.22	55.79	#7 Run
12/6/2007 19:42	20.812	1.408	28.363	33.840	18.935	69.38	13.22	55.78	#7 Run
12/6/2007 19:42	20.702	1.405	28.336	33.813	18.908	69.36	13.22	55.74	#7 Run
12/6/2007 19:42	20.967	1.397	28.267	33.800	18.867	69.35	13.22	55.75	#7 Run
12/6/2007 19:43	21.265	1.401	28.201	33.833	18.906	69.32	13.22	55.81	#7 Run
12/6/2007 19:43	21.652	1.400	28.156	33.865	18.883	69.30	13.22	55.83	#7 Run
12/6/2007 19:43	21.787	1.403	28.133	33.881	18.922	69.26	13.22	55.83	#7 Run
12/6/2007 19:43	21.617	1.408	28.168	33.902	18.949	69.23	13.22	55.82	#7 Run
12/6/2007 19:43	21.058	1.407	28.211	33.966	18.939	69.19	13.22	55.83	#7 Run
12/6/2007 19:43	20.902	1.406	28.212	34.036	18.925	69.17	13.22	55.83	#7 Run
12/6/2007 19:44	21.163	1.404	28.184	34.064	18.927	69.13	13.22	55.84	#7 Run
12/6/2007 19:44	21.286	1.404	28.111	34.070	18.900	69.10	13.22	55.88	#7 Run
12/6/2007 19:44	21.386	1.389	28.055	34.046	18.809	69.08	13.22	55.89	#7 Run
12/6/2007 19:44	21.484	1.394	28.057	34.027	18.846	69.06	13.22	55.88	#7 Run
12/6/2007 19:44	21.223	1.400	28.073	34.028	18.876	69.04	13.22	55.88	#7 Run
12/6/2007 19:44	20.923	1.402	28.134	33.999	18.898	69.02	13.22	55.89	#7 Run
12/6/2007 19:45	20.803	1.404	28.189	33.905	18.925	68.99	13.22	55.90	#7 Run
12/6/2007 19:45	20.884	1.407	28.221	33.833	18.939	68.98	13.22	55.90	#7 Run
12/6/2007 19:45	20.895	1.408	28.267	33.862	18.958	68.96	13.22	55.89	#7 Run
12/6/2007 19:45	20.894	1.403	28.313	33.886	18.915	68.95	13.22	55.91	#7 Run
12/6/2007 19:45	21.168	1.404	28.273	33.901	18.957	68.93	13.22	55.94	#7 Run
12/6/2007 19:45	20.926	1.404	28.133	33.924	18.955	68.92	13.22	55.96	#7 Run
12/6/2007 19:46	20.802	1.393	28.033	33.886	18.872	68.91	13.22	55.98	#7 Run
12/6/2007 19:46	20.886	1.391	28.082	33.802	18.862	68.89	13.22	56.00	#7 Run
12/6/2007 19:46	20.983	1.395	28.143	33.752	18.898	68.87	13.22	56.02	#7 Run
12/6/2007 19:46	21.084	1.399	28.218	33.710	18.931	68.84	13.22	56.07	#7 Run
12/6/2007 19:46	21.364	1.403	28.248	33.651	18.950	68.81	13.22	56.08	#7 Run
12/6/2007 19:46	21.126	1.400	28.199	33.643	18.920	68.80	13.22	56.11	#7 Run
12/6/2007 19:47	20.644	1.401	28.181	33.686	18.928	68.78	13.22	56.14	#7 Run
12/6/2007 19:47	20.502	1.403	28.175	33.729	18.941	68.76	13.22	56.16	#7 Run
12/6/2007 19:47	20.670	1.396	28.167	33.824	18.872	68.74	13.22	56.19	#7 Run
12/6/2007 19:47	20.873	1.399	28.123	33.870	18.899	68.70	13.22	56.22	#7 Run
12/6/2007 19:47	21.076	1.404	28.127	33.837	18.932	68.67	13.22	56.25	#7 Run
12/6/2007 19:47	21.095	1.400	28.216	33.820	18.916	68.64	13.22	56.25	#7 Run
12/6/2007 19:48	20.638	1.403	28.303	33.821	18.947	68.62	13.22	56.23	#7 Run
12/6/2007 19:48	20.138	1.401	28.378	33.820	18.920	68.60	13.22	56.25	#7 Run
12/6/2007 19:48	20.183	1.398	28.425	33.819	18.912	68.58	13.22	56.26	#7 Run
12/6/2007 19:48	20.554	1.403	28.412	33.802	18.939	68.54	13.22	56.28	#7 Run
12/6/2007 19:48	20.862	1.402	28.369	33.750	18.945	68.51	13.22	56.34	#7 Run
12/6/2007 19:48	20.982	1.401	28.319	33.733	18.935	68.49	13.22	56.39	#7 Run
12/6/2007 19:49	20.809	1.396	28.313	33.733	18.915	68.47	13.22	56.40	#7 Run
12/6/2007 19:49	20.340	1.400	28.350	33.725	18.944	68.45	13.22	56.43	#7 Run
12/6/2007 19:49	20.112	1.399	28.390	33.695	18.914	68.43	13.22	56.46	#7 Run
12/6/2007 19:49	20.269	1.384	28.384	33.684	18.823	68.42	13.22	56.43	#7 Run
12/6/2007 19:49	20.384	1.388	28.364	33.718	18.855	68.40	13.22	56.42	#7 Run
12/6/2007 19:49	20.482	1.392	28.351	33.740	18.887	68.38	13.22	56.43	#7 Run
12/6/2007 19:50	20.583	1.393	28.320	33.734	18.910	68.36	13.22	56.44	#7 Run

12/6/2007 19:50	20.589	1.392	28.303	33.738	18.929	68.35	13.22	56.46	#7 Run
12/6/2007 19:50	20.233	1.395	28.279	33.736	18.947	68.34	13.22	56.44	#7 Run
12/6/2007 19:50	20.010	1.395	28.220	33.734	18.951	68.33	13.22	56.43	#7 Run
12/6/2007 19:50	20.172	1.390	28.150	33.735	18.909	68.33	13.22	56.42	#7 Run
12/6/2007 19:50	20.373	1.394	28.164	33.735	18.939	68.32	13.22	56.42	#7 Run
12/6/2007 19:51	20.660	1.398	28.193	33.724	18.966	68.32	13.22	56.43	#7 Run
12/6/2007 19:51	20.690	1.397	28.230	33.718	18.963	68.30	13.22	56.47	#7 Run
12/6/2007 19:51	20.513	1.398	28.246	33.736	18.954	68.30	13.22	56.48	#7 Run
12/6/2007 19:51	20.133	1.403	28.243	33.736	18.960	68.30	13.22	56.48	#7 Run
12/6/2007 19:51	20.093	1.403	28.254	33.735	18.960	68.29	13.22	56.47	#7 Run
12/6/2007 19:51	20.272	1.401	28.301	33.718	18.945	68.28	13.22	56.46	#7 Run
12/6/2007 19:52	20.384	1.393	28.331	33.674	18.900	68.28	13.22	56.46	#7 Run
12/6/2007 19:52	20.662	1.399	28.317	33.699	18.935	68.28	13.22	56.47	#7 Run
12/6/2007 19:52	20.786	1.387	28.265	33.759	18.836	68.27	13.22	56.49	#7 Run
12/6/2007 19:52	20.521	1.389	28.163	33.803	18.866	68.27	13.22	56.48	#7 Run
12/6/2007 19:52	20.308	1.394	28.099	33.812	18.897	68.27	13.22	56.49	#7 Run
12/6/2007 19:52	20.385	1.398	28.127	33.785	18.923	68.26	13.22	56.53	#7 Run
12/6/2007 19:53	20.484	1.401	28.165	33.747	18.952	68.25	13.22	56.52	#7 Run
12/6/2007 19:53	20.582	1.399	28.197	33.683	18.922	68.24	13.22	56.52	#7 Run
12/6/2007 19:53	20.775	1.399	28.199	33.619	18.936	68.24	13.22	56.53	#7 Run
12/6/2007 19:53	20.885	1.402	28.169	33.572	18.958	68.24	13.22	56.55	#7 Run
12/6/2007 19:53	20.623	1.402	28.137	33.548	18.955	68.23	13.22	56.56	#7 Run
12/6/2007 19:53	20.686	1.400	28.100	33.530	18.929	68.22	13.22	56.57	#7 Run
12/6/2007 19:54	20.964	1.383	28.031	33.546	18.820	68.22	13.22	56.58	#7 Run
12/6/2007 19:54	21.358	1.385	27.940	33.590	18.849	68.21	13.22	56.60	#7 Run
12/6/2007 19:54	21.577	1.391	27.916	33.578	18.880	68.20	13.22	56.61	#7 Run
12/6/2007 19:54	21.419	1.396	27.969	33.561	18.902	68.19	13.22	56.60	#7 Run
12/6/2007 19:54	21.128	1.396	27.984	33.581	18.918	68.18	13.22	56.62	#7 Run
12/6/2007 19:54	20.915	1.397	27.935	33.626	18.935	68.18	13.22	56.63	#7 Run
12/6/2007 19:55	20.988	1.397	27.917	33.655	18.950	68.18	13.22	56.63	#7 Run
12/6/2007 19:55	21.087	1.399	27.914	33.649	18.929	68.18	13.22	56.64	#7 Run
12/6/2007 19:55	21.277	1.391	27.890	33.607	18.885	68.17	13.22	56.63	#7 Run
12/6/2007 19:55	21.660	1.393	27.848	33.586	18.917	68.16	13.22	56.63	#7 Run
12/6/2007 19:55	21.698	1.396	27.853	33.584	18.950	68.15	13.22	56.63	#7 Run
12/6/2007 19:55	21.247	1.399	27.920	33.583	18.957	68.15	13.22	56.63	#7 Run
12/6/2007 19:56	20.833	1.392	27.959	33.583	18.883	68.14	13.22	56.65	#7 Run
12/6/2007 19:56	20.987	1.387	27.934	33.606	18.870	68.13	13.22	56.66	#7 Run
12/6/2007 19:56	21.191	1.395	27.954	33.641	18.913	68.12	13.22	56.66	#7 Run
12/6/2007 19:56	21.013	1.397	28.066	33.634	18.946	68.11	13.22	56.66	#7 Run
12/6/2007 19:56	21.265	1.399	28.130	33.630	18.950	68.09	13.22	56.65	#7 Run
12/6/2007 19:56	21.205	1.398	28.162	33.621	18.940	68.08	13.22	56.68	#7 Run
12/6/2007 19:57	20.739	1.399	28.173	33.563	18.953	68.05	13.22	56.70	#7 Run
12/6/2007 19:57	20.424	1.402	28.140	33.516	18.947	68.03	13.22	56.70	#7 Run
12/6/2007 19:57	20.500	1.397	28.123	33.488	18.920	68.01	13.22	56.69	#7 Run
12/6/2007 19:57	20.691	1.399	28.122	33.490	18.943	68.00	13.22	56.68	#7 Run
12/6/2007 19:57	20.781	1.394	28.147	33.534	18.892	67.99	13.22	56.67	#7 Run
12/6/2007 19:57	20.788	1.395	28.195	33.568	18.915	67.99	13.22	56.68	#7 Run
12/6/2007 19:58	20.700	1.401	28.214	33.596	18.928	68.00	13.22	56.68	#7 Run
12/6/2007 19:58	20.514	1.396	28.229	33.632	18.886	68.00	13.22	56.70	#7 Run
12/6/2007 19:58	20.310	1.402	28.219	33.670	18.920	68.00	13.22	56.71	#7 Run
12/6/2007 19:58	20.484	1.400	28.173	33.731	18.899	68.00	13.22	56.75	#7 Run
12/6/2007 19:58	20.591	1.389	28.149	33.782	18.833	68.00	13.22	56.73	#7 Run
12/6/2007 19:58	20.680	1.393	28.152	33.823	18.863	67.99	13.22	56.73	#7 Run
12/6/2007 19:59	20.783	1.395	28.177	33.814	18.879	67.97	13.22	56.76	#7 Run
12/6/2007 19:59	20.701	1.396	28.226	33.787	18.896	67.96	13.22	56.79	#7 Run
12/6/2007 19:59	20.241	1.398	28.267	33.753	18.912	67.95	13.22	56.77	#7 Run
12/6/2007 19:59	20.012	1.401	28.325	33.702	18.932	67.94	13.22	56.78	#7 Run
12/6/2007 19:59	20.193	1.400	28.364	33.621	18.896	67.91	13.22	56.85	#7 Run
12/6/2007 19:59	20.395	1.385	28.363	33.600	18.821	67.90	13.22	56.92	#7 Run
12/6/2007 20:00	20.486	1.393	28.325	33.631	18.862	67.89	13.22	56.96	#7 Run
12/6/2007 20:00	20.668	1.395	28.238	33.661	18.882	67.88	13.22	56.98	#7 Run
12/6/2007 20:00	20.508	1.396	28.170	33.698	18.904	67.87	13.22	56.99	#7 Run
12/6/2007 20:00	20.133	1.399	28.129	33.724	18.926	67.87	13.22	57.00	#7 Run
12/6/2007 20:00	20.003	1.402	28.129	33.691	18.946	67.86	13.22	56.99	#7 Run
12/6/2007 20:00	20.284	1.404	28.211	33.651	18.951	67.86	13.22	56.96	#7 Run
12/6/2007 20:01	20.502	1.400	28.272	33.609	18.925	67.84	13.22	56.95	#7 Run
12/6/2007 20:01	20.588	1.400	28.263	33.581	18.933	67.83	13.22	56.95	#7 Run
12/6/2007 20:01	20.681	1.400	28.261	33.548	18.946	67.81	13.22	56.95	#7 Run
12/6/2007 20:01	20.336	1.401	28.277	33.547	18.954	67.80	13.22	56.95	#7 Run
12/6/2007 20:01	19.932	1.393	28.274	33.569	18.855	67.79	13.22	56.96	#7 Run
12/6/2007 20:01	20.253	1.386	28.263	33.614	18.835	67.78	13.22	56.98	#7 Run
12/6/2007 20:02	20.660	1.392	28.232	33.659	18.869	67.77	13.22	56.98	#7 Run
12/6/2007 20:02	20.802	1.394	28.198	33.686	18.896	67.76	13.22	57.01	#7 Run
12/6/2007 20:02	20.893	1.397	28.192	33.699	18.923	67.75	13.22	57.04	#7 Run

12/6/2007 20:02	20.896	1.400	28.206	33.678	18.951	67.74	13.22	57.05	#7 Run
12/6/2007 20:02	20.621	1.398	28.178	33.691	18.941	67.73	13.22	57.06	#7 Run
12/6/2007 20:02	20.325	1.399	28.074	33.707	18.956	67.72	13.22	57.06	#7 Run
12/6/2007 20:03	20.474	1.398	28.025	33.708	18.950	67.71	13.22	57.04	#7 Run
12/6/2007 20:03	20.785	1.385	28.073	33.694	18.842	67.69	13.22	57.04	#7 Run
12/6/2007 20:03	20.994	1.387	28.082	33.667	18.871	67.68	13.22	57.06	#7 Run
12/6/2007 20:03	20.993	1.390	28.048	33.655	18.895	67.68	13.22	57.05	#7 Run
12/6/2007 20:03	20.814	1.394	28.029	33.690	18.919	67.66	13.22	57.07	#7 Run
12/6/2007 20:03	20.519	1.397	28.047	33.697	18.931	67.65	13.22	57.07	#7 Run
12/6/2007 20:04	20.402	1.390	28.088	33.652	18.870	67.63	13.22	57.11	#7 Run
12/6/2007 20:04	20.392	1.392	28.145	33.619	18.883	67.62	13.22	57.12	#7 Run
12/6/2007 20:04	20.493	1.394	28.181	33.617	18.902	67.60	13.22	57.12	#7 Run
12/6/2007 20:04	20.611	1.395	28.182	33.608	18.923	67.59	13.22	57.14	#7 Run
12/6/2007 20:04	20.790	1.397	28.184	33.583	18.946	67.57	13.22	57.15	#7 Run
12/6/2007 20:04	20.790	1.393	28.183	33.563	18.899	67.56	13.22	57.17	#7 Run
12/6/2007 20:05	20.431	1.397	28.174	33.518	18.929	67.54	13.22	57.17	#7 Run
12/6/2007 20:05	20.297	1.390	28.142	33.514	18.872	67.54	13.22	57.16	#7 Run
12/6/2007 20:05	20.467	1.394	28.134	33.555	18.906	67.53	13.22	57.16	#7 Run
12/6/2007 20:05	20.678	1.397	28.164	33.586	18.940	67.51	13.22	57.16	#7 Run
12/6/2007 20:05	20.779	1.400	28.168	33.599	18.958	67.50	13.22	57.17	#7 Run
12/6/2007 20:05	20.678	1.400	28.142	33.629	18.965	67.49	13.22	57.17	#7 Run
12/6/2007 20:06	20.503	1.393	28.108	33.644	18.915	67.47	13.22	57.16	#7 Run
12/6/2007 20:06	20.312	1.397	28.082	33.649	18.945	67.45	13.22	57.16	#7 Run
12/6/2007 20:06	20.199	1.394	28.062	33.638	18.901	67.45	13.22	57.17	#7 Run
12/6/2007 20:06	20.465	1.388	28.050	33.620	18.862	67.43	13.22	57.19	#7 Run
12/6/2007 20:06	20.691	1.392	28.031	33.620	18.907	67.42	13.22	57.24	#7 Run
12/6/2007 20:06	20.928	1.398	28.031	33.613	18.945	67.41	13.22	57.25	#7 Run
12/6/2007 20:07	21.300	1.400	28.021	33.578	18.950	67.41	13.22	57.23	#7 Run
12/6/2007 20:07	21.390	1.386	27.989	33.550	18.824	67.39	13.22	57.23	#7 Run
12/6/2007 20:07	21.212	1.385	27.953	33.520	18.838	67.39	13.22	57.27	#7 Run
12/6/2007 20:07	21.192	1.389	27.895	33.536	18.874	67.38	13.22	57.27	#7 Run
12/6/2007 20:07	21.375	1.394	27.870	33.613	18.902	67.37	13.22	57.25	#7 Run
12/6/2007 20:07	21.392	1.396	27.899	33.637	18.926	67.36	13.22	57.24	#7 Run
12/6/2007 20:08	21.396	1.400	27.920	33.609	18.948	67.36	13.22	57.25	#7 Run
12/6/2007 20:08	21.375	1.399	27.917	33.587	18.947	67.34	13.22	57.24	#7 Run
12/6/2007 20:08	21.198	1.400	27.937	33.578	18.956	67.32	13.22	57.25	#7 Run
12/6/2007 20:08	20.742	1.400	27.995	33.558	18.966	67.31	13.22	57.24	#7 Run
12/6/2007 20:08	20.332	1.392	28.043	33.559	18.907	67.30	13.22	57.24	#7 Run
12/6/2007 20:08	20.291	1.394	28.070	33.560	18.938	67.28	13.22	57.24	#7 Run
12/6/2007 20:09	20.674	1.386	28.081	33.564	18.863	67.26	13.22	57.24	#7 Run
12/6/2007 20:09	20.890	1.381	28.054	33.546	18.868	67.24	13.22	57.23	#7 Run
12/6/2007 20:09	20.860	1.385	28.022	33.478	18.903	67.23	13.22	57.23	#7 Run
12/6/2007 20:09	20.592	1.388	28.004	33.444	18.929	67.22	13.22	57.23	#7 Run
12/6/2007 20:09	20.415	1.390	27.999	33.456	18.946	67.20	13.22	57.22	#7 Run
12/6/2007 20:09	20.299	1.391	28.000	33.462	18.925	67.19	13.22	57.22	#7 Run
12/6/2007 20:10	20.302	1.376	28.015	33.433	18.832	67.17	13.22	57.23	#7 Run
12/6/2007 20:10	20.424	1.381	28.041	33.415	18.869	67.16	13.22	57.26	#7 Run
12/6/2007 20:10	20.679	1.384	28.078	33.417	18.899	67.15	13.22	57.27	#7 Run
12/6/2007 20:10	20.563	1.390	28.095	33.405	18.928	67.14	13.22	57.27	#7 Run
12/6/2007 20:10	20.284	1.393	28.094	33.383	18.952	67.14	13.22	57.27	#7 Run
12/6/2007 20:10	20.009	1.395	28.086	33.385	18.968	67.13	13.22	57.25	#7 Run
12/6/2007 20:11	20.075	1.382	28.079	33.374	18.852	67.13	13.22	57.24	#7 Run
12/6/2007 20:11	20.188	1.380	28.094	33.366	18.868	67.12	13.22	57.25	#7 Run
12/6/2007 20:11	20.320	1.386	28.091	33.396	18.896	67.12	13.22	57.28	#7 Run
12/6/2007 20:11	20.595	1.390	28.088	33.417	18.925	67.12	13.22	57.28	#7 Run
12/6/2007 20:11	20.666	1.393	28.067	33.411	18.950	67.12	13.22	57.28	#7 Run
12/6/2007 20:11	20.477	1.389	28.009	33.426	18.923	67.11	13.22	57.30	#7 Run
12/6/2007 20:12	20.301	1.393	27.961	33.454	18.951	67.11	13.22	57.34	#7 Run
12/6/2007 20:12	20.385	1.397	27.937	33.468	18.964	67.11	13.22	57.34	#7 Run
12/6/2007 20:12	20.404	1.395	27.935	33.459	18.964	67.12	13.22	57.36	#7 Run
12/6/2007 20:12	20.499	1.399	27.995	33.453	18.959	67.11	13.22	57.35	#7 Run
12/6/2007 20:12	20.579	1.398	28.047	33.472	18.941	67.10	13.22	57.34	#7 Run
12/6/2007 20:12	20.461	1.398	28.071	33.468	18.923	67.10	13.22	57.35	#7 Run
12/6/2007 20:13	20.176	1.381	28.105	33.472	18.804	67.09	13.22	57.35	#7 Run
12/6/2007 20:13	20.092	1.383	28.136	33.458	18.828	67.08	13.22	57.36	#7 Run
12/6/2007 20:13	20.365	1.388	28.114	33.453	18.858	67.08	13.22	57.33	#7 Run
12/6/2007 20:13	20.970	1.391	28.024	33.496	18.884	67.07	13.22	57.33	#7 Run
12/6/2007 20:13	21.404	1.392	27.920	33.546	18.901	67.07	13.22	57.34	#7 Run
12/6/2007 20:13	21.453	1.392	27.807	33.596	18.912	67.06	13.22	57.36	#7 Run
12/6/2007 20:14	21.035	1.394	27.796	33.649	18.923	67.07	13.22	57.37	#7 Run
12/6/2007 20:14	20.501	1.394	27.950	33.602	18.940	67.06	13.22	57.40	#7 Run
12/6/2007 20:14	20.594	1.394	28.034	33.500	18.952	67.06	13.22	57.42	#7 Run
12/6/2007 20:14	20.588	1.396	28.031	33.431	18.968	67.06	13.22	57.41	#7 Run
12/6/2007 20:14	20.680	1.396	28.038	33.402	18.956	67.05	13.22	57.41	#7 Run

12/6/2007 20:14	20.681	1.394	28.074	33.386	18.955	67.05	13.22	57.41	#7 Run
12/6/2007 20:15	20.552	1.396	28.054	33.399	18.954	67.05	13.22	57.41	#7 Run
12/6/2007 20:15	20.175	1.389	27.966	33.425	18.890	67.04	13.22	57.43	#7 Run
12/6/2007 20:15	20.010	1.390	27.952	33.433	18.924	67.04	13.22	57.45	#7 Run
12/6/2007 20:15	20.192	1.390	28.025	33.401	18.909	67.04	13.22	57.48	#7 Run
12/6/2007 20:15	20.375	1.391	28.062	33.374	18.922	67.04	13.22	57.51	#7 Run
12/6/2007 20:15	20.611	1.392	28.072	33.339	18.916	67.04	13.22	57.52	#7 Run
12/6/2007 20:16	20.984	1.393	28.051	33.316	18.953	67.03	13.22	57.53	#7 Run
12/6/2007 20:16	20.874	1.382	27.977	33.305	18.855	67.02	13.22	57.52	#7 Run
12/6/2007 20:16	20.694	1.383	27.920	33.334	18.869	67.01	13.22	57.55	#7 Run
12/6/2007 20:16	20.700	1.387	27.860	33.388	18.904	67.01	13.22	57.57	#7 Run
12/6/2007 20:16	20.811	1.392	27.830	33.466	18.939	67.00	13.22	57.59	#7 Run
12/6/2007 20:16	20.981	1.393	27.819	33.488	18.942	66.99	13.22	57.61	#7 Run
12/6/2007 20:17	21.495	1.379	27.778	33.464	18.822	66.97	13.22	57.62	#7 Run
12/6/2007 20:17	22.039	1.381	27.729	33.446	18.850	66.96	13.22	57.63	#7 Run
12/6/2007 20:17	22.370	1.385	27.644	33.457	18.881	66.94	13.22	57.65	#7 Run
12/6/2007 20:17	22.171	1.387	27.459	33.469	18.897	66.93	13.22	57.65	#7 Run
12/6/2007 20:17	22.895	1.390	27.265	33.471	18.915	66.92	13.22	57.66	#7 Run
12/6/2007 20:17	23.769	1.392	27.061	33.469	18.938	66.91	13.22	57.67	#7 Run
12/6/2007 20:18	24.098	1.391	27.016	33.435	18.924	66.90	13.22	57.67	#7 Run
12/6/2007 20:18	23.775	1.392	27.207	33.412	18.928	66.89	13.22	57.70	#7 Run
12/6/2007 20:18	23.115	1.394	27.382	33.461	18.956	66.89	13.22	57.72	#7 Run
12/6/2007 20:18	22.240	1.393	27.464	33.512	18.919	66.88	13.22	57.71	#7 Run
12/6/2007 20:18	21.705	1.394	27.476	33.556	18.962	66.88	13.22	57.70	#7 Run
Average	**20.751**	**1.400**	**28.253**	**33.811**	**18.907**	**66.681**	**13.221**	**56.010**	
12/6/2007 20:23	26.336	-0.031	0.488	1.253	0.166	66.80	13.22	57.95	CO Upscale Bias
12/6/2007 20:24	26.394	-0.032	0.477	1.206	0.157	66.79	13.22	57.98	CO Upscale Bias
12/6/2007 20:24	26.176	-0.033	0.450	1.165	0.154	66.79	13.22	57.99	CO Upscale Bias
12/6/2007 20:24	25.806	-0.033	0.420	1.121	0.149	66.79	13.22	58.02	CO Upscale Bias
12/6/2007 20:24	25.714	-0.033	0.400	1.095	0.145	66.79	13.22	58.04	CO Upscale Bias
12/6/2007 20:24	25.756	-0.035	0.389	1.058	0.141	66.78	13.22	58.05	CO Upscale Bias
12/6/2007 20:24	26.175	-0.035	0.369	1.022	0.139	66.79	13.22	58.05	CO Upscale Bias
Average	**26.051**	**-0.033**	**0.428**	**1.131**	**0.150**				
12/6/2007 20:32	0.318	-0.046	52.232	50.284	0.003	66.69	13.22	58.74	NOx Upscale Bias
12/6/2007 20:32	0.238	-0.046	52.195	50.357	0.003	66.69	13.22	58.74	NOx Upscale Bias
12/6/2007 20:32	0.259	-0.046	52.109	50.424	0.003	66.69	13.22	58.74	NOx Upscale Bias
12/6/2007 20:32	0.434	-0.047	52.053	50.485	0.003	66.69	13.22	58.75	NOx Upscale Bias
12/6/2007 20:32	0.457	-0.046	52.068	50.497	0.002	66.68	13.22	58.78	NOx Upscale Bias
12/6/2007 20:33	0.517	-0.048	52.133	50.421	0.000	66.69	13.22	58.80	NOx Upscale Bias
12/6/2007 20:33	0.400	-0.047	52.211	50.317	0.001	66.69	13.22	58.83	NOx Upscale Bias
Average	**0.375**	**-0.047**	**52.143**	**50.398**	**0.002**				
12/6/2007 20:38	-0.371	12.765	0.233	0.518	12.375	66.72	13.23	58.90	O2 Upscale Bias
12/6/2007 20:38	-0.372	12.967	0.204	0.479	12.492	66.72	13.23	58.92	O2 Upscale Bias
12/6/2007 20:38	-0.393	13.088	0.185	0.427	12.544	66.73	13.22	58.95	O2 Upscale Bias
12/6/2007 20:39	-0.491	13.157	0.171	0.399	12.588	66.73	13.23	58.96	O2 Upscale Bias
12/6/2007 20:39	-0.574	13.208	0.151	0.374	12.537	66.74	13.23	58.97	O2 Upscale Bias
12/6/2007 20:39	-0.557	13.240	0.142	0.343	12.325	66.74	13.23	58.96	O2 Upscale Bias
12/6/2007 20:39	-0.473	13.256	0.124	0.326	12.330	66.74	13.23	58.95	O2 Upscale Bias
12/6/2007 20:40	-0.443	12.566	0.122	0.293	12.068	66.76	13.22	59.01	O2 Upscale Bias
12/6/2007 20:40	-0.347	12.546	0.138	0.291	12.062	66.76	13.22	58.99	O2 Upscale Bias
12/6/2007 20:41	-0.271	12.530	0.156	0.296	12.050	66.76	13.23	59.01	O2 Upscale Bias
12/6/2007 20:41	-0.308	12.522	0.157	0.296	12.048	66.76	13.23	59.01	O2 Upscale Bias
12/6/2007 20:41	-0.490	12.526	0.155	0.298	12.051	66.76	13.22	58.99	O2 Upscale Bias
12/6/2007 20:41	-0.579	12.519	0.155	0.295	12.048	66.77	13.22	58.99	O2 Upscale Bias
12/6/2007 20:41	-0.556	12.517	0.159	0.293	12.050	66.77	13.23	59.00	O2 Upscale Bias
Average	**-0.444**	**12.815**	**0.161**	**0.352**	**12.255**				

Manual Data

Test Notes

ChanName	co	co2	no1	nox	o2	ambient	barometric	humidity
CalDate	39421.542	39421.542	39421.542	39421.542	39421.542	39421.54	39421.54	39421.54
Coeff_0	-25.039	-7.070	-25.984	-24.478	-6.451	-49.00	-7.50	-25.00
Coeff_1	6371.501	1847.896	6547.803	6107.772	1628.405	11250.00	1875.00	6250.00
Coeff_2	-6903.005	-13080.270	-13132.650	6546.075	-2896.609	0.00	0.00	0.00

EPNG Vail UNIT A-2

TimeStamp	co	co2	no1	nox	o2	ambient	barometric	humidity	run_name
12/7/2007 7:10	0.095	-0.083	0.040	-0.003	-0.029	61.32	13.22	63.98	Zero Cal Check
12/7/2007 7:10	0.096	-0.082	0.042	-0.005	-0.029	61.31	13.22	63.97	Zero Cal Check
12/7/2007 7:10	0.014	-0.082	0.041	-0.003	-0.030	61.32	13.22	63.96	Zero Cal Check
12/7/2007 7:10	-0.144	-0.082	0.043	-0.007	-0.031	61.31	13.22	63.95	Zero Cal Check
12/7/2007 7:11	-0.161	-0.082	0.045	-0.002	-0.030	61.32	13.22	63.96	Zero Cal Check
12/7/2007 7:11	-0.064	-0.082	0.041	-0.004	-0.032	61.32	13.22	63.99	Zero Cal Check
12/7/2007 7:11	-0.003	-0.082	0.046	-0.004	-0.031	61.32	13.22	64.02	Zero Cal Check
Average	**-0.024**	**-0.082**	**0.042**	**-0.004**	**-0.030**				
12/7/2007 7:25	50.784	21.380	100.830	100.403	20.972	61.65	13.22	56.61	Span Cal Check
12/7/2007 7:25	50.885	21.383	100.826	100.344	20.972	61.64	13.22	56.70	Span Cal Check
12/7/2007 7:25	50.885	21.383	100.856	100.258	20.972	61.64	13.22	56.84	Span Cal Check
12/7/2007 7:25	50.688	21.385	100.886	100.429	20.974	61.64	13.22	57.01	Span Cal Check
12/7/2007 7:25	50.533	21.386	100.722	100.692	20.976	61.63	13.22	57.15	Span Cal Check
12/7/2007 7:26	50.573	21.391	100.519	100.823	20.975	61.62	13.22	57.30	Span Cal Check
12/7/2007 7:26	50.672	21.391	100.627	100.834	20.976	61.62	13.22	57.45	Span Cal Check
Average	**50.717**	**21.386**	**100.752**	**100.540**	**20.974**				
12/7/2007 7:41	50.091	11.746	50.711	52.139	11.860	61.34	13.22	61.81	Mid Cal Check
12/7/2007 7:41	50.184	11.745	50.706	52.140	11.859	61.33	13.22	61.81	Mid Cal Check
12/7/2007 7:41	50.281	11.747	50.733	52.107	11.859	61.33	13.22	61.81	Mid Cal Check
12/7/2007 7:41	50.379	11.745	50.769	51.894	11.859	61.32	13.22	61.78	Mid Cal Check
12/7/2007 7:41	50.333	11.746	50.846	51.665	11.857	61.31	13.22	61.76	Mid Cal Check
12/7/2007 7:42	50.032	11.749	50.910	51.694	11.857	61.30	13.22	61.74	Mid Cal Check
12/7/2007 7:42	49.768	11.746	50.836	51.797	11.857	61.30	13.22	61.70	Mid Cal Check
Average	**50.153**	**11.746**	**50.787**	**51.919**	**11.858**				
12/7/2007 7:53	25.358	5.648	24.305	25.884	5.604	61.20	13.23	62.60	Low Cal Check
12/7/2007 7:53	25.310	5.647	24.363	25.895	5.602	61.21	13.23	62.61	Low Cal Check
12/7/2007 7:53	25.469	5.650	24.336	25.950	5.599	61.20	13.23	62.62	Low Cal Check
12/7/2007 7:54	25.631	5.648	24.304	25.962	5.601	61.21	13.23	62.63	Low Cal Check
12/7/2007 7:54	25.772	5.648	24.327	25.934	5.601	61.21	13.23	62.65	Low Cal Check
12/7/2007 7:54	25.868	5.649	24.356	25.839	5.602	61.21	13.23	62.68	Low Cal Check
12/7/2007 7:54	25.790	5.647	24.390	25.725	5.601	61.22	13.23	62.73	Low Cal Check
Average	**25.600**	**5.648**	**24.340**	**25.884**	**5.602**				
12/7/2007 8:05	0.413	-0.035	1.119	54.140	20.376	61.49	13.23	63.78	NO2 Direct Challenge
12/7/2007 8:05	0.154	-0.035	1.150	54.708	20.382	61.49	13.23	63.81	NO2 Direct Challenge
12/7/2007 8:05	0.278	-0.035	1.128	55.305	20.384	61.50	13.23	63.72	NO2 Direct Challenge
12/7/2007 8:05	0.455	-0.037	1.098	55.769	20.379	61.50	13.23	63.57	NO2 Direct Challenge
12/7/2007 8:05	0.495	-0.037	1.149	56.181	20.364	61.51	13.23	63.40	NO2 Direct Challenge
12/7/2007 8:06	0.612	-0.036	1.207	56.509	20.389	61.51	13.23	63.18	NO2 Direct Challenge
12/7/2007 8:06	0.696	-0.036	1.184	56.835	20.389	61.52	13.23	62.75	NO2 Direct Challenge
Average	**0.443**	**-0.036**	**1.148**	**55.635**	**20.380**				
12/7/2007 8:12	25.473	-0.076	0.125	1.384	0.271	61.68	13.23	55.30	CO Upscale Bias
12/7/2007 8:12	25.574	-0.078	0.130	1.382	0.319	61.67	13.23	55.34	CO Upscale Bias
12/7/2007 8:13	25.754	-0.079	0.129	1.378	0.350	61.67	13.23	55.36	CO Upscale Bias
12/7/2007 8:13	25.880	-0.078	0.128	1.349	0.358	61.67	13.23	55.40	CO Upscale Bias
12/7/2007 8:13	25.911	-0.079	0.130	1.346	0.356	61.66	13.23	55.44	CO Upscale Bias
12/7/2007 8:13	25.775	-0.078	0.127	1.322	0.355	61.66	13.23	55.50	CO Upscale Bias
12/7/2007 8:13	25.364	-0.078	0.130	1.294	0.160	61.65	13.23	55.54	CO Upscale Bias
12/7/2007 8:14	25.532	-0.078	0.133	1.226	0.068	61.64	13.23	55.61	CO Upscale Bias
12/7/2007 8:14	25.686	-0.078	0.132	1.194	0.066	61.63	13.23	55.60	CO Upscale Bias
12/7/2007 8:14	25.855	-0.079	0.132	1.162	0.064	61.63	13.23	55.59	CO Upscale Bias
12/7/2007 8:14	25.983	-0.079	0.130	1.137	0.062	61.62	13.23	55.71	CO Upscale Bias
12/7/2007 8:14	25.868	-0.079	0.127	1.105	0.062	61.62	13.23	55.87	CO Upscale Bias
12/7/2007 8:14	25.533	-0.078	0.105	1.074	0.063	61.61	13.23	56.05	CO Upscale Bias
12/7/2007 8:15	25.415	-0.078	0.102	1.046	0.064	61.61	13.23	56.19	CO Upscale Bias
Average	**25.686**	**-0.078**	**0.126**	**1.243**	**0.187**				
12/7/2007 8:20	-0.071	11.995	0.098	0.614	11.945	61.44	13.23	57.49	O2 Upscale Bias
12/7/2007 8:20	-0.011	12.002	0.095	0.615	11.941	61.43	13.23	57.46	O2 Upscale Bias
12/7/2007 8:20	-0.331	12.010	0.098	0.585	11.939	61.43	13.23	57.50	O2 Upscale Bias
12/7/2007 8:21	-0.646	12.016	0.072	0.584	11.938	61.42	13.23	57.48	O2 Upscale Bias
12/7/2007 8:21	-0.637	12.022	0.066	0.578	11.938	61.42	13.23	57.39	O2 Upscale Bias
12/7/2007 8:21	-0.399	12.026	0.069	0.581	11.938	61.42	13.23	57.39	O2 Upscale Bias

12/7/2007 8:21	-0.166	12.030	0.066	0.555	11.938	61.41	13.23	57.38	O2 Upscale Bias
Average	**-0.323**	**12.014**	**0.081**	**0.587**	**11.940**				
12/7/2007 8:32	1.259	-0.070	49.234	49.208	-0.006	61.50	13.23	59.69	NOx Upscale Bias
12/7/2007 8:32	1.379	-0.070	49.340	49.204	-0.018	61.51	13.23	59.69	NOx Upscale Bias
12/7/2007 8:33	1.482	-0.070	49.405	49.337	-0.022	61.51	13.23	59.68	NOx Upscale Bias
12/7/2007 8:33	1.572	-0.071	49.410	49.513	-0.022	61.51	13.23	59.70	NOx Upscale Bias
12/7/2007 8:33	1.393	-0.070	49.378	49.559	-0.030	61.51	13.23	59.73	NOx Upscale Bias
12/7/2007 8:33	1.063	-0.072	49.428	49.590	-0.035	61.52	13.23	59.77	NOx Upscale Bias
12/7/2007 8:33	1.077	-0.073	49.462	49.619	-0.053	61.53	13.23	59.84	NOx Upscale Bias
12/7/2007 8:34	1.473	-0.073	49.750	49.578	-0.087	61.53	13.23	59.93	NOx Upscale Bias
12/7/2007 8:34	1.427	-0.073	49.705	49.489	-0.090	61.54	13.23	59.93	NOx Upscale Bias
12/7/2007 8:34	1.158	-0.073	49.667	49.552	-0.094	61.54	13.23	59.94	NOx Upscale Bias
12/7/2007 8:34	0.938	-0.073	49.670	49.666	-0.100	61.54	13.23	59.95	NOx Upscale Bias
12/7/2007 8:35	1.058	-0.074	49.669	49.710	-0.101	61.54	13.23	59.95	NOx Upscale Bias
12/7/2007 8:35	1.177	-0.074	49.614	49.769	-0.100	61.55	13.23	59.95	NOx Upscale Bias
12/7/2007 8:35	1.278	-0.074	49.565	49.798	-0.101	61.55	13.23	59.93	NOx Upscale Bias
12/7/2007 8:36	1.178	-0.076	49.698	49.596	-0.109	61.57	13.23	60.10	NOx Upscale Bias
12/7/2007 8:36	1.284	-0.076	49.667	49.618	-0.110	61.57	13.23	60.10	NOx Upscale Bias
12/7/2007 8:36	1.439	-0.075	49.667	49.647	-0.109	61.58	13.23	60.08	NOx Upscale Bias
12/7/2007 8:37	1.421	-0.075	49.642	49.734	-0.109	61.58	13.23	60.10	NOx Upscale Bias
12/7/2007 8:37	1.164	-0.075	49.586	49.791	-0.114	61.58	13.23	60.11	NOx Upscale Bias
12/7/2007 8:37	1.019	-0.075	49.534	49.828	-0.114	61.59	13.23	60.11	NOx Upscale Bias
12/7/2007 8:37	1.000	-0.076	49.655	49.800	-0.115	61.59	13.23	60.11	NOx Upscale Bias
Average	**1.249**	**-0.073**	**49.559**	**49.600**	**-0.078**				
12/7/2007 8:43	26.692	1.183	22.956	29.529	18.372	61.75	13.23	62.48	#1 Sample Location #
12/7/2007 8:43	26.695	1.182	22.951	29.553	18.369	61.75	13.23	62.50	#1 Sample Location #
12/7/2007 8:43	26.874	1.182	22.957	29.585	18.368	61.75	13.23	62.53	#1 Sample Location #
12/7/2007 8:43	27.094	1.181	22.932	29.611	18.376	61.74	13.23	62.54	#1 Sample Location #
12/7/2007 8:43	27.203	1.179	22.923	29.641	18.374	61.75	13.23	62.53	#1 Sample Location #
12/7/2007 8:44	27.375	1.179	22.924	29.616	18.389	61.75	13.23	62.53	#1 Sample Location #
12/7/2007 8:44	27.415	1.178	22.893	29.618	18.382	61.75	13.23	62.53	#1 Sample Location #
12/7/2007 8:44	27.014	1.179	22.839	29.613	18.391	61.75	13.23	62.52	#1 Sample Location #
12/7/2007 8:44	26.833	1.177	22.835	29.615	18.384	61.75	13.23	62.48	#1 Sample Location #
12/7/2007 8:44	26.898	1.179	22.832	29.613	18.400	61.75	13.23	62.47	#1 Sample Location #
12/7/2007 8:44	27.180	1.179	22.810	29.585	18.396	61.75	13.23	62.45	#1 Sample Location #
12/7/2007 8:45	27.305	1.179	22.811	29.557	18.379	61.76	13.23	62.42	#1 Sample Location #
12/7/2007 8:45	27.476	1.177	22.838	29.529	18.385	61.76	13.23	62.40	#1 Sample Location #
12/7/2007 8:45	27.511	1.181	22.862	29.528	18.400	61.76	13.23	62.37	#1 Sample Location #
12/7/2007 8:45	27.269	1.182	22.864	29.527	18.392	61.77	13.23	62.37	#1 Sample Location #
12/7/2007 8:45	26.889	1.183	22.865	29.555	18.392	61.77	13.23	62.38	#1 Sample Location #
12/7/2007 8:45	26.896	1.182	22.894	29.580	18.390	61.77	13.23	62.35	#1 Sample Location #
12/7/2007 8:46	27.000	1.185	22.952	29.607	18.391	61.77	13.23	62.33	#1 Sample Location #
12/7/2007 8:46	27.283	1.185	22.958	29.666	18.377	61.77	13.23	62.31	#1 Sample Location #
Average	**27.100**	**1.181**	**22.889**	**29.586**	**18.385**				
12/7/2007 8:46	27.428	1.181	23.008	29.622	18.392	61.78	13.23	62.29	#1 Sample Location #
12/7/2007 8:46	26.931	1.180	23.041	29.559	18.398	61.79	13.23	62.28	#1 Sample Location #
12/7/2007 8:47	27.054	1.181	23.042	29.609	18.405	61.79	13.23	62.27	#1 Sample Location #
12/7/2007 8:47	27.298	1.181	23.124	29.640	18.399	61.79	13.23	62.16	#1 Sample Location #
12/7/2007 8:47	27.405	1.181	23.179	29.593	18.403	61.80	13.23	62.02	#1 Sample Location #
12/7/2007 8:47	27.500	1.180	23.004	29.591	18.399	61.81	13.23	61.96	#1 Sample Location #
12/7/2007 8:47	27.509	1.180	22.797	29.613	18.396	61.82	13.23	61.94	#1 Sample Location #
12/7/2007 8:47	27.433	1.179	22.698	29.614	18.402	61.82	13.23	61.94	#1 Sample Location #
12/7/2007 8:48	27.091	1.178	22.635	29.695	18.395	61.82	13.23	61.93	#1 Sample Location #
12/7/2007 8:48	26.925	1.180	22.629	29.727	18.410	61.83	13.23	61.93	#1 Sample Location #
12/7/2007 8:48	27.276	1.179	22.652	29.730	18.401	61.84	13.23	61.96	#1 Sample Location #
12/7/2007 8:48	27.403	1.179	22.629	29.730	18.405	61.84	13.23	62.00	#1 Sample Location #
12/7/2007 8:48	27.506	1.180	22.625	29.705	18.402	61.85	13.23	62.02	#1 Sample Location #
12/7/2007 8:48	27.672	1.180	22.591	29.674	18.401	61.85	13.23	62.00	#1 Sample Location #
12/7/2007 8:49	27.390	1.179	22.565	29.701	18.396	61.86	13.23	61.99	#1 Sample Location #
12/7/2007 8:49	27.155	1.181	22.558	29.677	18.409	61.87	13.23	62.00	#1 Sample Location #
12/7/2007 8:49	27.203	1.183	22.586	29.704	18.396	61.87	13.23	62.01	#1 Sample Location #
12/7/2007 8:49	27.304	1.183	22.649	29.704	18.389	61.88	13.23	62.03	#1 Sample Location #
12/7/2007 8:49	27.403	1.185	22.685	29.789	18.398	61.89	13.23	62.07	#1 Sample Location #
Average	**27.310**	**1.181**	**22.774**	**29.667**	**18.400**				
12/7/2007 8:50	27.475	1.187	22.804	29.958	18.383	61.92	13.23	62.16	#1 Sample Location #

12/7/2007 8:50	27.172	1.185	22.829	30.015	18.388	61.92	13.23	62.16	#1	Sample Location #
12/7/2007 8:50	27.199	1.186	22.916	30.043	18.396	61.94	13.23	62.16	#1	Sample Location #
12/7/2007 8:50	27.476	1.186	22.973	30.050	18.398	61.94	13.23	62.15	#1	Sample Location #
12/7/2007 8:50	27.603	1.184	23.150	30.041	18.395	61.95	13.23	62.18	#1	Sample Location #
12/7/2007 8:51	27.793	1.183	23.322	29.987	18.396	61.96	13.23	62.19	#1	Sample Location #
12/7/2007 8:51	27.815	1.182	23.207	29.987	18.402	61.97	13.23	62.20	#1	Sample Location #
12/7/2007 8:51	27.577	1.183	23.035	29.987	18.407	61.97	13.23	62.20	#1	Sample Location #
12/7/2007 8:51	27.349	1.183	22.929	29.962	18.400	61.98	13.23	62.23	#1	Sample Location #
12/7/2007 8:51	27.493	1.183	22.818	29.962	18.400	61.98	13.23	62.26	#1	Sample Location #
12/7/2007 8:51	27.693	1.182	22.746	29.986	18.394	61.99	13.23	62.28	#1	Sample Location #
12/7/2007 8:52	27.803	1.182	22.714	29.960	18.390	61.99	13.23	62.28	#1	Sample Location #
12/7/2007 8:52	27.992	1.182	22.717	29.903	18.401	62.00	13.23	62.26	#1	Sample Location #
12/7/2007 8:52	28.016	1.179	22.744	29.903	18.384	62.01	13.23	62.27	#1	Sample Location #
12/7/2007 8:52	27.854	1.179	22.691	29.928	18.391	62.00	13.23	62.27	#1	Sample Location #
12/7/2007 8:52	27.416	1.180	22.661	29.888	18.403	62.01	13.23	62.28	#1	Sample Location #
12/7/2007 8:52	27.494	1.181	22.657	29.797	18.409	62.01	13.23	62.28	#1	Sample Location #
12/7/2007 8:53	27.605	1.178	22.659	29.818	18.416	62.02	13.23	62.25	#1	Sample Location #
12/7/2007 8:53	27.972	1.178	22.654	29.843	18.421	62.03	13.23	62.21	#1	Sample Location #
Average	**27.621**	**1.182**	**22.854**	**29.948**	**18.399**					
12/7/2007 8:54	28.354	1.185	22.673	29.921	18.388	62.07	13.23	61.67	#1	Run
12/7/2007 8:55	27.895	1.186	22.787	29.926	18.383	62.06	13.23	61.65	#1	Run
12/7/2007 8:55	27.904	1.188	22.826	29.930	18.394	62.07	13.23	61.60	#1	Run
12/7/2007 8:55	27.918	1.186	22.866	29.986	18.398	62.07	13.23	61.53	#1	Run
12/7/2007 8:55	28.273	1.188	22.922	30.044	18.399	62.08	13.23	61.44	#1	Run
12/7/2007 8:55	28.496	1.187	22.947	30.075	18.388	62.09	13.23	61.39	#1	Run
12/7/2007 8:55	28.427	1.189	22.925	30.161	18.395	62.10	13.23	61.34	#1	Run
12/7/2007 8:56	28.250	1.187	22.924	30.170	18.388	62.10	13.23	61.24	#1	Run
12/7/2007 8:56	28.030	1.187	22.902	30.197	18.386	62.10	13.23	60.91	#1	Run
12/7/2007 8:56	28.108	1.188	22.894	30.226	18.395	62.10	13.23	60.59	#1	Run
12/7/2007 8:56	28.118	1.188	22.948	30.255	18.406	62.11	13.23	60.23	#1	Run
12/7/2007 8:56	28.022	1.188	22.981	30.257	18.389	62.11	13.23	59.87	#1	Run
12/7/2007 8:56	28.018	1.185	23.062	30.254	18.386	62.12	13.23	59.46	#1	Run
12/7/2007 8:57	28.014	1.187	23.124	30.286	18.403	62.13	13.23	59.19	#1	Run
12/7/2007 8:57	27.672	1.188	23.162	30.340	18.411	62.13	13.23	58.96	#1	Run
12/7/2007 8:57	27.432	1.187	23.190	30.373	18.395	62.13	13.23	58.56	#1	Run
12/7/2007 8:57	27.410	1.187	23.216	30.407	18.397	62.13	13.23	58.18	#1	Run
12/7/2007 8:57	27.772	1.186	23.250	30.414	18.385	62.14	13.23	58.15	#1	Run
12/7/2007 8:57	27.814	1.187	23.251	30.385	18.390	62.14	13.23	58.15	#1	Run
12/7/2007 8:58	27.999	1.187	23.253	30.413	18.397	62.15	13.23	58.12	#1	Run
12/7/2007 8:58	27.925	1.189	23.250	30.409	18.399	62.17	13.23	58.02	#1	Run
12/7/2007 8:58	27.829	1.192	23.251	30.465	18.389	62.17	13.23	57.98	#1	Run
12/7/2007 8:58	27.456	1.193	23.280	30.495	18.379	62.18	13.23	57.95	#1	Run
12/7/2007 8:58	27.505	1.193	23.307	30.550	18.389	62.20	13.23	57.98	#1	Run
12/7/2007 8:58	27.696	1.193	23.312	30.607	18.385	62.21	13.23	57.98	#1	Run
12/7/2007 8:59	27.899	1.195	23.314	30.638	18.390	62.21	13.23	57.99	#1	Run
12/7/2007 8:59	28.004	1.194	23.336	30.642	18.379	62.22	13.23	57.99	#1	Run
12/7/2007 8:59	28.017	1.194	23.339	30.612	18.389	62.23	13.23	57.97	#1	Run
12/7/2007 8:59	28.014	1.194	23.389	30.561	18.366	62.24	13.23	57.97	#1	Run
12/7/2007 8:59	27.566	1.197	23.477	30.500	18.376	62.26	13.23	57.98	#1	Run
12/7/2007 8:59	27.519	1.199	23.487	30.471	18.390	62.27	13.23	57.99	#1	Run
12/7/2007 9:00	27.875	1.198	23.490	30.466	18.376	62.28	13.23	58.00	#1	Run
12/7/2007 9:00	28.003	1.196	23.517	30.474	18.377	62.29	13.23	58.02	#1	Run
12/7/2007 9:00	28.101	1.198	23.542	30.528	18.395	62.29	13.23	58.02	#1	Run
12/7/2007 9:00	28.115	1.197	23.544	30.556	18.391	62.31	13.23	58.01	#1	Run
12/7/2007 9:00	27.936	1.197	23.542	30.580	18.389	62.32	13.23	58.00	#1	Run
12/7/2007 9:00	27.645	1.195	23.496	30.632	18.384	62.33	13.23	58.01	#1	Run
12/7/2007 9:01	27.612	1.194	23.459	30.613	18.382	62.34	13.23	58.01	#1	Run
12/7/2007 9:01	27.615	1.195	23.429	30.605	18.390	62.34	13.23	58.07	#1	Run
12/7/2007 9:01	27.882	1.193	23.429	30.553	18.381	62.35	13.23	58.10	#1	Run
12/7/2007 9:01	28.008	1.194	23.400	30.493	18.394	62.36	13.23	58.11	#1	Run
12/7/2007 9:01	28.107	1.194	23.397	30.547	18.398	62.36	13.23	58.10	#1	Run
12/7/2007 9:01	28.025	1.195	23.401	30.580	18.402	62.37	13.24	58.13	#1	Run
12/7/2007 9:02	27.750	1.195	23.395	30.580	18.392	62.38	13.24	58.31	#1	Run
12/7/2007 9:02	27.538	1.194	23.399	30.564	18.392	62.39	13.24	58.70	#1	Run
12/7/2007 9:02	27.607	1.194	23.431	30.526	18.392	62.40	13.24	58.92	#1	Run

12/7/2007 9:02	27.797	1.194	23.457	30.469	18.392	62.42	13.24	59.01	#1 Run
12/7/2007 9:02	27.907	1.195	23.483	30.470	18.393	62.43	13.24	59.08	#1 Run
12/7/2007 9:02	28.094	1.193	23.436	30.493	18.397	62.44	13.24	59.12	#1 Run
12/7/2007 9:03	28.023	1.194	23.401	30.554	18.397	62.45	13.24	59.09	#1 Run
12/7/2007 9:03	27.745	1.195	23.397	30.586	18.403	62.48	13.24	59.01	#1 Run
12/7/2007 9:03	27.537	1.194	23.402	30.559	18.395	62.48	13.24	58.89	#1 Run
12/7/2007 9:03	27.694	1.192	23.463	30.503	18.402	62.50	13.24	58.75	#1 Run
12/7/2007 9:03	27.894	1.191	23.516	30.495	18.411	62.53	13.24	58.46	#1 Run
12/7/2007 9:03	28.003	1.191	23.412	30.527	18.407	62.54	13.24	58.16	#1 Run
12/7/2007 9:04	28.104	1.190	23.325	30.576	18.407	62.56	13.24	58.06	#1 Run
12/7/2007 9:04	28.383	1.190	23.315	30.608	18.389	62.57	13.24	57.71	#1 Run
12/7/2007 9:04	28.685	1.189	23.315	30.538	18.386	62.59	13.24	57.39	#1 Run
12/7/2007 9:04	28.629	1.190	23.165	30.448	18.389	62.60	13.24	57.05	#1 Run
12/7/2007 9:04	28.708	1.190	23.011	30.521	18.392	62.61	13.24	56.67	#1 Run
12/7/2007 9:04	29.073	1.190	23.013	30.584	18.395	62.64	13.24	56.35	#1 Run
12/7/2007 9:05	29.295	1.189	22.986	30.585	18.400	62.65	13.24	55.99	#1 Run
12/7/2007 9:05	29.137	1.190	23.092	30.555	18.402	62.66	13.24	55.65	#1 Run
12/7/2007 9:05	29.024	1.190	23.188	30.499	18.403	62.68	13.24	55.34	#1 Run
12/7/2007 9:05	28.658	1.191	23.219	30.446	18.407	62.69	13.24	54.96	#1 Run
12/7/2007 9:05	28.079	1.191	23.224	30.569	18.382	62.70	13.24	54.69	#1 Run
12/7/2007 9:05	27.924	1.190	23.335	30.672	18.385	62.73	13.24	54.37	#1 Run
12/7/2007 9:06	28.100	1.191	23.456	30.549	18.395	62.74	13.24	54.07	#1 Run
12/7/2007 9:06	28.295	1.192	23.432	30.467	18.397	62.76	13.24	53.81	#1 Run
12/7/2007 9:06	28.316	1.193	23.427	30.543	18.402	62.77	13.24	53.46	#1 Run
12/7/2007 9:06	28.047	1.193	23.397	30.651	18.404	62.79	13.24	53.13	#1 Run
12/7/2007 9:06	27.842	1.194	23.340	30.639	18.406	62.80	13.24	52.86	#1 Run
12/7/2007 9:06	27.909	1.194	23.454	30.567	18.391	62.82	13.24	52.73	#1 Run
12/7/2007 9:07	28.004	1.192	23.571	30.586	18.396	62.83	13.24	52.49	#1 Run
12/7/2007 9:07	28.105	1.194	23.491	30.640	18.412	62.85	13.24	52.22	#1 Run
12/7/2007 9:07	28.386	1.192	23.401	30.693	18.407	62.86	13.24	51.91	#1 Run
12/7/2007 9:07	28.506	1.192	23.504	30.695	18.395	62.87	13.24	51.69	#1 Run
12/7/2007 9:07	28.248	1.190	23.594	30.596	18.392	62.89	13.24	51.51	#1 Run
12/7/2007 9:07	27.853	1.192	23.582	30.498	18.407	62.90	13.24	51.26	#1 Run
12/7/2007 9:08	27.815	1.195	23.573	30.598	18.407	62.91	13.24	51.07	#1 Run
12/7/2007 9:08	27.905	1.191	23.573	30.652	18.398	62.92	13.24	50.82	#1 Run
12/7/2007 9:08	28.187	1.191	23.578	30.576	18.392	62.94	13.24	50.61	#1 Run
12/7/2007 9:08	28.487	1.190	23.573	30.496	18.390	62.96	13.24	50.49	#1 Run
12/7/2007 9:08	28.606	1.193	23.574	30.547	18.405	62.97	13.24	50.31	#1 Run
12/7/2007 9:08	28.347	1.192	23.517	30.601	18.403	62.99	13.24	50.11	#1 Run
12/7/2007 9:09	28.137	1.191	23.432	30.663	18.397	63.01	13.24	49.93	#1 Run
12/7/2007 9:09	28.205	1.190	23.487	30.692	18.396	63.02	13.24	49.69	#1 Run
12/7/2007 9:09	28.396	1.189	23.543	30.587	18.394	63.03	13.24	49.54	#1 Run
12/7/2007 9:09	28.594	1.191	23.541	30.489	18.399	63.05	13.24	49.39	#1 Run
12/7/2007 9:09	28.707	1.188	23.571	30.592	18.386	63.06	13.24	49.25	#1 Run
12/7/2007 9:09	28.534	1.191	23.520	30.711	18.402	63.07	13.24	49.10	#1 Run
12/7/2007 9:10	28.248	1.194	23.487	30.731	18.408	63.08	13.24	48.96	#1 Run
12/7/2007 9:10	28.217	1.193	23.537	30.699	18.405	63.09	13.24	48.80	#1 Run
12/7/2007 9:10	28.489	1.193	23.566	30.697	18.405	63.10	13.24	48.66	#1 Run
12/7/2007 9:10	28.876	1.193	23.507	30.729	18.399	63.11	13.24	48.57	#1 Run
12/7/2007 9:10	29.005	1.194	23.452	30.810	18.405	63.13	13.24	48.38	#1 Run
12/7/2007 9:10	28.745	1.191	23.567	30.840	18.379	63.13	13.24	48.26	#1 Run
12/7/2007 9:11	28.176	1.192	23.675	30.733	18.391	63.15	13.24	48.18	#1 Run
12/7/2007 9:11	28.119	1.192	23.611	30.664	18.406	63.16	13.24	48.05	#1 Run
12/7/2007 9:11	28.568	1.192	23.522	30.742	18.412	63.17	13.24	47.87	#1 Run
12/7/2007 9:11	28.882	1.192	23.540	30.796	18.398	63.18	13.24	47.79	#1 Run
12/7/2007 9:11	29.005	1.190	23.540	30.773	18.386	63.19	13.24	47.73	#1 Run
12/7/2007 9:11	29.017	1.193	23.540	30.744	18.403	63.20	13.24	47.62	#1 Run
12/7/2007 9:12	28.838	1.191	23.518	30.830	18.390	63.21	13.24	47.48	#1 Run
12/7/2007 9:12	28.275	1.191	23.596	30.896	18.394	63.22	13.24	47.41	#1 Run
12/7/2007 9:12	28.305	1.192	23.655	30.814	18.403	63.23	13.24	47.31	#1 Run
12/7/2007 9:12	28.766	1.194	23.583	30.781	18.411	63.25	13.24	47.21	#1 Run
12/7/2007 9:12	29.169	1.190	23.464	30.895	18.389	63.25	13.24	47.15	#1 Run
12/7/2007 9:12	29.491	1.192	23.453	30.975	18.402	63.26	13.24	47.01	#1 Run
12/7/2007 9:13	29.157	1.193	23.448	30.867	18.405	63.27	13.24	46.92	#1 Run
12/7/2007 9:13	29.024	1.192	23.425	30.781	18.393	63.28	13.24	46.83	#1 Run

12/7/2007 9:13	29.104	1.193	23.396	30.801	18.409	63.29	13.24	46.73	#1	Run
12/7/2007 9:13	29.299	1.193	23.442	30.801	18.402	63.30	13.24	46.76	#1	Run
12/7/2007 9:13	29.584	1.192	23.498	30.777	18.391	63.30	13.24	46.82	#1	Run
12/7/2007 9:13	29.798	1.191	23.447	30.808	18.403	63.31	13.24	46.88	#1	Run
12/7/2007 9:14	29.817	1.192	23.388	30.871	18.400	63.32	13.24	46.93	#1	Run
12/7/2007 9:14	29.457	1.190	23.419	30.893	18.384	63.32	13.24	46.98	#1	Run
12/7/2007 9:14	28.963	1.192	23.471	30.812	18.405	63.32	13.24	47.10	#1	Run
12/7/2007 9:14	28.914	1.192	23.589	30.723	18.394	63.33	13.24	47.23	#1	Run
12/7/2007 9:14	28.823	1.194	23.733	30.714	18.408	63.32	13.24	47.37	#1	Run
12/7/2007 9:14	28.995	1.194	23.716	30.766	18.390	63.33	13.24	47.54	#1	Run
12/7/2007 9:15	29.287	1.192	23.656	30.804	18.393	63.33	13.24	47.70	#1	Run
12/7/2007 9:15	29.319	1.195	23.635	30.864	18.408	63.33	13.24	47.86	#1	Run
12/7/2007 9:15	28.950	1.193	23.634	30.866	18.394	63.33	13.24	48.02	#1	Run
12/7/2007 9:15	28.644	1.193	23.680	30.811	18.400	63.33	13.24	48.21	#1	Run
12/7/2007 9:15	28.794	1.193	23.715	30.746	18.405	63.33	13.24	48.39	#1	Run
12/7/2007 9:15	28.901	1.192	23.718	30.692	18.403	63.33	13.24	48.55	#1	Run
12/7/2007 9:16	28.998	1.189	23.688	30.766	18.392	63.33	13.24	48.72	#1	Run
12/7/2007 9:16	29.105	1.192	23.627	30.860	18.411	63.33	13.24	48.88	#1	Run
12/7/2007 9:16	28.931	1.190	23.570	30.863	18.409	63.33	13.24	49.06	#1	Run
12/7/2007 9:16	28.553	1.188	23.626	30.838	18.413	63.33	13.24	49.24	#1	Run
12/7/2007 9:16	28.420	1.186	23.656	30.726	18.395	63.33	13.24	49.39	#1	Run
12/7/2007 9:16	28.598	1.188	23.660	30.606	18.398	63.32	13.24	49.52	#1	Run
12/7/2007 9:17	28.790	1.190	23.662	30.673	18.403	63.32	13.24	49.62	#1	Run
12/7/2007 9:17	29.081	1.189	23.606	30.792	18.396	63.32	13.24	49.73	#1	Run
12/7/2007 9:17	29.109	1.188	23.575	30.800	18.394	63.32	13.24	49.83	#1	Run
12/7/2007 9:17	29.015	1.188	23.634	30.799	18.401	63.32	13.24	49.93	#1	Run
12/7/2007 9:17	28.561	1.189	23.682	30.747	18.409	63.30	13.24	50.03	#1	Run
12/7/2007 9:17	28.422	1.191	23.690	30.692	18.415	63.30	13.24	50.12	#1	Run
12/7/2007 9:18	28.503	1.190	23.662	30.737	18.407	63.30	13.24	50.20	#1	Run
12/7/2007 9:18	28.693	1.189	23.635	30.827	18.407	63.30	13.24	50.32	#1	Run
12/7/2007 9:18	28.805	1.189	23.608	30.752	18.397	63.30	13.24	50.50	#1	Run
12/7/2007 9:18	28.995	1.190	23.634	30.651	18.404	63.29	13.24	50.69	#1	Run
12/7/2007 9:18	28.814	1.190	23.660	30.756	18.412	63.30	13.24	50.88	#1	Run
12/7/2007 9:18	28.431	1.189	23.660	30.873	18.409	63.29	13.24	51.06	#1	Run
12/7/2007 9:19	28.410	1.188	23.662	30.811	18.406	63.29	13.24	51.22	#1	Run
12/7/2007 9:19	28.594	1.188	23.661	30.751	18.401	63.29	13.24	51.39	#1	Run
12/7/2007 9:19	28.699	1.190	23.686	30.800	18.405	63.29	13.24	51.57	#1	Run
12/7/2007 9:19	28.891	1.189	23.635	30.917	18.399	63.29	13.24	51.76	#1	Run
12/7/2007 9:19	28.912	1.189	23.606	30.868	18.401	63.30	13.24	51.90	#1	Run
12/7/2007 9:19	28.527	1.190	23.657	30.780	18.402	63.29	13.24	52.03	#1	Run
12/7/2007 9:20	28.221	1.190	23.708	30.804	18.405	63.29	13.24	52.18	#1	Run
12/7/2007 9:20	28.483	1.190	23.637	30.836	18.407	63.29	13.24	52.30	#1	Run
12/7/2007 9:20	28.602	1.190	23.576	30.838	18.409	63.29	13.24	52.43	#1	Run
12/7/2007 9:20	28.793	1.191	23.652	30.809	18.398	63.29	13.24	52.56	#1	Run
12/7/2007 9:20	28.900	1.191	23.734	30.780	18.408	63.29	13.24	52.70	#1	Run
12/7/2007 9:20	28.819	1.192	23.685	30.784	18.412	63.29	13.24	52.84	#1	Run
12/7/2007 9:21	28.533	1.190	23.639	30.838	18.408	63.29	13.24	53.00	#1	Run
12/7/2007 9:21	28.412	1.190	23.707	30.839	18.409	63.29	13.24	53.09	#1	Run
12/7/2007 9:21	28.587	1.192	23.772	30.784	18.408	63.29	13.24	53.20	#1	Run
12/7/2007 9:21	28.879	1.193	23.749	30.747	18.413	63.29	13.24	53.30	#1	Run
12/7/2007 9:21	29.001	1.192	23.718	30.773	18.407	63.29	13.24	53.41	#1	Run
12/7/2007 9:21	29.010	1.191	23.743	30.794	18.407	63.29	13.24	53.50	#1	Run
12/7/2007 9:22	28.869	1.191	23.786	30.738	18.406	63.29	13.24	53.63	#1	Run
12/7/2007 9:22	28.397	1.192	23.850	30.695	18.412	63.29	13.24	53.74	#1	Run
12/7/2007 9:22	28.310	1.191	23.874	30.771	18.405	63.29	13.24	53.85	#1	Run
12/7/2007 9:22	28.397	1.192	23.791	30.856	18.408	63.29	13.24	53.96	#1	Run
12/7/2007 9:22	28.678	1.193	23.725	30.894	18.406	63.29	13.24	54.06	#1	Run
12/7/2007 9:22	28.887	1.193	23.808	30.871	18.400	63.30	13.24	54.16	#1	Run
12/7/2007 9:23	28.906	1.195	23.873	30.781	18.413	63.29	13.24	54.25	#1	Run
12/7/2007 9:23	28.782	1.193	23.874	30.731	18.404	63.29	13.24	54.32	#1	Run
12/7/2007 9:23	28.406	1.193	23.848	30.841	18.390	63.29	13.24	54.41	#1	Run
12/7/2007 9:23	28.412	1.193	23.785	30.946	18.387	63.29	13.24	54.50	#1	Run
12/7/2007 9:23	28.502	1.193	23.698	30.957	18.389	63.30	13.24	54.59	#1	Run
12/7/2007 9:23	28.597	1.193	23.744	30.931	18.390	63.30	13.24	54.66	#1	Run
12/7/2007 9:24	28.700	1.194	23.838	30.906	18.395	63.30	13.24	54.75	#1	Run

12/7/2007 9:24	28.981	1.195	23.850	30.904	18.399	63.30	13.24	54.88	#1 Run
12/7/2007 9:24	28.971	1.195	23.877	30.969	18.403	63.30	13.24	55.14	#1 Run
12/7/2007 9:24	28.592	1.197	23.877	31.052	18.404	63.31	13.24	55.26	#1 Run
12/7/2007 9:24	28.422	1.196	23.877	31.073	18.407	63.32	13.24	55.39	#1 Run
12/7/2007 9:24	28.606	1.196	23.849	31.127	18.408	63.31	13.24	55.48	#1 Run
12/7/2007 9:25	28.972	1.196	23.844	31.081	18.408	63.33	13.24	55.57	#1 Run
12/7/2007 9:25	29.371	1.198	23.751	31.026	18.411	63.33	13.24	55.65	#1 Run
12/7/2007 9:25	29.590	1.197	23.686	31.044	18.395	63.33	13.24	55.76	#1 Run
12/7/2007 9:25	29.672	1.198	23.663	31.052	18.398	63.34	13.24	55.85	#1 Run
12/7/2007 9:25	29.391	1.198	23.635	31.104	18.403	63.34	13.24	55.89	#1 Run
12/7/2007 9:25	29.209	1.197	23.657	31.129	18.386	63.34	13.24	55.89	#1 Run
12/7/2007 9:26	29.214	1.198	23.688	31.057	18.393	63.34	13.24	55.91	#1 Run
12/7/2007 9:26	29.217	1.201	23.769	30.965	18.398	63.35	13.24	55.91	#1 Run
12/7/2007 9:26	29.304	1.202	23.865	31.087	18.394	63.35	13.24	55.91	#1 Run
12/7/2007 9:26	29.314	1.201	23.875	31.260	18.403	63.35	13.24	55.92	#1 Run
12/7/2007 9:26	29.352	1.201	23.847	31.245	18.392	63.36	13.24	55.94	#1 Run
12/7/2007 9:26	28.870	1.201	23.931	31.196	18.396	63.36	13.23	55.96	#1 Run
12/7/2007 9:27	28.505	1.201	24.017	31.247	18.399	63.36	13.23	55.97	#1 Run
12/7/2007 9:27	28.410	1.201	24.026	31.305	18.396	63.36	13.23	55.99	#1 Run
12/7/2007 9:27	28.503	1.201	24.024	31.307	18.400	63.36	13.23	56.04	#1 Run
12/7/2007 9:27	28.601	1.201	24.123	31.309	18.402	63.36	13.24	56.07	#1 Run
12/7/2007 9:27	28.522	1.201	24.199	31.195	18.399	63.37	13.24	55.96	#1 Run
12/7/2007 9:27	28.663	1.200	24.095	31.112	18.386	63.37	13.24	55.61	#1 Run
12/7/2007 9:28	28.380	1.201	24.006	31.189	18.405	63.37	13.24	55.24	#1 Run
12/7/2007 9:28	28.111	1.200	24.081	31.218	18.400	63.37	13.24	55.13	#1 Run
12/7/2007 9:28	28.112	1.201	24.172	31.197	18.399	63.38	13.24	55.18	#1 Run
12/7/2007 9:28	28.296	1.199	24.073	31.217	18.396	63.38	13.24	55.09	#1 Run
12/7/2007 9:28	28.674	1.202	23.971	31.219	18.401	63.39	13.24	54.92	#1 Run
12/7/2007 9:28	29.159	1.200	23.932	31.184	18.398	63.40	13.24	54.89	#1 Run
12/7/2007 9:29	29.352	1.202	23.880	31.096	18.406	63.40	13.24	54.61	#1 Run
12/7/2007 9:29	28.973	1.201	23.909	31.018	18.403	63.41	13.24	54.10	#1 Run
12/7/2007 9:29	28.617	1.198	23.907	31.092	18.387	63.41	13.24	53.77	#1 Run
12/7/2007 9:29	28.620	1.199	23.990	31.183	18.395	63.42	13.24	53.46	#1 Run
12/7/2007 9:29	28.706	1.198	24.115	31.083	18.404	63.42	13.24	53.07	#1 Run
12/7/2007 9:29	28.804	1.197	24.128	30.993	18.396	63.43	13.24	52.67	#1 Run
12/7/2007 9:30	28.818	1.199	24.123	31.132	18.403	63.44	13.24	52.34	#1 Run
12/7/2007 9:30	28.505	1.198	24.097	31.275	18.398	63.44	13.24	52.08	#1 Run
12/7/2007 9:30	28.113	1.198	24.071	31.250	18.394	63.46	13.24	51.71	#1 Run
12/7/2007 9:30	28.133	1.197	24.120	31.226	18.401	63.46	13.24	51.41	#1 Run
12/7/2007 9:30	28.321	1.197	24.178	31.171	18.399	63.48	13.24	51.07	#1 Run
12/7/2007 9:30	28.406	1.197	24.159	31.134	18.400	63.48	13.24	50.78	#1 Run
12/7/2007 9:31	28.684	1.197	24.126	31.254	18.402	63.49	13.24	50.52	#1 Run
12/7/2007 9:31	28.685	1.198	24.097	31.375	18.407	63.50	13.24	50.23	#1 Run
12/7/2007 9:31	28.402	1.197	24.097	31.402	18.403	63.52	13.24	50.08	#1 Run
12/7/2007 9:31	28.333	1.198	24.125	31.402	18.405	63.53	13.24	49.85	#1 Run
12/7/2007 9:31	28.534	1.196	24.153	31.264	18.392	63.54	13.24	49.57	#1 Run
12/7/2007 9:31	28.736	1.197	24.128	31.114	18.409	63.56	13.24	49.37	#1 Run
12/7/2007 9:32	28.911	1.198	24.099	31.208	18.414	63.57	13.24	49.22	#1 Run
12/7/2007 9:32	28.645	1.197	24.095	31.303	18.410	63.59	13.24	49.13	#1 Run
12/7/2007 9:32	28.414	1.195	24.106	31.367	18.415	63.60	13.24	48.96	#1 Run
12/7/2007 9:32	28.210	1.192	24.213	31.359	18.408	63.60	13.24	48.82	#1 Run
12/7/2007 9:32	28.231	1.195	24.289	31.275	18.414	63.61	13.24	48.63	#1 Run
12/7/2007 9:32	28.429	1.194	24.221	31.191	18.412	63.62	13.24	48.54	#1 Run
12/7/2007 9:33	28.642	1.194	24.131	31.270	18.412	63.63	13.24	48.41	#1 Run
12/7/2007 9:33	28.909	1.194	24.154	31.326	18.411	63.65	13.24	48.24	#1 Run
12/7/2007 9:33	28.824	1.194	24.183	31.242	18.410	63.66	13.24	48.08	#1 Run
12/7/2007 9:33	28.439	1.196	24.182	31.163	18.401	63.67	13.24	47.92	#1 Run
12/7/2007 9:33	28.366	1.195	24.178	31.219	18.402	63.68	13.24	47.75	#1 Run
12/7/2007 9:33	28.847	1.197	24.076	31.276	18.421	63.69	13.24	47.58	#1 Run
12/7/2007 9:34	29.143	1.196	23.976	31.302	18.400	63.69	13.24	47.48	#1 Run
12/7/2007 9:34	29.417	1.196	23.965	31.328	18.396	63.70	13.24	47.34	#1 Run
12/7/2007 9:34	29.412	1.197	23.992	31.177	18.401	63.71	13.24	47.28	#1 Run
12/7/2007 9:34	29.233	1.198	23.989	30.985	18.401	63.72	13.24	47.31	#1 Run
12/7/2007 9:34	29.155	1.200	23.955	31.082	18.398	63.73	13.24	47.63	#1 Run
12/7/2007 9:34	29.435	1.200	23.878	31.224	18.403	63.74	13.23	48.15	#1 Run

12/7/2007 9:35	29.613	1.202	23.790	31.302	18.409	63.75	13.23	48.41	#1 Run
12/7/2007 9:35	29.635	1.200	23.871	31.330	18.398	63.75	13.23	48.58	#1 Run
12/7/2007 9:35	29.831	1.201	23.960	31.363	18.397	63.77	13.23	48.80	#1 Run
12/7/2007 9:35	29.914	1.201	23.969	31.417	18.406	63.78	13.23	49.06	#1 Run
12/7/2007 9:35	29.822	1.200	23.996	31.361	18.399	63.78	13.23	49.39	#1 Run
12/7/2007 9:35	29.805	1.200	23.967	31.309	18.403	63.79	13.23	49.77	#1 Run
12/7/2007 9:36	29.694	1.200	23.938	31.365	18.406	63.79	13.23	50.41	#1 Run
12/7/2007 9:36	29.517	1.201	24.106	31.335	18.404	63.80	13.23	50.81	#1 Run
12/7/2007 9:36	29.506	1.200	24.279	31.279	18.399	63.80	13.23	51.38	#1 Run
12/7/2007 9:36	29.423	1.200	24.269	31.276	18.402	63.81	13.23	51.58	#1 Run
12/7/2007 9:36	29.500	1.199	24.269	31.275	18.405	63.81	13.23	51.68	#1 Run
12/7/2007 9:36	29.316	1.198	24.123	31.326	18.406	63.81	13.23	51.79	#1 Run
12/7/2007 9:37	29.333	1.198	23.965	31.329	18.402	63.82	13.23	52.01	#1 Run
12/7/2007 9:37	29.537	1.195	23.960	31.303	18.403	63.81	13.24	52.16	#1 Run
12/7/2007 9:37	29.726	1.197	23.964	31.361	18.417	63.82	13.24	52.35	#1 Run
12/7/2007 9:37	29.806	1.198	23.966	31.389	18.400	63.82	13.24	52.43	#1 Run
12/7/2007 9:37	29.677	1.198	23.966	31.367	18.399	63.82	13.24	52.47	#1 Run
12/7/2007 9:37	29.296	1.200	23.995	31.310	18.415	63.83	13.24	52.52	#1 Run
12/7/2007 9:38	29.112	1.199	24.027	31.303	18.405	63.82	13.24	52.56	#1 Run
12/7/2007 9:38	29.214	1.200	24.068	31.302	18.392	63.82	13.24	52.62	#1 Run
12/7/2007 9:38	29.317	1.200	24.093	31.299	18.406	63.82	13.24	52.68	#1 Run
12/7/2007 9:38	29.315	1.199	24.151	31.274	18.396	63.82	13.24	52.70	#1 Run
12/7/2007 9:38	29.311	1.199	24.178	31.296	18.387	63.82	13.24	52.71	#1 Run
12/7/2007 9:38	29.296	1.198	24.180	31.328	18.384	63.82	13.24	52.75	#1 Run
12/7/2007 9:39	29.071	1.199	24.195	31.384	18.385	63.82	13.24	52.79	#1 Run
12/7/2007 9:39	28.911	1.202	24.045	31.493	18.395	63.82	13.24	52.89	#1 Run
12/7/2007 9:39	29.021	1.205	23.911	31.475	18.400	63.82	13.24	52.97	#1 Run
12/7/2007 9:39	29.210	1.205	24.016	31.424	18.389	63.82	13.24	53.06	#1 Run
12/7/2007 9:39	29.220	1.205	24.137	31.423	18.390	63.82	13.24	53.10	#1 Run
12/7/2007 9:39	29.292	1.206	24.232	31.422	18.393	63.83	13.24	53.20	#1 Run
12/7/2007 9:40	29.068	1.207	24.293	31.424	18.403	63.83	13.24	53.26	#1 Run
12/7/2007 9:40	28.693	1.206	24.301	31.423	18.400	63.83	13.24	53.28	#1 Run
12/7/2007 9:40	28.628	1.205	24.295	31.455	18.399	63.83	13.24	53.34	#1 Run
12/7/2007 9:40	28.810	1.206	24.235	31.513	18.401	63.84	13.24	53.38	#1 Run
12/7/2007 9:40	28.921	1.202	24.183	31.541	18.386	63.84	13.24	53.40	#1 Run
12/7/2007 9:40	29.013	1.204	24.264	31.513	18.407	63.84	13.24	53.43	#1 Run
12/7/2007 9:41	28.996	1.205	24.350	31.406	18.406	63.85	13.24	53.49	#1 Run
12/7/2007 9:41	28.773	1.204	24.332	31.337	18.402	63.85	13.24	53.56	#1 Run
12/7/2007 9:41	28.406	1.203	24.296	31.389	18.393	63.85	13.24	53.62	#1 Run
12/7/2007 9:41	28.432	1.204	24.203	31.474	18.390	63.85	13.24	53.67	#1 Run
12/7/2007 9:41	28.635	1.203	24.129	31.483	18.399	63.85	13.24	53.65	#1 Run
12/7/2007 9:41	28.939	1.204	24.206	31.454	18.403	63.86	13.24	53.66	#1 Run
12/7/2007 9:42	29.251	1.203	24.295	31.406	18.393	63.86	13.24	53.85	#1 Run
12/7/2007 9:42	29.591	1.204	24.224	31.341	18.404	63.86	13.23	54.16	#1 Run
12/7/2007 9:42	29.374	1.202	24.131	31.394	18.399	63.87	13.24	54.40	#1 Run
12/7/2007 9:42	29.030	1.204	24.149	31.421	18.397	63.87	13.24	54.53	#1 Run
12/7/2007 9:42	29.187	1.203	24.172	31.433	18.396	63.88	13.24	54.69	#1 Run
12/7/2007 9:42	29.536	1.205	24.087	31.484	18.397	63.89	13.24	54.83	#1 Run
12/7/2007 9:43	29.718	1.202	23.998	31.449	18.390	63.89	13.24	54.90	#1 Run
12/7/2007 9:43	29.704	1.203	24.060	31.402	18.394	63.89	13.24	54.89	#1 Run
12/7/2007 9:43	29.579	1.203	24.092	31.419	18.399	63.90	13.24	54.91	#1 Run
12/7/2007 9:43	29.333	1.204	24.093	31.450	18.399	63.90	13.24	54.92	#1 Run
12/7/2007 9:43	29.531	1.204	24.095	31.394	18.404	63.91	13.24	54.92	#1 Run
12/7/2007 9:43	29.612	1.204	24.125	31.312	18.398	63.91	13.23	54.93	#1 Run
12/7/2007 9:44	29.607	1.205	24.153	31.339	18.396	63.92	13.24	54.92	#1 Run
12/7/2007 9:44	29.516	1.207	24.151	31.336	18.393	63.92	13.24	54.93	#1 Run
12/7/2007 9:44	29.495	1.208	24.176	31.393	18.391	63.92	13.24	54.94	#1 Run
12/7/2007 9:44	29.245	1.206	24.211	31.424	18.391	63.92	13.24	54.95	#1 Run
12/7/2007 9:44	28.607	1.207	24.265	31.507	18.397	63.93	13.24	54.96	#1 Run
12/7/2007 9:44	28.593	1.205	24.274	31.569	18.372	63.93	13.24	54.99	#1 Run
12/7/2007 9:45	28.992	1.204	24.264	31.579	18.376	63.94	13.24	55.02	#1 Run
12/7/2007 9:45	29.325	1.205	24.209	31.603	18.383	63.94	13.24	55.03	#1 Run
12/7/2007 9:45	29.382	1.206	24.157	31.572	18.391	63.94	13.24	55.07	#1 Run
12/7/2007 9:45	29.097	1.206	24.229	31.520	18.395	63.95	13.24	55.08	#1 Run
12/7/2007 9:45	28.906	1.206	24.345	31.486	18.398	63.95	13.24	55.07	#1 Run

12/7/2007 9:45	28.803	1.206	24.334	31.487	18.396	63.95	13.24	55.04	#1 Run
12/7/2007 9:46	28.750	1.203	24.324	31.491	18.383	63.96	13.24	54.95	#1 Run
12/7/2007 9:46	28.971	1.206	24.269	31.551	18.403	63.96	13.24	54.94	#1 Run
12/7/2007 9:46	29.240	1.206	24.212	31.579	18.400	63.96	13.24	54.97	#1 Run
12/7/2007 9:46	29.425	1.204	24.131	31.605	18.383	63.96	13.24	54.84	#1 Run
12/7/2007 9:46	29.473	1.207	24.036	31.607	18.404	63.97	13.24	54.48	#1 Run
12/7/2007 9:46	29.092	1.205	24.086	31.555	18.390	63.97	13.24	54.09	#1 Run
12/7/2007 9:47	28.902	1.204	24.163	31.525	18.370	63.97	13.24	54.02	#1 Run
12/7/2007 9:47	28.851	1.203	24.086	31.518	18.377	63.98	13.24	53.65	#1 Run
12/7/2007 9:47	29.050	1.205	24.011	31.541	18.380	63.99	13.24	53.33	#1 Run
12/7/2007 9:47	29.228	1.205	24.126	31.510	18.381	63.99	13.24	53.09	#1 Run
12/7/2007 9:47	29.294	1.206	24.229	31.481	18.382	64.00	13.24	52.77	#1 Run
12/7/2007 9:47	29.064	1.206	24.242	31.512	18.383	64.01	13.24	52.52	#1 Run
12/7/2007 9:48	28.613	1.206	24.214	31.565	18.385	64.02	13.24	52.32	#1 Run
12/7/2007 9:48	28.654	1.206	24.273	31.599	18.386	64.02	13.24	52.15	#1 Run
12/7/2007 9:48	29.051	1.206	24.323	31.490	18.388	64.04	13.24	51.91	#1 Run
12/7/2007 9:48	29.256	1.207	24.270	31.409	18.394	64.05	13.24	51.64	#1 Run
12/7/2007 9:48	29.415	1.208	24.245	31.525	18.396	64.06	13.24	51.42	#1 Run
12/7/2007 9:48	29.364	1.208	24.241	31.630	18.397	64.07	13.24	51.18	#1 Run
12/7/2007 9:49	28.882	1.209	24.271	31.523	18.398	64.08	13.24	50.97	#1 Run
12/7/2007 9:49	28.612	1.209	24.298	31.380	18.402	64.09	13.24	50.72	#1 Run
12/7/2007 9:49	28.674	1.209	24.320	31.417	18.397	64.10	13.24	50.53	#1 Run
12/7/2007 9:49	28.928	1.207	24.270	31.506	18.387	64.11	13.24	50.32	#1 Run
12/7/2007 9:49	29.033	1.210	24.249	31.540	18.402	64.12	13.24	50.13	#1 Run
12/7/2007 9:49	29.075	1.208	24.328	31.541	18.396	64.13	13.24	49.94	#1 Run
12/7/2007 9:50	28.874	1.207	24.379	31.544	18.384	64.15	13.24	49.78	#1 Run
12/7/2007 9:50	28.496	1.208	24.418	31.567	18.390	64.16	13.24	49.61	#1 Run
12/7/2007 9:50	28.333	1.205	24.467	31.519	18.387	64.18	13.24	49.40	#1 Run
12/7/2007 9:50	28.554	1.208	24.450	31.485	18.405	64.19	13.24	49.17	#1 Run
12/7/2007 9:50	28.735	1.208	24.445	31.571	18.391	64.21	13.24	49.05	#1 Run
12/7/2007 9:50	28.834	1.206	24.447	31.656	18.379	64.22	13.24	48.90	#1 Run
12/7/2007 9:51	28.851	1.207	24.443	31.655	18.396	64.23	13.24	48.71	#1 Run
12/7/2007 9:51	28.589	1.208	24.476	31.657	18.404	64.24	13.24	48.59	#1 Run
12/7/2007 9:51	28.420	1.207	24.505	31.579	18.394	64.25	13.24	48.47	#1 Run
12/7/2007 9:51	28.527	1.208	24.536	31.519	18.391	64.26	13.24	48.37	#1 Run
12/7/2007 9:51	28.757	1.208	24.533	31.591	18.380	64.27	13.24	48.19	#1 Run
12/7/2007 9:51	28.955	1.211	24.504	31.711	18.380	64.29	13.24	48.00	#1 Run
12/7/2007 9:52	29.077	1.210	24.506	31.778	18.385	64.29	13.24	47.84	#1 Run
12/7/2007 9:52	28.856	1.211	24.508	31.802	18.393	64.30	13.24	47.68	#1 Run
12/7/2007 9:52	28.602	1.210	24.480	31.770	18.387	64.32	13.24	47.57	#1 Run
12/7/2007 9:52	28.536	1.210	24.499	31.697	18.395	64.33	13.24	47.50	#1 Run
12/7/2007 9:52	28.736	1.209	24.532	31.658	18.396	64.34	13.24	47.36	#1 Run
12/7/2007 9:52	28.952	1.210	24.563	31.643	18.393	64.36	13.24	47.22	#1 Run
12/7/2007 9:53	29.115	1.209	24.556	31.758	18.396	64.36	13.24	47.11	#1 Run
12/7/2007 9:53	29.054	1.208	24.496	31.833	18.402	64.37	13.24	47.02	#1 Run
12/7/2007 9:53	28.775	1.207	24.417	31.863	18.401	64.38	13.24	46.86	#1 Run
12/7/2007 9:53	28.619	1.205	24.502	31.863	18.379	64.40	13.24	46.77	#1 Run
12/7/2007 9:53	28.635	1.206	24.557	31.760	18.397	64.40	13.24	46.64	#1 Run
12/7/2007 9:53	28.825	1.206	24.567	31.663	18.410	64.42	13.24	46.52	#1 Run
12/7/2007 9:54	28.974	1.205	24.564	31.768	18.401	64.43	13.24	46.38	#1 Run
12/7/2007 9:54	29.234	1.205	24.537	31.851	18.394	64.43	13.24	46.33	#1 Run
12/7/2007 9:54	29.219	1.202	24.505	31.734	18.383	64.44	13.24	46.20	#1 Run
12/7/2007 9:54	28.835	1.205	24.474	31.606	18.396	64.45	13.24	46.27	#1 Run
12/7/2007 9:54	28.972	1.208	24.471	31.652	18.409	64.47	13.24	46.48	#1 Run
12/7/2007 9:54	29.224	1.206	24.398	31.710	18.390	64.47	13.24	46.74	#1 Run
Average	**28.712**	**1.197**	**23.824**	**31.020**	**18.397**	**63.351**	**13.236**	**52.683**	
12/7/2007 10:00	25.352	-0.077	0.154	0.505	-0.038	64.64	13.24	52.79	CO Upscale Bias
12/7/2007 10:00	25.536	-0.078	0.162	0.504	-0.040	64.64	13.24	52.78	CO Upscale Bias
12/7/2007 10:00	25.610	-0.077	0.136	0.501	-0.040	64.65	13.24	52.83	CO Upscale Bias
12/7/2007 10:01	25.547	-0.078	0.131	0.476	-0.041	64.65	13.24	52.86	CO Upscale Bias
12/7/2007 10:01	25.268	-0.077	0.128	0.467	-0.041	64.66	13.24	52.88	CO Upscale Bias
12/7/2007 10:01	25.111	-0.078	0.129	0.442	-0.042	64.65	13.24	52.90	CO Upscale Bias
12/7/2007 10:01	25.150	-0.077	0.130	0.445	-0.044	64.66	13.24	52.96	CO Upscale Bias
Average	**25.368**	**-0.078**	**0.139**	**0.477**	**-0.041**				
12/7/2007 10:08	-0.296	12.152	0.096	0.291	12.213	64.85	13.24	49.96	O2 Upscale Bias

12/7/2007 10:08	-0.158	12.152	0.096	0.291	12.212	64.87	13.24	49.73	O2 Upscale Bias
12/7/2007 10:08	0.118	12.155	0.093	0.289	12.212	64.88	13.24	49.51	O2 Upscale Bias
12/7/2007 10:08	0.183	12.159	0.094	0.263	12.216	64.89	13.24	49.35	O2 Upscale Bias
12/7/2007 10:09	0.096	12.159	0.092	0.259	12.220	64.90	13.24	49.15	O2 Upscale Bias
12/7/2007 10:09	-0.182	12.163	0.094	0.257	12.220	64.91	13.24	48.88	O2 Upscale Bias
12/7/2007 10:09	-0.368	12.163	0.097	0.256	12.223	64.92	13.24	48.64	O2 Upscale Bias
Average	**-0.087**	**12.157**	**0.095**	**0.272**	**12.217**				
12/7/2007 10:12	0.228	-0.032	51.578	51.557	-0.045	65.13	13.24	45.76	NOx Upscale Bias
12/7/2007 10:13	0.405	-0.036	51.663	51.531	-0.049	65.13	13.24	45.68	NOx Upscale Bias
12/7/2007 10:13	0.446	-0.039	51.830	51.501	-0.052	65.15	13.24	45.60	NOx Upscale Bias
12/7/2007 10:13	0.200	-0.041	51.987	51.475	-0.054	65.15	13.24	45.48	NOx Upscale Bias
12/7/2007 10:13	-0.016	-0.046	51.967	51.529	-0.056	65.16	13.24	45.53	NOx Upscale Bias
12/7/2007 10:13	0.045	-0.048	51.903	51.591	-0.056	65.18	13.24	45.65	NOx Upscale Bias
12/7/2007 10:13	0.246	-0.049	51.876	51.656	-0.060	65.18	13.24	45.90	NOx Upscale Bias
Average	**0.222**	**-0.042**	**51.829**	**51.549**	**-0.053**				
12/7/2007 10:22	22.707	1.198	25.182	32.446	18.569	65.32	13.24	52.16	#2 Run
12/7/2007 10:22	22.427	1.197	25.131	32.425	18.577	65.32	13.24	52.19	#2 Run
12/7/2007 10:22	22.360	1.197	25.154	32.348	18.577	65.31	13.24	52.06	#2 Run
12/7/2007 10:22	22.562	1.197	25.181	32.274	18.595	65.32	13.24	51.76	#2 Run
12/7/2007 10:22	22.702	1.198	25.182	32.226	18.609	65.32	13.24	51.61	#2 Run
12/7/2007 10:23	22.668	1.199	25.192	32.276	18.610	65.32	13.24	51.39	#2 Run
12/7/2007 10:23	22.511	1.202	25.285	32.300	18.621	65.33	13.24	51.23	#2 Run
12/7/2007 10:23	22.258	1.199	25.390	32.241	18.608	65.33	13.24	50.98	#2 Run
12/7/2007 10:23	22.318	1.202	25.254	32.222	18.621	65.34	13.24	50.75	#2 Run
12/7/2007 10:23	22.562	1.202	25.107	32.293	18.636	65.34	13.24	50.61	#2 Run
12/7/2007 10:23	22.701	1.202	25.157	32.318	18.640	65.35	13.24	50.47	#2 Run
12/7/2007 10:24	22.729	1.200	25.245	32.236	18.646	65.35	13.24	50.25	#2 Run
12/7/2007 10:24	22.738	1.199	25.275	32.192	18.654	65.36	13.24	50.08	#2 Run
12/7/2007 10:24	22.510	1.199	25.287	32.224	18.663	65.37	13.24	49.90	#2 Run
12/7/2007 10:24	22.304	1.199	25.181	32.287	18.676	65.37	13.24	49.63	#2 Run
12/7/2007 10:24	22.380	1.199	25.101	32.130	18.678	65.38	13.24	49.39	#2 Run
12/7/2007 10:24	22.619	1.202	25.124	31.941	18.686	65.39	13.24	49.16	#2 Run
12/7/2007 10:25	22.897	1.201	25.146	32.010	18.681	65.40	13.24	48.94	#2 Run
12/7/2007 10:25	22.930	1.203	25.118	32.135	18.683	65.41	13.24	48.77	#2 Run
12/7/2007 10:25	22.942	1.203	25.093	32.192	18.665	65.42	13.24	48.49	#2 Run
12/7/2007 10:25	22.681	1.202	25.125	32.229	18.692	65.43	13.24	48.38	#2 Run
12/7/2007 10:25	22.443	1.202	25.150	32.120	18.702	65.44	13.24	48.19	#2 Run
12/7/2007 10:25	22.626	1.204	25.178	32.039	18.663	65.45	13.24	48.02	#2 Run
12/7/2007 10:26	22.808	1.206	25.171	32.115	18.670	65.45	13.24	47.84	#2 Run
12/7/2007 10:26	22.839	1.205	25.111	32.259	18.688	65.46	13.24	47.68	#2 Run
12/7/2007 10:26	22.847	1.205	25.045	32.328	18.691	65.48	13.24	47.46	#2 Run
12/7/2007 10:26	22.648	1.205	25.162	32.317	18.708	65.49	13.24	47.33	#2 Run
12/7/2007 10:26	22.449	1.206	25.239	32.204	18.701	65.49	13.24	47.22	#2 Run
12/7/2007 10:26	22.387	1.207	25.241	32.135	18.717	65.50	13.24	47.10	#2 Run
12/7/2007 10:27	22.668	1.207	25.238	32.233	18.720	65.51	13.24	46.93	#2 Run
12/7/2007 10:27	22.946	1.208	25.096	32.399	18.722	65.51	13.24	46.73	#2 Run
12/7/2007 10:27	23.038	1.211	24.994	32.349	18.725	65.52	13.24	46.58	#2 Run
12/7/2007 10:27	23.046	1.211	25.100	32.236	18.743	65.53	13.24	46.55	#2 Run
12/7/2007 10:27	22.814	1.211	25.178	32.217	18.735	65.53	13.24	46.50	#2 Run
12/7/2007 10:27	22.602	1.212	25.152	32.220	18.731	65.54	13.24	46.39	#2 Run
12/7/2007 10:28	22.722	1.212	25.120	32.325	18.737	65.56	13.24	46.28	#2 Run
12/7/2007 10:28	22.983	1.212	25.143	32.460	18.743	65.56	13.24	46.19	#2 Run
12/7/2007 10:28	23.104	1.211	25.182	32.364	18.743	65.57	13.24	46.08	#2 Run
12/7/2007 10:28	23.102	1.213	25.213	32.264	18.747	65.58	13.24	46.00	#2 Run
12/7/2007 10:28	23.039	1.211	25.239	32.397	18.752	65.58	13.24	45.89	#2 Run
12/7/2007 10:28	22.814	1.211	25.271	32.520	18.755	65.59	13.24	45.85	#2 Run
12/7/2007 10:29	22.632	1.211	25.295	32.370	18.759	65.60	13.24	45.80	#2 Run
12/7/2007 10:29	22.736	1.209	25.269	32.273	18.764	65.61	13.24	45.69	#2 Run
12/7/2007 10:29	22.922	1.206	25.239	32.405	18.754	65.62	13.24	45.62	#2 Run
12/7/2007 10:29	23.141	1.205	25.215	32.521	18.748	65.62	13.24	45.53	#2 Run
12/7/2007 10:29	23.115	1.208	25.202	32.357	18.756	65.64	13.24	45.43	#2 Run
12/7/2007 10:29	22.751	1.207	25.116	32.220	18.760	65.64	13.24	45.38	#2 Run
12/7/2007 10:30	22.399	1.208	25.071	32.299	18.766	65.64	13.24	45.32	#2 Run
12/7/2007 10:30	22.456	1.207	25.178	32.320	18.772	65.65	13.24	45.28	#2 Run
12/7/2007 10:30	22.681	1.209	25.291	32.291	18.771	65.66	13.24	45.20	#2 Run

12/7/2007 10:30	22.885	1.206	25.241	32.319	18.743	65.66	13.24	45.26	#2 Run
12/7/2007 10:30	23.000	1.208	25.167	32.345	18.752	65.68	13.24	45.39	#2 Run
12/7/2007 10:30	22.909	1.209	25.244	32.318	18.757	65.68	13.24	45.77	#2 Run
12/7/2007 10:31	22.606	1.210	25.350	32.295	18.762	65.69	13.24	46.10	#2 Run
12/7/2007 10:31	22.398	1.209	25.328	32.306	18.772	65.70	13.24	46.43	#2 Run
12/7/2007 10:31	22.478	1.208	25.322	32.452	18.777	65.70	13.24	46.64	#2 Run
12/7/2007 10:31	22.722	1.210	25.268	32.560	18.780	65.71	13.24	46.82	#2 Run
12/7/2007 10:31	22.984	1.210	25.214	32.480	18.783	65.71	13.24	46.96	#2 Run
12/7/2007 10:31	23.063	1.211	25.233	32.391	18.790	65.71	13.24	47.12	#2 Run
12/7/2007 10:32	22.903	1.209	25.264	32.293	18.795	65.72	13.24	47.28	#2 Run
12/7/2007 10:32	22.700	1.209	25.231	32.211	18.792	65.73	13.24	47.47	#2 Run
12/7/2007 10:32	22.732	1.209	25.205	32.299	18.788	65.73	13.24	47.53	#2 Run
12/7/2007 10:32	22.861	1.206	25.175	32.375	18.790	65.73	13.24	47.60	#2 Run
12/7/2007 10:32	23.002	1.211	25.149	32.352	18.805	65.73	13.24	47.70	#2 Run
12/7/2007 10:32	22.961	1.206	25.232	32.298	18.779	65.73	13.24	47.85	#2 Run
12/7/2007 10:33	22.777	1.209	25.318	32.205	18.796	65.73	13.24	48.02	#2 Run
12/7/2007 10:33	22.492	1.211	25.296	32.154	18.800	65.73	13.24	48.17	#2 Run
12/7/2007 10:33	22.388	1.213	25.285	32.242	18.799	65.74	13.24	48.30	#2 Run
12/7/2007 10:33	22.661	1.212	25.192	32.351	18.800	65.73	13.24	48.55	#2 Run
12/7/2007 10:33	22.884	1.211	25.087	32.348	18.790	65.73	13.24	48.76	#2 Run
12/7/2007 10:33	23.042	1.211	25.165	32.326	18.791	65.74	13.24	48.94	#2 Run
12/7/2007 10:34	23.021	1.208	25.253	32.267	18.782	65.74	13.24	49.00	#2 Run
12/7/2007 10:34	22.777	1.212	25.235	32.222	18.796	65.74	13.24	49.22	#2 Run
12/7/2007 10:34	22.598	1.214	25.232	32.340	18.805	65.74	13.24	49.45	#2 Run
12/7/2007 10:34	22.662	1.215	25.143	32.475	18.800	65.74	13.24	49.56	#2 Run
12/7/2007 10:34	22.831	1.215	25.101	32.501	18.807	65.74	13.24	49.85	#2 Run
12/7/2007 10:34	22.938	1.216	25.231	32.492	18.803	65.74	13.24	49.97	#2 Run
12/7/2007 10:35	23.043	1.213	25.367	32.383	18.792	65.74	13.24	50.10	#2 Run
12/7/2007 10:35	23.022	1.213	25.325	32.302	18.805	65.74	13.24	50.27	#2 Run
12/7/2007 10:35	22.737	1.214	25.267	32.435	18.803	65.74	13.24	50.40	#2 Run
12/7/2007 10:35	22.495	1.214	25.300	32.547	18.794	65.74	13.24	50.45	#2 Run
12/7/2007 10:35	22.618	1.216	25.321	32.402	18.801	65.74	13.24	50.50	#2 Run
12/7/2007 10:35	22.960	1.216	25.260	32.333	18.806	65.74	13.24	50.55	#2 Run
12/7/2007 10:36	23.141	1.217	25.235	32.455	18.810	65.74	13.24	50.58	#2 Run
12/7/2007 10:36	23.204	1.215	25.212	32.564	18.813	65.74	13.24	50.64	#2 Run
12/7/2007 10:36	23.079	1.216	25.193	32.504	18.818	65.74	13.24	50.70	#2 Run
12/7/2007 10:36	22.781	1.215	25.303	32.444	18.813	65.74	13.24	50.73	#2 Run
12/7/2007 10:36	22.679	1.213	25.373	32.446	18.804	65.74	13.24	50.71	#2 Run
12/7/2007 10:36	22.829	1.211	25.255	32.482	18.812	65.75	13.24	50.71	#2 Run
12/7/2007 10:37	22.932	1.213	25.182	32.528	18.819	65.75	13.24	50.73	#2 Run
12/7/2007 10:37	23.078	1.214	25.207	32.497	18.814	65.75	13.24	50.74	#2 Run
12/7/2007 10:37	23.161	1.213	25.264	32.413	18.819	65.75	13.24	50.73	#2 Run
12/7/2007 10:37	22.933	1.214	25.207	32.332	18.830	65.75	13.24	50.67	#2 Run
12/7/2007 10:37	22.538	1.213	25.159	32.377	18.822	65.75	13.24	50.53	#2 Run
12/7/2007 10:37	22.297	1.213	25.317	32.416	18.818	65.75	13.24	50.40	#2 Run
12/7/2007 10:38	22.414	1.213	25.477	32.447	18.829	65.75	13.24	50.29	#2 Run
12/7/2007 10:38	22.655	1.213	25.444	32.484	18.826	65.76	13.24	50.17	#2 Run
12/7/2007 10:38	22.799	1.210	25.415	32.337	18.815	65.76	13.24	50.07	#2 Run
12/7/2007 10:38	22.679	1.210	25.358	32.203	18.814	65.75	13.24	49.97	#2 Run
12/7/2007 10:38	22.378	1.211	25.305	32.361	18.826	65.76	13.24	49.83	#2 Run
12/7/2007 10:38	22.239	1.210	25.359	32.503	18.831	65.76	13.24	49.67	#2 Run
12/7/2007 10:39	22.381	1.213	25.405	32.373	18.834	65.77	13.24	49.48	#2 Run
12/7/2007 10:39	22.591	1.211	25.314	32.301	18.824	65.77	13.24	49.22	#2 Run
12/7/2007 10:39	22.760	1.211	25.244	32.387	18.833	65.78	13.24	48.99	#2 Run
12/7/2007 10:39	22.820	1.210	25.345	32.441	18.825	65.78	13.24	48.86	#2 Run
12/7/2007 10:39	22.499	1.209	25.464	32.384	18.823	65.79	13.24	48.73	#2 Run
12/7/2007 10:39	22.197	1.211	25.328	32.410	18.838	65.80	13.24	48.53	#2 Run
12/7/2007 10:40	22.236	1.211	25.215	32.382	18.845	65.80	13.24	48.38	#2 Run
12/7/2007 10:40	22.337	1.212	25.337	32.327	18.850	65.81	13.24	48.22	#2 Run
12/7/2007 10:40	22.492	1.212	25.465	32.394	18.847	65.81	13.24	48.11	#2 Run
12/7/2007 10:40	22.624	1.209	25.368	32.495	18.833	65.82	13.24	47.88	#2 Run
12/7/2007 10:40	22.535	1.211	25.266	32.402	18.850	65.82	13.24	47.70	#2 Run
12/7/2007 10:40	22.176	1.210	25.372	32.294	18.848	65.83	13.24	47.53	#2 Run
12/7/2007 10:41	22.035	1.209	25.458	32.357	18.842	65.83	13.24	47.38	#2 Run
12/7/2007 10:41	22.178	1.208	25.404	32.468	18.853	65.84	13.24	47.21	#2 Run

12/7/2007 10:41	22.378	1.209	25.354	32.401	18.840	65.85	13.24	47.06	#2 Run
12/7/2007 10:41	22.598	1.210	25.383	32.325	18.848	65.85	13.24	46.87	#2 Run
12/7/2007 10:41	22.696	1.210	25.407	32.383	18.866	65.85	13.24	46.61	#2 Run
12/7/2007 10:41	22.537	1.207	25.359	32.467	18.854	65.86	13.24	46.43	#2 Run
12/7/2007 10:42	22.258	1.207	25.300	32.359	18.864	65.86	13.24	46.28	#2 Run
12/7/2007 10:42	22.234	1.205	25.297	32.251	18.862	65.87	13.24	46.21	#2 Run
12/7/2007 10:42	22.376	1.208	25.302	32.331	18.870	65.88	13.24	45.98	#2 Run
12/7/2007 10:42	22.536	1.206	25.358	32.431	18.855	65.89	13.24	45.87	#2 Run
12/7/2007 10:42	22.698	1.206	25.402	32.372	18.854	65.89	13.24	45.76	#2 Run
12/7/2007 10:42	22.718	1.208	25.314	32.351	18.872	65.89	13.24	45.61	#2 Run
12/7/2007 10:43	22.433	1.209	25.235	32.413	18.869	65.90	13.24	45.45	#2 Run
12/7/2007 10:43	22.158	1.208	25.352	32.433	18.868	65.91	13.24	45.34	#2 Run
12/7/2007 10:43	22.218	1.206	25.466	32.443	18.868	65.90	13.24	45.19	#2 Run
12/7/2007 10:43	22.515	1.207	25.344	32.503	18.859	65.91	13.24	45.10	#2 Run
12/7/2007 10:43	22.693	1.205	25.244	32.493	18.858	65.92	13.24	44.95	#2 Run
12/7/2007 10:43	22.696	1.207	25.362	32.445	18.878	65.92	13.24	44.81	#2 Run
12/7/2007 10:44	22.533	1.208	25.442	32.481	18.879	65.92	13.24	44.71	#2 Run
12/7/2007 10:44	22.256	1.208	25.446	32.530	18.875	65.93	13.24	44.61	#2 Run
12/7/2007 10:44	22.281	1.207	25.438	32.422	18.859	65.93	13.24	44.52	#2 Run
12/7/2007 10:44	22.520	1.210	25.346	32.312	18.870	65.94	13.24	44.40	#2 Run
12/7/2007 10:44	22.780	1.210	25.295	32.387	18.861	65.94	13.24	44.30	#2 Run
12/7/2007 10:44	22.941	1.207	25.303	32.433	18.841	65.95	13.24	44.19	#2 Run
12/7/2007 10:45	22.899	1.210	25.316	32.342	18.844	65.95	13.24	44.08	#2 Run
12/7/2007 10:45	22.702	1.213	25.224	32.303	18.845	65.96	13.24	44.01	#2 Run
12/7/2007 10:45	22.637	1.214	25.118	32.410	18.847	65.95	13.24	43.90	#2 Run
12/7/2007 10:45	22.741	1.212	25.235	32.437	18.850	65.96	13.24	43.86	#2 Run
12/7/2007 10:45	22.920	1.210	25.379	32.409	18.852	65.97	13.24	43.78	#2 Run
12/7/2007 10:45	23.139	1.211	25.349	32.396	18.852	65.98	13.24	43.65	#2 Run
12/7/2007 10:46	23.160	1.210	25.329	32.544	18.853	65.98	13.24	43.52	#2 Run
12/7/2007 10:46	22.897	1.211	25.384	32.638	18.853	65.98	13.24	43.45	#2 Run
12/7/2007 10:46	22.546	1.211	25.415	32.493	18.853	65.99	13.24	43.40	#2 Run
12/7/2007 10:46	22.438	1.210	25.445	32.378	18.856	65.99	13.24	43.48	#2 Run
12/7/2007 10:46	22.657	1.210	25.433	32.460	18.857	65.99	13.24	43.75	#2 Run
12/7/2007 10:46	22.979	1.211	25.345	32.601	18.859	66.00	13.24	44.05	#2 Run
12/7/2007 10:47	23.180	1.210	25.294	32.622	18.861	66.00	13.24	44.25	#2 Run
12/7/2007 10:47	23.180	1.210	25.295	32.615	18.862	66.01	13.24	44.46	#2 Run
12/7/2007 10:47	22.746	1.209	25.334	32.580	18.867	66.01	13.24	44.60	#2 Run
12/7/2007 10:47	22.495	1.210	25.412	32.524	18.864	66.01	13.24	44.68	#2 Run
12/7/2007 10:47	22.575	1.211	25.523	32.501	18.869	66.02	13.24	44.78	#2 Run
12/7/2007 10:47	22.779	1.211	25.505	32.503	18.867	66.02	13.24	45.08	#2 Run
12/7/2007 10:48	22.939	1.213	25.463	32.590	18.869	66.02	13.24	45.27	#2 Run
12/7/2007 10:48	23.081	1.214	25.341	32.673	18.868	66.03	13.24	45.74	#2 Run
12/7/2007 10:48	23.147	1.214	25.262	32.614	18.872	66.03	13.24	46.27	#2 Run
12/7/2007 10:48	22.950	1.213	25.292	32.559	18.874	66.03	13.24	46.58	#2 Run
12/7/2007 10:48	22.846	1.213	25.290	32.492	18.876	66.03	13.24	46.63	#2 Run
12/7/2007 10:48	22.892	1.211	25.369	32.413	18.840	66.03	13.24	46.87	#2 Run
12/7/2007 10:49	22.935	1.212	25.460	32.470	18.844	66.04	13.24	47.28	#2 Run
12/7/2007 10:49	23.081	1.213	25.436	32.560	18.850	66.03	13.24	47.59	#2 Run
12/7/2007 10:49	23.159	1.214	25.438	32.662	18.850	66.04	13.24	47.79	#2 Run
12/7/2007 10:49	22.978	1.216	25.443	32.761	18.847	66.04	13.24	48.01	#2 Run
12/7/2007 10:49	22.746	1.219	25.471	32.663	18.847	66.04	13.24	48.06	#2 Run
12/7/2007 10:49	22.746	1.220	25.505	32.565	18.848	66.04	13.24	48.16	#2 Run
12/7/2007 10:50	22.892	1.219	25.530	32.650	18.851	66.04	13.24	48.23	#2 Run
12/7/2007 10:50	23.036	1.220	25.475	32.769	18.855	66.05	13.24	48.27	#2 Run
12/7/2007 10:50	23.176	1.220	25.421	32.831	18.858	66.05	13.24	48.39	#2 Run
12/7/2007 10:50	23.257	1.220	25.512	32.816	18.861	66.05	13.24	48.60	#2 Run
12/7/2007 10:50	23.051	1.220	25.584	32.702	18.863	66.05	13.24	48.80	#2 Run
12/7/2007 10:50	22.800	1.222	25.558	32.629	18.863	66.05	13.24	48.95	#2 Run
12/7/2007 10:51	22.798	1.223	25.505	32.720	18.862	66.04	13.24	49.05	#2 Run
12/7/2007 10:51	22.995	1.221	25.448	32.824	18.865	66.04	13.24	49.18	#2 Run
12/7/2007 10:51	23.142	1.223	25.428	32.797	18.865	66.05	13.24	49.32	#2 Run
12/7/2007 10:51	23.237	1.222	25.544	32.738	18.867	66.05	13.24	49.51	#2 Run
12/7/2007 10:51	23.176	1.222	25.609	32.713	18.872	66.05	13.24	49.60	#2 Run
12/7/2007 10:51	22.795	1.220	25.520	32.746	18.861	66.05	13.24	49.70	#2 Run
12/7/2007 10:52	22.596	1.221	25.450	32.762	18.852	66.05	13.24	49.76	#2 Run

12/7/2007 10:52	22.748	1.222	25.507	32.729	18.855	66.06	13.24	49.84	#2 Run
12/7/2007 10:52	23.049	1.221	25.553	32.617	18.860	66.05	13.24	49.90	#2 Run
12/7/2007 10:52	23.154	1.222	25.563	32.498	18.865	66.05	13.24	49.99	#2 Run
12/7/2007 10:52	23.133	1.218	25.553	32.608	18.863	66.06	13.24	50.04	#2 Run
12/7/2007 10:52	23.157	1.218	25.497	32.743	18.871	66.06	13.24	50.09	#2 Run
12/7/2007 10:53	22.797	1.218	25.446	32.742	18.870	66.06	13.24	50.13	#2 Run
12/7/2007 10:53	22.546	1.217	25.512	32.708	18.865	66.06	13.24	50.16	#2 Run
12/7/2007 10:53	22.798	1.217	25.591	32.680	18.864	66.07	13.24	50.16	#2 Run
12/7/2007 10:53	22.999	1.219	25.622	32.656	18.871	66.06	13.24	50.16	#2 Run
12/7/2007 10:53	23.037	1.217	25.652	32.679	18.869	66.07	13.24	50.18	#2 Run
12/7/2007 10:53	23.136	1.217	25.622	32.716	18.873	66.07	13.24	50.19	#2 Run
12/7/2007 10:54	22.998	1.216	25.584	32.783	18.874	66.07	13.24	50.20	#2 Run
12/7/2007 10:54	22.493	1.214	25.531	32.850	18.877	66.06	13.24	50.22	#2 Run
12/7/2007 10:54	22.297	1.214	25.478	32.794	18.878	66.07	13.24	50.26	#2 Run
12/7/2007 10:54	22.399	1.215	25.562	32.737	18.876	66.07	13.24	50.27	#2 Run
12/7/2007 10:54	22.696	1.217	25.637	32.654	18.873	66.07	13.24	50.28	#2 Run
12/7/2007 10:54	22.944	1.216	25.586	32.578	18.878	66.08	13.24	50.29	#2 Run
12/7/2007 10:55	22.995	1.215	25.527	32.623	18.870	66.07	13.24	50.29	#2 Run
12/7/2007 10:55	22.914	1.216	25.434	32.657	18.869	66.08	13.24	50.27	#2 Run
12/7/2007 10:55	22.644	1.215	25.358	32.715	18.877	66.08	13.24	50.26	#2 Run
12/7/2007 10:55	22.448	1.216	25.449	32.709	18.873	66.08	13.24	50.24	#2 Run
12/7/2007 10:55	22.447	1.214	25.532	32.681	18.858	66.08	13.24	50.21	#2 Run
12/7/2007 10:55	22.649	1.216	25.587	32.657	18.868	66.09	13.24	50.20	#2 Run
12/7/2007 10:56	22.884	1.215	25.618	32.599	18.871	66.09	13.24	50.22	#2 Run
12/7/2007 10:56	22.953	1.216	25.557	32.581	18.876	66.10	13.24	50.21	#2 Run
12/7/2007 10:56	22.731	1.216	25.507	32.694	18.868	66.10	13.24	50.24	#2 Run
12/7/2007 10:56	22.393	1.216	25.538	32.799	18.870	66.10	13.24	50.23	#2 Run
12/7/2007 10:56	22.296	1.216	25.568	32.708	18.871	66.11	13.24	50.24	#2 Run
12/7/2007 10:56	22.395	1.216	25.593	32.626	18.879	66.11	13.24	50.26	#2 Run
12/7/2007 10:57	22.548	1.214	25.616	32.623	18.864	66.11	13.24	50.29	#2 Run
12/7/2007 10:57	22.596	1.210	25.627	32.661	18.844	66.12	13.24	50.32	#2 Run
12/7/2007 10:57	22.515	1.211	25.624	32.753	18.853	66.12	13.24	50.31	#2 Run
12/7/2007 10:57	22.246	1.208	25.623	32.825	18.860	66.13	13.24	50.26	#2 Run
12/7/2007 10:57	22.147	1.208	25.620	32.771	18.864	66.13	13.24	50.15	#2 Run
12/7/2007 10:57	22.197	1.210	25.586	32.707	18.865	66.13	13.24	49.98	#2 Run
12/7/2007 10:58	22.397	1.210	25.566	32.616	18.868	66.14	13.24	49.85	#2 Run
12/7/2007 10:58	22.751	1.212	25.535	32.569	18.867	66.14	13.24	49.71	#2 Run
12/7/2007 10:58	22.950	1.213	25.496	32.626	18.868	66.15	13.24	49.56	#2 Run
12/7/2007 10:58	22.838	1.213	25.370	32.707	18.871	66.15	13.24	49.47	#2 Run
12/7/2007 10:58	22.496	1.216	25.305	32.647	18.866	66.16	13.24	49.28	#2 Run
12/7/2007 10:58	22.543	1.218	25.393	32.573	18.864	66.17	13.24	49.13	#2 Run
12/7/2007 10:59	22.845	1.219	25.464	32.632	18.866	66.18	13.24	48.92	#2 Run
12/7/2007 10:59	22.998	1.219	25.416	32.716	18.866	66.19	13.24	48.74	#2 Run
12/7/2007 10:59	23.044	1.219	25.392	32.711	18.870	66.19	13.24	48.55	#2 Run
12/7/2007 10:59	22.998	1.217	25.416	32.651	18.875	66.20	13.24	48.36	#2 Run
12/7/2007 10:59	22.773	1.216	25.471	32.589	18.878	66.21	13.24	48.09	#2 Run
12/7/2007 10:59	22.595	1.217	25.406	32.598	18.880	66.22	13.24	47.89	#2 Run
12/7/2007 11:00	22.640	1.218	25.368	32.654	18.879	66.23	13.24	47.77	#2 Run
12/7/2007 11:00	22.744	1.218	25.476	32.645	18.877	66.24	13.24	47.57	#2 Run
12/7/2007 11:00	22.848	1.217	25.583	32.564	18.879	66.25	13.24	47.37	#2 Run
12/7/2007 11:00	22.849	1.217	25.532	32.518	18.880	66.25	13.24	47.24	#2 Run
12/7/2007 11:00	22.694	1.217	25.476	32.634	18.882	66.27	13.24	47.05	#2 Run
12/7/2007 11:00	22.455	1.217	25.473	32.738	18.882	66.28	13.24	46.84	#2 Run
12/7/2007 11:01	22.345	1.218	25.453	32.678	18.884	66.28	13.24	46.63	#2 Run
12/7/2007 11:01	22.542	1.217	25.541	32.624	18.883	66.29	13.24	46.45	#2 Run
12/7/2007 11:01	22.744	1.217	25.590	32.625	18.885	66.30	13.24	46.27	#2 Run
12/7/2007 11:01	22.894	1.218	25.563	32.655	18.885	66.30	13.24	46.17	#2 Run
12/7/2007 11:01	22.847	1.218	25.541	32.743	18.889	66.31	13.24	46.04	#2 Run
12/7/2007 11:01	22.496	1.218	25.566	32.816	18.885	66.32	13.24	45.91	#2 Run
12/7/2007 11:02	22.299	1.217	25.596	32.700	18.889	66.33	13.24	45.66	#2 Run
12/7/2007 11:02	22.396	1.217	25.627	32.629	18.889	66.33	13.24	45.51	#2 Run
12/7/2007 11:02	22.545	1.217	25.642	32.689	18.890	66.34	13.24	45.46	#2 Run
12/7/2007 11:02	22.751	1.219	25.560	32.768	18.890	66.36	13.24	45.32	#2 Run
12/7/2007 11:02	22.897	1.218	25.489	32.741	18.890	66.37	13.24	45.18	#2 Run
12/7/2007 11:02	22.796	1.217	25.537	32.706	18.891	66.37	13.24	45.09	#2 Run

12/7/2007 11:03	22.457	1.216	25.560	32.612	18.876	66.38	13.24	44.94	#2 Run
12/7/2007 11:03	22.412	1.214	25.559	32.546	18.860	66.39	13.24	44.82	#2 Run
12/7/2007 11:03	22.650	1.214	25.534	32.691	18.867	66.40	13.24	44.65	#2 Run
12/7/2007 11:03	22.846	1.214	25.567	32.789	18.875	66.41	13.24	44.57	#2 Run
12/7/2007 11:03	22.947	1.215	25.588	32.669	18.876	66.41	13.24	44.47	#2 Run
12/7/2007 11:03	22.846	1.216	25.562	32.589	18.879	66.42	13.24	44.37	#2 Run
12/7/2007 11:04	22.593	1.215	25.532	32.681	18.883	66.43	13.24	44.34	#2 Run
12/7/2007 11:04	22.497	1.215	25.535	32.786	18.885	66.44	13.24	44.16	#2 Run
12/7/2007 11:04	22.499	1.217	25.557	32.667	18.886	66.44	13.24	44.05	#2 Run
12/7/2007 11:04	22.548	1.215	25.528	32.573	18.890	66.46	13.24	43.93	#2 Run
12/7/2007 11:04	22.797	1.213	25.507	32.687	18.857	66.45	13.24	43.83	#2 Run
12/7/2007 11:04	22.999	1.214	25.591	32.764	18.862	66.46	13.24	43.73	#2 Run
12/7/2007 11:05	22.801	1.214	25.643	32.679	18.869	66.46	13.24	43.64	#2 Run
12/7/2007 11:05	22.499	1.217	25.619	32.616	18.874	66.47	13.24	43.58	#2 Run
12/7/2007 11:05	22.398	1.219	25.595	32.782	18.874	66.48	13.24	43.58	#2 Run
12/7/2007 11:05	22.518	1.221	25.657	32.880	18.875	66.48	13.24	43.64	#2 Run
12/7/2007 11:05	22.748	1.222	25.724	32.794	18.878	66.49	13.24	43.84	#2 Run
12/7/2007 11:05	22.949	1.222	25.754	32.742	18.876	66.49	13.24	44.25	#2 Run
12/7/2007 11:06	22.850	1.223	25.779	32.811	18.878	66.50	13.24	44.73	#2 Run
12/7/2007 11:06	22.595	1.222	25.686	32.915	18.883	66.50	13.24	45.82	#2 Run
12/7/2007 11:06	22.547	1.218	25.624	32.889	18.875	66.52	13.24	47.10	#2 Run
12/7/2007 11:06	22.657	1.216	25.622	32.852	18.883	66.53	13.24	47.46	#2 Run
12/7/2007 11:06	22.816	1.216	25.650	32.826	18.864	66.53	13.24	47.35	#2 Run
12/7/2007 11:06	23.002	1.215	25.645	32.815	18.874	66.54	13.24	47.31	#2 Run
12/7/2007 11:07	23.147	1.216	25.615	32.695	18.886	66.54	13.24	47.38	#2 Run
12/7/2007 11:07	23.047	1.216	25.590	32.596	18.895	66.55	13.24	47.45	#2 Run
12/7/2007 11:07	22.799	1.215	25.535	32.645	18.886	66.55	13.24	47.59	#2 Run
12/7/2007 11:07	22.750	1.212	25.468	32.703	18.877	66.55	13.24	47.95	#2 Run
12/7/2007 11:07	22.980	1.208	25.410	32.705	18.877	66.55	13.24	48.41	#2 Run
12/7/2007 11:07	23.282	1.210	25.407	32.666	18.894	66.55	13.24	48.81	#2 Run
12/7/2007 11:08	23.461	1.212	25.407	32.549	18.877	66.56	13.24	49.06	#2 Run
12/7/2007 11:08	23.354	1.217	25.407	32.472	18.890	66.56	13.24	49.25	#2 Run
12/7/2007 11:08	23.048	1.214	25.408	32.465	18.862	66.56	13.24	49.47	#2 Run
12/7/2007 11:08	22.853	1.216	25.498	32.438	18.871	66.56	13.24	49.55	#2 Run
12/7/2007 11:08	22.850	1.217	25.584	32.591	18.884	66.56	13.24	49.31	#2 Run
12/7/2007 11:08	22.961	1.220	25.559	32.773	18.890	66.56	13.24	49.26	#2 Run
12/7/2007 11:09	23.121	1.215	25.533	32.810	18.874	66.56	13.24	49.48	#2 Run
12/7/2007 11:09	23.260	1.217	25.498	32.858	18.866	66.56	13.24	49.56	#2 Run
12/7/2007 11:09	23.202	1.218	25.487	32.826	18.883	66.56	13.24	49.64	#2 Run
12/7/2007 11:09	22.898	1.220	25.564	32.795	18.881	66.56	13.24	49.82	#2 Run
12/7/2007 11:09	22.654	1.221	25.612	32.743	18.871	66.57	13.24	49.85	#2 Run
12/7/2007 11:09	22.752	1.222	25.584	32.717	18.878	66.56	13.24	49.88	#2 Run
12/7/2007 11:10	23.020	1.222	25.588	32.779	18.870	66.56	13.24	49.90	#2 Run
12/7/2007 11:10	23.099	1.221	25.560	32.832	18.868	66.57	13.24	49.88	#2 Run
12/7/2007 11:10	23.102	1.222	25.568	32.858	18.874	66.57	13.24	49.85	#2 Run
12/7/2007 11:10	22.899	1.218	25.642	32.849	18.848	66.57	13.24	49.79	#2 Run
12/7/2007 11:10	22.547	1.218	25.720	32.727	18.851	66.57	13.24	49.68	#2 Run
12/7/2007 11:10	22.499	1.222	25.682	32.660	18.855	66.57	13.24	49.58	#2 Run
12/7/2007 11:11	22.752	1.220	25.617	32.748	18.861	66.57	13.24	49.55	#2 Run
12/7/2007 11:11	22.964	1.220	25.555	32.833	18.866	66.57	13.24	49.59	#2 Run
12/7/2007 11:11	23.060	1.222	25.515	32.828	18.867	66.57	13.24	49.73	#2 Run
12/7/2007 11:11	22.983	1.222	25.631	32.795	18.871	66.57	13.24	49.84	#2 Run
12/7/2007 11:11	22.750	1.222	25.719	32.737	18.874	66.57	13.24	49.98	#2 Run
12/7/2007 11:11	22.653	1.221	25.677	32.699	18.878	66.58	13.24	50.01	#2 Run
12/7/2007 11:12	22.750	1.222	25.621	32.778	18.881	66.57	13.24	50.09	#2 Run
12/7/2007 11:12	22.921	1.221	25.626	32.859	18.884	66.58	13.24	50.13	#2 Run
12/7/2007 11:12	23.060	1.221	25.663	32.858	18.869	66.58	13.24	50.17	#2 Run
12/7/2007 11:12	23.045	1.220	25.728	32.855	18.863	66.58	13.24	50.19	#2 Run
12/7/2007 11:12	22.761	1.221	25.804	32.795	18.870	66.58	13.24	50.24	#2 Run
12/7/2007 11:12	22.490	1.222	25.712	32.750	18.872	66.59	13.24	50.27	#2 Run
12/7/2007 11:13	22.548	1.222	25.647	32.807	18.881	66.59	13.24	50.28	#2 Run
12/7/2007 11:13	22.852	1.222	25.588	32.852	18.889	66.59	13.24	50.28	#2 Run
12/7/2007 11:13	23.150	1.222	25.564	32.829	18.877	66.59	13.24	50.25	#2 Run
12/7/2007 11:13	23.422	1.221	25.595	32.791	18.881	66.59	13.24	50.21	#2 Run
12/7/2007 11:13	23.382	1.222	25.626	32.671	18.884	66.59	13.24	50.19	#2 Run

12/7/2007 11:13	23.002	1.221	25.621	32.606	18.880	66.60	13.24	50.17	#2 Run
12/7/2007 11:14	22.795	1.220	25.588	32.754	18.879	66.59	13.24	50.16	#2 Run
12/7/2007 11:14	22.898	1.220	25.555	32.858	18.873	66.60	13.24	50.19	#2 Run
12/7/2007 11:14	23.154	1.220	25.509	32.855	18.881	66.60	13.24	50.20	#2 Run
12/7/2007 11:14	23.300	1.221	25.570	32.797	18.880	66.59	13.24	50.16	#2 Run
12/7/2007 11:14	23.300	1.219	25.627	32.739	18.865	66.60	13.24	49.99	#2 Run
12/7/2007 11:14	23.121	1.221	25.653	32.709	18.882	66.59	13.24	49.80	#2 Run
12/7/2007 11:15	22.702	1.218	25.651	32.717	18.876	66.59	13.24	49.50	#2 Run
12/7/2007 11:15	22.503	1.216	25.619	32.741	18.883	66.60	13.24	49.35	#2 Run
12/7/2007 11:15	22.604	1.218	25.555	32.742	18.878	66.60	13.24	49.21	#2 Run
12/7/2007 11:15	22.850	1.216	25.471	32.748	18.888	66.60	13.24	49.06	#2 Run
12/7/2007 11:15	23.182	1.216	25.422	32.778	18.869	66.60	13.24	48.97	#2 Run
12/7/2007 11:15	23.301	1.215	25.482	32.768	18.870	66.61	13.24	48.88	#2 Run
12/7/2007 11:16	23.061	1.219	25.527	32.711	18.886	66.61	13.24	48.77	#2 Run
12/7/2007 11:16	22.658	1.218	25.475	32.721	18.884	66.61	13.24	48.67	#2 Run
12/7/2007 11:16	22.561	1.219	25.447	32.779	18.877	66.61	13.24	48.57	#2 Run
12/7/2007 11:16	22.703	1.218	25.503	32.802	18.874	66.62	13.24	48.30	#2 Run
12/7/2007 11:16	22.852	1.221	25.566	32.680	18.873	66.62	13.24	48.12	#2 Run
12/7/2007 11:16	23.019	1.222	25.596	32.589	18.878	66.62	13.24	48.39	#2 Run
12/7/2007 11:17	23.099	1.221	25.652	32.794	18.871	66.62	13.24	48.44	#2 Run
12/7/2007 11:17	22.924	1.221	25.617	32.960	18.875	66.63	13.24	48.66	#2 Run
12/7/2007 11:17	22.622	1.219	25.600	32.808	18.861	66.64	13.24	48.86	#2 Run
12/7/2007 11:17	22.560	1.222	25.629	32.709	18.871	66.64	13.24	48.83	#2 Run
12/7/2007 11:17	22.704	1.221	25.674	32.824	18.868	66.64	13.24	48.91	#2 Run
12/7/2007 11:17	22.955	1.221	25.619	32.979	18.865	66.64	13.24	48.87	#2 Run
12/7/2007 11:18	23.165	1.222	25.571	32.905	18.881	66.65	13.24	48.73	#2 Run
12/7/2007 11:18	23.021	1.223	25.657	32.809	18.874	66.65	13.24	48.52	#2 Run
12/7/2007 11:18	22.660	1.221	25.717	32.902	18.857	66.65	13.24	48.52	#2 Run
12/7/2007 11:18	22.500	1.221	25.670	33.023	18.879	66.65	13.24	48.22	#2 Run
12/7/2007 11:18	22.678	1.222	25.624	32.900	18.877	66.66	13.24	47.96	#2 Run
12/7/2007 11:18	22.855	1.223	25.688	32.803	18.862	66.66	13.24	47.58	#2 Run
12/7/2007 11:19	22.949	1.224	25.777	32.894	18.876	66.66	13.24	47.47	#2 Run
12/7/2007 11:19	23.000	1.223	25.714	33.001	18.872	66.66	13.24	47.52	#2 Run
12/7/2007 11:19	22.758	1.225	25.661	32.942	18.876	66.66	13.24	47.93	#2 Run
12/7/2007 11:19	22.481	1.224	25.754	32.867	18.876	66.67	13.24	48.06	#2 Run
12/7/2007 11:19	22.459	1.221	25.794	32.932	18.870	66.66	13.24	47.38	#2 Run
12/7/2007 11:19	22.622	1.221	25.717	33.002	18.869	66.66	13.24	47.11	#2 Run
12/7/2007 11:20	22.835	1.223	25.671	32.972	18.876	66.67	13.24	46.75	#2 Run
12/7/2007 11:20	22.854	1.219	25.823	32.926	18.880	66.67	13.24	46.39	#2 Run
12/7/2007 11:20	22.741	1.218	25.925	32.992	18.886	66.67	13.24	46.18	#2 Run
12/7/2007 11:20	22.522	1.215	25.827	33.096	18.864	66.67	13.24	46.00	#2 Run
12/7/2007 11:20	22.401	1.217	25.724	33.059	18.883	66.67	13.24	46.19	#2 Run
12/7/2007 11:20	22.584	1.216	25.792	32.962	18.863	66.67	13.24	46.14	#2 Run
12/7/2007 11:21	22.822	1.217	25.832	32.804	18.870	66.67	13.24	46.12	#2 Run
12/7/2007 11:21	23.042	1.217	25.805	32.711	18.883	66.68	13.24	46.18	#2 Run
12/7/2007 11:21	23.006	1.219	25.775	32.806	18.877	66.68	13.24	46.69	#2 Run
12/7/2007 11:21	22.722	1.220	25.711	32.918	18.870	66.68	13.24	47.38	#2 Run
12/7/2007 11:21	22.543	1.220	25.631	32.881	18.884	66.69	13.24	48.35	#2 Run
12/7/2007 11:21	22.683	1.218	25.692	32.820	18.869	66.69	13.24	48.85	#2 Run
12/7/2007 11:22	22.982	1.221	25.744	32.740	18.885	66.69	13.24	49.01	#2 Run
12/7/2007 11:22	23.161	1.220	25.721	32.692	18.862	66.70	13.24	49.18	#2 Run
Average	**22.761**	**1.214**	**25.440**	**32.574**	**18.834**	**66.092**	**13.240**	**47.982**	
12/7/2007 11:28	25.333	-0.078	0.210	0.553	-0.035	66.72	13.24	49.41	CO Upscale Bias
12/7/2007 11:28	24.862	-0.078	0.214	0.526	-0.036	66.72	13.24	49.38	CO Upscale Bias
12/7/2007 11:28	24.713	-0.078	0.237	0.528	-0.039	66.72	13.24	49.23	CO Upscale Bias
12/7/2007 11:28	24.898	-0.079	0.208	0.529	-0.041	66.72	13.24	49.06	CO Upscale Bias
12/7/2007 11:28	25.192	-0.079	0.211	0.523	-0.043	66.72	13.24	48.97	CO Upscale Bias
12/7/2007 11:28	25.372	-0.079	0.212	0.492	-0.043	66.72	13.24	48.87	CO Upscale Bias
12/7/2007 11:29	25.294	-0.079	0.210	0.493	-0.045	66.72	13.24	48.79	CO Upscale Bias
Average	**25.095**	**-0.079**	**0.214**	**0.521**	**-0.040**				
12/7/2007 11:32	-0.457	11.970	0.175	0.482	12.050	66.78	13.24	48.22	O2 Upscale Bias
12/7/2007 11:32	-0.827	11.988	0.179	0.455	12.068	66.78	13.24	48.20	O2 Upscale Bias
12/7/2007 11:32	-0.915	12.011	0.182	0.430	12.091	66.79	13.24	47.92	O2 Upscale Bias
12/7/2007 11:33	-0.843	12.015	0.175	0.429	12.107	66.79	13.24	47.71	O2 Upscale Bias
12/7/2007 11:33	-0.676	12.028	0.176	0.432	12.113	66.80	13.24	47.50	O2 Upscale Bias

12/7/2007 11:33	-0.558	12.064	0.172	0.432	12.151	66.79	13.24	47.09	O2 Upscale Bias
12/7/2007 11:33	-0.457	12.104	0.179	0.457	12.173	66.80	13.24	47.03	O2 Upscale Bias
12/7/2007 11:33	-0.175	12.123	0.182	0.460	12.194	66.80	13.24	47.17	O2 Upscale Bias
12/7/2007 11:33	0.054	12.148	0.178	0.461	12.215	66.80	13.24	47.11	O2 Upscale Bias
12/7/2007 11:34	0.294	12.148	0.181	0.461	12.212	66.81	13.24	47.28	O2 Upscale Bias
12/7/2007 11:34	0.593	12.152	0.171	0.459	12.227	66.81	13.24	47.64	O2 Upscale Bias
12/7/2007 11:34	0.753	12.151	0.145	0.455	12.222	66.82	13.24	47.78	O2 Upscale Bias
12/7/2007 11:34	0.722	12.151	0.145	0.425	12.226	66.82	13.24	47.82	O2 Upscale Bias
Average	**-0.192**	**12.081**	**0.172**	**0.449**	**12.158**				
12/7/2007 11:40	0.631	-0.060	52.412	52.174	-0.062	66.86	13.24	47.56	NOx Upscale Bias
12/7/2007 11:40	0.757	-0.061	52.351	52.305	-0.065	66.86	13.24	47.59	NOx Upscale Bias
12/7/2007 11:41	0.856	-0.062	52.302	52.150	-0.065	66.86	13.24	47.52	NOx Upscale Bias
12/7/2007 11:41	0.747	-0.063	52.364	51.978	-0.067	66.87	13.24	47.43	NOx Upscale Bias
12/7/2007 11:41	0.410	-0.064	52.404	52.074	-0.067	66.86	13.24	47.44	NOx Upscale Bias
12/7/2007 11:41	0.431	-0.064	52.276	52.207	-0.066	66.87	13.24	47.42	NOx Upscale Bias
12/7/2007 11:41	0.559	-0.065	52.187	52.194	-0.073	66.87	13.24	47.40	NOx Upscale Bias
Average	**0.627**	**-0.063**	**52.328**	**52.155**	**-0.066**				
12/7/2007 11:47	23.990	1.199	26.400	33.556	18.565	66.99	13.24	47.09	#3 Run
12/7/2007 11:47	24.167	1.197	26.346	33.601	18.571	66.99	13.24	47.11	#3 Run
12/7/2007 11:47	24.286	1.199	26.296	33.594	18.586	67.00	13.24	47.13	#3 Run
12/7/2007 11:47	24.382	1.198	26.325	33.530	18.583	67.00	13.24	47.16	#3 Run
12/7/2007 11:48	24.339	1.198	26.351	33.412	18.585	67.00	13.23	47.17	#3 Run
12/7/2007 11:48	23.960	1.200	26.354	33.282	18.596	67.01	13.23	47.19	#3 Run
12/7/2007 11:48	23.598	1.199	26.374	33.343	18.597	67.01	13.24	47.22	#3 Run
12/7/2007 11:48	23.506	1.201	26.349	33.402	18.612	67.02	13.23	47.20	#3 Run
12/7/2007 11:48	23.826	1.201	26.313	33.434	18.607	67.02	13.24	47.11	#3 Run
12/7/2007 11:48	24.140	1.205	26.229	33.454	18.627	67.02	13.24	47.05	#3 Run
12/7/2007 11:49	24.208	1.204	26.180	33.421	18.628	67.03	13.24	47.00	#3 Run
12/7/2007 11:49	23.997	1.207	26.309	33.352	18.633	67.03	13.24	46.96	#3 Run
12/7/2007 11:49	23.696	1.207	26.415	33.270	18.627	67.04	13.24	46.94	#3 Run
12/7/2007 11:49	23.535	1.205	26.387	33.254	18.646	67.04	13.24	46.93	#3 Run
12/7/2007 11:49	23.504	1.207	26.375	33.284	18.649	67.04	13.24	46.96	#3 Run
12/7/2007 11:49	23.745	1.207	26.351	33.325	18.653	67.05	13.24	47.02	#3 Run
12/7/2007 11:50	24.042	1.208	26.321	33.434	18.655	67.05	13.23	47.04	#3 Run
12/7/2007 11:50	24.040	1.204	26.293	33.513	18.638	67.06	13.24	47.07	#3 Run
12/7/2007 11:50	24.009	1.207	26.259	33.512	18.646	67.07	13.24	47.11	#3 Run
12/7/2007 11:50	23.865	1.206	26.266	33.486	18.649	67.07	13.24	47.16	#3 Run
12/7/2007 11:50	23.597	1.205	26.305	33.452	18.653	67.08	13.23	47.18	#3 Run
12/7/2007 11:50	23.423	1.206	26.364	33.412	18.664	67.08	13.23	47.17	#3 Run
12/7/2007 11:51	23.726	1.207	26.408	33.326	18.671	67.09	13.23	47.17	#3 Run
12/7/2007 11:51	23.967	1.204	26.349	33.282	18.682	67.09	13.24	47.11	#3 Run
12/7/2007 11:51	24.008	1.205	26.316	33.314	18.686	67.10	13.24	47.09	#3 Run
12/7/2007 11:51	23.941	1.207	26.227	33.339	18.695	67.10	13.23	47.07	#3 Run
12/7/2007 11:51	23.629	1.208	26.121	33.371	18.702	67.11	13.24	47.04	#3 Run
12/7/2007 11:51	23.434	1.209	26.186	33.386	18.706	67.12	13.23	47.00	#3 Run
12/7/2007 11:52	23.488	1.209	26.241	33.298	18.711	67.11	13.23	46.92	#3 Run
12/7/2007 11:52	23.670	1.212	26.273	33.262	18.710	67.12	13.23	46.90	#3 Run
12/7/2007 11:52	23.870	1.216	26.318	33.317	18.709	67.13	13.23	46.91	#3 Run
12/7/2007 11:52	24.049	1.213	26.228	33.402	18.713	67.13	13.23	46.92	#3 Run
12/7/2007 11:52	24.109	1.212	26.153	33.465	18.717	67.14	13.23	46.85	#3 Run
12/7/2007 11:52	23.829	1.214	26.245	33.485	18.722	67.14	13.23	46.84	#3 Run
12/7/2007 11:53	23.496	1.212	26.294	33.425	18.731	67.14	13.23	46.89	#3 Run
12/7/2007 11:53	23.650	1.212	26.255	33.397	18.735	67.15	13.23	46.93	#3 Run
12/7/2007 11:53	23.868	1.214	26.203	33.392	18.736	67.15	13.23	46.96	#3 Run
12/7/2007 11:53	24.071	1.217	26.163	33.362	18.736	67.16	13.23	46.95	#3 Run
12/7/2007 11:53	24.189	1.215	26.114	33.304	18.742	67.16	13.23	46.92	#3 Run
12/7/2007 11:53	24.072	1.214	26.151	33.259	18.744	67.16	13.23	46.88	#3 Run
12/7/2007 11:54	23.804	1.216	26.194	33.287	18.741	67.16	13.23	46.88	#3 Run
12/7/2007 11:54	23.642	1.215	26.096	33.340	18.745	67.17	13.23	46.90	#3 Run
12/7/2007 11:54	23.770	1.214	26.042	33.337	18.737	67.16	13.23	46.94	#3 Run
12/7/2007 11:54	23.970	1.213	26.120	33.292	18.731	67.18	13.23	46.97	#3 Run
12/7/2007 11:54	24.172	1.215	26.173	33.184	18.735	67.19	13.23	46.98	#3 Run
12/7/2007 11:54	24.290	1.215	26.175	33.122	18.740	67.20	13.23	46.99	#3 Run
12/7/2007 11:55	24.172	1.216	26.171	33.268	18.747	67.20	13.23	47.00	#3 Run
12/7/2007 11:55	23.764	1.217	26.136	33.395	18.734	67.20	13.23	47.01	#3 Run

12/7/2007 11:55	23.540	1.217	26.125	33.330	18.744	67.21	13.23	47.04	#3 Run
12/7/2007 11:55	23.667	1.217	26.183	33.247	18.746	67.21	13.23	47.05	#3 Run
12/7/2007 11:55	23.792	1.216	26.231	33.227	18.747	67.22	13.23	47.03	#3 Run
12/7/2007 11:55	23.892	1.217	26.168	33.251	18.747	67.23	13.23	47.17	#3 Run
12/7/2007 11:56	23.990	1.217	26.091	33.249	18.750	67.23	13.23	47.24	#3 Run
12/7/2007 11:56	23.871	1.216	26.148	33.251	18.756	67.24	13.23	47.28	#3 Run
12/7/2007 11:56	23.528	1.215	26.199	33.283	18.757	67.25	13.23	47.24	#3 Run
12/7/2007 11:56	23.489	1.215	26.162	33.328	18.753	67.26	13.23	47.24	#3 Run
12/7/2007 11:56	23.586	1.217	26.125	33.271	18.754	67.26	13.23	47.26	#3 Run
12/7/2007 11:56	23.850	1.215	26.178	33.220	18.751	67.27	13.23	47.29	#3 Run
12/7/2007 11:57	23.990	1.216	26.231	33.224	18.759	67.28	13.23	47.33	#3 Run
12/7/2007 11:57	24.011	1.214	26.168	33.255	18.732	67.29	13.23	47.35	#3 Run
12/7/2007 11:57	23.729	1.212	26.112	33.312	18.735	67.29	13.23	47.32	#3 Run
12/7/2007 11:57	23.466	1.213	26.155	33.330	18.746	67.30	13.23	47.28	#3 Run
12/7/2007 11:57	23.570	1.214	26.196	33.307	18.739	67.30	13.23	47.25	#3 Run
12/7/2007 11:57	23.769	1.214	26.127	33.323	18.750	67.31	13.23	47.09	#3 Run
12/7/2007 11:58	23.971	1.215	26.058	33.377	18.754	67.32	13.23	47.01	#3 Run
12/7/2007 11:58	24.088	1.213	26.089	33.387	18.758	67.33	13.23	46.95	#3 Run
12/7/2007 11:58	24.030	1.214	26.109	33.235	18.763	67.34	13.23	46.87	#3 Run
12/7/2007 11:58	23.799	1.215	26.112	33.096	18.767	67.35	13.23	46.77	#3 Run
12/7/2007 11:58	23.496	1.216	26.151	33.272	18.769	67.35	13.23	46.69	#3 Run
12/7/2007 11:58	23.491	1.214	26.181	33.409	18.773	67.36	13.23	46.67	#3 Run
12/7/2007 11:59	23.665	1.215	26.202	33.287	18.775	67.36	13.23	46.68	#3 Run
12/7/2007 11:59	23.946	1.215	26.172	33.201	18.779	67.36	13.23	46.67	#3 Run
12/7/2007 11:59	24.328	1.217	26.169	33.258	18.779	67.37	13.23	46.62	#3 Run
12/7/2007 11:59	24.167	1.216	26.136	33.301	18.781	67.37	13.23	46.59	#3 Run
12/7/2007 11:59	23.882	1.216	26.078	33.249	18.785	67.38	13.23	46.58	#3 Run
12/7/2007 11:59	23.878	1.218	26.016	33.222	18.780	67.38	13.23	46.53	#3 Run
12/7/2007 12:00	23.907	1.218	25.982	33.248	18.783	67.39	13.23	46.47	#3 Run
12/7/2007 12:00	23.985	1.214	26.031	33.210	18.789	67.39	13.23	46.45	#3 Run
12/7/2007 12:00	24.169	1.215	26.076	33.183	18.790	67.40	13.23	46.38	#3 Run
12/7/2007 12:00	24.126	1.216	26.047	33.185	18.786	67.40	13.23	46.32	#3 Run
12/7/2007 12:00	23.706	1.218	26.009	33.186	18.801	67.40	13.23	46.19	#3 Run
12/7/2007 12:00	23.528	1.219	26.123	33.177	18.795	67.40	13.23	46.17	#3 Run
12/7/2007 12:01	23.717	1.218	26.193	33.293	18.796	67.40	13.23	46.15	#3 Run
12/7/2007 12:01	24.045	1.219	26.124	33.400	18.787	67.40	13.23	46.08	#3 Run
12/7/2007 12:01	24.104	1.219	26.067	33.246	18.779	67.39	13.23	46.05	#3 Run
12/7/2007 12:01	24.107	1.217	26.148	33.116	18.795	67.39	13.23	46.02	#3 Run
12/7/2007 12:01	23.867	1.217	26.233	33.230	18.783	67.39	13.23	45.94	#3 Run
12/7/2007 12:01	23.649	1.218	26.202	33.355	18.791	67.39	13.23	45.95	#3 Run
12/7/2007 12:02	23.696	1.218	26.174	33.264	18.803	67.39	13.23	45.79	#3 Run
12/7/2007 12:02	23.850	1.216	26.213	33.174	18.783	67.39	13.23	45.70	#3 Run
12/7/2007 12:02	24.070	1.217	26.234	33.302	18.791	67.39	13.23	45.73	#3 Run
12/7/2007 12:02	24.111	1.218	26.235	33.382	18.804	67.39	13.23	45.75	#3 Run
12/7/2007 12:02	23.868	1.218	26.238	33.326	18.798	67.38	13.23	45.87	#3 Run
12/7/2007 12:02	23.571	1.216	26.270	33.275	18.759	67.39	13.23	45.98	#3 Run
12/7/2007 12:03	23.669	1.214	26.297	33.211	18.769	67.39	13.23	46.05	#3 Run
12/7/2007 12:03	23.869	1.215	26.268	33.139	18.773	67.38	13.23	46.10	#3 Run
12/7/2007 12:03	24.050	1.216	26.246	33.226	18.778	67.38	13.23	46.11	#3 Run
12/7/2007 12:03	24.192	1.218	26.164	33.319	18.783	67.38	13.23	46.15	#3 Run
12/7/2007 12:03	23.971	1.218	26.123	33.370	18.784	67.38	13.23	46.16	#3 Run
12/7/2007 12:03	23.666	1.218	26.182	33.386	18.788	67.38	13.23	46.18	#3 Run
12/7/2007 12:04	23.691	1.214	26.233	33.297	18.798	67.37	13.23	46.22	#3 Run
12/7/2007 12:04	24.030	1.214	26.206	33.218	18.803	67.38	13.23	46.25	#3 Run
12/7/2007 12:04	24.381	1.213	26.167	33.213	18.802	67.38	13.23	46.26	#3 Run
12/7/2007 12:04	24.406	1.213	26.137	33.233	18.805	67.37	13.23	46.28	#3 Run
12/7/2007 12:04	24.410	1.213	26.098	33.314	18.806	67.38	13.23	46.29	#3 Run
12/7/2007 12:04	24.092	1.215	26.019	33.370	18.807	67.37	13.23	46.30	#3 Run
12/7/2007 12:05	23.848	1.213	25.977	33.388	18.810	67.37	13.23	46.33	#3 Run
12/7/2007 12:05	23.888	1.214	26.094	33.354	18.810	67.37	13.23	46.33	#3 Run
12/7/2007 12:05	23.994	1.214	26.202	33.240	18.814	67.37	13.23	46.32	#3 Run
12/7/2007 12:05	24.191	1.213	26.212	33.170	18.813	67.36	13.23	46.30	#3 Run
12/7/2007 12:05	24.382	1.214	26.226	33.233	18.815	67.36	13.23	46.27	#3 Run
12/7/2007 12:05	24.334	1.215	26.160	33.317	18.814	67.36	13.23	46.24	#3 Run
12/7/2007 12:06	24.072	1.216	26.110	33.372	18.816	67.36	13.23	46.25	#3 Run

12/7/2007 12:06	23.847	1.216	26.079	33.392	18.818	67.36	13.23	46.29	#3 Run
12/7/2007 12:06	24.049	1.216	26.067	33.361	18.819	67.36	13.23	46.29	#3 Run
12/7/2007 12:06	24.273	1.217	26.145	33.308	18.823	67.36	13.23	46.27	#3 Run
12/7/2007 12:06	24.314	1.214	26.198	33.336	18.814	67.36	13.23	46.26	#3 Run
12/7/2007 12:06	24.400	1.215	26.161	33.377	18.804	67.35	13.23	46.27	#3 Run
12/7/2007 12:07	24.249	1.216	26.129	33.428	18.799	67.35	13.23	46.29	#3 Run
12/7/2007 12:07	23.889	1.214	26.213	33.396	18.780	67.35	13.23	46.32	#3 Run
12/7/2007 12:07	23.649	1.215	26.262	33.262	18.791	67.35	13.23	46.33	#3 Run
12/7/2007 12:07	23.772	1.215	26.236	33.173	18.788	67.36	13.23	46.33	#3 Run
12/7/2007 12:07	23.968	1.215	26.225	33.258	18.790	67.35	13.22	46.31	#3 Run
12/7/2007 12:07	24.100	1.216	26.124	33.361	18.791	67.36	13.22	46.27	#3 Run
12/7/2007 12:08	24.199	1.215	26.064	33.322	18.796	67.36	13.22	46.11	#3 Run
12/7/2007 12:08	24.135	1.216	26.129	33.272	18.797	67.36	13.22	46.01	#3 Run
12/7/2007 12:08	23.869	1.215	26.201	33.256	18.801	67.35	13.23	45.98	#3 Run
12/7/2007 12:08	23.648	1.214	26.137	33.278	18.807	67.35	13.23	46.01	#3 Run
12/7/2007 12:08	23.693	1.216	26.085	33.278	18.807	67.35	13.23	46.05	#3 Run
12/7/2007 12:08	23.872	1.216	26.116	33.267	18.808	67.35	13.23	46.06	#3 Run
12/7/2007 12:09	24.088	1.216	26.121	33.123	18.810	67.35	13.23	46.05	#3 Run
12/7/2007 12:09	24.198	1.214	26.150	33.042	18.812	67.34	13.23	46.04	#3 Run
12/7/2007 12:09	24.211	1.215	26.163	33.197	18.813	67.35	13.23	46.03	#3 Run
12/7/2007 12:09	23.889	1.214	26.108	33.339	18.815	67.35	13.23	46.06	#3 Run
12/7/2007 12:09	23.565	1.216	26.070	33.341	18.814	67.35	13.22	46.00	#3 Run
12/7/2007 12:09	23.670	1.216	26.184	33.320	18.815	67.35	13.22	45.95	#3 Run
12/7/2007 12:10	23.890	1.217	26.291	33.181	18.816	67.35	13.22	45.90	#3 Run
12/7/2007 12:10	24.005	1.219	26.229	33.113	18.816	67.35	13.22	45.90	#3 Run
12/7/2007 12:10	24.192	1.221	26.194	33.204	18.814	67.35	13.23	45.89	#3 Run
12/7/2007 12:10	24.132	1.224	26.142	33.291	18.813	67.35	13.23	45.85	#3 Run
12/7/2007 12:10	23.792	1.224	26.127	33.340	18.809	67.34	13.22	45.83	#3 Run
12/7/2007 12:10	23.548	1.222	26.219	33.358	18.817	67.35	13.22	45.74	#3 Run
12/7/2007 12:11	23.750	1.216	26.318	33.277	18.815	67.34	13.22	45.64	#3 Run
12/7/2007 12:11	23.993	1.218	26.260	33.223	18.822	67.34	13.23	45.63	#3 Run
12/7/2007 12:11	24.193	1.218	26.209	33.221	18.823	67.34	13.23	45.67	#3 Run
12/7/2007 12:11	24.394	1.219	26.097	33.261	18.815	67.34	13.23	45.70	#3 Run
12/7/2007 12:11	24.239	1.219	26.033	33.312	18.796	67.35	13.23	45.72	#3 Run
12/7/2007 12:11	23.813	1.220	26.086	33.331	18.815	67.35	13.22	45.76	#3 Run
12/7/2007 12:12	23.708	1.220	26.115	33.279	18.814	67.35	13.23	45.79	#3 Run
12/7/2007 12:12	23.870	1.220	26.143	33.257	18.817	67.35	13.23	45.84	#3 Run
12/7/2007 12:12	24.088	1.219	26.172	33.283	18.814	67.35	13.23	45.85	#3 Run
12/7/2007 12:12	24.201	1.220	26.137	33.361	18.812	67.36	13.23	45.79	#3 Run
12/7/2007 12:12	24.301	1.217	26.121	33.446	18.784	67.36	13.23	45.67	#3 Run
12/7/2007 12:12	23.955	1.217	26.160	33.474	18.792	67.36	13.23	45.58	#3 Run
12/7/2007 12:13	23.592	1.217	26.205	33.381	18.798	67.36	13.23	45.55	#3 Run
12/7/2007 12:13	23.590	1.217	26.245	33.313	18.807	67.36	13.23	45.53	#3 Run
12/7/2007 12:13	23.693	1.219	26.286	33.374	18.812	67.36	13.23	45.55	#3 Run
12/7/2007 12:13	24.072	1.218	26.145	33.437	18.814	67.37	13.23	45.56	#3 Run
12/7/2007 12:13	24.112	1.217	26.075	33.453	18.819	67.37	13.22	45.58	#3 Run
12/7/2007 12:13	24.203	1.219	26.199	33.404	18.823	67.38	13.22	45.56	#3 Run
12/7/2007 12:14	23.940	1.214	26.290	33.266	18.823	67.38	13.22	45.49	#3 Run
12/7/2007 12:14	23.667	1.213	26.229	33.202	18.819	67.38	13.22	45.37	#3 Run
12/7/2007 12:14	23.612	1.214	26.170	33.258	18.817	67.38	13.22	45.25	#3 Run
12/7/2007 12:14	23.773	1.219	26.140	33.275	18.823	67.38	13.22	45.17	#3 Run
12/7/2007 12:14	23.996	1.219	26.119	33.210	18.819	67.38	13.23	45.13	#3 Run
12/7/2007 12:14	24.284	1.218	26.140	33.147	18.827	67.38	13.22	45.13	#3 Run
12/7/2007 12:15	24.492	1.221	26.136	33.203	18.823	67.38	13.22	45.11	#3 Run
12/7/2007 12:15	24.064	1.221	26.112	33.271	18.821	67.38	13.22	45.08	#3 Run
12/7/2007 12:15	23.532	1.222	26.120	33.342	18.816	67.39	13.22	45.02	#3 Run
12/7/2007 12:15	23.493	1.221	26.186	33.383	18.821	67.39	13.22	45.00	#3 Run
12/7/2007 12:15	23.675	1.223	26.263	33.243	18.818	67.39	13.22	44.95	#3 Run
12/7/2007 12:15	23.893	1.220	26.227	33.149	18.823	67.39	13.22	44.83	#3 Run
12/7/2007 12:16	24.003	1.219	26.194	33.270	18.815	67.39	13.22	44.77	#3 Run
12/7/2007 12:16	24.016	1.219	26.133	33.344	18.825	67.40	13.22	44.75	#3 Run
12/7/2007 12:16	23.922	1.221	26.092	33.363	18.817	67.40	13.22	44.70	#3 Run
12/7/2007 12:16	23.663	1.219	26.180	33.327	18.815	67.40	13.22	44.71	#3 Run
12/7/2007 12:16	23.614	1.218	26.237	33.245	18.806	67.41	13.23	44.77	#3 Run
12/7/2007 12:16	23.611	1.217	26.272	33.204	18.812	67.41	13.23	44.97	#3 Run

12/7/2007 12:17	23.884	1.218	26.305	33.358	18.822	67.43	13.23	45.01	#3 Run
12/7/2007 12:17	24.096	1.223	26.216	33.492	18.803	67.43	13.23	44.97	#3 Run
12/7/2007 12:17	24.203	1.221	26.155	33.336	18.818	67.44	13.22	44.94	#3 Run
12/7/2007 12:17	24.121	1.220	26.214	33.215	18.820	67.44	13.23	44.84	#3 Run
12/7/2007 12:17	23.763	1.220	26.248	33.327	18.823	67.45	13.22	44.83	#3 Run
12/7/2007 12:17	23.631	1.220	26.134	33.462	18.815	67.45	13.22	44.84	#3 Run
12/7/2007 12:18	23.934	1.221	26.059	33.448	18.808	67.46	13.22	44.68	#3 Run
12/7/2007 12:18	24.097	1.221	26.132	33.374	18.819	67.47	13.22	44.42	#3 Run
12/7/2007 12:18	24.199	1.220	26.197	33.446	18.810	67.47	13.22	44.36	#3 Run
12/7/2007 12:18	24.212	1.219	26.166	33.490	18.813	67.48	13.22	44.18	#3 Run
12/7/2007 12:18	23.846	1.220	26.163	33.482	18.804	67.48	13.22	43.98	#3 Run
12/7/2007 12:18	23.451	1.219	26.278	33.458	18.815	67.48	13.22	43.84	#3 Run
12/7/2007 12:19	23.407	1.217	26.382	33.393	18.792	67.49	13.22	43.77	#3 Run
12/7/2007 12:19	23.502	1.219	26.352	33.379	18.817	67.49	13.22	43.73	#3 Run
12/7/2007 12:19	23.693	1.220	26.328	33.436	18.826	67.50	13.22	43.73	#3 Run
12/7/2007 12:19	23.893	1.220	26.364	33.442	18.816	67.50	13.22	43.73	#3 Run
12/7/2007 12:19	23.732	1.220	26.407	33.354	18.809	67.50	13.22	43.74	#3 Run
12/7/2007 12:19	23.529	1.222	26.378	33.311	18.820	67.51	13.22	43.71	#3 Run
12/7/2007 12:20	23.510	1.220	26.355	33.447	18.816	67.51	13.22	43.73	#3 Run
12/7/2007 12:20	23.587	1.220	26.385	33.567	18.812	67.51	13.22	43.75	#3 Run
12/7/2007 12:20	23.790	1.221	26.431	33.419	18.819	67.52	13.22	43.77	#3 Run
12/7/2007 12:20	23.903	1.220	26.401	33.278	18.810	67.52	13.22	43.80	#3 Run
12/7/2007 12:20	24.003	1.221	26.390	33.535	18.815	67.53	13.22	43.80	#3 Run
12/7/2007 12:20	23.646	1.221	26.412	33.677	18.819	67.53	13.22	43.79	#3 Run
12/7/2007 12:21	23.425	1.220	26.415	33.562	18.812	67.53	13.22	43.77	#3 Run
12/7/2007 12:21	23.499	1.221	26.435	33.502	18.799	67.54	13.22	43.82	#3 Run
12/7/2007 12:21	23.672	1.222	26.437	33.594	18.796	67.54	13.22	43.86	#3 Run
12/7/2007 12:21	23.890	1.224	26.436	33.682	18.804	67.55	13.22	43.91	#3 Run
12/7/2007 12:21	24.005	1.223	26.419	33.530	18.816	67.55	13.22	43.95	#3 Run
12/7/2007 12:21	24.012	1.222	26.449	33.420	18.817	67.55	13.22	43.92	#3 Run
12/7/2007 12:22	23.830	1.220	26.455	33.544	18.800	67.55	13.22	43.83	#3 Run
12/7/2007 12:22	23.720	1.224	26.379	33.622	18.818	67.56	13.22	43.76	#3 Run
12/7/2007 12:22	23.710	1.220	26.333	33.533	18.825	67.56	13.22	43.73	#3 Run
12/7/2007 12:22	23.711	1.217	26.417	33.401	18.813	67.57	13.22	43.76	#3 Run
12/7/2007 12:22	23.983	1.219	26.465	33.438	18.816	67.56	13.22	43.78	#3 Run
12/7/2007 12:22	24.096	1.221	26.394	33.501	18.805	67.57	13.22	43.78	#3 Run
12/7/2007 12:23	23.928	1.220	26.342	33.366	18.804	67.57	13.22	43.75	#3 Run
12/7/2007 12:23	23.458	1.223	26.431	33.283	18.804	67.57	13.22	43.68	#3 Run
12/7/2007 12:23	23.501	1.222	26.521	33.460	18.816	67.58	13.22	43.70	#3 Run
12/7/2007 12:23	23.783	1.223	26.464	33.654	18.812	67.58	13.22	43.66	#3 Run
12/7/2007 12:23	23.903	1.222	26.444	33.597	18.816	67.57	13.22	43.64	#3 Run
12/7/2007 12:23	24.003	1.224	26.507	33.509	18.810	67.58	13.22	43.65	#3 Run
12/7/2007 12:24	24.011	1.218	26.523	33.449	18.773	67.57	13.22	43.66	#3 Run
12/7/2007 12:24	23.742	1.217	26.491	33.402	18.783	67.58	13.22	43.69	#3 Run
12/7/2007 12:24	23.527	1.217	26.477	33.434	18.792	67.59	13.22	43.74	#3 Run
12/7/2007 12:24	23.776	1.218	26.497	33.481	18.794	67.59	13.22	43.80	#3 Run
12/7/2007 12:24	23.901	1.218	26.499	33.589	18.797	67.59	13.22	43.87	#3 Run
12/7/2007 12:24	24.180	1.218	26.498	33.696	18.800	67.59	13.22	43.95	#3 Run
12/7/2007 12:25	24.391	1.218	26.486	33.698	18.802	67.60	13.22	43.98	#3 Run
12/7/2007 12:25	24.233	1.218	26.399	33.726	18.808	67.59	13.22	44.01	#3 Run
12/7/2007 12:25	23.944	1.217	26.354	33.719	18.806	67.60	13.22	44.07	#3 Run
12/7/2007 12:25	23.729	1.217	26.351	33.685	18.821	67.59	13.22	44.10	#3 Run
12/7/2007 12:25	23.709	1.218	26.358	33.623	18.814	67.59	13.22	44.12	#3 Run
12/7/2007 12:25	23.888	1.220	26.412	33.562	18.813	67.60	13.22	44.14	#3 Run
12/7/2007 12:26	24.180	1.219	26.437	33.477	18.813	67.60	13.22	44.17	#3 Run
12/7/2007 12:26	24.212	1.219	26.468	33.394	18.815	67.60	13.22	44.20	#3 Run
12/7/2007 12:26	23.940	1.219	26.456	33.462	18.818	67.60	13.22	44.21	#3 Run
12/7/2007 12:26	23.730	1.217	26.403	33.486	18.817	67.61	13.22	44.21	#3 Run
12/7/2007 12:26	23.617	1.220	26.349	33.481	18.815	67.61	13.22	44.21	#3 Run
12/7/2007 12:26	23.785	1.218	26.319	33.466	18.820	67.62	13.22	44.21	#3 Run
12/7/2007 12:27	23.899	1.219	26.307	33.485	18.819	67.62	13.22	44.22	#3 Run
12/7/2007 12:27	24.002	1.222	26.397	33.453	18.819	67.62	13.22	44.23	#3 Run
12/7/2007 12:27	24.010	1.223	26.502	33.389	18.817	67.62	13.22	44.25	#3 Run
12/7/2007 12:27	23.829	1.225	26.498	33.372	18.816	67.63	13.22	44.26	#3 Run
12/7/2007 12:27	23.541	1.226	26.487	33.555	18.813	67.63	13.22	44.26	#3 Run

12/7/2007 12:27	23.508	1.225	26.430	33.728	18.815	67.64	13.22	44.26	#3 Run
12/7/2007 12:28	23.777	1.224	26.392	33.724	18.815	67.64	13.22	44.21	#3 Run
12/7/2007 12:28	23.990	1.223	26.484	33.685	18.818	67.64	13.22	44.20	#3 Run
12/7/2007 12:28	24.279	1.224	26.551	33.566	18.820	67.65	13.22	44.20	#3 Run
12/7/2007 12:28	24.493	1.224	26.486	33.468	18.820	67.65	13.22	44.14	#3 Run
12/7/2007 12:28	24.243	1.223	26.428	33.599	18.820	67.65	13.22	44.08	#3 Run
12/7/2007 12:28	23.945	1.224	26.374	33.695	18.820	67.65	13.22	44.06	#3 Run
12/7/2007 12:29	23.819	1.223	26.338	33.690	18.822	67.66	13.22	44.05	#3 Run
12/7/2007 12:29	23.899	1.225	26.419	33.649	18.821	67.67	13.22	44.00	#3 Run
12/7/2007 12:29	23.911	1.225	26.477	33.509	18.819	67.67	13.22	43.98	#3 Run
12/7/2007 12:29	24.092	1.224	26.499	33.435	18.819	67.68	13.22	43.95	#3 Run
12/7/2007 12:29	24.113	1.224	26.513	33.527	18.822	67.69	13.22	43.95	#3 Run
12/7/2007 12:29	23.845	1.225	26.462	33.592	18.822	67.69	13.22	43.98	#3 Run
12/7/2007 12:30	23.541	1.224	26.450	33.524	18.826	67.70	13.22	44.02	#3 Run
12/7/2007 12:30	23.598	1.221	26.517	33.448	18.827	67.71	13.22	44.05	#3 Run
12/7/2007 12:30	23.793	1.224	26.578	33.428	18.823	67.71	13.22	44.08	#3 Run
12/7/2007 12:30	23.996	1.227	26.485	33.439	18.820	67.71	13.22	44.09	#3 Run
12/7/2007 12:30	24.195	1.225	26.382	33.527	18.819	67.72	13.22	44.15	#3 Run
12/7/2007 12:30	24.215	1.225	26.412	33.578	18.819	67.73	13.22	44.18	#3 Run
12/7/2007 12:31	23.855	1.227	26.420	33.576	18.819	67.73	13.22	44.18	#3 Run
12/7/2007 12:31	23.538	1.228	26.445	33.527	18.818	67.74	13.22	44.18	#3 Run
12/7/2007 12:31	23.601	1.227	26.472	33.441	18.820	67.74	13.22	44.21	#3 Run
12/7/2007 12:31	23.883	1.228	26.505	33.380	18.822	67.76	13.22	44.22	#3 Run
12/7/2007 12:31	24.092	1.228	26.529	33.501	18.820	67.75	13.22	44.23	#3 Run
12/7/2007 12:31	24.114	1.226	26.467	33.639	18.820	67.76	13.22	44.25	#3 Run
12/7/2007 12:32	24.025	1.226	26.446	33.680	18.823	67.77	13.22	44.26	#3 Run
12/7/2007 12:32	23.651	1.227	26.478	33.692	18.825	67.77	13.22	44.27	#3 Run
12/7/2007 12:32	23.607	1.226	26.512	33.671	18.827	67.78	13.22	44.30	#3 Run
12/7/2007 12:32	23.703	1.226	26.565	33.653	18.823	67.78	13.22	44.33	#3 Run
12/7/2007 12:32	23.894	1.226	26.584	33.603	18.826	67.79	13.22	44.37	#3 Run
12/7/2007 12:32	24.093	1.226	26.551	33.581	18.822	67.80	13.22	44.43	#3 Run
12/7/2007 12:33	24.479	1.225	26.510	33.615	18.811	67.80	13.22	44.49	#3 Run
12/7/2007 12:33	24.248	1.224	26.363	33.658	18.825	67.81	13.22	44.50	#3 Run
12/7/2007 12:33	23.582	1.228	26.282	33.623	18.818	67.81	13.22	44.49	#3 Run
12/7/2007 12:33	23.599	1.227	26.369	33.564	18.807	67.82	13.22	44.48	#3 Run
12/7/2007 12:33	23.701	1.227	26.441	33.507	18.814	67.83	13.22	44.40	#3 Run
12/7/2007 12:33	23.800	1.226	26.437	33.469	18.815	67.84	13.22	44.38	#3 Run
12/7/2007 12:34	23.902	1.223	26.437	33.524	18.814	67.84	13.22	44.30	#3 Run
12/7/2007 12:34	23.913	1.226	26.411	33.581	18.824	67.85	13.22	44.24	#3 Run
12/7/2007 12:34	23.730	1.223	26.399	33.640	18.800	67.85	13.22	44.26	#3 Run
12/7/2007 12:34	23.259	1.224	26.453	33.638	18.810	67.86	13.22	44.29	#3 Run
12/7/2007 12:34	23.482	1.228	26.505	33.484	18.823	67.86	13.22	44.28	#3 Run
12/7/2007 12:34	23.778	1.226	26.501	33.394	18.827	67.87	13.22	44.28	#3 Run
12/7/2007 12:35	23.902	1.227	26.498	33.534	18.827	67.88	13.22	44.33	#3 Run
12/7/2007 12:35	24.005	1.227	26.434	33.675	18.817	67.88	13.22	44.37	#3 Run
12/7/2007 12:35	23.921	1.227	26.408	33.696	18.807	67.89	13.22	44.41	#3 Run
12/7/2007 12:35	23.549	1.228	26.513	33.678	18.797	67.90	13.22	44.48	#3 Run
12/7/2007 12:35	23.237	1.230	26.577	33.596	18.812	67.91	13.22	44.62	#3 Run
12/7/2007 12:35	23.300	1.232	26.516	33.568	18.816	67.92	13.22	44.76	#3 Run
12/7/2007 12:36	23.493	1.227	26.483	33.685	18.813	67.93	13.22	44.85	#3 Run
12/7/2007 12:36	23.780	1.226	26.599	33.752	18.809	67.93	13.22	44.69	#3 Run
12/7/2007 12:36	23.899	1.225	26.688	33.700	18.812	67.94	13.22	44.65	#3 Run
12/7/2007 12:36	23.822	1.223	26.500	33.688	18.812	67.95	13.22	44.65	#3 Run
12/7/2007 12:36	23.358	1.222	26.395	33.541	18.820	67.95	13.22	44.64	#3 Run
12/7/2007 12:36	23.219	1.221	26.456	33.402	18.815	67.95	13.22	44.71	#3 Run
12/7/2007 12:37	23.389	1.219	26.519	33.450	18.810	67.97	13.22	44.81	#3 Run
12/7/2007 12:37	23.590	1.218	26.465	33.496	18.803	67.98	13.22	44.85	#3 Run
12/7/2007 12:37	23.794	1.221	26.416	33.385	18.812	67.99	13.22	44.88	#3 Run
12/7/2007 12:37	23.904	1.224	26.441	33.290	18.816	67.99	13.22	44.84	#3 Run
12/7/2007 12:37	23.730	1.223	26.442	33.405	18.823	68.00	13.22	44.85	#3 Run
12/7/2007 12:37	23.261	1.223	26.433	33.510	18.818	68.01	13.22	44.81	#3 Run
12/7/2007 12:38	23.120	1.223	26.428	33.477	18.814	68.02	13.22	44.79	#3 Run
12/7/2007 12:38	23.295	1.223	26.513	33.432	18.821	68.02	13.22	44.72	#3 Run
12/7/2007 12:38	23.583	1.221	26.577	33.443	18.821	68.03	13.22	44.58	#3 Run
12/7/2007 12:38	23.789	1.221	26.459	33.496	18.810	68.03	13.22	44.33	#3 Run

12/7/2007 12:38	23.904	1.220	26.388	33.542	18.817	68.04	13.22	44.23	#3 Run
12/7/2007 12:38	23.644	1.216	26.449	33.540	18.788	68.04	13.22	44.14	#3 Run
12/7/2007 12:39	23.340	1.218	26.496	33.468	18.804	68.05	13.22	43.96	#3 Run
12/7/2007 12:39	23.398	1.220	26.500	33.411	18.806	68.05	13.22	43.85	#3 Run
12/7/2007 12:39	23.681	1.219	26.489	33.511	18.814	68.06	13.22	43.83	#3 Run
12/7/2007 12:39	23.893	1.220	26.434	33.582	18.827	68.06	13.22	43.83	#3 Run
12/7/2007 12:39	24.002	1.219	26.384	33.608	18.822	68.07	13.22	43.83	#3 Run
12/7/2007 12:39	24.014	1.220	26.413	33.617	18.815	68.07	13.22	43.85	#3 Run
12/7/2007 12:40	23.563	1.217	26.450	33.669	18.802	68.07	13.22	43.85	#3 Run
12/7/2007 12:40	23.419	1.218	26.520	33.670	18.811	68.07	13.22	43.83	#3 Run
12/7/2007 12:40	23.502	1.219	26.569	33.567	18.818	68.08	13.22	43.82	#3 Run
12/7/2007 12:40	23.780	1.218	26.487	33.540	18.820	68.09	13.22	43.81	#3 Run
12/7/2007 12:40	23.903	1.218	26.435	33.617	18.828	68.09	13.22	43.81	#3 Run
12/7/2007 12:40	23.912	1.217	26.409	33.655	18.822	68.09	13.22	43.81	#3 Run
12/7/2007 12:41	23.728	1.216	26.384	33.533	18.808	68.09	13.22	43.80	#3 Run
12/7/2007 12:41	23.350	1.217	26.446	33.432	18.802	68.10	13.22	43.77	#3 Run
12/7/2007 12:41	23.402	1.218	26.473	33.512	18.806	68.10	13.22	43.64	#3 Run
12/7/2007 12:41	23.680	1.218	26.358	33.603	18.814	68.10	13.22	43.54	#3 Run
12/7/2007 12:41	23.892	1.218	26.289	33.605	18.821	68.11	13.22	43.56	#3 Run
12/7/2007 12:41	24.094	1.222	26.394	33.590	18.821	68.11	13.22	43.62	#3 Run
12/7/2007 12:42	24.111	1.219	26.496	33.517	18.809	68.11	13.22	43.65	#3 Run
12/7/2007 12:42	23.752	1.215	26.421	33.518	18.790	68.12	13.22	43.70	#3 Run
12/7/2007 12:42	23.530	1.215	26.360	33.546	18.799	68.12	13.22	43.68	#3 Run
12/7/2007 12:42	23.871	1.217	26.394	33.556	18.802	68.12	13.22	43.65	#3 Run
12/7/2007 12:42	24.183	1.217	26.410	33.466	18.807	68.12	13.22	43.68	#3 Run
12/7/2007 12:42	24.212	1.218	26.379	33.403	18.817	68.12	13.22	43.69	#3 Run
12/7/2007 12:43	24.299	1.218	26.357	33.462	18.824	68.13	13.22	43.72	#3 Run
12/7/2007 12:43	24.130	1.217	26.386	33.524	18.830	68.13	13.22	43.75	#3 Run
12/7/2007 12:43	23.752	1.217	26.399	33.613	18.836	68.13	13.22	43.79	#3 Run
12/7/2007 12:43	23.624	1.218	26.341	33.691	18.834	68.13	13.22	43.83	#3 Run
12/7/2007 12:43	23.703	1.218	26.310	33.688	18.838	68.13	13.22	43.82	#3 Run
12/7/2007 12:43	23.903	1.218	26.401	33.637	18.842	68.14	13.22	43.82	#3 Run
12/7/2007 12:44	24.011	1.218	26.469	33.529	18.836	68.14	13.22	43.75	#3 Run
12/7/2007 12:44	24.193	1.219	26.472	33.478	18.811	68.14	13.22	43.77	#3 Run
12/7/2007 12:44	24.034	1.224	26.497	33.455	18.825	68.15	13.22	43.77	#3 Run
12/7/2007 12:44	23.648	1.223	26.501	33.466	18.813	68.15	13.22	43.76	#3 Run
12/7/2007 12:44	23.429	1.221	26.509	33.554	18.801	68.16	13.22	43.69	#3 Run
12/7/2007 12:44	23.680	1.221	26.424	33.634	18.815	68.16	13.22	43.67	#3 Run
12/7/2007 12:45	23.996	1.220	26.387	33.623	18.819	68.16	13.22	43.69	#3 Run
12/7/2007 12:45	24.113	1.223	26.416	33.599	18.827	68.16	13.22	43.68	#3 Run
12/7/2007 12:45	24.111	1.222	26.477	33.571	18.833	68.16	13.22	43.70	#3 Run
12/7/2007 12:45	23.842	1.222	26.561	33.539	18.827	68.16	13.22	43.73	#3 Run
12/7/2007 12:45	23.545	1.222	26.609	33.489	18.811	68.17	13.22	43.72	#3 Run
12/7/2007 12:45	23.421	1.221	26.578	33.491	18.813	68.17	13.22	43.68	#3 Run
12/7/2007 12:46	23.500	1.222	26.549	33.524	18.817	68.17	13.22	43.64	#3 Run
12/7/2007 12:46	23.783	1.221	26.526	33.591	18.824	68.18	13.22	43.66	#3 Run
12/7/2007 12:46	23.902	1.225	26.527	33.678	18.822	68.18	13.22	43.69	#3 Run
12/7/2007 12:46	23.912	1.224	26.526	33.748	18.819	68.18	13.22	43.69	#3 Run
12/7/2007 12:46	23.639	1.224	26.505	33.728	18.819	68.19	13.22	43.68	#3 Run
12/7/2007 12:46	23.519	1.225	26.538	33.725	18.826	68.19	13.22	43.72	#3 Run
12/7/2007 12:47	23.506	1.225	26.577	33.716	18.816	68.19	13.22	43.76	#3 Run
12/7/2007 12:47	23.512	1.226	26.661	33.687	18.799	68.20	13.22	43.71	#3 Run
12/7/2007 12:47	23.712	1.216	26.697	33.664	18.738	68.21	13.22	43.70	#3 Run
Average	**23.855**	**1.218**	**26.312**	**33.423**	**18.789**	**67.551**	**13.226**	**45.190**	
12/7/2007 12:50	24.814	-0.076	0.240	0.766	0.001	68.30	13.22	43.40	CO Upscale Bias
12/7/2007 12:50	24.362	-0.076	0.215	0.707	-0.004	68.30	13.22	43.46	CO Upscale Bias
12/7/2007 12:50	24.225	-0.077	0.214	0.677	-0.007	68.31	13.22	43.48	CO Upscale Bias
12/7/2007 12:50	24.394	-0.077	0.216	0.651	-0.010	68.31	13.22	43.39	CO Upscale Bias
12/7/2007 12:50	24.773	-0.077	0.218	0.650	-0.014	68.31	13.22	43.43	CO Upscale Bias
12/7/2007 12:50	24.813	-0.077	0.218	0.623	-0.014	68.31	13.22	43.51	CO Upscale Bias
12/7/2007 12:51	24.805	-0.078	0.215	0.617	-0.017	68.32	13.22	43.58	CO Upscale Bias
Average	**24.598**	**-0.077**	**0.219**	**0.670**	**-0.009**				
12/7/2007 12:54	0.381	12.098	0.155	0.467	12.183	68.41	13.22	44.73	O2 Upscale Bias
12/7/2007 12:54	0.240	12.103	0.149	0.461	12.180	68.42	13.22	44.67	O2 Upscale Bias
12/7/2007 12:54	-0.219	12.106	0.152	0.436	12.192	68.43	13.22	44.53	O2 Upscale Bias

12/7/2007 12:54	-0.307	12.111	0.149	0.432	12.193	68.43	13.22	44.34	O2 Upscale Bias
12/7/2007 12:55	-0.131	12.115	0.150	0.434	12.191	68.44	13.22	44.17	O2 Upscale Bias
12/7/2007 12:55	-0.022	12.119	0.151	0.432	12.189	68.45	13.22	43.98	O2 Upscale Bias
12/7/2007 12:55	0.179	12.122	0.150	0.435	12.193	68.45	13.22	43.81	O2 Upscale Bias
Average	**0.017**	**12.111**	**0.151**	**0.442**	**12.189**				
12/7/2007 12:59	0.371	-0.051	52.320	51.748	-0.055	68.54	13.22	42.98	NOx Upscale Bias
12/7/2007 13:00	0.378	-0.054	52.278	51.956	-0.051	68.54	13.22	42.98	NOx Upscale Bias
12/7/2007 13:00	0.158	-0.056	52.190	52.142	-0.061	68.55	13.22	42.85	NOx Upscale Bias
12/7/2007 13:00	-0.093	-0.058	52.126	52.130	-0.056	68.54	13.22	42.56	NOx Upscale Bias
12/7/2007 13:00	-0.005	-0.059	52.217	52.077	-0.060	68.54	13.22	42.61	NOx Upscale Bias
12/7/2007 13:00	0.032	-0.060	52.305	51.988	-0.063	68.55	13.22	42.60	NOx Upscale Bias
12/7/2007 13:00	0.394	-0.062	52.325	51.931	-0.066	68.55	13.21	42.71	NOx Upscale Bias
Average	**0.177**	**-0.057**	**52.251**	**51.996**	**-0.059**				

Manual Data

Test Notes

ChanName	co	co2	no1	nox	o2	ambient	barometric	humidity
CalDate	39423.293	39423.293	39423.293	39423.293	39423.293	39423.29	39423.29	39423.29
Coeff_0	-25.000	-6.250	-25.000	-25.000	-6.250	-49.00	-7.50	-25.00
Coeff_1	6250.000	1562.500	6250.000	6250.000	1562.500	11250.00	1875.00	6250.00
Coeff_2	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0.00