



SESPE
CONSULTING, INC.

EW ✓

468 Poli Street, Suite 2E • Ventura, California 93001

2012 – 2013 TITLE V COMPLIANCE CERTIFICATION

New-Indy Oxnard, LLC
5936 Perkins Road
Oxnard, California

May 11, 2013

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A.P.C.D.

Prepared for: New-Indy Oxnard, LLC
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Requirement ID	Description
6.a. 74.15N3-0157	Boilers, Steam Generators, and Process Heaters – Exemption for Emergency Standby Units.
6.b. 103N5-0157	Stack Monitoring
6.c. STRMLN157- NOx, CO, NH3	Gas Turbine Based Cogeneration Unit; NOx, CO, and NH3 Applicable Requirements – NOx Streamlined.
6.d. STRMLN157-SOx	Gas Turbine Based Cogeneration Unit; SOx Applicable Requirements – Streamlined.
New Requirement	Mandatory GHG Reporting (40CFR 98)
New Requirement	Adhesives and Sealants (Rule 74.20)
7.a. PO0157PC1	General Recordkeeping Requirements.
7.b. PO0157PC1	Solvent Cleaning Additional Requirements.
7.c. PO0157PC1	Stationary Gas Turbine Path Cleaning Solvent Use
7.d. PO0157PC2	Turbine NOx and CO Emissions Limits.
7.e. PO0157PC2	Turbine and Duct Burner Natural Gas Only Requirement.
7.f. PO0157PC2	Nebraska Boiler and Turbine Simultaneous Operation Limits.
7.g. PO0157PC2	Nebraska Boiler NOx Emissions Limits.
7.h. PO0157PC2	Nebraska Boiler NOx and Oxygen Continuous Monitoring Requirements.
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7.k. PO0157PC2	Recordkeeping Requirements for the Maxon Duct Burner.
8.a. Rule 50	Opacity.
8.b. Rule 54.B.1	Sulfur Compounds – SOx at Point of Discharge.
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Requirement ID	Description
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8.f. Rule 64.B.1	Sulfur Content of Fuels – Gaseous Fuel Requirements.
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8.h. Rule 74.6	Surface Cleaning and Degreasing, 11/11/03 revision.
8.i. Rule 74.11.1	Large Water Heaters and Small Boilers.
8.j. Rule 74.22	Natural Gas-Fired, Fan Type Central Furnaces.
9.a. Rule 74.1	Abrasive Blasting.
9.b. Rule 74.2	Architectural Coatings.
9.c. 40CFR61.M	40 CFR 61 Subpart M – Asbestos NESHAPS.
10.a. Part 70 General	Part 70 Permit General Conditions.
10.b. PO General	Permit to Operate General Conditions.
11.a. 40CFR68RMP-157	Accidental Release Prevention and Risk Management Plans.
11.b. 40CFR82	40 CFR 82 – Protection of Stratospheric Ozone
11c.1. SHIELD-D, Da, Db, Dc)	Permit Shield – 40 CFR Part 60, Subparts D, Da, Db, and Dc.
11c.2. SHIELD-60KKKK	Permit Shield – 40 CFR Part 60, Subpart KKKK
11c.3. SHIELD-63YYYY	Permit Shield – 40 CFR Part 63, Subparts YYYY
11c.4. SHIELD-Engines	Permit Shield – 40 CFR Part 60, Subpart JJJJ and Part 63, Subpart ZZZZ
11.c.5. SHIELD-40CFR72-78	Permit Shield – 40 CFR Parts 72 – 78.

Section 5 Supporting Records

Requirement ID	Description
Deviation Summary Form	Supporting Documentation.
Source Test Summary Form	Supporting Documentation.
6.a. 74.15N3-0157	Nebraska Boiler fuel use and hours of operation.
7.b. PO0157PC1	Monthly solvent use records
7.c. PO0157PC2	Cogeneration unit and duct burners fuel use and emissions.
8.a. Rule 50	Quarterly opacity observations.
8.c. Rule 54.B.2	District memo dated May 23, 1996.
8.d. Rule 57.1	District memo dated Dec. 3, 1997.

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Section 1 Signature Cover Form



Ventura County
Air Pollution
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ANNUAL COMPLIANCE CERTIFICATION SIGNATURE COVER FORM

A copy of each Annual Compliance Certification shall be submitted to EPA, Region 9, at the following address:

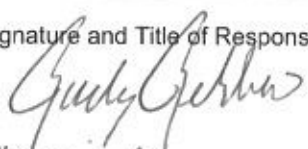
Mr. Gerardo Rios, Chief
Permits Office (AIR-3)
Office of Air Division
EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Confidentiality

All information in a Part 70 permit compliance certification is public information. The Part 70 permit is also public information.

Certification by Responsible Official

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this compliance certification are true, accurate, and complete.

Signature and Title of Responsible Official:  Title: <u>Mill Manager</u>	Date: <u>5/13/2013</u>
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Time Period Covered by Compliance Certification <u>04</u> / <u>01</u> / <u>12</u> (MM/DD/YY) to <u>03</u> / <u>31</u> / <u>13</u> (MM/DD/YY)

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Section 2 Deviation Summary Forms

Deviation Summary Table

Date	Breakdown/Event	Comment
May 25, 2012	Surge in CO emissions.	Reported to VCAPCD but no exceedence occurred.
July 19, 2012	Power supply failure	Reported to VCAPCD. Power supply upgraded to prevent reoccurrence.
August 17, 2012	NOx chemiluminescence detector (CLD) losing signal intermittently.	Reported to VCAPCD. Replaced NOx CLD and focus on putting into service the back-up analyzer for APCD certification.
August 18, 2012	Inlet NOx CLD lost communication with multicomponent analyzer (MLT) unit.	Reported to VCAPCD. CLD was rebuilt and reprogrammed to restore communication.
November 19, 2012	Exhaust line for NOx analyzer plugged resulting in low ammonia use.	Reported to VCAPCD. Replaced plugged line and reviewed existing preventive maintenance on sample handling lines.
November 28, 2012	High pressure compressor (HPC) spline damage resulting in Cogen shutdown and Nebraska operation.	Reported to VCAPCD. Nebraska boiler operated 87 hours under emergency status. Spline damage investigated, and lease turbine installed, by GE.
January 12, 2013	Air leak from cracked plastic fittings caused O2 reading to drift and low NOx readings.	Reported to VCAPCD. Cracked fittings were replaced with stainless steel fittings and the unit recalibrated manually.
January 13, 2013	PI data loss resulting from partial failure of multiple tap points into the ABB process network.	Reported to VCAPCD. Replaced two transceivers that failed and restored network connection.
February 28, 2013	CEMS stack NOx CLD failed due to overheating.	Reported to VCAPCD. Monitor air conditioning daily and installed additional louvers to CEMS cabinet to promote exhaust of air from sample handling fans.



Ventura County
Air Pollution
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ANNUAL COMPLIANCE CERTIFICATION DEVIATION SUMMARY FORM

Period Covered by Compliance Certification: 04 / 01 / 12 (MM/DD/YY) to 03 / 31 / 13 (MM/DD/YY)

A. Attachment # or Permit Condition #: 6.c. STRMLN0157- NOx, CO, NH3	B. Equipment description: Cogeneration Unit	C. Deviation Period: Date & Time Begin: <u>5/25/12, 12:00 AM</u> End: <u>5/25/11, 2:00 AM</u> When Discovered: Date & Time <u>5/25/11, 1:30 AM</u>
D. Parameters monitored: CO	E. Limit: 63.43 lb/hr	F. Actual: 62.48 lb/hr
G. Probable Cause of Deviation: Unknown.		H. Corrective actions taken: Monitor CEMS and cogen unit operating parameters.

A. Attachment # or Permit Condition #: 6.c. STRMLN0157- NOx, CO, NH3	B. Equipment description: Cogeneration Unit	C. Deviation Period: Date & Time Begin: <u>7/19/12, 5:00 AM</u> End: <u>7/19/12, 3:55 PM</u> When Discovered: Date & Time <u>7/19/12, 5:05 AM</u>
D. Parameters monitored: NOx	E. Limit: 12 ppmvd NOx @ 15% O2 rolling 3-hour average	F. Actual: unknown
G. Probable Cause of Deviation: Breakdown of CEMS power supply caused NOx data loss.		H. Corrective actions taken: Upgraded power supply.

A. Attachment # or Permit Condition #: 6.c. STRMLN0157- NOx, CO, NH3	B. Equipment description: Cogeneration Unit	C. Deviation Period: Date & Time Begin: <u>8/17/12, 9:05 AM</u> End: <u>8/17/12, 1:05 PM</u> When Discovered: Date & Time <u>8/17/12, 11:40 AM</u>
D. Parameters monitored: NOx	E. Limit: 12 ppmvd NOx @ 15% O2 rolling 3-hour average	F. Actual: unknown
G. Probable Cause of Deviation: NOx chemiluminescence detector (CLD) failure.		H. Corrective actions taken: NOx CLD replaced.



ANNUAL COMPLIANCE CERTIFICATION DEVIATION SUMMARY FORM

Period Covered by Compliance Certification: 04 / 01 / 12 (MM/DD/YY) to 03 / 31 / 13 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: 6.c. STRMLN0157- NOx, CO, NH3</p>	<p>B. Equipment description: Cogeneration Unit</p>	<p>C. Deviation Period: Date & Time Begin: <u>8/18/12, 12:00 PM</u> End: <u>8/20/12, 2:30 PM</u> When Discovered: Date & Time <u>8/18/12, 3:00 PM</u></p>
<p>D. Parameters monitored: NOx</p>	<p>E. Limit: 12 ppmvd NOx @ 15% O2 rolling 3-hour average</p>	<p>F. Actual: < 12 ppmvd NOx @ 15% O2</p>
<p>G. Probable Cause of Deviation: Inlet NOx CLD lost communication with multicomponent analyzer.</p>		<p>H. Corrective actions taken: Rebuilt and reprogrammed CLD. Focus on installing back-up analyzer for APCD certification.</p>

<p>A. Attachment # or Permit Condition #: 6.c. STRMLN0157- NOx, CO, NH3</p>	<p>B. Equipment description: Cogeneration Unit</p>	<p>C. Deviation Period: Date & Time Begin: <u>11/19/12, 7:00 AM</u> End: <u>11/19/12, 8:30 AM</u> When Discovered: Date & Time <u>11/19/12, 7:00 AM</u></p>
<p>D. Parameters monitored: NOx</p>	<p>E. Limit: 12 ppmvd NOx @ 15% O2 rolling 3-hour average</p>	<p>F. Actual: < 12 ppmvd NOx @ 15% O2</p>
<p>G. Probable Cause of Deviation: Exhaust line for NOx analyzer was plugged.</p>		<p>H. Corrective actions taken: Replaced plugged exhaust line.</p>

<p>A. Attachment # or Permit Condition #: 6.c. STRMLN0157- NOx, CO, NH3</p>	<p>B. Equipment description: Cogeneration Unit</p>	<p>C. Deviation Period: Date & Time Begin: <u>1/11/13, 8:00 PM</u> End: <u>1/14/13, 2:15 PM</u> When Discovered: Date & Time <u>1/12/13, 10:30 AM</u></p>
<p>D. Parameters monitored: NOx, O2</p>	<p>E. Limit: 12 ppmvd NOx @ 15% O2 rolling 3-hour average</p>	<p>F. Actual: < 12 ppmvd NOx @ 15% O2</p>
<p>G. Probable Cause of Deviation: Air leak through cracked plastic fittings at bottom of CEMS sample handling chiller assembly.</p>		<p>H. Corrective actions taken: Replaced plastic fittings with stainless steel fittings.</p>



ANNUAL COMPLIANCE CERTIFICATION DEVIATION SUMMARY FORM

Period Covered by Compliance Certification: 04 / 01 / 12 (MM/DD/YY) to 03 / 31 / 13 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: 6.c. STRMLN0157 - NOx, CO, NH3</p>	<p>B. Equipment description: Cogeneration Unit</p>	<p>C. Deviation Period: Date & Time Begin: <u>1/13/13, 5:35 AM</u> End: <u>1/14/13, 12:35 PM</u> When Discovered: Date & Time <u>1/13/13, 11:00 AM</u></p>
<p>D. Parameters monitored: NOx, CO, NH3</p>	<p>E. Limit: 12 ppmvd NOx @ 15% O2</p>	<p>F. Actual: < 12 ppmvd NOx @ 15% O2</p>
<p>G. Probable Cause of Deviation: PI data loss due to partial failure of multiple tap points into the ABB process network.</p>		<p>H. Corrective actions taken: Replace transceivers that failed and restore network connection.</p>

<p>A. Attachment # or Permit Condition #: 6.c. STRMLN0157- NOx, CO, NH3</p>	<p>B. Equipment description: Cogeneration Unit</p>	<p>C. Deviation Period: Date & Time Begin: <u>2/28/13, 1:17 AM</u> End: <u>3/1/13, 4:00 AM</u> When Discovered: Date & Time <u>2/28/13, 1:17 AM</u></p>
<p>D. Parameters monitored: NOx</p>	<p>E. Limit: 12 ppmvd NOx @ 15% O2 rolling 3-hour average</p>	<p>F. Actual: Unknown due to loss of data</p>
<p>G. Probable Cause of Deviation: NOx CLD failed due to overheating.</p>		<p>H. Corrective actions taken: Monitor air conditioning units daily and install additional louvers to CEMS cabinet to improve air flow.</p>

<p>A. Attachment # or Permit Condition #: 6.c. STRMLN0157- NOx, CO, NH3</p>	<p>B. Equipment description: Cogeneration Unit</p>	<p>C. Deviation Period: Date & Time Begin: <u>11/28/12, 6:00 AM</u> End: <u>12/1/12, 9:00 PM</u> When Discovered: Date & Time <u>11/28/12, 6:00 AM</u></p>
<p>D. Parameters monitored: NOx, CO, NH3, O2</p>	<p>E. Limit: 12 ppmvd NOx @ 15% O2 rolling 3-hour average</p>	<p>F. Actual: < 12 ppmvd NOx @ 15% O2</p>
<p>G. Probable Cause of Deviation: Replace turbine due to high pressure compressor (HPC) spline damage.</p>		<p>H. Corrective actions taken: Operate Nebraska boiler without excess emissions until leased turbine was installed. GE investigating spline damage.</p>

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Section 3 Source Test Summary Forms



Ventura County
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ANNUAL COMPLIANCE CERTIFICATION SOURCE TEST SUMMARY FORM

Period Covered by Compliance Certification: 04 / 01 / 12 (MM/DD/YY) to 03 / 31 / 13 (MM/DD/YY)

A. Emission Unit Description: Gas turbine based cogeneration unit			B. Pollutant: NOx
C. Measured Emission Rate: 10.8 ppm @ 15% O ₂	D. Limited Emission Rate: 12 ppm @ 15% O ₂	E. Specific Source Test or Monitoring Record Citation: AirX Source Test	F. Test Date: 3/20/2013

A. Emission Unit Description: Gas turbine based cogeneration unit			B. Pollutant: NH ₃
C. Measured Emission Rate: 1.1 ppm @ 15% O ₂	D. Limited Emission Rate: 20 ppm @ 15% O ₂	E. Specific Source Test or Monitoring Record Citation: AirX Source Test	F. Test Date: 3/20/2013

A. Emission Unit Description: Gas turbine based cogeneration unit			B. Pollutant: CO
C. Measured Emission Rate: 15.42 lbs/hr	D. Limited Emission Rate: 59.65 lbs/hr	E. Specific Source Test or Monitoring Record Citation: AirX Source Test	F. Test Date: 3/20/2013

A. Emission Unit Description: Gas turbine based cogeneration unit			B. Pollutant: NOx
C. Measured Emission Rate: 45.56 tons/year calculated by CEMS	D. Limited Emission Rate: 50 tons/year	E. Specific Source Test or Monitoring Record Citation: AirX RATA Test to confirm CEMS data.	F. Test Date: 3/20/2013

A. Emission Unit Description: Gas turbine based cogeneration unit			B. Pollutant: CO
C. Measured Emission Rate: 62.08 tons/year calculated by CEMS.	D. Limited Emission Rate: 97.66 tons/year	E. Specific Source Test or Monitoring Record Citation: AirX RATA Test to confirm CEMS data.	F. Test Date: 3/20/2013



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ANNUAL COMPLIANCE CERTIFICATION SOURCE TEST SUMMARY FORM

Period Covered by Compliance Certification: 04 / 01 / 11 (MM/DD/YY) to 03 / 31 / 12 (MM/DD/YY)

A. Emission Unit Description: Nebraska Boiler (stand-by only, natural gas only)			B. Pollutant: NOx
C. Measured Emission Rate: 52 ppm @ 3% O ₂	D. Limited Emission Rate: 74 ppm @ 3% O ₂	E. Specific Source Test or Monitoring Record Citation: West Coast Environmental	F. Test Date: 12/22/94

A. Emission Unit Description: Nebraska Boiler (stand-by, fuel oil only)			B. Pollutant: NOx
C. Measured Emission Rate: not applicable	D. Limited Emission Rate: 67 ppm @ 3% O ₂	E. Specific Source Test or Monitoring Record Citation: n/a, not operated on fuel oil.	F. Test Date: n/a

A. Emission Unit Description: Maxon Duct Burner			B. Pollutant: NOx
C. Measured Emission Rate: 0.92 tons/year	D. Limited Emission Rate: 1.90 tons/year	E. Specific Source Test or Monitoring Record Citation: West Coast Environmental	F. Test Date: 8/17/95

A. Emission Unit Description:			B. Pollutant:
C. Measured Emission Rate:	D. Limited Emission Rate:	E. Specific Source Test or Monitoring Record Citation:	F. Test Date:

A. Emission Unit Description:			B. Pollutant:
C. Measured Emission Rate:	D. Limited Emission Rate:	E. Specific Source Test or Monitoring Record Citation:	F. Test Date:

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Section 4 Permit Attachment Forms



ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 04 / 01 / 12 (MM/DD/YY) to 03 / 31 / 13 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: <u>6.a.74.15N3-0157</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Rule 75.15.C.3. Boilers, Steam Generators, and Process Heaters - Exemption for Emergency Stand-by Units</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>Hour meter and CEMS. Nebraska unit operated 87 hours. Tune-up performed on October 18, 2012.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: <u>6.b.103N5-0157</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Rule 103, Stack Monitoring - Nebraska Boiler</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>Fuel meter and CEMS. Maximum rolling 12-month capacity factor is 0.562% and unit remain exempt from 103.A.2.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: <u>6.c.STRMLN157-NOx, CO, NH3</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Gas Turbine Based Cogeneration Unit; NOx, CO, NH3 Applicable Requirements - NOx Streamline</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>EPA Method 20, ARB Method 100 BAAQMD Method ST-1B</u></p>
<p>C. Method of monitoring: <u>Annual source test and CEMS for fuel use, NOx, CO, O2, NH3, and control system operating parameters.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>I</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>Y</u> *If yes, attach Deviation Summary Form</p>



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Period Covered by Compliance Certification: 04 / 01 / 12 (MM/DD/YY) to 03 / 31 / 13 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: <u>6.d. STRMLN157-SOx</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Gas Turbine Based Cogeneration Unit; SOx Applicable Requirements - Streamlined</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>EPA Method 6, 6A, 6C, 15, 16A, 16B, or SCAQMD 307-94</u></p>
<p>C. Method of monitoring: <u>Facility burns PUC quality gas only. Annual source test would be required if non-PUC quality gas were used.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u></p> <p>G. Compliance Status? (C or I): <u>C</u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> <small>*If yes, attach Deviation Summary Form</small></p>

<p>A. Attachment # or Permit Condition #: <u>New Requirement</u></p>	<p>D. Frequency of monitoring: <u>Continuous and monthly</u></p>
<p>B. Description: <u>Mandatory Greenhouse Gas Reporting (40 CFR 98)</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>Natural gas consumption by fuel meters, CEMS, and invoices from gas company.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u></p> <p>G. Compliance Status? (C or I): <u>C</u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> <small>*If yes, attach Deviation Summary Form</small></p>

<p>A. Attachment # or Permit Condition #: <u>New Requirement</u></p>	<p>D. Frequency of monitoring: <u>Monthly</u></p>
<p>B. Description: <u>Rule 74.20 - Adhesives and Sealants</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>Maintain records of quantity and ROC content for each adhesive purchased to document emissions less than 200 lb/yr. No adhesives or sealants were used this year.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u></p> <p>G. Compliance Status? (C or I): <u>C</u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> <small>*If yes, attach Deviation Summary Form</small></p>



ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

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<p>A. Attachment # or Permit Condition #: <u>7.a. PO00157PC1</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>General Recordkeeping Requirements</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>Monthly records of throughput and consumption.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: <u>7.b. PO00157PC1</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Solvent Cleaning Additional Requirements</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>Monthly records of solvent purchases. MSDS provided for new material in Section 5 (Brakleen Non-chloronated).</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: <u>7.c. PO00157PC1</u></p>	<p>D. Frequency of monitoring: <u>continuous</u></p>
<p>B. Description: <u>Stationary Gas Turbine Gas Path Cleaning Solvent Use</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>Maintain solvent information. No cleaning activities occurred during permit year.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 04 / 01 / 12 (MM/DD/YY) to 03 / 31 / 13 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: <u>7.d. PO00157PC2</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Turbine NOx and CO Emissions Limits</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>Monthly calculations based upon NOx and CO hourly emissions from CEMS.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: <u>7.e. PO00157PC2</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Turbine and Duct Burner Natural Gas Only Requirement</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>Fueled by natural gas only.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: <u>7.f. PO00157PC2</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Nebraska Boiler and Turbine Simultaneous Operation Limits</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>Annual compliance certification and records of operation of the Boiler.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 04 / 01 / 12 (MM/DD/YY) to 03 / 31 / 13 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: <u>7.g. PO00157PC2</u></p>	<p>D. Frequency of monitoring: <u>Continuous, Daily</u></p>
<p>B. Description: <u>Nebraska Boiler NOx Emissions Limits</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>CEMS for fuel consumption, NOx and oxygen. Daily zero and span drift checks when boiler is in operation.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> <small>*If yes, attach Deviation Summary Form</small></p>

<p>A. Attachment # or Permit Condition #: <u>7.h. PO00157PC2</u></p>	<p>D. Frequency of monitoring: <u>Continuous, Daily</u></p>
<p>B. Description: <u>Nebraska Boiler NOx and Oxygen Continuous Monitoring Requirements.</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>CEMS for fuel consumption, NOx and oxygen. Daily zero and span drift checks when boiler is in operation.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> <small>*If yes, attach Deviation Summary Form</small></p>

<p>A. Attachment # or Permit Condition #: <u>7.i. PO00157PC2</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Nebraska Boiler Oil Limitations</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>ASTM Method D4294-83 or D2622-87</u></p>
<p>C. Method of monitoring: <u>No diesel fuel was burned. If fuel oil is burned, then record: the reason for firing fuel oil; delivery dates and amounts; and fuel sulfur content.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> <small>*If yes, attach Deviation Summary Form</small></p>



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Period Covered by Compliance Certification: 04 / 01 / 12 (MM/DD/YY) to 03 / 31 / 13 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: <u>7.j. PO00157PC2</u></p>	<p>D. Frequency of monitoring:</p> <p style="text-align: center;"><u>Continuous</u></p>
<p>B. Description:</p> <p><u>Recordkeeping Requirements for the Nebraska Boiler Fuel Oil Limitations</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>ASTM Method D4294-83 or D2622-87</u></p>
<p>C. Method of monitoring:</p> <p><u>No diesel fuel was burned. If fuel oil is burned, then record: the reason for firing fuel oil; delivery dates and amounts; and fuel sulfur content.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u></p> <p>G. Compliance Status? (C or I): <u>C</u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>
<p>A. Attachment # or Permit Condition #: <u>7.k. PO00157PC2</u></p>	<p>D. Frequency of monitoring:</p> <p style="text-align: center;"><u>Continuous</u></p>
<p>B. Description:</p> <p><u>Recordkeeping Requirements for the Maxon Duct Burner</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring:</p> <p><u>Monitor time and duration of the Maxon Burner's use, and fuel consumption.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u></p> <p>G. Compliance Status? (C or I): <u>C</u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>
<p>A. Attachment # or Permit Condition #: <u>8.a. Rule 50</u></p>	<p>D. Frequency of monitoring:</p> <p style="text-align: center;"><u>Quarterly</u></p>
<p>B. Description:</p> <p><u>Opacity</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>EPA Method 22</u></p>
<p>C. Method of monitoring:</p> <p><u>Stack opacity routinely observed. Observations on 5/15/12, 8/14/12, 11/5/12, and 2/28/13 are formally documented.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u></p> <p>G. Compliance Status? (C or I): <u>C</u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 04 / 01 /12 (MM/DD/YY) to 03 / 31 /13 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: <u>8.b. Rule 54.B.1</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Sulfur Compounds - SOx at Point of Discharge</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>Follow Rule 64 monitoring requirements. Compliance with Rule 64 ensures compliance with this rule based on District analysis.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> <small>*If yes, attach Deviation Summary Form</small></p>

<p>A. Attachment # or Permit Condition #: <u>8.c. Rule 54.B.2</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Sulfur Compounds - SOx at or Beyond Property Line</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>Compliance by use of PUC quality natural gas as discussed in District memo (5/23/96)</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> <small>*If yes, attach Deviation Summary Form</small></p>

<p>A. Attachment # or Permit Condition #: <u>8.d. Rule 55</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Fugitive Dust</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>EPA Methods 9 and 22</u></p>
<p>C. Method of monitoring: <u>There are no operations, disturbed surface areas or man-made conditions at this stationary source that are subject to Rule</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> <small>*If yes, attach Deviation Summary Form</small></p>



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Period Covered by Compliance Certification: 04 / 01 / 12 (MM/DD/YY) to 03 / 31 / 13 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: <u>8.e. Rule 57.1</u></p>	<p>D. Frequency of monitoring:</p> <p style="text-align: center;">Continuous</p>
<p>B. Description:</p> <p>Particulate Matter Emissions from Fuel Burning Equipment</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p> <p style="text-align: center;">n/a</p>
<p>C. Method of monitoring:</p> <p>Compliance assured based on District analysis (12/3/97).</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u></p> <p>G. Compliance Status? (C or I): <u>C</u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u></p> <p><small>*If yes, attach Deviation Summary Form</small></p>

<p>A. Attachment # or Permit Condition #: <u>8.f. Rule 64.B.1</u></p>	<p>D. Frequency of monitoring:</p> <p style="text-align: center;">Continuous</p>
<p>B. Description:</p> <p>Sulfur Content of Fuels - Gaseous Fuel Requirements</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p> <p style="text-align: center;">SCAQMD Method 307-94 or ASTM Method D1072-90</p>
<p>C. Method of monitoring:</p> <p>Monitor source of natural gas and perform source test annually if non-PUC gas is burned.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u></p> <p>G. Compliance Status? (C or I): <u>C</u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u></p> <p><small>*If yes, attach Deviation Summary Form</small></p>

<p>A. Attachment # or Permit Condition #: <u>8.g. Rule 64.B.2</u></p>	<p>D. Frequency of monitoring:</p> <p style="text-align: center;">Continuous</p>
<p>B. Description:</p> <p>Sulfur Content of Fuels - Liquid Fuel Requirements</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p> <p style="text-align: center;">ASTM Method D4294-83 or D2622-87</p>
<p>C. Method of monitoring:</p> <p>Monitor type of fuel burned and obtain a fuel supplier certification or fuel test per each delivery.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u></p> <p>G. Compliance Status? (C or I): <u>C</u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u></p> <p><small>*If yes, attach Deviation Summary Form</small></p>



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Period Covered by Compliance Certification: 04 / 01 / 12 (MM/DD/YY) to 03 / 31 / 13 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: <u>8.h. Rule 74.6 (2003)</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Surface Cleaning and Degreasing</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>Maintain current solvent information. Routine surveillance of solvent cleaning activities. Solvent testing upon request.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: <u>8.i. Rule 74.11.1</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Large Water Heaters and Small Boilers</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>Facility did not install an affected unit (between 75,000 BTU/hr and 2,000,000 BTU/hr).</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: <u>8.j. Rule 74.22</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Natural Gas-Fired, Fan Type Central Furnaces</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>Maintain furnace identification. Rule only applies to future installs.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



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Period Covered by Compliance Certification: 04 / 01 / 12 (MM/DD/YY) to 03 / 31 / 13 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: <u>9.a. Rule 74.1</u></p>	<p>D. Frequency of monitoring:</p> <p style="text-align: center;">Continuous</p>
<p>B. Description:</p> <p>Abrasive Blasting</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p> <p style="text-align: center;">n/a</p>
<p>C. Method of monitoring:</p> <p>Routine surveillance and visual inspections CD Lyon Construction, Inc. (PTO 7141) performs abrasive blasting at the facility.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u></p> <p>G. Compliance Status? (C or I): <u>C</u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>
<p>A. Attachment # or Permit Condition #: <u>9.b. Rule 74.2</u></p>	<p>D. Frequency of monitoring:</p> <p style="text-align: center;">Continuous</p>
<p>B. Description:</p> <p>Architectural Coatings</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p> <p style="text-align: center;">n/a</p>
<p>C. Method of monitoring:</p> <p>Routine surveillance and visual inspections CD Lyon Construction, Inc. (PTO 7141) performs architectural coating activities at the facility.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u></p> <p>G. Compliance Status? (C or I): <u>C</u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>
<p>A. Attachment # or Permit Condition #: <u>9.c. 40CFR61.M</u></p>	<p>D. Frequency of monitoring:</p> <p style="text-align: center;">Continuous</p>
<p>B. Description:</p> <p>Asbestos NESHAPS</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p> <p style="text-align: center;">X</p>
<p>C. Method of monitoring:</p> <p>Follow inspection, recordkeeping, and notification procedures from 40CFR61.145.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u></p> <p>G. Compliance Status? (C or I): <u>C</u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



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Period Covered by Compliance Certification: 04 / 01 / 12 (MM/DD/YY) to 03 / 31 / 13 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: <u>10.a. Part 70 General</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Part 70 Permit General Conditions</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>Throughput and emissions limits; other requirements of the permit; notification; permit modification and renewal; and reporting requirements.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> <small>*If yes, attach Deviation Summary Form</small></p>

<p>A. Attachment # or Permit Condition #: <u>10.b. PO General</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Permit to Operate General Conditions</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>The facility operated in compliance with these requirements including postings.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> <small>*If yes, attach Deviation Summary Form</small></p>

<p>A. Attachment # or Permit Condition #: <u>11.a 40CFR68RMP-157</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Accidental Release Prevention and Risk Management Plans</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>The facility is exempt from federal regulation based on quantity stored. State plan was updated in 2011 in coordination with Oxnard Fire Dept.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> <small>*If yes, attach Deviation Summary Form</small></p>



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Period Covered by Compliance Certification: 04 / 01 / 11 (MM/DD/YY) to 03 / 31 / 12 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: <u>11.b 40CFR82</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Protection of Stratospheric Ozone</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>Facility did not conduct activities subject to this regulation.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: <u>11.c.1 SHIELD-D, Da, Db, Dc</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Permit Shield for 40CFR60, Subparts D, Da, Db, and Dc</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>Facility did not modify or install equipment that would trigger these requirements. Therefore, this permit shield remains in effect.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: <u>11.c.2. SHIELD-60KKKK</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>40CFR60 Subpart KKKK, Standards of Performance for Stationary Combustion Turbines</u></p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: <u>Facility did not modify or install equipment that would trigger these requirements. Therefore, this permit shield remains in effect.</u></p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



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Period Covered by Compliance Certification: 04 / 01 / 12 (MM/DD/YY) to 03 / 31 / 13 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: <u>11.c.3 SHIELD-63YYYY</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: Emissions of Hazardous Air Pollutants remain less than major source thresholds (10 tpy single HAP, 25 tpy combined HAPs).</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: <u>11.c.4 SHIELD-Engines</u></p>	<p>D. Frequency of monitoring: <u>Annual and continuous during operation</u></p>
<p>B. Description: Permit Shield for 40CFR60 Subparts JJJJ and 40CFR63 Subpart ZZZZ</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: Facility did not modify or install equipment subject to the NSPS JJJJ. Non-resettable hour meter and reasons for operation as needed to qualify for this permit shield.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: <u>11.c.5 SHIELD-40CFR72-78</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: Permit Shield for 40CFR Parts 72 through 78</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p>
<p>C. Method of monitoring: The facility supplied less than 219,000 MW-hr/yr to any utility power distribution system. Therefore, this permit shield remains in effect.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

2012 - 2013
Annual Title V Compliance Certification
New-Indy Oxnard, LLC
May 11, 2013

Section 5 Supporting Records

5936 PERKINS ROAD
OXNARD, CA 93033

T (805) 986-3881
F (805) 488-5186

May 29, 2012

Lyle Olson
County of Ventura Air Pollution Control District
669 County Square Drive, Second Floor
Ventura, CA 93003

Subject: May 25, 2012 CO Emission Surge

Dear Mr. Olson:

This letter is a follow up on the call made by Victor Kumpera to the VCAPCD Breakdown Center Hotline on May 25, 2012 at about 1:30 AM.

A call was made to the District due to a surge in CO emissions and potential CO emission limit exceedance on May 25, 2012. However, review of daily emissions showed that the mill was in compliance and did not exceed the turbine and duct burner's permitted total CO limit of 63.43 lbs/hr. The mill is currently conducting further investigation on this matter.

The Daily Emission Sheet, PI and DCS trends have been provided for your review. If you have any questions or require any additional information, please call me at (805) 271-7284.

Sincerely,


Robyn Lebrilla
Environmental Engineer

DAILY ENVIRONMENTAL REPORT

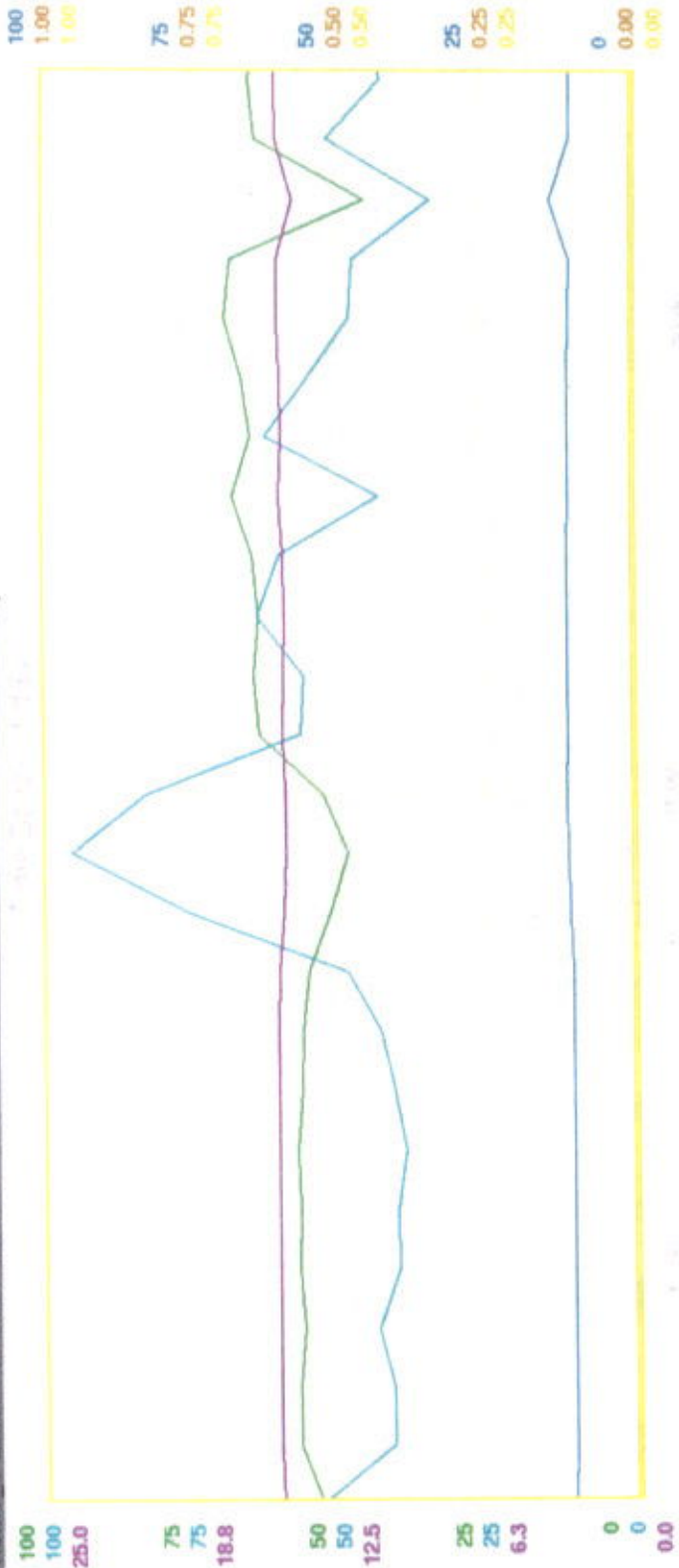
8/25/2012 7:00

5/24/2012 7:00

8/25/2012 7:00

Time	Duct burner gas flow		Turbine gas flow		SCR Temperature °F	SCR inlet NOx ppm	Ammonia Usage lb/h	NH3 inlet mole ratio	Injection stream rate lb/h	Steam to fuel ratio	NOx lb/h	Stack O2 %	Stack CO ppm	Stack CO2 ppm	Stack NOx 15% O2 ppm	3h Running Average NOx	Nitrogen O2 %	Nitrogen %	Nitrogen (6% O2)	Daily Air Cogen		Daily Air Cogen	
	MSCFH	MSCFH	MSCFH	MSCFH																lb/h	lb/h	lb/h	lb/h
8:00	21.74	278.76	278.76	278.76	637.07	65.80	29.53	1.11	2.70	0.80	11.40	14.89	68.53	43.91	10.51	10.50	23.85	0.92		11.12			
9:00	20.42	278.59	278.59	278.59	638.33	68.20	29.79	1.13	2.72	0.80	11.34	14.89	64.89	42.54	10.51	10.50	23.82	0.73					
10:00	17.76	278.59	278.59	278.59	635.36	61.97	31.79	1.20	2.72	0.80	10.91	14.88	57.62	37.44	10.51	10.51	23.66	0.63					
11:00	16.10	278.59	278.59	278.59	634.06	60.27	30.97	1.32	2.72	0.80	10.66	14.97	58.68	36.67	10.35	10.45	23.61	0.70					
12:00	17.31	278.96	278.96	278.96	632.75	57.87	28.84	1.23	2.73	0.81	11.03	14.98	59.67	38.78	10.34	10.45	23.84	-0.72					
13:00	15.18	278.10	278.10	278.10	630.04	53.48	26.65	1.29	2.62	0.83	11.38	15.07	54.09	35.32	10.87	10.45	23.75	-0.81					
14:00	8.96	278.59	278.59	278.59	623.40	57.39	29.32	1.33	2.71	0.80	10.91	15.17	42.60	26.74	10.52	10.51	23.61	-0.91					
15:00	8.93	278.59	278.59	278.59	622.77	57.16	29.30	1.34	2.70	0.80	10.92	15.16	44.69	28.37	10.54	10.53	23.60	-0.91					
16:00	9.61	278.59	278.59	278.59	622.14	58.50	28.80	1.33	2.70	0.80	10.85	15.16	41.41	26.15	10.48	10.51	23.84	-1.43					
17:00	9.49	278.06	278.06	278.06	621.51	57.24	29.91	1.37	2.67	0.80	10.85	15.14	41.22	26.02	10.48	10.51	23.91	-1.91					
18:00	8.41	278.05	278.05	278.05	620.88	57.10	29.75	1.36	2.66	0.79	10.78	15.17	39.94	26.03	10.48	10.49	23.94	-1.62					
19:00	8.89	278.17	278.17	278.17	620.25	57.34	30.03	1.37	2.66	0.79	10.78	15.17	39.94	26.03	10.48	10.49	23.94	-1.62					
20:00	9.66	278.12	278.12	278.12	620.50	58.83	29.31	1.36	2.60	0.79	10.73	15.16	42.14	26.29	10.49	10.49	23.81	-1.23					
21:00	9.64	273.19	273.19	273.19	622.04	56.45	28.61	1.33	2.63	0.79	10.76	15.18	44.24	27.78	10.49	10.49	23.81	-0.83					
22:00	12.15	273.83	273.83	273.83	624.32	55.45	28.06	1.33	2.63	0.79	10.84	15.10	49.64	31.39	10.45	10.47	23.80	-0.13					
23:00	24.90	275.43	275.43	275.43	635.64	51.78	26.36	1.25	2.68	0.79	11.38	14.88	73.48	49.13	10.45	10.45	23.96	-0.13					
0:00	26.93	278.79	278.79	278.79	642.65	48.50	25.21	1.26	2.77	0.82	11.64	14.78	92.25	62.48	10.48	10.45	23.88	-0.13					
1:00	24.39	278.25	278.25	278.25	640.34	52.88	27.26	1.30	2.74	0.81	11.82	14.78	79.93	53.88	10.75	10.55	23.81	-0.13					
2:00	17.34	280.05	280.05	280.05	638.66	63.06	33.82	1.34	2.56	0.75	11.29	14.88	55.25	36.44	10.46	10.56	23.87	0.19					
3:00	17.45	280.30	280.30	280.30	638.36	64.30	34.42	1.34	2.56	0.75	11.35	14.88	54.84	36.18	10.49	10.57	23.85	-0.17					
4:00	20.27	279.51	279.51	279.51	641.20	63.47	33.78	1.32	2.54	0.75	11.38	14.81	61.53	40.88	10.45	10.47	23.84	-0.13					
5:00	19.54	278.10	278.10	278.10	638.43	64.48	34.06	1.34	2.51	0.74	11.35	14.83	58.19	38.35	10.54	10.49	23.85	-0.13					
6:00	11.25	278.32	278.32	278.32	639.89	67.77	36.92	1.40	2.51	0.74	11.66	15.00	43.08	27.49	10.81	10.50	23.90	-0.13					
7:00	20.04	277.09	277.09	277.09	638.31	64.74	34.75	1.33	2.48	0.73	11.26	14.88	61.92	39.88	10.44	10.49	23.84	-0.28					

Comments:

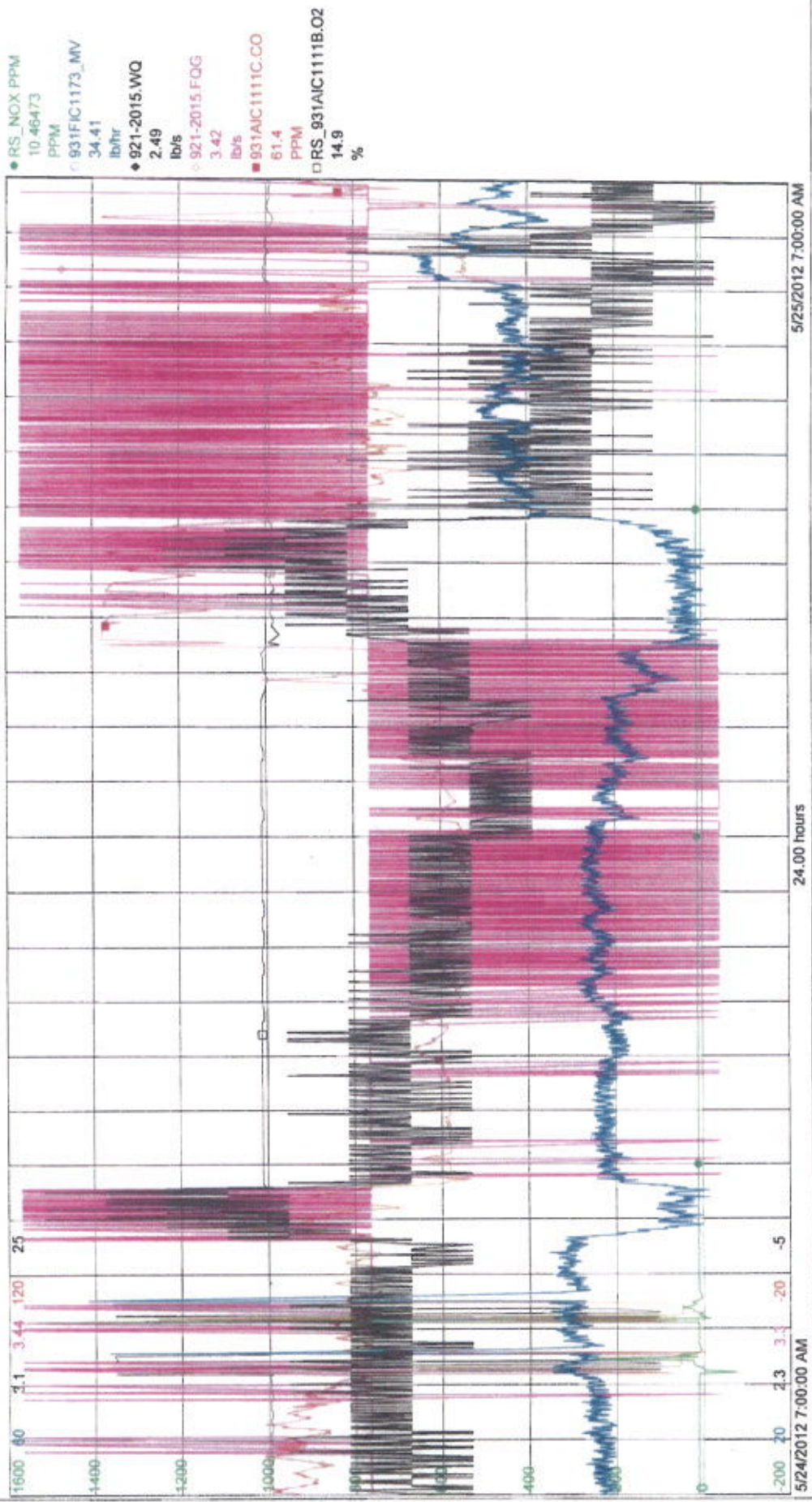


ON/Name	Description	Attribute	Treatment	Ruler Time	Ruler Value	Current Value	Unit	Filter	Time Offset	Form
931AIC1111A.NOX	BAW SCR INLET NOX	MV	Mom	00:00 2012-05-25	40.59	69.45	PPM			
931AIC1111C.CO	BAW BLR STACK RAW CO	MV	Mom	00:00 2012-05-25	95.87	13.81	PPM			
931AIC1111B.O2	BAW BLR RAW O2%	MV	Mean	00:00 2012-05-25	14.78	15.40	%			
931AIC1111D.NOX	BAW BLR STACK NOX	MV	Mean	00:00 2012-05-25	10.91	9.79	PPM			
931-AIC-1111.INGAL	RSMT CEMS IN CAL	MV	Mom	00:00 2012-05-25	0	0				
931-aic-1111.trb	RSMT CEMS TROUBLE	MV	Mom	00:00 2012-05-25	0	0				

D1 30 minutes	D2 1 hour	D3 8 hours	D4 1 day	D5 10 days
D6 Positioning...	D7 Trace Control...	D8 Analyze...	D9 Trace Config...	D10 Extended Config...



Plot-0



NEW INDY

CONTAINERBOARD

July 20, 2012

Lyle Olson
Ventura County Air Pollution Control District
669 County Square Drive, Second Floor
Ventura, CA 93003

Subject: CEMS breakdown – power supply failure

Dear Mr. Olson:

This letter is a follow up on the call made by Chuck Richards to the VCAPCD Breakdown Center Hotline on July 19, 2012 at about 5:20 AM.

The operator received an emission alarm on July 19, 2012 at about 5:05 AM. Troubleshooting showed that the 24 VDC power supply had failed and affected the stack NOx CLD and the calibration valve for the inlet CLD NOx.

The 24 VDC power supply was replaced and a spare NOx CLD module was put into service. Upon start-up, some differences (i.e., validation, purge time) were observed in the CLD module. Rosemount apparently had upgraded the software and there were changes on the CLD calibration clock (validation, purge time, etc).

A decision was made to focus on the CLD module that was removed after the 5:00 AM breakdown and making sure that it was in working condition. After placing the CLD back into service, no software validation and purge time issues were detected. A passing calibration was completed and the CEMS was back into service at about 3:55 PM. CEMS lost NOx data from 5:00 AM to 3:55 PM, a total of 10.92 hrs. The 24 VDC power supply will be upgraded to prevent reoccurrence of this incident.

The Daily Emission Sheet, PI trends, DCS trends, Cogen Report and Environmental Incident Report have been provided for your review. If you have any questions or require any additional information, please call me at (805) 271-7284.

Sincerely,



Robyn Lebrilla
Environmental Engineer

NEW INDY OXNARD, LLC



Ventura County
Air Pollution
Control District

RESPONSIBLE OFFICIAL'S CERTIFICATION FORM

Ventura County APCD Rule 33.9 requires that "any document, including reports, schedule of compliance progress reports and compliance certifications, required by a Part 70 permit shall be certified by a responsible official." Therefore, this form shall be signed by the company's Responsible Official and submitted with all such reports, including, but not limited to semi-annual reports, deviation and emergency reports and any periodic reports required by a Part 70 permit. However, when submitting your Annual Compliance Certifications, please use the form titled Annual Compliance Certification Signature Cover Form.

Semi-annual reports, deviations and emergency reports and any periodic reports required by your Part 70 permit should be submitted to:

Lyle Olson
Air Quality Engineer
Ventura County Air Pollution Control District
669 County Square Drive
Ventura, CA 93003

Certification by Responsible Official

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this document is true, accurate, and complete.

Signature and Title of Responsible Official:	Date:
Signature: <u>Judy Gellman</u>	7/23/2012
Title: <u>Mill Manager</u>	

DAILY ENVIRONMENTAL REPORT

7/19/2012 7:00

Site Test

7/19/2012 7:00

End Test

Flow	Dust burner gas flow		Turbine gas flow		SCR Temperture °F	SCR inlet NOx Ppm	Ammonia Usage lb/h	NH3/NOx mole ratio	Injection steam lb/h	Steam to fuel ratio	NOx lb/h	Stack O2 %	Stack CO ppm	Stack CO lb/h	Stack NOx ppm	15% O2 lb/h	3h Running Average NOx	Nebraska O2 %	Nebraska NOx %	Nebraska Corrected NOx (to 3% O2)	Daily Av Cogen		Daily Av Cogen/Hub	
	MBCFH	gas flow	MBCFH	gas flow																	lb/h	lb/h	lb/h	lb/h
8:00	3.34	260.69	631.27	87.07	38.71	11.15	1.15	2.74	0.80	11.15	14.86	18.66	12.18	10.62	10.62	10.52	23.99	1.45			10.66			
9:00	0.11	282.05	628.13	88.93	40.02	10.95	1.18	2.76	0.80	10.95	14.88	15.71	9.96	10.52	10.52	10.52	23.97	1.53						
10:00	0.11	282.21	629.22	89.01	40.73	10.97	1.19	2.78	0.81	10.97	14.88	14.91	9.40	10.53	10.53	10.53	23.99	1.52						
11:00	0.11	282.24	629.30	89.88	42.20	10.36	1.22	2.79	0.81	10.36	14.85	14.70	9.42	10.14	10.39	10.39	23.98	0.92						
12:00	0.11	283.41	629.38	89.65	41.82	11.00	1.20	2.83	0.81	11.00	14.90	14.57	9.25	10.60	10.39	10.39	24.05	0.95						
13:00	0.11	285.51	629.47	88.94	41.07	11.05	1.19	2.85	0.82	11.05	14.84	14.63	9.34	10.44	10.36	10.36	24.02	0.65						
14:00	0.11	284.74	629.55	89.06	40.82	11.05	1.18	2.86	0.82	11.05	14.86	14.63	9.30	10.52	10.49	10.49	23.97	0.48						
15:00	0.11	284.82	629.63	89.09	41.42	11.11	1.55	2.86	0.82	11.11	14.85	14.83	9.56	10.59	10.51	10.51	23.96	0.71						
16:00	0.11	285.96	629.72	88.78	40.78	10.98	2.24	2.87	0.83	10.98	14.85	14.72	9.26	10.59	10.51	10.51	23.96	0.67						
17:00	0.11	282.55	629.80	89.56	41.59	10.98	1.67	2.81	0.81	10.98	14.85	14.72	9.26	10.59	10.51	10.51	23.96	0.59						
18:00	0.11	282.75	629.86	89.80	41.22	11.00	1.52	2.82	0.81	11.00	14.81	14.40	9.18	10.53	10.52	10.52	23.95	0.59						
19:00	0.11	282.40	629.97	90.62	42.04	10.97	1.42	2.79	0.81	10.97	14.78	13.80	8.81	10.51	10.51	10.51	23.91	0.59						
20:00	1.84	281.74	631.87	90.43	41.91	11.00	1.42	2.78	0.81	11.00	14.76	16.19	10.33	10.51	10.52	10.52	23.96	0.57						
21:00	0.08	283.05	631.89	91.09	42.42	11.02	1.36	2.81	0.81	11.02	14.80	14.12	9.00	10.52	10.52	10.52	23.97	0.60						
22:00	0.07	282.04	629.90	90.08	41.35	10.95	1.33	2.76	0.80	10.95	14.86	14.33	9.08	10.52	10.51	10.51	23.92	0.72						
23:00	3.92	247.31	618.02	73.21	29.98	9.31	1.31	2.33	0.77	9.31	15.16	24.77	13.52	9.85	10.10	10.10	23.93	0.68						
0:00	8.30	194.96	600.19	52.25	14.91	7.81	1.28	1.65	0.70	7.81	15.64	42.31	15.31	10.43	10.35	10.35	23.92	0.66						
1:00	8.30	195.93	599.74	52.50	14.91	7.84	1.28	1.68	0.70	7.84	15.62	41.94	15.12	10.58	10.29	10.29	23.93	1.34						
2:00	9.87	200.23	621.37	78.40	29.00	10.44	1.29	2.27	0.74	10.44	14.99	22.00	13.31	10.81	10.64	10.64	23.93	1.69						
3:00	12.25	254.54	631.05	81.24	32.35	10.35	1.29	2.26	0.74	10.35	14.91	20.57	12.33	10.80	10.66	10.66	23.86	1.69						
4:00	8.03	278.68	633.32	87.09	38.48	11.21	1.29	2.64	0.78	11.21	14.75	19.41	12.39	10.74	10.73	10.73	23.84	1.69						
5:00	8.03	282.05	636.59	84.11	40.58	11.23	1.28	2.78	0.81	11.23	14.68	19.34	12.48	10.74	10.67	10.67	23.86	1.73						
6:00	4.85	282.57	634.89	76.82	29.31	11.23	1.28	2.80	0.81	11.23	14.73	17.69	11.48	10.48	10.48	10.48	23.89	1.63						
7:00	0.01	284.97	630.92	60.40	41.18	11.23	1.20	2.84	0.82	11.23	14.73	17.61	5.10	5.10	5.10	5.10	23.82	1.63						

Comments: CEMT Breakdown due to 14V power supply issue affecting the B2A C.L.D. module on 7/19/12 at about 8:00 AM. C. Richards called APCD at about 8:20 AM.

PRINT TIME: 7/19/2012 10:10 AM
NOTE: This document is valid for only ONE week after print time

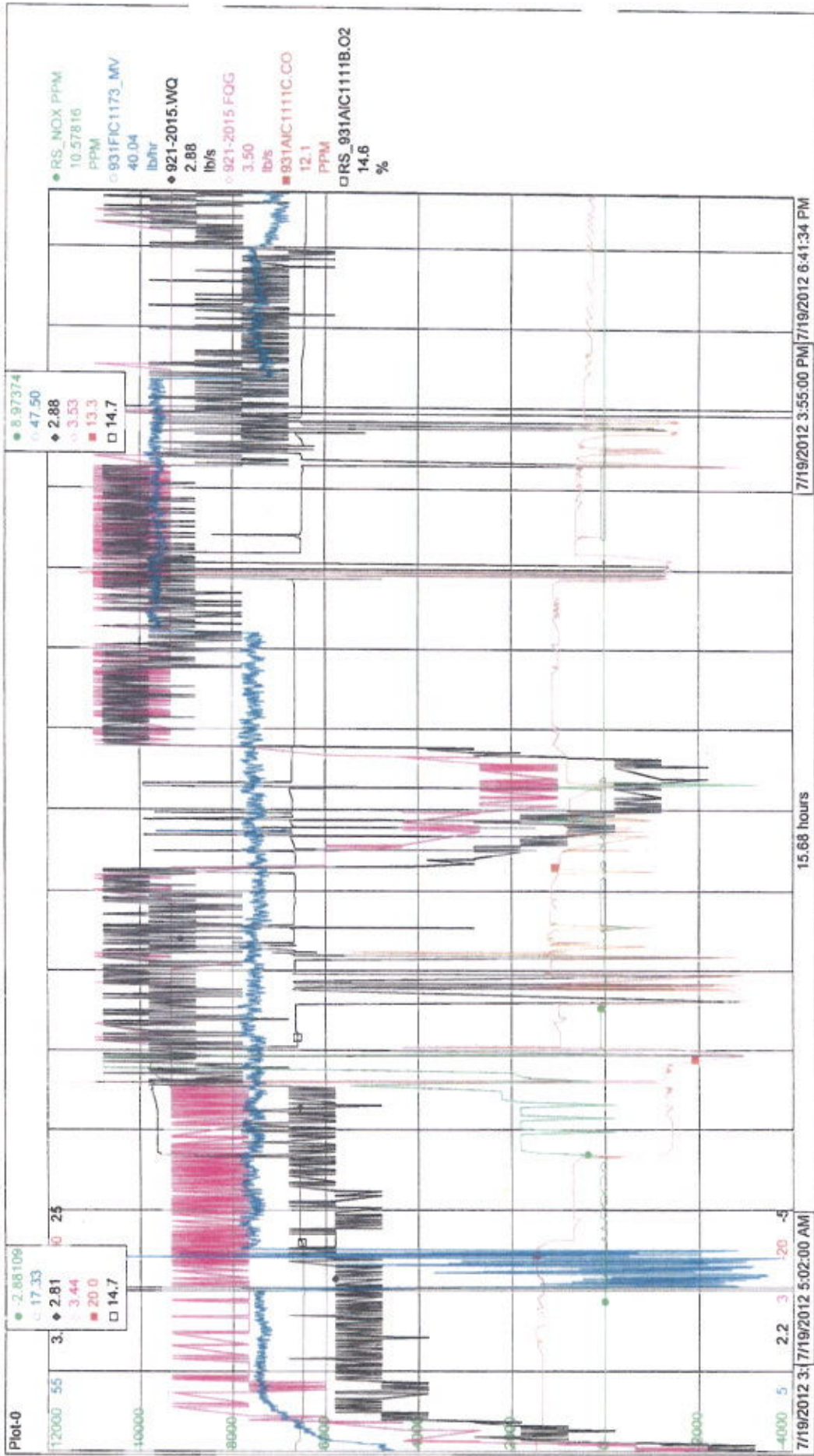
DAILY ENVIRONMENTAL REPORT

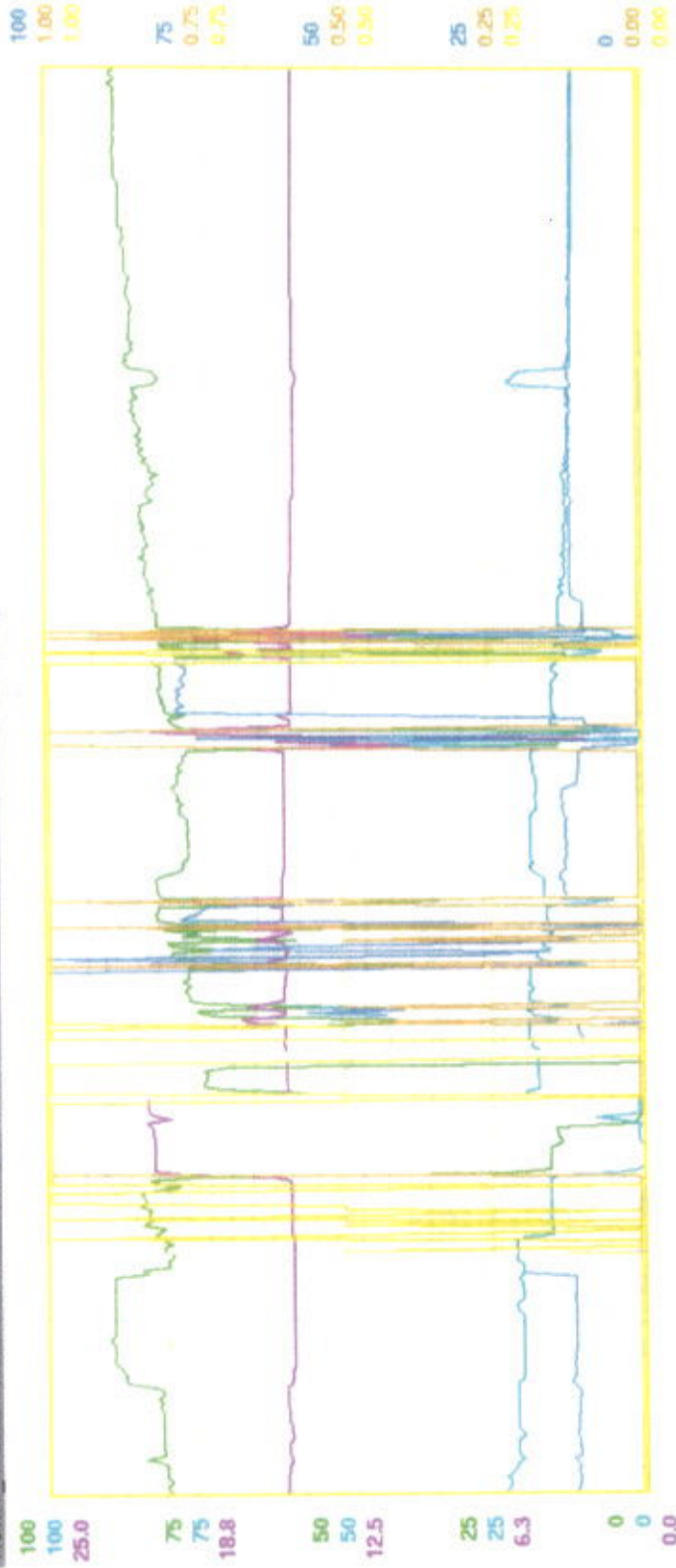
7/19/2012 7:00

7/20/2012 7:00

Time	Dust burner		Turbine		SCR Temperature °F	SCR inlet NOx ppm	Ammonia Usage lb/h	NH3/NOx mole ratio	Injection steam lb/h	Steam to fuel ratio	NOx lb/h	Stack CO ppm	Stack CO lb/h	Stack 15% O2 ppm	Stack CO lb/h	Stack NOx lb/h	Stack O2 %	Nebraska O2 %	Nebraska NOx %	Nebraska NOx % (@ 3% O2)	Daily Av Copan NOx		Daily Av Cop+Web NOx	
	gas flow MGCH	MECH	gas flow MGCH	MECH																	lb/h	lb/h	lb/h	lb/h
8:00	0.01	285.68	630.71	5.80	41.00	41.00	0.84	2.92	0.84	518.42	15.41	4.00	-0.27	3382.93	1311.81	23.87	1.63	23.87	1.63	10.85	10.85	10.85	10.85	
9:00	0.02	286.84	630.51	29.82	41.10	40.13	0.87	3.05	0.87	59.95	17.95	11.63	7.71	49.14	1318.93	23.84	1.63	23.84	1.63	10.85	10.85	10.85	10.85	
10:00	0.02	286.87	630.30	54.27	40.93	27.21	0.87	3.05	0.87	29.77	14.78	18.35	13.63	31.25	1154.14	23.85	1.18	23.85	1.18	10.85	10.85	10.85	10.85	
11:00	0.01	276.83	630.05	89.48	41.08	2.67	0.78	2.49	0.78	17.27	15.67	10.37	0.67	15.12	79.95	23.84	0.81	23.84	0.81	10.85	10.85	10.85	10.85	
12:00	0.01	270.85	629.56	77.08	41.12	1.37	0.68	2.68	0.78	32.59	15.37	12.72	2.43	34.38	49.41	23.85	0.81	23.85	0.81	10.85	10.85	10.85	10.85	
13:00	0.01	288.71	630.51	77.00	41.11	1.36	0.88	3.08	0.88	11.11	14.98	10.68	11.69	12.31	43.11	23.93	1.00	23.93	1.00	10.85	10.85	10.85	10.85	
14:00	0.01	287.89	631.07	69.83	46.27	1.74	0.88	3.04	0.88	10.98	14.71	17.49	12.60	10.46	3.86	23.97	0.91	23.97	0.91	10.85	10.85	10.85	10.85	
15:00	0.02	288.02	631.23	59.36	47.50	1.55	0.87	3.08	0.87	51.12	14.57	9.05	7.08	49.14	28.24	23.98	0.43	23.98	0.43	10.85	10.85	10.85	10.85	
16:00	0.02	287.84	631.37	84.23	47.60	2.24	0.85	2.68	0.85	24.43	14.23	7.32	5.87	35.62	27.03	23.99	0.03	23.99	0.03	10.85	10.85	10.85	10.85	
17:00	0.02	286.84	631.52	82.46	43.97	1.67	0.84	2.94	0.84	10.38	14.66	12.15	7.85	9.85	26.85	23.92	-0.30	23.92	-0.30	10.85	10.85	10.85	10.85	
18:00	0.02	286.84	631.67	83.58	40.91	1.52	0.83	2.91	0.83	11.15	14.62	11.51	7.31	10.53	13.45	23.88	-0.73	23.88	-0.73	10.85	10.85	10.85	10.85	
19:00	0.02	286.84	631.81	82.81	39.99	1.42	0.85	2.95	0.85	11.07	14.56	11.33	7.21	10.45	10.28	23.85	-0.83	23.85	-0.83	10.85	10.85	10.85	10.85	
20:00	0.03	286.84	631.97	84.81	41.53	1.42	0.84	2.95	0.84	11.10	14.55	10.95	7.08	10.48	10.48	23.91	-0.17	23.91	-0.17	10.85	10.85	10.85	10.85	
21:00	0.04	286.84	635.81	84.80	41.51	1.36	0.84	2.92	0.84	11.27	14.54	12.37	8.29	10.55	10.50	23.91	0.27	23.91	0.27	10.85	10.85	10.85	10.85	
22:00	0.05	286.31	633.04	86.05	42.14	1.33	0.83	2.88	0.83	11.12	14.60	10.51	6.68	10.52	10.52	23.93	0.60	23.93	0.60	10.85	10.85	10.85	10.85	
23:00	0.05	281.71	631.92	87.43	42.82	1.31	0.80	2.75	0.80	10.54	14.63	10.31	6.51	10.51	10.53	23.65	1.34	23.65	1.34	10.85	10.85	10.85	10.85	
0:00	0.05	281.69	631.71	89.30	43.48	1.28	0.80	2.78	0.80	10.95	14.63	10.26	6.61	10.51	10.51	23.64	1.34	23.64	1.34	10.85	10.85	10.85	10.85	
1:00	0.05	282.23	631.49	88.78	43.68	1.29	0.80	2.77	0.80	10.94	14.63	10.25	6.62	10.49	10.51	23.93	1.34	23.93	1.34	10.85	10.85	10.85	10.85	
2:00	0.05	281.71	631.28	88.55	43.75	1.29	0.80	2.74	0.80	10.92	14.60	10.31	6.53	10.49	10.50	23.87	1.34	23.87	1.34	10.85	10.85	10.85	10.85	
3:00	0.05	281.71	631.05	88.63	43.61	1.29	0.80	2.72	0.80	10.91	14.60	10.36	6.56	10.49	10.49	23.91	1.34	23.91	1.34	10.85	10.85	10.85	10.85	
4:00	0.05	281.71	630.65	88.85	43.38	1.29	0.80	2.72	0.80	10.93	14.60	10.36	6.56	10.50	10.45	23.92	1.34	23.92	1.34	10.85	10.85	10.85	10.85	
5:00	0.05	280.69	630.18	88.98	43.22	1.28	0.79	2.72	0.79	10.46	14.60	10.26	6.77	10.48	10.48	23.89	1.34	23.89	1.34	10.85	10.85	10.85	10.85	
6:00	0.05	281.54	629.65	88.69	42.93	1.28	0.80	2.72	0.80	10.92	14.60	10.91	6.90	10.48	10.48	23.92	1.36	23.92	1.36	10.85	10.85	10.85	10.85	
7:00	0.05	278.47	628.32	85.60	39.94	1.20	0.79	2.69	0.79	10.73	14.75	11.90	7.44	10.44	10.47	23.91	1.37	23.91	1.37	10.85	10.85	10.85	10.85	

Comments: CERES Breakdown due to 34V power supply issue affecting the NOx CLD molecule on 7/19/12 from 5:08 AM - 7:55 PM, a total CERES downtime of 10.52 hrs.





ON Name	Description	Attribute	Treatment	Ruler Time	Ruler Value	Current Value	Unit	Filter	Time Offset	Form
931AIC1111A.NOX	BAW SCR INLET NOX	MV	Mom	05-24 2012-07-19	79.28	88.03	PPM			MAX
931AIC1111C.CO	BAW BLR STACK RAW CO	MV	Mom	05-24 2012-07-19	20.07	13.91	PPM			MAX
931AIC1111B.O2	BAW BLR RAW O2%	MV	Mean	05-24 2012-07-19	14.00	14.84	%			MAX
931AIC1111D.NOX	BAW BLR STACK NOX	MV	Mean	05-24 2012-07-19	***	10.78	PPM			MAX
931-AIC-1111.INCAL	RSMT CEMS IN CAL	MV	Mom	05-24 2012-07-19	0	0				MAX
931-aic-1111.tb	RSMT CEMS TROUBLE	MV	Mom	05-24 2012-07-19	0	0				MAX

D1 30 minutes	D2 1 hour	D3 8 hours	D4 1 day	D5 10 days
D6 Positioning..	D7 Trace Control..	D8 Analyze...	D9 Trace Config...	D10 Extended Config...



CHEMICAL PUMPS	7:00		8:00		9:00		10:00		11:00		12:00		13:00		14:00		15:00		16:00		17:00		18:00		19:00		20:00		21:00		22:00		23:00		24:00	
	Flow	Temp	Flow	Temp	Flow	Temp	Flow	Temp	Flow	Temp	Flow	Temp	Flow	Temp	Flow	Temp	Flow	Temp	Flow	Temp	Flow	Temp	Flow	Temp	Flow	Temp	Flow	Temp	Flow	Temp	Flow	Temp	Flow	Temp		
450 Header Temp	74	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	
HP Drum Level	0.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
LP Drum Level	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
HP Drum Pressure	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485
LP Drum Pressure	150	147	147	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148
CO	22.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
NOX	10.4	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	
O2	14.82	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	
Hot Well Level	141	153	153	151	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	
1150 SET POINT	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	
SCANNER BLOWER (ON)	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	100N	
DUCT BURNER	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	
SP	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00	13:00		
Filler Separator	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	
Gas Receiver	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	
Drum Level	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN		
Drum Pressure	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	
Steam Flow	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR	#/HR		
Steam Temp	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F		
NOX	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM		
Flow Down Conductivity	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS	MHOS		
ON LINE TURBINE WATER WASH	YES	NO	CO	DUCT	BURNER	442	SP	1150	SET	POINT	449	ON	100N	SCANNER	BLOWER	1103	B	SET	POINT	442	DUCT	BURNER	ON	1103	B	SET	POINT	442	DUCT	BURNER	ON	1103	B	SET	POINT	
BOILER FEED WATER PUMP OPERATION	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
NEBRASKA BOILER	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA		
COMPRESSORS	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA		
NEBRASKA BOILER	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA		
DRY SHIFT OPERATOR	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY		
NIGHT SHIFT OPERATOR	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT	NIGHT		

OFFICIAL DAILY COGENERATION LOG

NOTES: 1. AMMONIA ON MANUEL - 65%
 2. W BLK STACK NOX 630YAL IN P.T.
 3. WENT BAR AT 5:01 A.M.
 4. CSRY CEMTS TROU BLE.

CHEMICAL PUMPS	Level	Feed Rate, ml/min	NEBRASKA		STEAM & WATER READINGS		TURBINE		GAS & ELECTRIC READING		MEGAWATTS	
			NEBRASKA	PERMEATE H ₂ O	CONCENTRATE H ₂ O	LP	HP	TURBINE	MAXION	BURNER		NEBRASKA
Steamer 3.9 ml/min			9433709	182274716	47570665	200094	30.38	7555300	4636093	2974	120169	
Carbox 5.3 ml/min			9438543	1871194	47519507	192272	1944	7861330	463354	70071	113779	
Polymer 6.8 ml/min												
Coasic (as needed)												
TURBINE												
FSR	%		90.3	94.9	45.1	58.4	58.3	57.7	58.3	57.5	8.49	
Inlet Temp	°F		57	54	57	58	57	56	56	56	7.26	
Humidity	%		468	437	29.7	28.8	41.1	49.4	49.4	49.4		
Vibration (Max)	MILS		13	14	14	14	14	14	14	14		
Steam Injection	#/SEC		3.12	2.94	2.94	2.81	2.75	2.75	2.69	2.69		
Turbine L.O. Level	%		100	100	100	100	100	100	100	100		
T48	°F		1523	1531	1531	1533	1538	1538	1528	1522		
GENERATOR												
Gen. Bearing Drain	°F		165	167	167	167	168	168	168	168	8.63	
L.O. Supply	°F		194	194	194	194	194	194	194	194	4.31	
Gen. Vibration (Max)	IPS		37	37	34	34	36	37	38	39	10.18	
Tie Line	MW		13.5	13.7	13.6	13.7	13.66	13.47	13.62	13.52	2.2	
COGEN BOILER												
450 Header Temp	°F		710	710	710	710	710	710	710	710	8.27	
HP Drum Level	IN		1	1	1	1	1	1	1	1	140	
LP Drum Pressure	PSI		455	455	455	455	455	455	455	455	2.78	
HP Drum Pressure	PSI		149	149	149	149	149	149	149	149	18	
CO	PPM		18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	8.99	
NOX	PPM		12.1	12.3	12.3	12.3	12.3	12.3	12.3	12.3	1.71	
Hot Well Level	%		158	142	160	142	158	141	137	160	6	
COMPRESSORS												
Filter Separator	PSI		236	236	236	236	236	236	236	236	11	
Gas Receiver	PSI		425	425	425	425	425	425	425	425	11	
NEBRASKA BOILER												
Drum Level	IN										2	
Drum Pressure	PSI											
Steam Flow	#/HR											
Steam Temp	°F											
NOX	PPM											
Blow Down Conductivity	MHOS											
ON LINE TURBINE WATER WASH	YES	NO										
BOILER FEED WATER PUMP OPERATION	NO. 1	YES	NO	NO. 2	YES	NO	NO. 1	YES	NO	NO. 2	YES	NO
NEBRASKA BOILER												
NOTES:												
# Call for gas @ 10:16 → call for steam check computer size for 10:16 → 7.3 → 11.5 → 11.5 → 11.5 10:16 → 7.3 → 11.5 → 11.5 → 11.5												

NAME: 1013

DRY SHIFT OPERATOR

NIGHT SHIFT OPERATOR

OFFICIAL DAILY COGENERATION LOG

Oxnard Mill Environmental Incident Report

Shaded section to be completed by the EMR

Name of Incident Loss of valid Stack Nox 4-20 ma signal to ABB and PI		Incident Date 7/19/12	
Exact Location Incident Cogen			
Reported By Chuck Richards		Estimated Start and Stop Times of Incident: @0500 AM 7/19/12	
Possible Cause: 24 VDC power supply			
Incident Type: <input checked="" type="checkbox"/> Spill Internal <input checked="" type="checkbox"/> Improper Waste		Released To	
Disposal		<input checked="" type="checkbox"/> Storm Water System <input checked="" type="checkbox"/> Secondary Containment	
<input checked="" type="checkbox"/> Spill External <input checked="" type="checkbox"/> Near miss or below spill release guidelines		<input checked="" type="checkbox"/> Process Sewer <input checked="" type="checkbox"/> X Air	
X Air Emission		<input checked="" type="checkbox"/> Ground (External) <input checked="" type="checkbox"/> Ground (Inside Mill Property)	
<input checked="" type="checkbox"/> Other _____		<input checked="" type="checkbox"/> Near Miss	
		<input checked="" type="checkbox"/> Other _____	

Detailed Description of Event

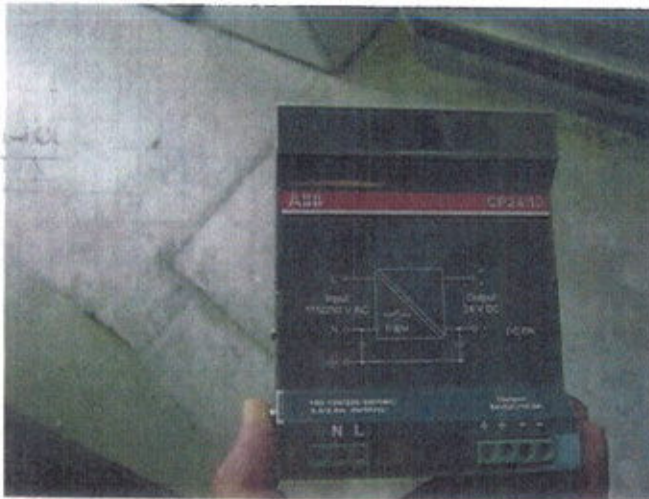
On 19 July 2012, at about 0500 AM, appears that 24 VDC failed and affected the stack NOX CLD and the calibration valve for the Inlet CLD Nox. Cogen mechanic put NH3 control valve from E1 control to Manual at setting it was prior to incident. E/I reps were contacted and enroute.

E/I reps were sent to investigate the Rosemount CEMS. Initial troubleshooting efforts in the AM hours found the suspect 24 VDC power supply, the affected inlet Nox calibration valve and suspected damage to Stack NOx - ozone generator.

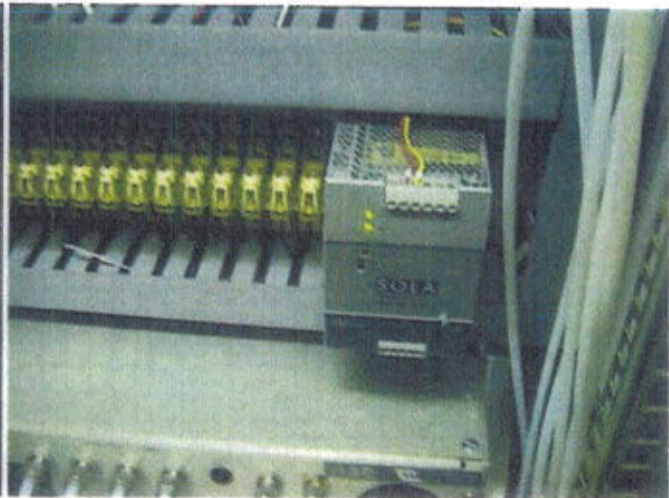
A spare 24 VDC was located and replaced. A CLD module that just recently returned to Mill from Rosemount after being serviced was put into the Stack Nox position. Upon startup- power was back but there were difference in the CLD Module. Apparently, Rosemount- upgraded the software and upon comparison with other CLD module- there were changes on how the CLD calibration clock was working (validation, purge time etc).

Decision was made to focus on the CLD that was removed after the 5:00 AM breakdown and make sure that it was in working order. Then this CLD analyzer was again put into service and none of the software, validation, purge time etc. that were seen on the previous CLD analyzer were seen. A local zero/Span calibration was performed. Verified with Tech Dept- (Robyn Lebrilla) that calibration passed.

Word was passed to Cogen mechanic on duty to again put the NH3 control valve from manual mode to E1 mode for control.



Picture 1- 24 VDC power supply that failed



Picture 2- new 24 VDC power supply installed.

(if required use additional paper and attach)

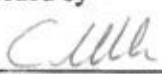
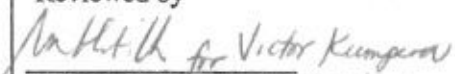
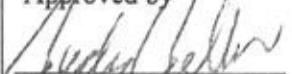
Estimated Amount Released	pH	CONSISTENCY (%)	Estimated Monetary Loss
<input checked="" type="checkbox"/> _____ Gallons <input checked="" type="checkbox"/> _____ Pounds			
<input checked="" type="checkbox"/> Other _____			

Print Time: 7/20/2012 8:56:35 AM

Note: This document is valid for only ONE week after print time!

Oxnard Mill Environmental Incident Report

Shaded section to be completed by the EMR

List Any External Emergency Clean Up Personnel Contacted N/A	List Any External Agencies Contacted (<i>Agency, person and time of call.</i>) APCD was contacted @0520 message left by Chuck Richards.						
List Hueneme Personnel Contacted (<i>Foreman, Mill Manager, etc.</i>) Lars Gustavson, Rudy Rehbein, Robyn Lebrilla, Victor Kumpera	Any Acute or Chronic Health Risks (<i>refer to MSDS</i>) N/A						
Describe Any Emergency Response Actions N/A							
Suggestions to Prevent Reoccurrence							
1. Work to upgrade the 24 VDC power supply per E/I rep suggestions.	Estimated Completion Date 1. Cogen foreman- 1 Sep 2012						
2.	2.						
3.	3.						
4.	4.						
Root Cause after investigation Failed 24 VDC power supply component	Severity Level (<i>level 1 and 2 must be tracked through SHIMS</i>) <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4						
Investigated By: Charlie Wilson	Investigated Date 7/19/2012						
Follow Up	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"><u>By When</u></th> <th style="width: 25%;"><u>Completion Date</u></th> <th style="width: 25%;"><u>By Whom</u></th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	<u>By When</u>	<u>Completion Date</u>	<u>By Whom</u>			
<u>By When</u>	<u>Completion Date</u>	<u>By Whom</u>					
Issued by  Department Manager 7/22/12	Reviewed by  Technical Superintendent 7/20/12	Approved by  Mill Manager 7/23/2012					

Print Time: 7/20/2012 8:56:35 AM

Note: This document is valid for only ONE week after print time!

NEW INDY

CONTAINERBOARD

August 23, 2012

Lyle Olson
Ventura County Air Pollution Control District
669 County Square Drive, Second Floor
Ventura, CA 93003

Subject: CEMS breakdown – stack NOx CLD malfunction

Dear Mr. Olson:

This letter is a follow up on the call I placed to the VCAPCD Breakdown Center Hotline on August 17, 2012 at about 11:40 AM.

Daily CEMS review showed potential stack NOx analyzer issue. E&I investigation followed immediately. It was found that the stack NOx chemiluminescence detector (CLD) was starting to lose the signal intermittently. The CEMS was put offline and the stack NOx CLD was replaced. CEMS lost stack NOx data from 9:05 AM – 1:05 PM, a total of 4 hours. There was no excess emission during this period. The mill is working with Rosemount to address the CLD failure issue and to service the failed CLD analyzer for spare. In addition, the mill will focus its efforts on putting into service the back-up analyzer for APCD certification.

The Daily Emission Sheet, PI trends, DCS trends, Cogen Report and Environmental Incident Report have been provided for your review. If you have any questions or require any additional information, please call me at (805) 271-7284.

Sincerely,


Robyn Lebrilla
Environmental Engineer

NEW INDY OXNARD, LLC

5936 PERKINS ROAD • OXNARD, CALIFORNIA 93033 • WWW.NEWINDYCONTAINERBOARD.COM
PHONE (805) 986-3881 • FAX (805) 488-5186



Ventura County
Air Pollution
Control District

RESPONSIBLE OFFICIAL'S CERTIFICATION FORM

Ventura County APCD Rule 33.9 requires that "any document, including reports, schedule of compliance progress reports and compliance certifications, required by a Part 70 permit shall be certified by a responsible official." Therefore, this form shall be signed by the company's Responsible Official and submitted with all such reports, including, but not limited to semi-annual reports, deviation and emergency reports and any periodic reports required by a Part 70 permit. However, when submitting your Annual Compliance Certifications, please use the form titled Annual Compliance Certification Signature Cover Form.

Semi-annual reports, deviations and emergency reports and any periodic reports required by your Part 70 permit should be submitted to:

Lyle Olson
Air Quality Engineer
Ventura County Air Pollution Control District
669 County Square Drive
Ventura, CA 93003

Certification by Responsible Official

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this document is true, accurate, and complete.

<p>Signature and Title of Responsible Official:</p> <p>Signature: <u>Gudy Gerber</u></p> <p>Title: <u>Mill Manager</u></p>	<p>Date:</p> <p>8/22/2012</p>
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DAILY ENVIRONMENTAL REPORT

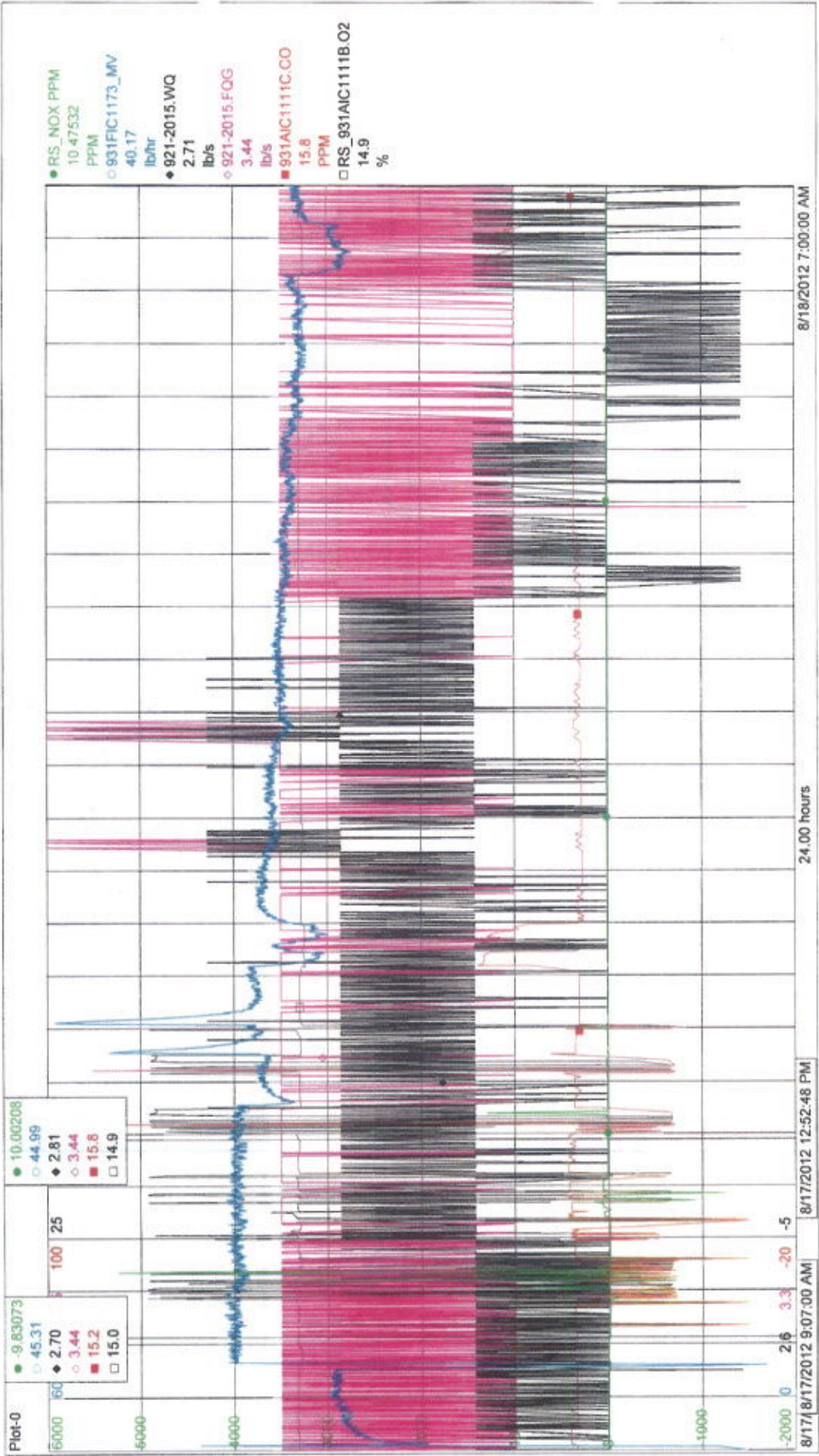
8/17/2012 7:00

8/18/2012 7:00

Time	Duct burner gas flow MFCFH	Turbine gas flow MFCFH	SCR Temperature %	SCR inlet NOx ppm	Ammonia Usage lb/h	MCH NOx mole ratio	Injection steam rate lb/h	Steam to fuel ratio lb/h	NOx lb/h	Stack NOx %	Stack CO ppm	Stack CO 15% O2 lb/h	Stack NOx 15% O2 ppm	3h Running Average NOx	Nebraska NOx %	Nebraska NOx % (to 5% O2)	Daily Av Cogen NOx lb/h	Daily Av Cogen NOx lb/h
8:00	0.01	278.29	625.97	76.47	33.38	1.16	2.71	0.79	10.73	14.97	15.53	9.70	11.14	8.46	34.24		10.83	10.83
9:00	2.45	279.49	628.28	75.45	37.11	1.24	2.72	0.79	10.79	14.94	15.96	12.18	10.47	8.43	34.23			
10:00	0.68	279.17	627.03	55.55	44.99	2.69	2.72	0.80	-11.87	15.88	14.87	7.90	-11.85	3.25	24.25			
11:00	0.08	280.54	626.70	70.07	44.82	1.75	2.73	0.80	-12.73	14.06	15.04	9.69	-12.37	-4.59	24.24			
12:00	0.08	281.71	627.01	38.40	44.77	4.34	2.78	0.81	-56.17	13.33	33.88	5.15	-50.35	-24.87	24.21			
13:00	0.08	281.54	627.31	57.40	44.71	3.72	2.77	0.80	16.73	14.65	13.24	6.80	14.15	-16.20	24.19			
14:00	0.08	281.71	627.62	73.47	41.83	1.48	2.77	0.81	11.16	14.68	15.07	9.35	10.74	-6.49	24.21			
15:00	0.08	281.71	627.92	52.04	44.27	1.57	2.78	0.81	9.99	14.57	23.73	8.11	10.85	11.91	24.21			
16:00	0.08	281.54	628.23	71.50	45.32	1.51	2.78	0.81	10.94	14.86	18.10	22.84	10.46	10.68	24.24			
17:00	5.12	281.54	632.89	71.85	40.19	1.43	2.77	0.81	11.00	14.72	22.87	14.53	10.42	10.68	24.28			
18:00	0.02	281.54	629.95	75.08	42.55	1.47	2.77	0.81	11.03	14.61	13.94	8.76	10.58	10.49	24.25			
19:00	0.02	281.88	628.75	74.67	42.07	1.46	2.71	0.81	10.91	14.77	13.74	8.72	10.48	10.49	24.19			
20:00	0.02	280.96	628.34	74.55	42.00	1.47	2.75	0.80	10.88	14.80	13.79	8.68	10.48	10.71	24.24			
21:00	0.02	281.89	628.10	73.69	41.25	1.45	2.60	0.81	10.88	14.80	14.34	8.97	10.46	10.47	24.24			
22:00	0.02	281.54	627.86	73.73	41.19	1.46	2.78	0.81	10.94	14.80	14.19	9.33	10.52	10.49	24.25			
23:00	0.02	281.71	627.82	73.70	41.28	1.46	2.78	0.81	10.95	14.80	14.29	9.21	10.53	10.50	24.24			
0:00	0.02	278.96	626.88	73.16	40.92	1.47	2.71	0.79	10.83	14.86	14.29	9.21	10.53	10.50	24.24			
1:00	0.02	277.82	625.70	72.97	40.70	1.45	2.71	0.79	10.78	14.87	14.34	9.37	10.50	10.51	24.21			
2:00	0.02	277.97	625.57	73.06	40.52	1.47	2.72	0.79	10.80	14.87	14.96	9.33	10.53	10.51	24.22			
3:00	0.02	277.63	625.80	72.81	40.18	1.46	2.69	0.79	10.74	14.87	14.98	9.36	10.48	10.50	24.21			
4:00	0.02	277.07	626.02	72.44	39.72	1.45	2.67	0.79	10.72	14.87	14.98	9.31	10.47	10.49	24.22			
5:00	0.02	276.93	626.25	72.47	39.67	1.44	2.66	0.79	10.75	14.88	15.01	9.35	10.52	10.49	24.20			
6:00	5.93	277.96	629.88	69.98	37.75	1.39	2.71	0.79	10.96	14.77	23.19	14.75	10.47	10.49	24.18			
7:00	2.36	277.96	627.93	71.73	38.98	1.43	2.69	0.79	10.96	14.83	17.60	11.21	10.58	10.52	24.20			

Comments : CEMS down on 8/17/12 from 0905 to 1305 due to stack NOx CLD failure (intermittently lost signal). Data loss for stack NOx for a total of 4 hrs. Stack NOx CLD was replaced. APCD called on 8/17/12 at 11:38 AM.

PRINT TIME: 8/18/2012 9:03 AM
NOTE: This document is valid for only ONE week after print time



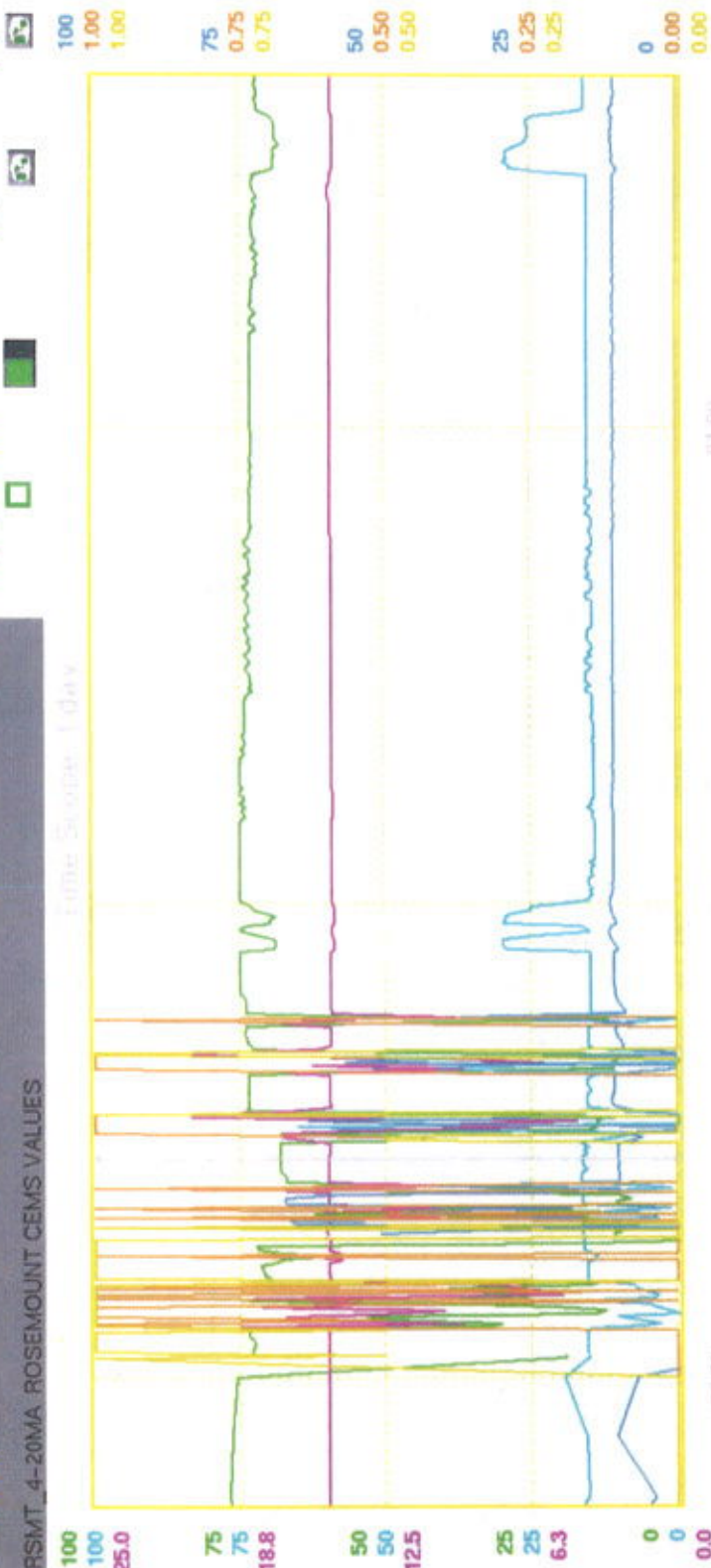


COGEN 2012-08-20 09:20 33 (SC) MEDIUM

RSMT_4-20MA ROSEMOUNT CEMS VALUES

Time Scope: 1 Day

100 100 25.0 75 75 18.8 50 50 12.5 25 25 6.3 0 0 0.0



09:00 2012-08-17 17:00 01:00 2012-08-18

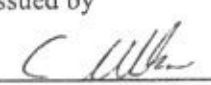
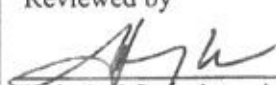
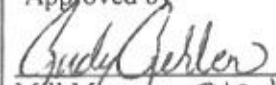
ON/Name	Description	Attribute	Treatment	Ruler Time	Ruler Value	Current Value	Unit	Filter	Time Offset	Form
931AIC1111A.NOX	B&W SCR INLET NOX	MV	Mom	12:42 2012-08-17	68.09	2.41	PPM			Form
931AIC1111C.CO	B&W BLR STACK RAW CO	MV	Mom	12:42 2012-08-17	16.29	24.09	PPM			Form
931AIC1111B.O2	B&W BLR RAW O2%	MV	Mean	12:42 2012-08-17	14.95	14.73	%			Form
931AIC1111D.NOX	B&W BLR STACK NOX	MV	Mean	12:42 2012-08-17	10.14	10.89	PPM			Form
931-AIC-1111.INCAL	RSMT CEMS IN CAL	MV	Mom	12:42 2012-08-17	0	0				Form
931-aic-1111.trb	RSMT CEMS TROUBLE	MV	Mom	12:42 2012-08-17	0	0				Form

30 minutes 1 hour 8 hours 10 days
 Positioning... Trace Control... Analyze... Trace Config... Extended Config...



Hueneme Mill Environmental Incident Report

Shaded section to be completed by the EMR

Name of Incident CEMS Stack NOx Analyzer Failure.		Incident Date 8/17/2012	
Exact Location Incident COGEN			
Reported By L. Gustavson		Estimated Start and Stop Times of Incident: 9:05 AM – 1:05 PM	Possible Cause: CLD analyzer failed.
Incident Type: <input type="checkbox"/> Spill Internal <input type="checkbox"/> Improper Waste Disposal <input type="checkbox"/> Spill External <input type="checkbox"/> Near miss or below spill release guidelines <input checked="" type="checkbox"/> Air Emission <input type="checkbox"/> Other _____		Released To <input type="checkbox"/> Storm Water System <input type="checkbox"/> Secondary Containment <input type="checkbox"/> Process Sewer <input checked="" type="checkbox"/> Air <input type="checkbox"/> Ground (External) <input type="checkbox"/> Ground (Inside Mill Property) <input type="checkbox"/> Near Miss <input type="checkbox"/> Other _____	
Detailed Description of Event On 8/17/2012 at approx. 9am the CLD Stack NOx analyzer stopped working. Investigation showed that CLD stack NOx analyzer had lost communication with the MLT unit. The CLD analyzer was replaced and was back on line at approx. 1 pm. (if required use additional paper and attach)			
Estimated Amount Released <input type="checkbox"/> _____ Gallons <input type="checkbox"/> _____ Pounds <input checked="" type="checkbox"/> Other N/A		pH	CONSISTENCY (%)
List Any External Emergency Clean Up Personnel Contacted N/A		List Any External Agencies Contacted (Agency, person and time of call.) APCD was notified by R. Lebrilla at 11:48 AM	
List Hueneme Personnel Contacted (Foreman, Mill Manager, etc.) R Lebrilla		Any Acute or Chronic Health Risks (refer to MSDS) N/A	
Describe Any Emergency Response Actions			
Suggestions to Prevent Reoccurrence 1. Work with Rosemount to address the CLD failure issue. Rebuild (service & check) the failed stack CLD analyzer for spare. 2. Focus on putting into service the back-up analyzer for APCD certification. 3.			Estimated Completion Date 1. 9/30/2012 2. 12/30/2012 3.
Root Cause after investigation Stack NOx analyzer stopped working – replaced		Severity Level (level 1 and 2 must be tracked through SHIMS) <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	
Investigated By Lars Gustavson		Investigated Date 8/17/2012	
Follow Up		By When	Completion Date
Issued by  Department Manager 8/23/12		Reviewed by  Technical Superintendent 8/23/12	Approved by  Mill Manager 8/23/12

Print Time: 8/22/2012 4:49:43 PM

Note: This document is valid for only ONE week after print time!

NEW INDY

CONTAINERBOARD

August 23, 2012

Lyle Olson
Ventura County Air Pollution Control District
669 County Square Drive, Second Floor
Ventura, CA 93003

Subject: CEMS breakdown – inlet NOx CLD malfunction

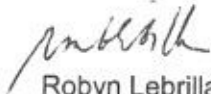
Dear Mr. Olson:

This letter is a follow up on the call made by Lars Gustavson to the VCAPCD Breakdown Center Hotline on August 18, 2012 at about 5:00 PM.

The inlet NOx chemiluminescence detector (CLD) malfunctioned on August 18, 2012 at about 12:00 PM. Troubleshooting showed that the inlet NOx CLD had lost communication with the multicomponent analyzer (MLT) unit. On August 20, 2012 the CLD was rebuilt and reprogrammed to restore the communication back between the CLD and the MLT unit. CEMS lost inlet NOx data from August 18, 2012 at 12:00 PM to August 20, 2012 at 2:30 PM, a total of 50.5 hours. There was no excess emission during this period. The mill is working with Rosemount to address the CLD failure issue and to service the failed CLD analyzer for spare. In addition, the mill will focus its efforts on putting into service the back-up analyzer for APCD certification.

The Daily Emission Sheet, PI trends, DCS trends, Cogen Report and Environmental Incident Report have been provided for your review. If you have any questions or require any additional information, please call me at (805) 271-7284.

Sincerely,



Robyn Lebrilla
Environmental Engineer

NEW INDY OXNARD, LLC

5936 PERKINS ROAD • OXNARD, CALIFORNIA 93033 • WWW.NEWINDYCONTAINERBOARD.COM
PHONE (805) 986-3881 • FAX (805) 488-5186



Ventura County
Air Pollution
Control District

RESPONSIBLE OFFICIAL'S CERTIFICATION FORM

Ventura County APCD Rule 33.9 requires that "any document, including reports, schedule of compliance progress reports and compliance certifications, required by a Part 70 permit shall be certified by a responsible official." Therefore, this form shall be signed by the company's Responsible Official and submitted with all such reports, including, but not limited to semi-annual reports, deviation and emergency reports and any periodic reports required by a Part 70 permit. However, when submitting your Annual Compliance Certifications, please use the form titled Annual Compliance Certification Signature Cover Form.

Semi-annual reports, deviations and emergency reports and any periodic reports required by your Part 70 permit should be submitted to:



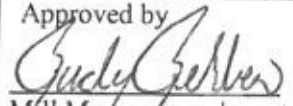
Lyle Olson
Air Quality Engineer
Ventura County Air Pollution Control District
669 County Square Drive
Ventura, CA 93003

Certification by Responsible Official

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this document is true, accurate, and complete.

<p>Signature and Title of Responsible Official:</p> <p>Signature: <u>Gudy Gerber</u></p> <p>Title: <u>Mill Manager</u></p>	<p>Date:</p> <p>8/22/2012</p>
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Hueneme Mill Environmental Incident Report

Name of Incident CEMS Inlet NOx Analyzer Failure.		Shaded section to be completed by the EMR	
Exact Location Incident COGEN		Incident Date 8/18/2012	
Reported By L. Gustavson	Estimated Start and Stop Times of Incident: 12:00 PM 8/18/12 - 2:30 PM 8/20/12	Possible Cause: CLD analyzer failed.	
Incident Type: <input type="checkbox"/> Spill Internal <input type="checkbox"/> Improper Waste Disposal <input type="checkbox"/> Spill External <input type="checkbox"/> Near miss or below spill release guidelines <input checked="" type="checkbox"/> Air Emission <input type="checkbox"/> Other _____	Released To <input type="checkbox"/> Storm Water System <input type="checkbox"/> Secondary Containment <input type="checkbox"/> Process Sewer <input checked="" type="checkbox"/> Air <input type="checkbox"/> Ground (External) <input type="checkbox"/> Ground (Inside Mill Property) <input type="checkbox"/> Near Miss <input type="checkbox"/> Other _____		
Detailed Description of Event On 8/18/2012 at approx. 3 pm the CLD Inlet NOx analyzer was found not working. Investigation showed that CLD inlet NOx analyzer had lost communication with the MLT unit. The analyzer was rebuilt using parts from spares and replaced. Inlet NOx Analyzer was back on line at approx. 2:30 pm 8/20/12. (if required use additional paper and attach)			
Estimated Amount Released <input type="checkbox"/> _____ Gallons <input type="checkbox"/> _____ Pounds <input checked="" type="checkbox"/> Other N/A		pH	CONSISTENCY (%)
List Any External Emergency Clean Up Personnel Contacted N/A		List Any External Agencies Contacted (Agency, person and time of call.) APCD was notified by L. Gustavson at approx. 5 pm 8/18/12.	
List Hueneme Personnel Contacted (Foreman, Mill Manager, etc.) R Lebrilla, V Kumpera, Foreman Chuck Richards		Any Acute or Chronic Health Risks (refer to MSDS) N/A	
Describe Any Emergency Response Actions			
Suggestions to Prevent Reoccurrence 1. Work with Rosemount to address the CLD failure issue. Rebuild (service & check) the failed CLD analyzer for spare. 2. Focus on putting into service the back-up analyzer for APCD certification. 3.			Estimated Completion Date 1. 9/30/2012 2. 12/30/2012 4.
Root Cause after investigation Inlet NOx analyzer stopped working – rebuilt & reprogrammed.		Severity Level (level 1 and 2 must be tracked through SHIMS) <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	
Investigated By Lars Gustavson		Investigated Date 8/18/12 & 8/20/12	
Follow Up		By When	Completion Date
By Whom			
Issued by  Department Manager 8/23/12	Reviewed by  Technical Superintendent 8/23/12	Approved by  Mill Manager 8/23/2012	

Print Time: 8/22/2012 4:33:49 PM

Note: This document is valid for only ONE week after print time!

DAILY ENVIRONMENTAL REPORT

8/18/2012 7:00

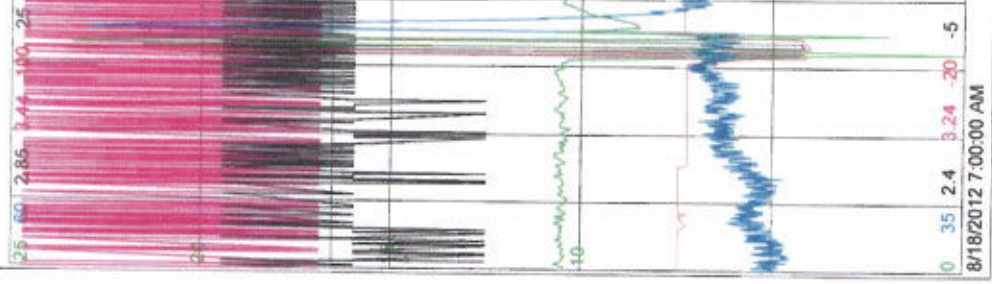
8/18/2012 7:00

8/18/2012 7:00

Time	Duct burner gas flow MCF/H	Turbine gas flow MCF/H	SCR Temperature °F	SCR inlet NOx ppm	SCR inlet NOx ppm	NH3 NOx mole ratio	Injection steam rate lbs/hr	Steam to fuel ratio	NOx lbs/hr	Stack O2 %	Stack CO ppm	Stack CO lbs/hr	Stack NOx ppm	3h Running Average NOx	Nebraska O2 %	Nebraska NOx %	Nebraska Corrected NOx (to 5% O2)	Daily Av Cogen		Daily Av Cog+Heb	
																		lb/hr	lb/hr	lb/hr	lb/hr
8:00	0.43	277.79	625.58	72.68	1.46	2.69	0.79	10.81	14.85	15.27	9.65	10.52	10.52	24.18	0.34			10.74		10.74	
9:00	0.49	277.27	625.76	73.12	1.47	2.70	0.79	10.79	14.86	14.91	9.30	10.52	10.54	24.14	0.21						
10:00	0.46	278.11	625.93	73.73	1.48	2.71	0.79	10.82	14.86	14.38	8.93	10.53	10.52	24.10	0.37						
11:00	0.33	277.86	626.10	74.11	1.54	2.72	0.78	9.99	14.92	14.87	9.26	9.90	10.32	24.04	0.17						
12:00	0.42	278.49	626.28	73.99	1.48	2.72	0.80	10.80	14.88	14.77	9.25	10.49	10.31	24.06	0.11						
13:00	0.22	275.05	626.57	1.74	-8.61	2.63	0.78	10.72	14.86	13.89	8.64	10.55	10.32	24.19	0.17						
14:00	2.85	275.72	629.68	-8.05	-10.62	2.64	0.79	10.83	14.81	17.47	10.99	10.53	10.52	24.20	-0.14						
15:00	0.91	278.78	628.44	-8.72	-11.70	2.67	0.79	10.78	14.85	14.08	8.77	10.53	10.54	24.22	-0.73						
16:00	2.45	275.57	628.98	-8.72	-11.32	2.65	0.79	10.64	14.82	17.60	10.96	10.37	10.48	24.22	-0.91						
17:00	4.87	277.10	632.08	-8.72	-10.87	2.67	0.79	11.65	14.76	19.12	12.18	10.64	10.52	24.23	-1.14						
18:00	0.04	277.26	627.91	-8.72	-12.19	2.66	0.79	10.80	14.65	13.98	8.71	10.55	10.52	24.22	-1.71						
19:00	1.68	275.75	627.46	35.75	-4.65	2.66	0.79	10.58	14.81	16.73	10.40	10.32	10.59	24.15	-1.34						
20:00	2.87	275.41	628.60	-10.59	-9.99	2.62	0.78	10.89	14.82	18.40	11.76	10.59	10.49	24.16	-0.66						
21:00	0.05	275.72	625.70	-10.59	-10.49	2.64	0.79	10.68	14.90	14.97	9.27	10.59	10.47	24.20	0.10						
22:00	0.08	276.59	626.10	-10.59	-10.42	2.66	0.79	10.72	14.90	15.18	9.44	10.49	10.53	24.18	0.44						
23:00	2.49	276.42	628.38	-10.59	-10.17	2.87	0.79	10.89	14.82	18.00	11.36	10.49	10.49	24.18	0.47						
0:00	3.34	276.25	627.38	-10.59	-10.00	2.64	0.79	10.76	14.84	18.85	11.75	10.42	10.47	24.17	0.47						
1:00	2.61	274.37	626.81	-10.59	-10.01	2.62	0.78	10.83	14.87	17.15	10.82	10.60	10.50	24.18	0.48						
2:00	0.08	273.67	624.87	-10.59	-10.55	2.62	0.78	10.83	14.90	14.78	9.11	10.51	10.51	24.18	0.57						
3:00	0.63	273.18	625.18	-10.59	-10.61	2.60	0.78	10.57	14.91	14.96	9.24	10.44	10.51	24.23	0.94						
4:00	6.43	271.81	629.59	-10.59	-9.75	2.57	0.77	10.79	14.82	20.31	12.80	10.52	10.49	24.19	0.74						
5:00	6.70	271.64	628.86	-10.59	-9.83	2.56	0.77	10.73	14.80	21.01	13.11	10.45	10.47	24.16	0.78						
6:00	7.84	271.64	630.80	-10.59	-9.73	2.57	0.77	10.83	14.78	21.00	13.15	10.49	10.49	24.18	0.78						
7:00	7.94	271.64	631.09	-10.59	-9.70	2.56	0.77	10.88	14.78	20.75	13.14	10.54	10.49	24.18	0.84						

Comments: inlet NOx CLD malfunction - data loss from 8/18/12 12:00 PM - 8/18/12 7:30 AM, a total of 15 hrs. Weekend call duty (L. Gustafson) discovered incident at about 3 PM and called APCD at about 5 PM.

Plot-0



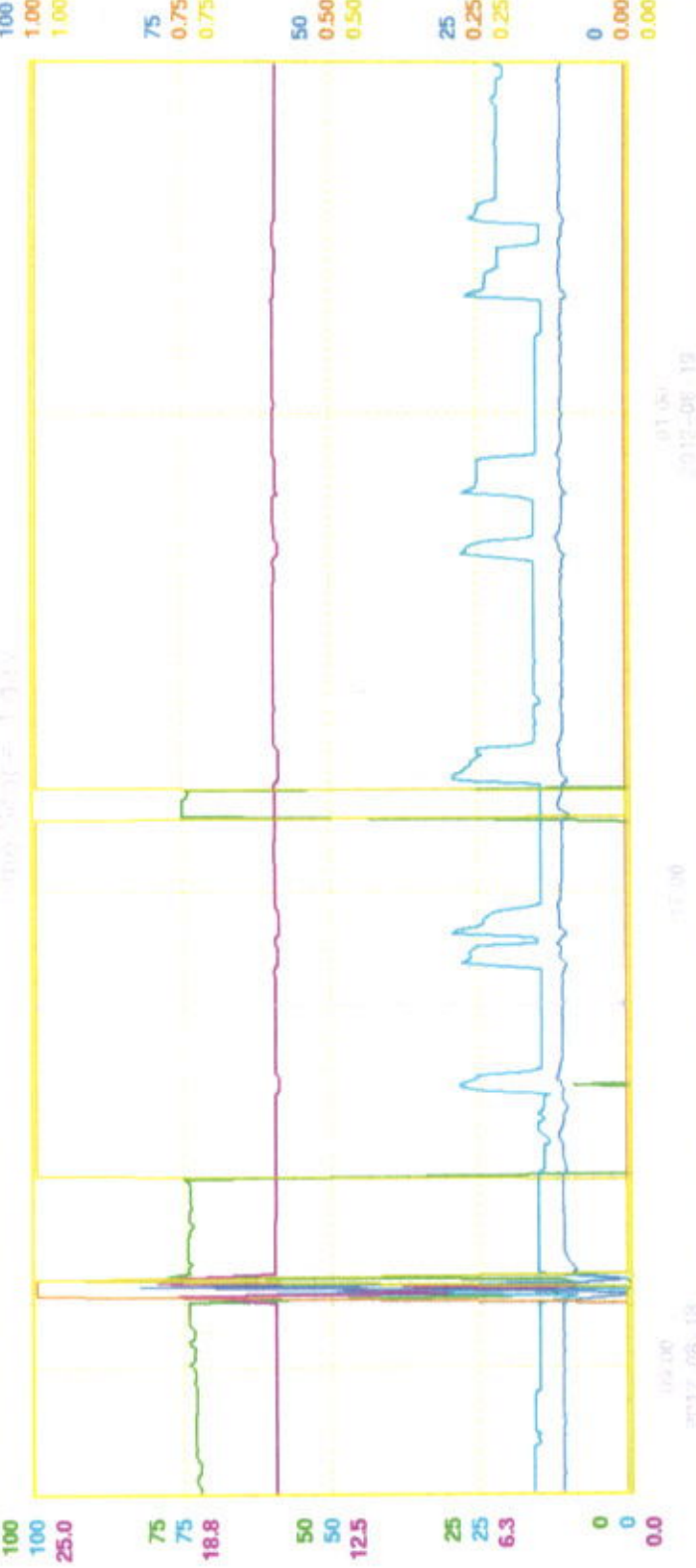
- RS_NOX_PPM 10.54045 PPM
- 931AIC1173_MV 39.80 lb/hr
- 921-2015.WQ 2.52 lb/s
- 921-2015.FOG 3.26 lb/s
- 931AIC1111C.CO 21.8 PPM
- RS_931AIC1111B.O2 14.8 %

8/19/2012 7:00:00 AM

24.00 hours

8/18/2012 7:00:00 AM

RSMT_4-20MA ROSEMOUNT CEMS VALUES



ON/Name	Description	Attribute	Treatment	Ruler Time	Ruler Value	Current Value	Unit	Filter	Time Offset	Form
931AIC1111A.NOX	B&W SCR INLET NOX	MV	Mom	15:06 2012-08-18	-9.72	2.41	PPM			
931AIC1111C.CO	B&W BLR STACK RAW CO	MV	Mom	15:06 2012-08-18	14.44	23.09	PPM			
931AIC1111B.O2	B&W BLR RAW O2%	MV	Mean	15:06 2012-08-18	14.85	14.73	%			
931AIC1111D.NOX	B&W BLR STACK NOX	MV	Mean	15:06 2012-08-18	10.84	11.22	PPM			
931-AIC-1111.JNCAL	RSMT CEMS IN CAL	MV	Mom	15:06 2012-08-18	0	0				
931-aic-1111.trb	RSMT CEMS TROUBLE	MV	Mom	15:06 2012-08-18	1	0				

30 minutes 1 hour 8 hours 10 days
 Positioning... Trace Control... Analyze... Trace Config... Extended Config...



DAILY ENVIRONMENTAL REPORT

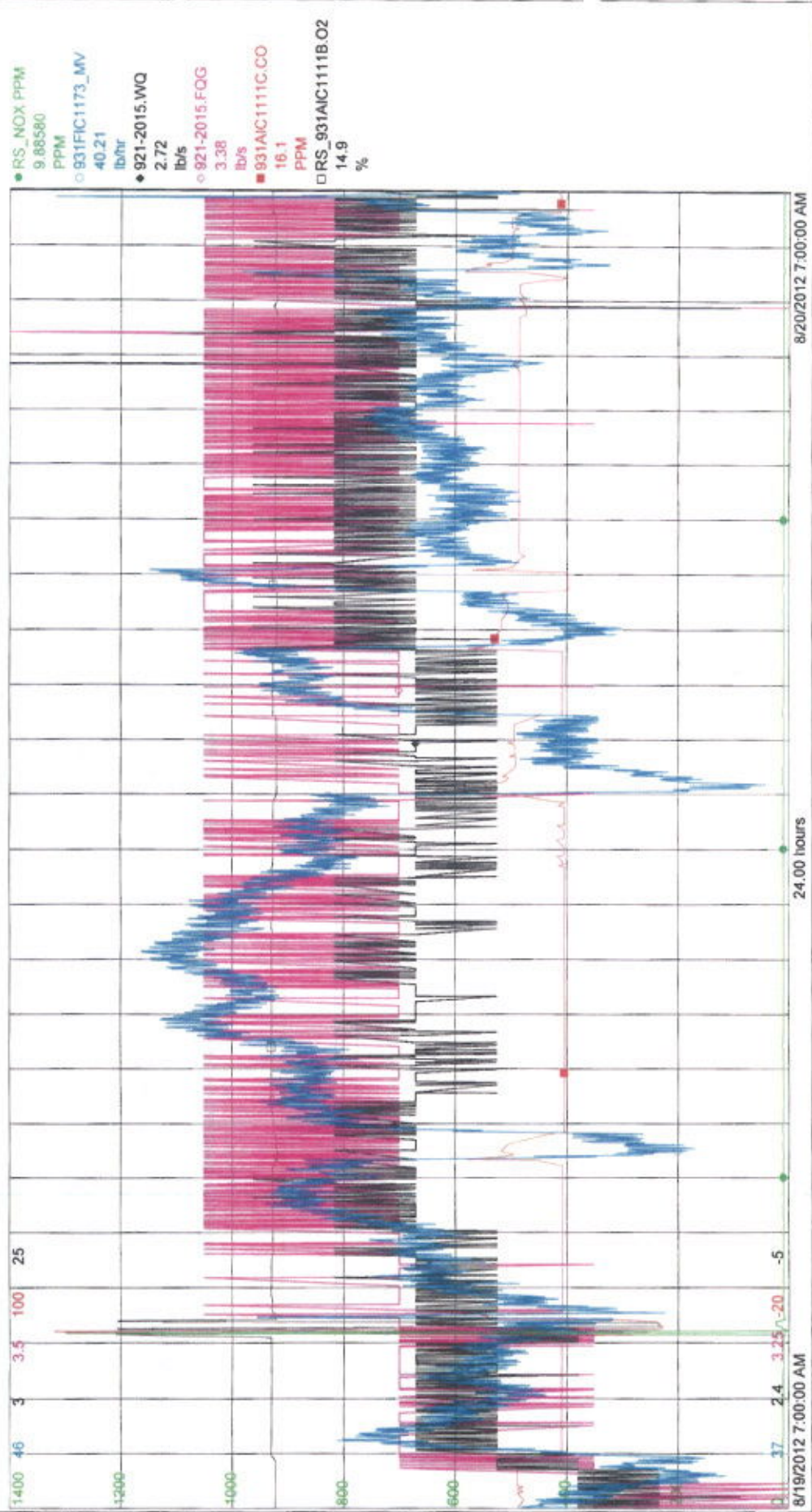
8/20/2012 7:00 8/15/2012 7:00

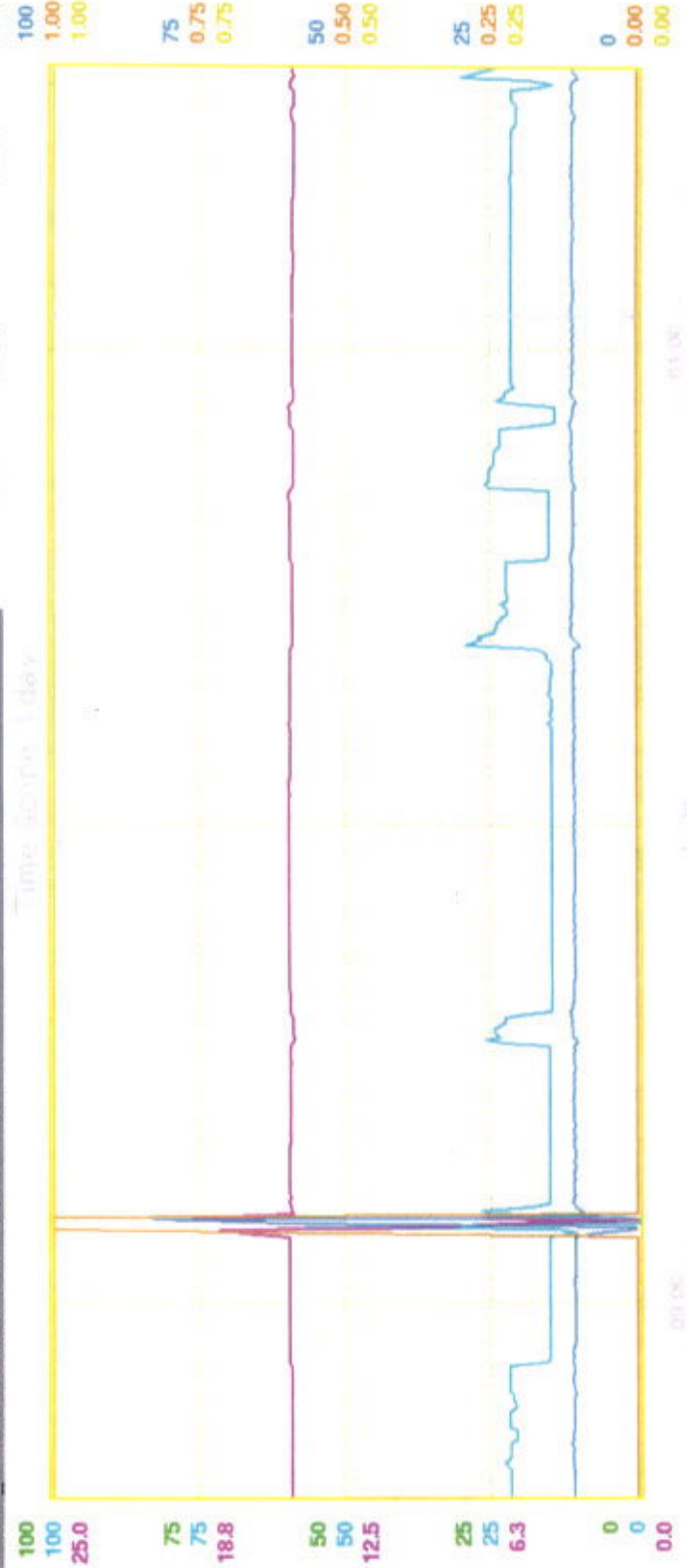
End time: 8/20/2012 7:00 Next time: 8/15/2012 7:00

Time	Duct burner gas flow MSCFH	Turbine gas flow MSCFH	SCR Temperature °F	SCR inlet NOx ppm	Ammonia Usage lb/h	NH3/NOx mole ratio	Ingestion rate lb/s	Steam to Boiler lb/h	NOx lb/h	Stack O2 %	Stack CO ppm	Stack CO lb/h	15% O2 NOx ppm	3h Running Average NOx	Nebraska NOx %	Nebraska NOx % (to 3% O ₂)	Daily Av Cogent NOx lb/h	Daily Av Cogent NOx lb/h
8:00	7.45	271.32	631.26	-10.59	38.87	-9.83	2.55	0.77	10.80	14.79	20.48	12.82	10.49	10.51	1.24		10.32	10.62
9:00	0.04	276.59	626.80	-10.59	41.00	-10.23	2.66	0.79	10.74	14.91	14.85	9.25	10.50	10.51	1.19			
10:00	0.00	276.39	627.11	-10.59	40.48	-10.14	2.66	0.79	10.70	14.91	14.85	9.23	10.48	10.49	1.20			
11:00	3.20	275.60	629.84	-10.59	40.39	-10.08	2.64	0.79	10.80	14.90	14.67	9.11	10.59	10.52	1.03			
12:00	0.07	275.93	627.75	-10.59	41.17	-10.30	2.67	0.79	10.76	14.90	14.65	9.12	10.51	10.53	0.85			
13:00	0.05	280.19	628.13	-10.59	42.25	-10.42	2.72	0.80	10.90	14.86	14.56	9.17	10.54	10.55	0.64			
14:00	4.19	278.11	631.36	-10.59	40.49	-9.95	2.71	0.79	10.93	14.78	18.20	11.73	10.49	10.51	0.28			
15:00	0.06	276.75	626.54	-10.09	42.50	-10.63	2.69	0.79	10.76	14.89	14.34	8.91	10.52	10.52	0.20			
16:00	0.08	277.10	627.38	-10.59	43.11	-10.74	2.69	0.79	10.79	14.91	14.37	8.95	10.54	10.52	-0.67			
17:00	0.08	277.46	627.10	-10.59	43.46	-10.85	2.70	0.79	10.74	14.91	14.37	8.96	10.50	10.52	-0.76			
18:00	0.08	276.93	626.82	-10.59	43.72	-10.84	2.70	0.79	10.77	14.89	14.32	8.96	10.50	10.52	-0.77			
19:00	0.08	276.93	626.82	-10.59	43.72	-10.84	2.70	0.79	10.77	14.89	14.32	8.96	10.50	10.52	-0.77			
20:00	0.13	277.10	627.34	-10.59	42.84	-10.70	2.69	0.79	10.72	14.86	14.38	8.87	10.47	10.51	-0.52			
21:00	8.06	277.10	632.89	-10.59	39.07	-9.56	2.67	0.79	10.75	14.84	15.17	9.14	10.49	10.49	-0.05			
22:00	3.04	276.61	630.57	-10.59	41.02	-10.08	2.67	0.79	10.89	14.72	22.52	14.48	10.45	10.47	0.42			
23:00	3.06	277.93	629.24	-10.59	41.76	-10.32	2.68	0.79	10.85	14.80	17.27	11.08	10.58	10.51	0.81			
0:00	5.61	281.57	632.72	-10.59	41.01	-9.82	2.73	0.80	10.80	14.79	18.41	11.53	10.42	10.48	0.87			
1:00	7.90	281.54	634.15	-10.59	41.26	-9.89	2.72	0.80	11.28	14.75	18.90	12.97	10.63	10.44	1.15			
2:00	7.90	280.86	635.23	-10.59	40.79	-9.75	2.72	0.80	11.13	14.75	20.54	13.33	10.42	10.45	1.33			
3:00	7.90	280.15	635.03	-10.59	40.79	-9.75	2.72	0.80	11.21	14.77	20.74	13.45	10.51	10.52	1.14			
4:00	7.96	279.00	634.84	-10.59	41.20	-9.89	2.73	0.80	11.19	14.74	20.64	13.37	10.52	10.49	1.06			
5:00	7.93	279.49	634.54	-10.59	40.88	-9.85	2.72	0.80	11.12	14.73	20.64	13.33	10.48	10.51	1.36			
6:00	6.81	280.02	633.33	-10.59	41.15	-9.94	2.71	0.80	11.15	14.71	20.27	13.12	10.50	10.50	1.53			
7:00	4.86	279.82	631.75	-8.24	40.80	-9.84	2.72	0.80	11.13	14.74	21.16	13.47	10.51	10.50	1.27			
					40.83	-9.86	2.72	0.80	11.03	14.82	18.90	12.27	10.45	10.49	1.45			

Comments : Inlet NOx CLD malfunction - data loss from 8/18/12 7:00 AM - 8/20/12 7:00 AM - a total of 24 hrs.

Plot-0





01:34:00 2012-08-19 1:30 01:34:00 2012-08-20

ION Name	Description	Attribute	Treatment	Ruler Time	Ruler Value	Current Value	Unit	Filter	Time Offset	Form
931AIC1111A.NOX	B&W SCR INLET NOX	MV	Mom	01:34 2012-08-20	-10.58	2.41	PPM			▼▼▼
931AIC1111C.CO	B&W BLR STACK RAW CO	MV	Mom	01:34 2012-08-20	21.56	24.09	PPM			▼▼▼
931AIC1111B.O2	B&W BLR RAW O2%	MV	Mean	01:34 2012-08-20	14.77	14.73	%			▼▼▼
931AIC1111D.NOX	B&W BLR STACK NOX	MV	Mean	01:34 2012-08-20	10.89	10.90	PPM			▼▼▼
931-AIC-1111.INCAL	RSMT CEMS IN CAL	MV	Mom	01:34 2012-08-20	0	0				▼▼▼
931-aic-1111.trb	RSMT CEMS TROUBLE	MV	Mom	01:34 2012-08-20	1	0				▼▼▼

D1 30 minutes	D2 1 hour	D3 8 hours	D4 10 days
D6 Positioning...	D7 Trace Control...	D8 Analyze...	D9 Trace Config...
			D10 Extended Config...



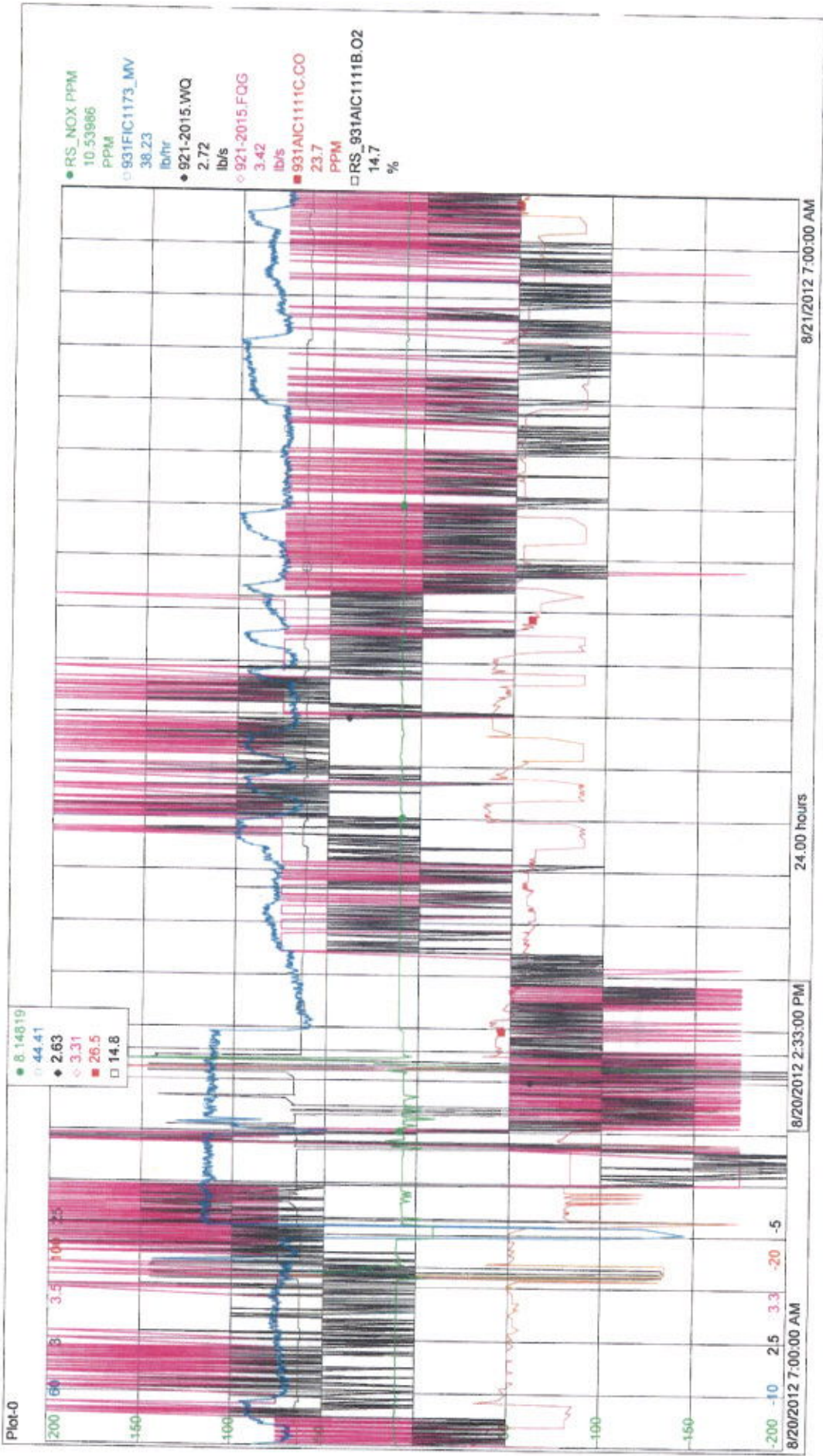
DAILY ENVIRONMENTAL REPORT

8/20/2012 7:00

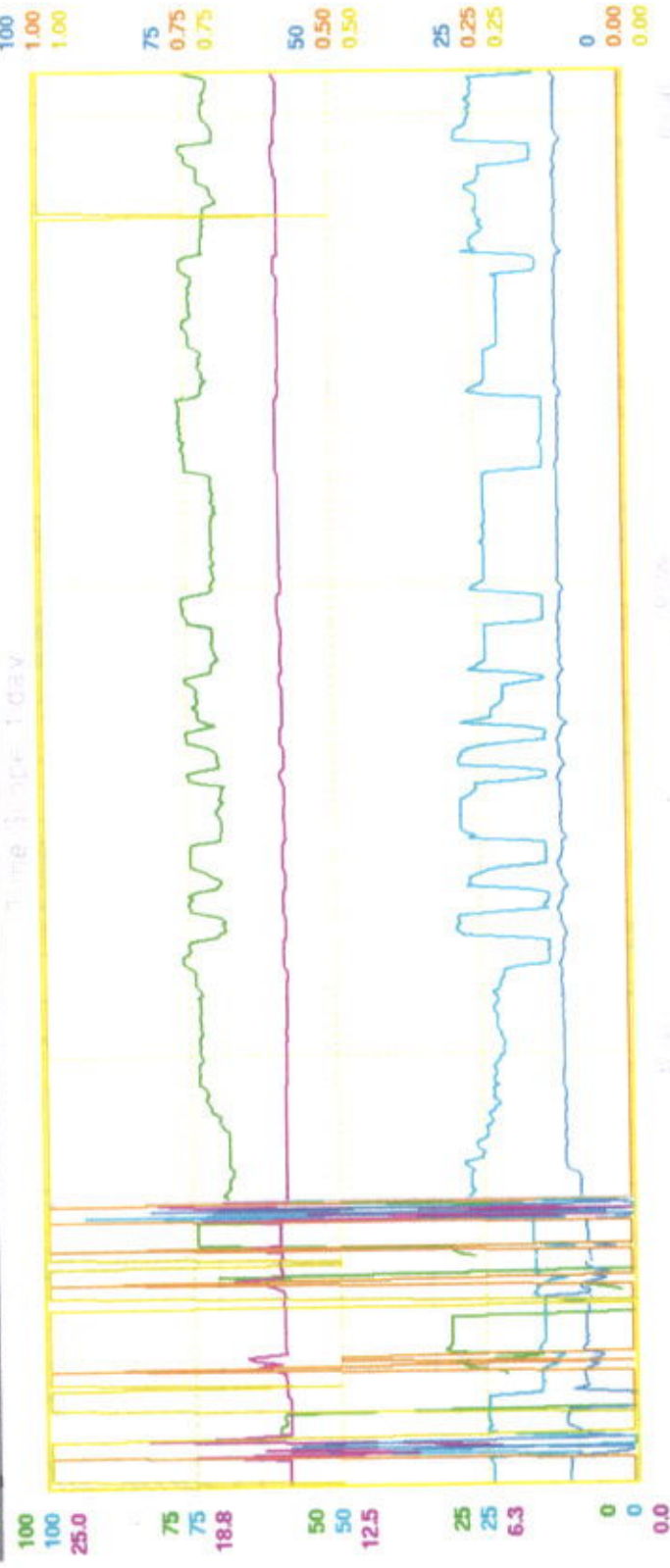
8/21/2012 7:00

Time	Duct burner gas flow MscFH	Turbine gas flow MscFH	SCR Temperature °F	SCR inlet NOx ppm	Ammonia Usage lb/h	NH3 NOx mole ratio	Injection steam rate lbs/h	Steam to fuel ratio	NOx lb/h	Stack O2 %	Stack CO ppm	Stack NOx ppm	3h Running Average NOx	Hebraska O2 %	Nebraska NOx %	Nebraska Converter NOx (to 2% O2)	Daily Av Cogen		Daily Av Cogen/Heb	
																	lb/h	lb/h	lb/h	lb/h
8:00	4.74	281.22	631.59	2.38	38.90	21.00	2.76	0.80	11.00	14.79	21.32	13.75	10.44	24.17	1.67		10.55	10.55		
9:00	8.02	282.05	633.71	1.89	37.64	10.84	2.82	0.82	11.28	14.73	23.77	15.02	10.47	24.17	1.75					
10:00	7.90	281.71	630.30	-1.88	38.27	7.52	2.79	0.81	11.24	14.72	23.12	15.01	10.49	24.18	1.70					
11:00	8.04	282.05	630.89	47.80	34.35	3.58	2.82	0.81	10.89	14.70	23.26	15.32	10.41	24.15	1.55					
12:00	1.39	284.23	632.16	13.10	37.45	4.45	2.86	0.83	7.74	14.87	16.43	16.27	8.13	24.09	1.64					
13:00	0.08	274.42	629.08	11.66	44.25	4.09	2.63	0.78	7.52	14.08	14.60	8.53	8.61	24.08	1.33					
14:00	0.08	275.52	628.55	34.07	44.08	3.30	2.62	0.78	7.73	15.03	15.35	10.99	7.62	24.14	1.03					
15:00	5.44	275.43	630.28	52.79	43.83	2.75	2.63	0.78	8.95	14.43	19.23	15.83	8.53	24.18	0.51					
16:00	8.11	275.40	634.78	89.14	36.20	1.96	2.64	0.79	11.61	14.77	24.21	15.53	8.89	24.17	0.14					
17:00	8.15	279.34	635.16	72.89	38.00	1.81	2.72	0.80	11.19	14.73	21.45	14.99	10.55	24.21	-0.40					
18:00	8.17	280.32	635.90	73.33	38.91	1.65	2.75	0.80	11.14	14.66	20.93	13.62	10.46	24.17	-0.50					
19:00	4.13	281.40	633.64	74.33	40.86	1.55	2.78	0.81	11.15	14.88	17.07	10.86	10.54	24.21	-0.31					
20:00	4.83	282.40	633.34	71.63	38.85	1.36	2.83	0.82	11.04	14.68	21.10	13.45	10.45	24.24	0.33					
21:00	4.85	282.23	632.83	72.19	39.15	1.35	2.84	0.82	11.08	14.68	20.06	12.94	10.45	24.22	0.89					
22:00	6.80	282.57	634.66	70.76	38.10	1.32	2.82	0.82	11.24	14.68	23.04	15.01	10.53	24.20	1.08					
23:00	5.63	281.54	632.67	72.93	39.09	1.36	2.77	0.81	11.19	14.70	20.16	13.04	10.57	24.21	1.09					
0:00	6.71	279.48	632.66	72.01	39.30	1.37	2.73	0.80	11.08	14.71	20.65	13.22	10.47	24.20	1.26					
1:00	3.95	279.87	630.00	73.20	40.09	1.40	2.72	0.80	11.01	14.77	18.03	11.62	10.51	24.21	1.45					
2:00	7.97	277.41	633.70	70.48	38.08	1.33	2.71	0.79	11.08	14.72	22.75	14.89	10.50	24.20	1.37					
3:00	6.94	276.62	633.63	70.79	38.24	1.33	2.68	0.79	11.05	14.74	21.55	13.90	10.56	24.21	1.49					
4:00	0.09	277.07	627.01	75.49	41.56	1.45	2.68	0.79	10.82	14.86	13.33	8.30	10.56	24.17	1.98					
5:00	6.79	276.59	632.17	72.77	39.18	1.38	2.67	0.79	10.88	14.71	21.21	13.42	10.41	24.21	1.97					
6:00	7.97	276.93	633.34	74.27	39.60	1.40	2.67	0.79	11.07	14.69	19.94	12.77	10.53	24.22	1.65					
7:00	5.42	277.97	631.02	73.35	39.65	1.41	2.71	0.79	10.93	14.74	19.66	12.64	10.46	24.25	1.63					

Comments: Inlet NOx CLD malfunction - data loss from 8/20/12 7:00 AM - 2:30 PM, a total of 7.5 hrs. Passing calibration completed from 2:00 - 2:30 PM.



COGEN 2012-08-21 14:30 **NIOX 36**
R 9311C1153 **450 PSIG STEAM TEMP** **MV < L1** 14:27:19
RSMT_4-20MA ROSEMOUNT CEMS VALUES





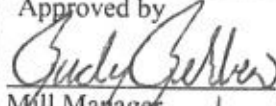
ON/Name	Description	Attribute	Treatment	Ruler Time	Ruler Value	Current Value	Unit	Filter	Time Offset	Form
931AIC1111A.NOX	B&W SCR INLET NOX	MV	Mom	14:32 2012-08-20	68.97	73.94	PPM			
931AIC1111C.CO	B&W BLR STACK RAW CO	MV	Mom	14:32 2012-08-20	27.50	14.06	PPM			
931AIC1111B.O2	B&W BLR RAW O2%	MV	Mean	14:32 2012-08-20	14.77	14.96	%			
931AIC1111D.NOX	B&W BLR STACK NOX	MV	Mean	14:32 2012-08-20	8.44	10.68	PPM			
931-AIC-1111.INCAL	RSMT CEMS IN CAL	MV	Mom	14:32 2012-08-20	0	0				
931-aic-1111.trb	RSMT CEMS TROUBLE	MV	Mom	14:32 2012-08-20	1	1				

D1 30 minutes	D2 1 hour	D3 8 hours	D4 1 day	D5 10 days
D6 Positioning...	D7 Trace Control...	D8 Analyze...	D9 Trace Config...	D10 Extended Config...



Hueneme Mill Environmental Incident Report

Shaded section to be completed by the EMR

Name of Incident CEMS Inlet NOx Analyzer Failure.		Incident Date 8/18/2012	
Exact Location Incident COGEN			
Reported By L. Gustavson	Estimated Start and Stop Times of Incident: 12:00 PM 8/18/12 - 2:30 PM 8/20/12		Possible Cause: CLD analyzer failed.
Incident Type: <input type="checkbox"/> Spill Internal <input type="checkbox"/> Improper Waste Disposal <input type="checkbox"/> Spill External <input type="checkbox"/> Near miss or below spill release guidelines <input checked="" type="checkbox"/> Air Emission <input type="checkbox"/> Other _____		Released To <input type="checkbox"/> Storm Water System <input type="checkbox"/> Secondary Containment <input type="checkbox"/> Process Sewer <input checked="" type="checkbox"/> Air <input type="checkbox"/> Ground (External) <input type="checkbox"/> Ground (Inside Mill Property) <input type="checkbox"/> Near Miss <input type="checkbox"/> Other _____	
Detailed Description of Event On 8/18/2012 at approx. 3 pm the CLD Inlet NOx analyzer was found not working. Investigation showed that CLD inlet NOx analyzer had lost communication with the MLT unit. The analyzer was rebuilt using parts from spares and replaced. Inlet NOx Analyzer was back on line at approx. 2:30 pm 8/20/12. (if required use additional paper and attach)			
Estimated Amount Released <input type="checkbox"/> _____ Gallons <input type="checkbox"/> _____ Pounds <input checked="" type="checkbox"/> Other N/A		pH	CONSISTENCY (%)
List Any External Emergency Clean Up Personnel Contacted N/A		List Any External Agencies Contacted (Agency, person and time of call.) APCD was notified by L. Gustavson at approx. 5 pm 8/18/12.	
List Hueneme Personnel Contacted (Foreman, Mill Manager, etc.) R Lebrilla, V Kumpera, Foreman Chuck Richards		Any Acute or Chronic Health Risks (refer to MSDS) N/A	
Describe Any Emergency Response Actions			
Suggestions to Prevent Reoccurrence 1. Work with Rosemount to address the CLD failure issue. Rebuild (service & check) the failed CLD analyzer for spare. 2. Focus on putting into service the back-up analyzer for APCD certification. 3.			Estimated Completion Date 1. 9/30/2012 2. 12/30/2012 4.
Root Cause after investigation Inlet NOx analyzer stopped working - rebuilt & reprogrammed.		Severity Level (level 1 and 2 must be tracked through SHIMS) <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	
Investigated By Lars Gustavson		Investigated Date 8/18/12 & 8/20/12	
Follow Up		By When	Completion Date
Issued by  Department Manager 8/23/12		Reviewed by  Technical Superintendent 8/23/12	
		Approved by  Mill Manager 8/23/2012	

Print Time: 8/22/2012 4:33:49 PM

Note: This document is valid for only ONE week after print time!

NEW INDY

CONTAINERBOARD

November 20, 2012

Lyle Olson
Ventura County Air Pollution Control District
669 County Square Drive, Second Floor
Ventura, CA 93003

Subject: CEMS breakdown – plugged NOx exhaust line

Dear Mr. Olson:

This letter is a follow up on the call made to the VCAPCD Breakdown Center Hotline on November 19, 2012 at about 9:37 AM.

On November 19, 2012 at 7:00 AM, the cogen operator notified the E&I supervisor that the ammonia usage was less than expected. All other emission parameters were normal. Technicians were then assigned to troubleshoot. They discovered that the exhaust line for the NOx analyzer was plugged. The plugged line was replaced immediately. The analyzer was calibrated and back in service by about 8:30 AM. Aside from inspecting the other sample lines, the mill will review the existing preventive maintenance on sample handling lines with the manufacturer to prevent this incident from reoccurring.

The Daily Emission Sheet, PI trends, DCS trends, Cogen Report and Environmental Incident Report have been provided for your review. If you have any questions or require any additional information, please call me at (805) 271-7284.

Sincerely,



Victor Kumpere
Technical Manager

NEW INDY OXNARD, LLC

5936 PERKINS ROAD • OXNARD, CALIFORNIA 93033 • WWW.NEWINDYCONTAINERBOARD.COM
PHONE (805) 986-3881 • FAX (805) 488-5186



Ventura County
Air Pollution
Control District

RESPONSIBLE OFFICIAL'S CERTIFICATION FORM

Ventura County APCD Rule 33.9 requires that "any document, including reports, schedule of compliance progress reports and compliance certifications, required by a Part 70 permit shall be certified by a responsible official." Therefore, this form shall be signed by the company's Responsible Official and submitted with all such reports, including, but not limited to semi-annual reports, deviation and emergency reports and any periodic reports required by a Part 70 permit. However, when submitting your Annual Compliance Certifications, please use the form titled Annual Compliance Certification Signature Cover Form.

Semi-annual reports, deviations and emergency reports and any periodic reports required by your Part 70 permit should be submitted to:

Lyle Olson
Air Quality Engineer
Ventura County Air Pollution Control District
669 County Square Drive
Ventura, CA 93003

Certification by Responsible Official

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this document is true, accurate, and complete.

Signature and Title of Responsible Official: Signature: <u><i>Gudy Gerben</i></u> Title: <u>Mill Manager</u>	Date: <u>11/20/12</u>
--	-----------------------

DAILY ENVIRONMENTAL REPORT

11/18/2012 7:00

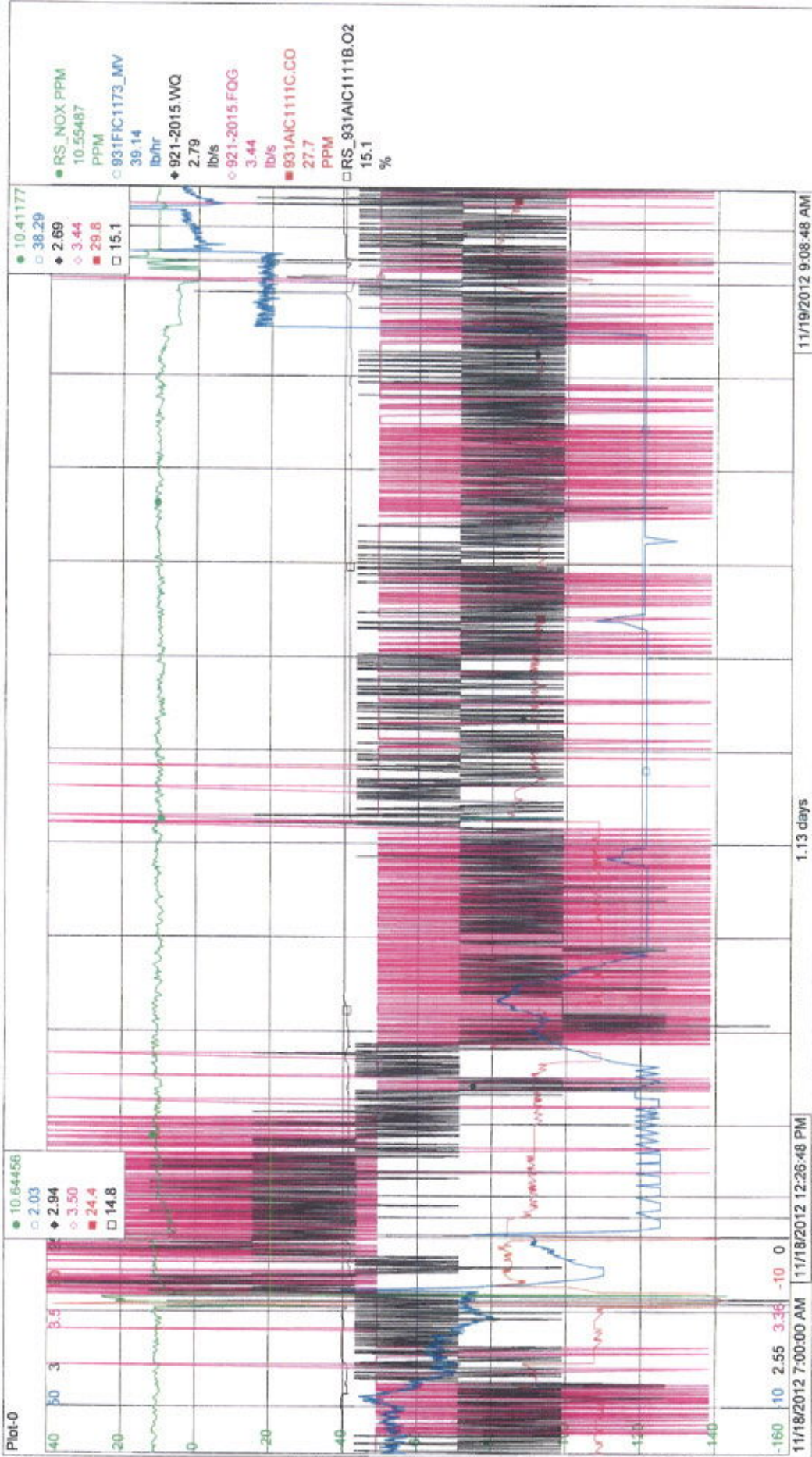
start time

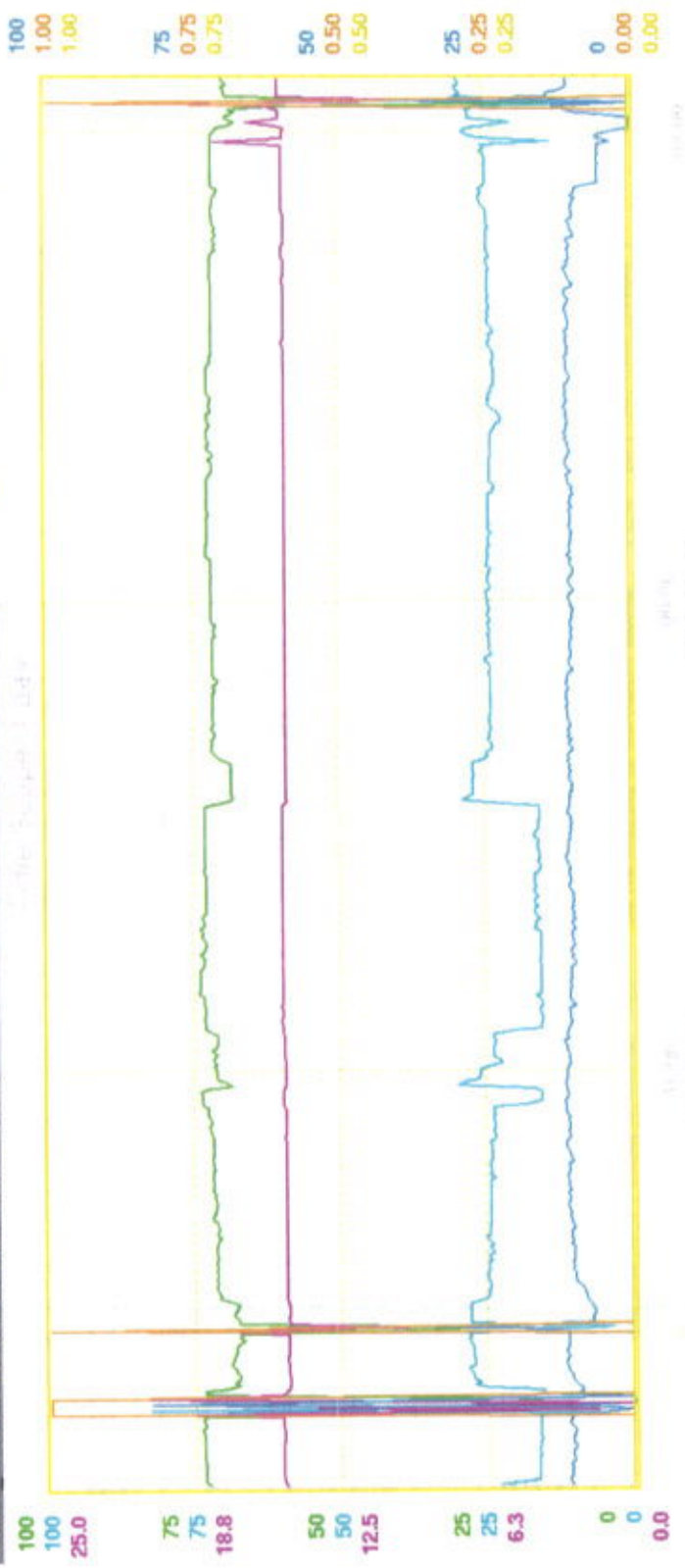
11/18/2012 7:00

end time

Time	Duct burner		Turbine		SCR Temperature °F	SCR inlet NOx PPM	Ammonia Usage lb/hr	NH3 NOx mole ratio	Injection steam rate lb/hr	Steam to fuel ratio	NOx lb/hr	Stack CO ppm	Stack CO2 %	Stack 15% O2 ppm	Stack NOx ppm	3h Running Average NOx	Nebraska CO2 %	Nebraska NOx %	Nebraska Conceded NOx (w/ 3% O2)	Daily Av Coopen		Daily Av Cogn/No	
	gas flow MSCFH	gas flow MSCFH	gas flow MSCFH	gas flow MSCFH																NOx lb/hr	CO lb/hr	NOx lb/hr	CO lb/hr
8:00	0.01	281.51	627.53	74.78	21.81	0.75	0.79	11.14	15.00	15.61	9.99	10.68	23.95	23.95	-0.41					10.79	10.79	10.79	
9:00	5.15	280.72	631.14	73.09	20.13	0.70	0.80	10.73	14.92	15.96	10.21	10.37	23.95	23.95	-0.31								
10:00	0.06	281.68	628.18	73.84	17.03	0.60	0.80	10.71	15.02	16.00	10.27	10.28	23.95	23.95	-0.32								
11:00	4.34	283.42	632.13	68.19	6.25	1.67	0.81	11.04	14.76	26.25	17.26	10.28	23.95	23.95	-0.32								
12:00	8.04	283.44	637.20	63.38	7.02	0.41	0.82	12.15	14.60	26.23	17.81	11.11	10.63	23.99	23.99	0.10							
13:00	8.02	283.75	636.99	71.02	9.92	0.03	0.82	9.72	14.82	23.84	15.84	9.11	10.24	24.05	24.05	-0.34							
14:00	7.98	282.91	635.76	71.46	1.11	0.04	0.82	10.95	14.82	23.70	15.62	10.16	10.13	24.02	24.02	-0.84							
15:00	8.07	281.20	636.56	71.85	1.54	0.06	0.80	10.84	14.83	23.14	15.13	10.12	9.89	23.96	23.96	-1.33							
16:00	5.67	281.20	633.63	72.21	5.72	0.19	0.80	11.54	14.96	22.07	14.19	10.84	10.37	24.00	24.00	-1.50							
17:00	5.39	278.78	632.05	71.69	11.51	0.41	0.79	11.21	14.92	20.14	12.99	10.61	10.62	23.94	23.94	-1.06							
18:00	0.06	280.04	627.54	73.64	4.88	0.18	0.79	10.31	14.96	15.41	9.72	9.94	10.46	23.97	23.97	-0.96							
19:00	0.05	280.32	627.82	73.18	1.55	0.06	0.79	10.27	14.96	15.67	10.07	9.90	10.15	23.93	23.93	-0.56							
20:00	0.14	281.40	628.09	73.09	2.25	0.07	0.79	11.05	14.95	15.96	10.21	10.37	10.14	23.90	23.90	-0.38							
21:00	4.89	281.37	630.92	70.68	1.61	0.06	0.80	10.78	14.88	21.30	13.74	10.15	10.21	23.93	23.93	0.32							
22:00	8.36	281.71	634.44	70.72	1.61	0.06	0.80	10.71	14.81	24.13	15.59	9.98	10.23	23.96	23.96	0.81							
23:00	8.26	281.37	634.51	71.47	1.61	0.06	0.80	10.73	14.81	23.32	15.25	9.96	10.03	24.00	24.00	0.33							
0:00	8.21	281.54	634.59	71.56	1.61	0.06	0.80	10.23	14.81	23.63	15.31	9.96	9.83	24.02	24.02	0.22							
1:00	8.12	281.54	634.67	71.84	2.24	0.08	0.80	10.32	14.81	23.26	15.38	9.59	9.71	24.04	24.04	-0.20							
2:00	8.04	281.71	634.74	72.30	1.82	0.06	0.80	10.70	14.81	23.04	15.17	9.98	9.71	24.04	24.04	-0.06							
3:00	8.16	281.71	634.82	71.97	1.62	0.06	0.80	11.02	14.81	22.80	15.02	10.27	9.93	24.05	24.05	-0.33							
4:00	7.92	280.01	634.90	72.35	1.82	0.06	0.79	11.03	14.81	22.56	14.65	10.32	10.19	24.07	24.07	-0.39							
5:00	8.30	281.03	634.98	71.64	1.82	0.06	0.79	10.94	14.82	22.84	15.00	10.22	10.27	24.02	24.02	-0.04							
6:00	8.41	281.20	635.05	71.51	1.82	0.06	0.80	10.79	14.83	23.26	15.32	10.03	10.19	24.02	24.02	-0.83							
7:00	8.14	281.54	635.13	71.28	2.31	0.07	0.80	10.05	14.84	23.89	15.68	9.79	9.84	24.05	24.05	-0.53							

Comments : On 11/19/12 @ 8:37 AM R. Loblitz notified APCD Breakdown incline on extremely low ammonia usage. The exhaust stack NOx analyzer line was found plugged.





ON/Name	Description	Attribute	Treatment	Ruler Time	Ruler Value	Current Value	Unit	Filter	Time Offset	Form
931AIC1111A.NOX	B&W SCR INLET NOX	MV	Mom	08-54 2012-11-18	72.59	70.50	PPM			
931AIC1111C.CO	B&W BLR STACK RAW CO	MV	Mom	08-54 2012-11-18	24.72	24.44	PPM			
931AIC1111B.O2	B&W BLR RAW O2%	MV	Mean	08-54 2012-11-18	14.85	14.84	%			
931AIC1111D.NOX	B&W BLR STACK NOX	MV	Mean	08-54 2012-11-18	10.75	10.79	PPM			
931-AIC-1111.INCAL	RSMT CEMS IN CAL	MV	Mom	08-54 2012-11-18	0	0				
931-aic-1111.trb	RSMT CEMS TROUBLE	MV	Mom	08-54 2012-11-18	0	0				

D1 30 minutes	D2 1 hour	D3 8 hours	D4 1 day	D5 10 days
D6 Positioning...	D7 Trace Control...	D8 Analyze...	D9 Trace Config...	D10 Extended Config...



OFFICIAL DAILY COGENERATOR TION LOG

DATE: 11-18-13

NO. 1

MEGAWATTS
87.858
87.216

CHEMICAL PUMPS		NEBRASKA DELIVERY		NEBRASKA WATER READINGS		NEBRASKA WARM STORAGE CHECK		GAS & ELECTRIC READING		BOILER TEST RESULTS	
Level	Flow Rate ml/min	PERMITS	CONCENTRATE #/OZ	PERMITS	CONCENTRATE #/OZ	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA	NEBRASKA
Steamer 3.9 ml/min		8843	5769	3367	2070	5409	4647	20189	2056	20389	20389
Comp 5.3 ml/min		PREVIOUS	7836	0005	3353	7088	5406	1343	20204	1785	1785
Polymer 8.8 ml/min		NEW DEBRIN TRAILER		YES	NO	TIME	NEBRASKA ONLINE TIME	FROM	TO	SCG LP	SCG LP
Causalic (as needed)		AMMONIA DELIVERY	YES	NO	% FULL	74-68				0400540	03990
TURBINE											
FSR	%	58.1	60.5	24.3	15.3	15.3	17.00	19.00	23.00	3.00	5.00
Inlet Temp	°F	56	56	57	58	57	57	57	57	57	57
Humidity	%	56	56	57	58	57	57	57	57	57	57
Vibration (Max)	MILS	17	17	17	17	17	17	17	17	17	17
Steam Injection	#/SEC	2.36	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80
Turbine L.O. Level	%	100	100	100	100	100	100	100	100	100	100
14B	%	1578	1521	1528	1528	1528	1528	1528	1528	1528	1528
GENERATOR											
Gen. Bearing Drain	°F	161	162	162	163	163	163	163	163	163	163
L.O. Supply	°F	138	140	140	141	141	141	141	141	141	141
Gen. Vibration (Max)	IPS	3.8	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Tie Line	MW	13.78	13.68	13.33	13.51	13.48	13.57	13.6	13.4	13.3	13.4
COGEN BOILER											
450 Header Temp	°F	710	708	707	710	709	710	710	710	710	710
HP Drum Level	IN	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
LP Drum Level	IN	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
HP Drum Pressure	PSI	485	485	488	488	488	488	488	488	488	488
LP Drum Pressure	PSI	146	149	149	151	148	148	148	148	148	148
CO	PPM	15.9	16.1	16.1	16.2	16.2	16.2	16.2	16.2	16.2	16.2
NOX	PPM	10.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
O2	%	14.99	14.78	14.77	14.83	14.83	14.96	14.9	14.8	14.8	14.8
Hot Wet Level	%	138	136	138	137	137	138	138	138	138	138
COMPRESSORS											
Filter Separator	PSI	235	235	235	235	235	235	235	235	235	235
Gas Receiver	PSI	425	425	425	425	425	425	425	425	425	425
NEBRASKA BOILER											
Drum Level	IN	7.00	9.00	11.00	13.00	15.00	17.00	19.00	21.00	23.00	25.00
Drum Pressure	PSI	235	235	235	235	235	235	235	235	235	235
Steam Flow	#/HR	425	425	425	425	425	425	425	425	425	425
Steam Temp	°F										
NOX	PPM										
Blow Down Conductivity	MHO										
ON LINE TURBINE WATER WASH											
ON LINE TURBINE WATER WASH	YES	NO	COODUCTIVITY MHOS	YES	NO	BOILER FEED WATER PUMP OPERATION	NO. 1	YES	NO	NO. 2	YES

MEGAWATTS
87.858
87.216

DATE: 11-18-13

NO. 1

MEGAWATTS
87.858
87.216

SAFETY IS ALWAYS NO. 1

Huememe Paper Mill

DRY SHIFT OPERATOR

NIGHT SHIFT OPERATOR

NAME: ROIS

NAME: M/A

Hueneme Mill Environmental Incident Report

Shaded section to be completed by the EMR

Name of Incident Low ammonia usage		Incident Date 11/19/12	
Exact Location Incident Cogen			
Reported By Cogen operator/R Lebrilla		Estimated Start and Stop Times of Incident:	Possible Cause: plugged line
Incident Type: <input type="checkbox"/> Spill Internal <input type="checkbox"/> Improper Waste Disposal <input type="checkbox"/> Spill External <input type="checkbox"/> Near miss or below spill release guidelines <input checked="" type="checkbox"/> Air Emission <input type="checkbox"/> Other _____		Released To <input type="checkbox"/> Storm Water System <input type="checkbox"/> Secondary Containment <input type="checkbox"/> Process Sewer <input checked="" type="checkbox"/> Air <input type="checkbox"/> Ground (External) <input type="checkbox"/> Ground (Inside Mill Property) <input type="checkbox"/> Near Miss <input type="checkbox"/> Other _____	
Detailed Description of Event: The E&I supervisor was notified at 7am 11/19/12 by the Cogeneration Operator that the ammonia usage was less than expected. All other emission parameters were normal. Technicians were assigned to troubleshoot. They discovered the exhaust line for the NOx analyzer was plugged. Line was replaced, analyzer calibrated and back in service by 8:30 am 11/19/12. Robyn Lebrilla contacted APCD at 9:36 am.			
<i>(if required use additional paper and attach)</i>			
Estimated Amount Released		pH	CONSISTENCY (%)
<input type="checkbox"/> _____ Gallons <input type="checkbox"/> _____ Pounds <input type="checkbox"/> Other N/A _____		N/A	N/A
List Any External Emergency Clean Up Personnel Contacted N/A		List Any External Agencies Contacted (Agency, person and time of call.) VC APCD at about 9:36 AM	
List Hueneme Personnel Contacted (Foreman, Mill Manager, etc.) Charlie Wilson, Lars Gustavson, Victor Kumpera, Rudy Rehbein		Any Acute or Chronic Health Risks (refer to MSDS)	
Describe Any Emergency Response Actions: Technical Manager and Mill Manager were notified of condition. The ammonia was increased in manual to normal flow during the investigation.			
Suggestions to Prevent Reoccurrence			Estimated Completion Date
1. Contact Rosemount and prioritize return of our spare NOx analyzer.			1. 11/19/12
2. Check other sample handling lines for contamination.			2. 12/5/12
3. Contact manufacturer on recommended preventive maintenance (PM) for sample handling lines, review recommendation against our existing PM, and adjust PM accordingly.			3. 11/30/12
4.			4.
Root Cause after investigation		Severity Level (level 1 and 2 must be tracked through SHIMS)	
Exhaust line for stack NOx analyzer was found plugged.		<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	
Investigated By Lars Gustavson		Investigated Date 11/19/12	
<u>Follow Up</u>		<u>By When</u>	<u>Completion Date</u>

Print Time: 11/19/2012 5:35:24 PM

Note: This document is valid for only ONE week after print time!

Hueneme Mill Environmental Incident Report

Shaded section to be completed by the EMR

<p>Issued by <i>[Signature]</i> 11/19/2012 Department Manager</p>	<p>Reviewed by <i>[Signature]</i> Technical Superintendent 11/20/2012</p>	<p>Approved by <i>[Signature]</i> 11/19/2012 Mill Manager</p>
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Print Time: 11/19/2012 5:35:24 PM

Note: This document is valid for only ONE week after print time!

NEW INDY

CONTAINERBOARD

December 4, 2012

Lyle Olson
Ventura County Air Pollution Control District
669 County Square Drive, Second Floor
Ventura, CA 93003

Subject: Nebraska Operation

Dear Mr. Olson:

This letter is a follow up on the call made to the VCAPCD Breakdown Center Hotline on November 28, 2012 at about 6:00 AM.

Nebraska boiler was fired due to repair work needed on the turbine. The turbine had to be pulled out due to the HPC (high pressure compressor) spline damage. The standby boiler operated without excess emissions from November 28, 2012 6:00 AM to December 1, 2012 9:00 PM for a total of 87 hours. The mill is currently operating on a lease turbine, and GE is investigating on the cause of HPC spline damage.

The Daily Emission Sheets, PI trends, DCS trends and Cogen reports have been provided for your review. The Environmental Incident Report was incomplete since GE is still investigating this incident. If you have any questions or require any additional information, please call me at (805) 271-7284.

Sincerely,



Robyn Lebrilla
Environmental Engineer

NEW INDY OXNARD, LLC

5936 PERKINS ROAD • OXNARD, CALIFORNIA 93033 • WWW.NEWINDYCONTAINERBOARD.COM
PHONE (805) 986-3881 • FAX (805) 488-5186



Ventura County
Air Pollution
Control District

RESPONSIBLE OFFICIAL'S CERTIFICATION FORM

Ventura County APCD Rule 33.9 requires that "any document, including reports, schedule of compliance progress reports and compliance certifications, required by a Part 70 permit shall be certified by a responsible official." Therefore, this form shall be signed by the company's Responsible Official and submitted with all such reports, including, but not limited to semi-annual reports, deviation and emergency reports and any periodic reports required by a Part 70 permit. However, when submitting your Annual Compliance Certifications, please use the form titled Annual Compliance Certification Signature Cover Form.

Semi-annual reports, deviations and emergency reports and any periodic reports required by your Part 70 permit should be submitted to:

Lyle Olson
Air Quality Engineer
Ventura County Air Pollution Control District
669 County Square Drive
Ventura, CA 93003

Certification by Responsible Official

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this document is true, accurate, and complete.

<p>Signature and Title of Responsible Official:</p> <p>Signature: <u>Gudy Gerber</u></p> <p>Title: <u>Mill Manager</u></p>	<p>Date:</p> <p>12/3/2012</p>
--	-------------------------------

DAILY ENVIRONMENTAL REPORT

11/27/2012 7:00

11/28/2012 7:00

End time

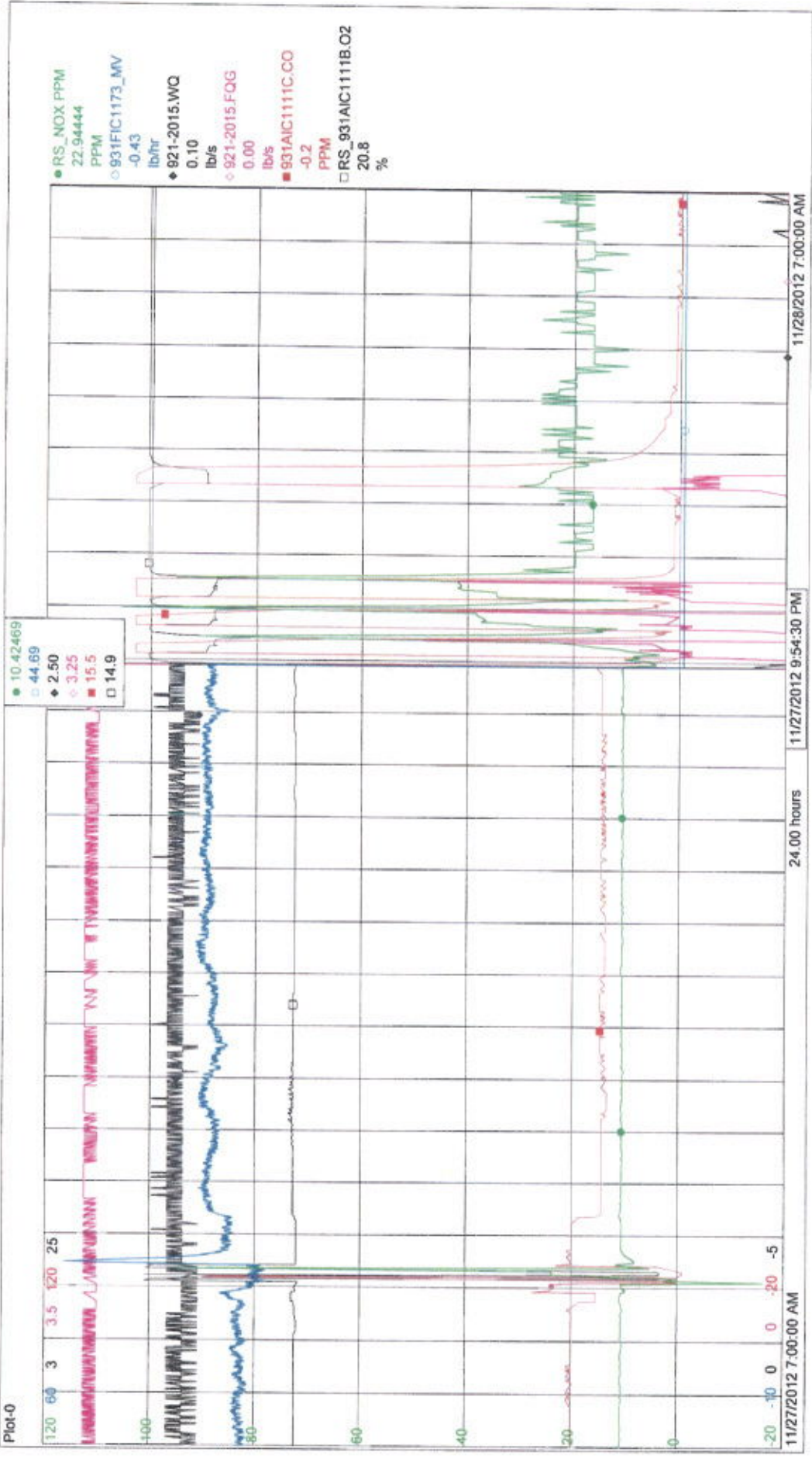
End time

Time	Dust burner		Turbine		SCR Temperature °F	SCR inlet NOx ppm	Ammonia Usage lb/h	NH3 NOx mole ratio	Injection rate lb/h	Steam to fuel ratio	NOx lb/h	Stack CO ppm	Stack CO2 %	Stack CO lb/h	15% O2 NOx ppm	3h Running Average NOx	Nebraska O2 %	Nebraska NOx %	Nebraska Committed NOx (to 3% O2)	Daily Av Copystack		Daily Av Copystack	
	gas flow BSCFH	gas flow BSCFH	gas flow BSCFH	gas flow BSCFH																NOx lb/h	CO lb/h	NOx lb/h	CO lb/h
8:00	8.44	268.05	637.86	77.49	41.47	1.43	2.44	0.74	10.69	14.80	19.27	11.84	10.62	10.80	10.80	24.46	-0.19			NOx	6.88	NOx	7.28
9:00	8.17	268.60	637.64	77.06	41.40	1.42	2.44	0.75	10.68	14.80	19.38	11.84	10.52	10.80	10.80	24.42	-0.13			NOx		NOx	
10:00	7.45	267.85	636.31	77.95	41.66	1.43	2.43	0.74	10.64	14.81	19.80	11.80	10.50	10.80	10.80	24.41	-0.38			CO		CO	
11:00	8.15	269.24	638.73	78.74	43.01	1.46	2.45	0.75	10.62	14.75	19.18	11.84	10.31	10.43	10.43	24.38	-0.60			NOx		NOx	
12:00	2.88	270.99	633.16	80.13	43.76	1.47	2.47	0.75	10.64	14.84	15.77	9.79	10.56	10.48	10.48	24.36	-0.62			NOx	7.01	NOx	7.08
13:00	0.08	270.79	631.28	80.78	44.14	1.49	2.47	0.75	10.44	14.90	14.05	8.51	10.48	10.45	10.45	24.38	-0.74			Stack NOx analyzer		Stack NOx analyzer	
14:00	0.07	271.27	631.17	81.49	44.48	1.49	2.47	0.75	10.41	14.91	13.72	8.32	10.52	10.52	10.52	24.33	-0.89			zero value		zero value	0.00
15:00	0.25	269.96	631.06	80.85	43.68	1.47	2.46	0.75	10.41	14.91	14.08	8.46	10.49	10.50	10.50	24.37	-0.54			zero drift %		zero drift %	0.06
16:00	0.01	271.47	630.95	80.98	43.69	1.48	2.47	0.75	10.48	14.87	14.02	8.42	10.48	10.49	10.49	24.23	-0.83			span value		span value	84.31
17:00	0.08	270.96	630.85	81.81	44.66	1.49	2.47	0.75	10.48	14.84	13.39	8.07	10.52	10.50	10.50	24.31	-0.70			span drift %		span drift %	0.56
18:00	0.05	269.22	630.74	81.81	44.47	1.49	2.46	0.75	10.29	14.84	13.71	8.31	10.50	10.50	10.50	24.24	-0.38			Stack CO Analyzer		Stack CO Analyzer	
19:00	0.12	270.96	630.63	81.81	44.76	1.49	2.47	0.75	10.47	14.84	13.78	8.43	10.50	10.51	10.51	24.27	-0.38			zero value		zero value	-1.09
20:00	0.09	269.62	630.52	81.81	44.55	1.49	2.46	0.75	10.43	14.85	13.80	8.19	10.51	10.50	10.50	24.25	-0.38			zero drift %		zero drift %	-1.09
21:00	0.13	266.89	630.31	81.40	44.54	1.49	2.45	0.74	10.38	14.86	13.88	8.48	10.45	10.49	10.49	24.27	0.01			span value		span value	86.81
22:00	0.12	242.76	625.17	73.94	39.90	1.33	2.23	0.68	9.73	15.33	34.60	8.00	10.12	10.36	10.36	24.25	0.19			span drift %		span drift %	0.17
23:00	0.12	36.20	501.43	10.75	-0.43	-1940.24	0.00	0.02	4.88	19.57	195.47	13.79	10.54	17.64	17.64	24.28	0.19			Nebraska Gas	43.87	Nebraska Gas	21.31
0:00	0.12	19.46	498.72	4.84	-0.43	-1856.42	0.00	0.00	2.81	19.12	170.23	8.85	10.54	36.60	36.60	24.49	0.19			Total Overtime was 8.57 hrs.		Total Overtime was 8.57 hrs.	
1:00	0.12	0.00	498.72	0.53	-0.43	-5111.96	0.00	0.01	0.91	17.64	92.64	0.03	17.64	20.28	20.28	24.53	0.19						
2:00	0.12	9.22	498.72	1.17	-0.43	-2853.38	0.00	0.02	0.88	17.64	424.93	5.34	21.30	25.19	25.19	24.48	0.19						
3:00	0.12	0.00	498.72	0.53	-0.43	-5111.96	0.00	0.02	0.91	17.64	377.78	0.11	20.88	19.95	19.95	24.45	0.19						
4:00	0.12	0.00	498.72	0.53	-0.43	-5111.96	0.00	0.00	0.91	17.64	88.18	0.03	18.78	20.31	20.31	24.50	0.19						
5:00	0.07	0.00	498.72	0.53	-0.43	10373.87	0.00	0.00	0.91	17.64	60.02	0.01	17.73	19.12	19.12	24.62	0.19						
6:00	-0.01	0.00	498.72	0.53	-0.43	60321.10	0.00	0.00	0.90	17.64	-6.95	0.00	17.93	17.84	17.84	22.08	0.19						
7:00	-0.01	0.00	498.72	0.53	-0.43	60321.10	0.02	0.51	0.69	17.64	6.29	0.00	19.31	18.22	18.22	21.31	0.19						

Comments: On 11/27/12 turbine tripped offline due to generator differential relay from 31:53:22:07, then tripped again from 22:26:22:44. Discovered failed gear box - down from 22:27:7:50 11/28/12. Total Overtime was 8.57 hrs. Started Nebraska on 11/28/12 at about 6:00 AM. APCD notified on Nebraska operations.

PRINT TIME: 11/28/2012 3:09 PM
NOTE: This document is valid for only ONE week after print time

Plot-0



10.42469
44.69
2.50
3.25
15.5
14.9

RS_NOX PPM
22.94444
931FIC1173_MV
-0.43
921-2015.WQ
0.10
921-2015.FQG
0.00
931AIC1111C.CO
-0.2
RS_931AIC1111B.O2
20.8
%

11/27/2012 7:00:00 AM
24.00 hours
11/27/2012 9:54:30 PM
11/28/2012 7:00:00 AM

DAILY ENVIRONMENTAL REPORT

11/28/2012 7:00

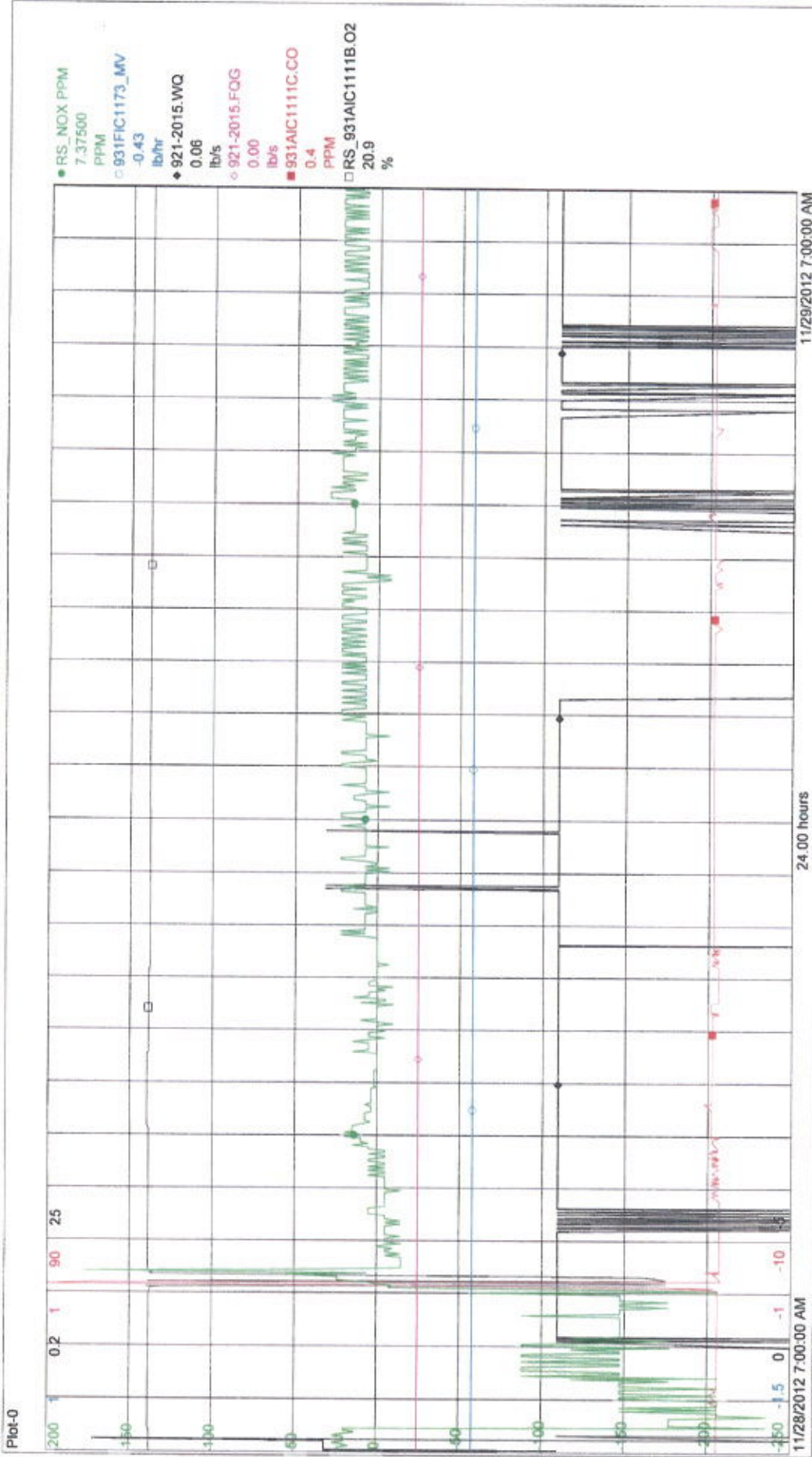
11/29/2012 7:00

11/28/2012 7:00

11/29/2012 7:00

Time	Duct burner gas flow MSCFH	Turbine gas flow MSCFH	SCR inlet Temperature °F	SCR inlet NOx ppm	Ammonia Usage lb/hr	NH3 NOx mole ratio	Injection steam rate lb/hr	Steam to fuel ratio	NOx lb/hr	Stack CO %	Stack CO ppm	Stack CO 15% O2 ppm	Stack NOx ppm	Stack NOx 15% O2 ppm	3h Running Average NOx	Nebraska O2 %	Nebraska NOx %	Nebraska Completed NOx (60-3% O2)	Daily Av Cogen		Daily Av Cogen/Hub	
																			NOx lb/hr	0.00	NOx lb/hr	9.61
8:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.03	1.22	0.00	-11.61	0.00	-84.65	-19.04	33.57	35.01	33.57	33.54	35.25	0.00	0.00	0.00	9.61
9:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.00	0.84	0.01	73.30	0.00	-139.36	-71.17	31.54	31.54	31.54	31.54	31.54	0.00	0.00	0.00	0.00
10:00	-0.01	0.00	488.72	0.54	-0.43	60321.10	0.06	1.54	0.01	206.49	0.00	-143.47	-135.62	3.13	3.13	3.13	3.12	31.38	0.00	0.00	0.00	0.00
11:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.06	0.56	0.00	78.67	0.00	-9.16	-97.33	3.09	3.09	3.09	3.12	31.38	0.00	0.00	0.00	0.00
12:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.05	0.69	0.00	58.78	0.00	-4.92	-52.52	3.07	3.07	3.07	3.12	31.38	0.00	0.00	0.00	0.00
13:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.06	1.20	0.00	-15.72	0.00	1.01	-4.36	3.07	3.07	3.07	3.12	31.32	0.00	0.00	0.00	0.00
14:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.06	1.69	0.00	-47.18	0.00	6.58	0.69	3.06	3.06	3.06	3.03	30.44	0.00	0.00	0.00	0.00
15:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.06	1.53	0.00	-61.05	0.00	2.57	3.38	3.09	3.09	3.09	3.02	30.07	0.00	0.00	0.00	0.00
16:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.06	1.91	0.00	-17.53	0.00	8.64	3.38	3.13	3.13	3.13	3.05	30.75	0.00	0.00	0.00	0.00
17:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.09	1.76	0.00	66.45	0.00	2.48	1.90	3.13	3.13	3.13	3.05	30.54	0.00	0.00	0.00	0.00
18:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.06	2.30	0.00	103.25	0.00	8.27	3.40	1.27	1.27	1.27	2.72	26.22	0.00	0.00	0.00	0.00
19:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.06	2.26	0.00	103.25	0.00	6.97	5.91	1.97	1.97	1.97	2.72	26.22	0.00	0.00	0.00	0.00
20:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.06	2.35	0.00	103.25	0.00	9.16	8.14	1.23	1.23	1.23	26.83	24.42	0.00	0.00	0.00	0.00
21:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.06	1.80	0.00	103.25	0.00	10.64	8.13	1.35	1.35	1.35	27.07	24.78	0.00	0.00	0.00	0.00
22:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.02	1.25	0.00	103.25	0.00	13.73	10.65	1.45	1.45	1.45	27.60	24.69	0.00	0.00	0.00	0.00
23:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.00	1.09	0.00	81.94	0.00	15.51	12.67	1.44	1.44	1.44	27.31	25.49	0.00	0.00	0.00	0.00
0:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.00	1.08	0.00	45.58	0.00	11.55	13.18	1.42	1.42	1.42	27.55	24.32	0.00	0.00	0.00	0.00
1:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.01	1.10	0.00	120.21	0.00	14.79	13.53	1.43	1.43	1.43	27.51	25.29	0.00	0.00	0.00	0.00
2:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.05	1.75	0.00	103.25	0.00	20.15	15.11	1.66	1.66	1.66	27.54	25.18	0.00	0.00	0.00	0.00
3:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.06	1.69	0.00	84.57	0.00	17.45	17.13	1.50	1.50	1.50	27.21	25.10	0.00	0.00	0.00	0.00
4:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.05	1.54	0.00	103.25	0.00	19.40	18.03	1.52	1.52	1.52	27.32	25.34	0.00	0.00	0.00	0.00
5:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.05	1.60	0.00	102.30	0.00	14.20	16.28	1.53	1.53	1.53	27.53	25.44	0.00	0.00	0.00	0.00
6:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.06	2.15	0.00	104.18	0.00	14.31	14.97	1.47	1.47	1.47	27.65	25.38	0.00	0.00	0.00	0.00
7:00	-0.01	0.00	488.72	0.53	-0.43	60321.10	0.06	2.43	0.00	203.50	-0.01	16.36	15.04	1.37	1.37	1.37	27.63	25.23	0.00	0.00	0.00	0.00

Comments: Turbine down for repair. Nebraska operated 24 hrs.



DAILY ENVIRONMENTAL REPORT

11/29/2012 7:00

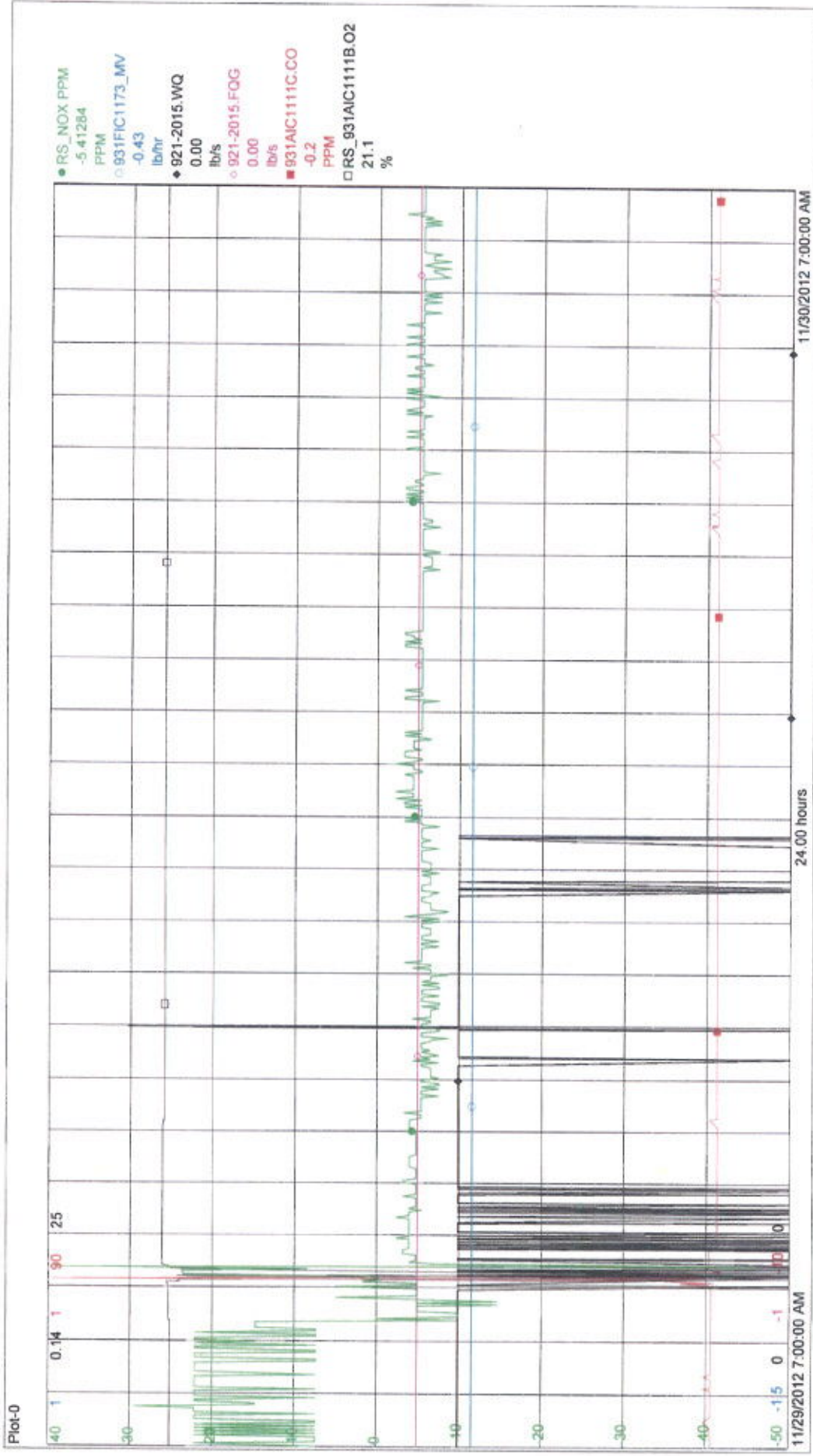
11/30/2012 7:00

Start Time

End Time

Time	Duct burner		Turbine		SCR Temperature %	SCR inlet NOx ppm	SCR inlet NOx ppm	Ammonia Usage lb/h	NH3 NOx amount ppm	Injection stream rate lb/h	Steam to fuel ratio	NOx lb/h	Stack CO2 %	Stack CO ppm	Stack CO 15% O2 ppm	CO lb/h	Stack NOx ppm	15% O2 NOx ppm	3h Running Average NOx	Nebraska O2 %	Nebraska NOx %	Nebraska Connected NOx (to 3% O2)	Daily Av Cogen			Daily Av Cog+Heb				
	gas flow MSCFH	gas flow MSCFH	gas flow MSCFH	gas flow MSCFH																			NOx	lb/h	lb/h	lb/h	lb/h	lb/h	lb/h	lb/h
8:00	-0.01	0.00	0.00	498.72	0.53	0.53	0.43	60321.10	0.06	2.08	0.09	0.09	0.09	132.99	0.00	0.00	16.93	19.84	17.60	1.32	27.20	24.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
9:00	-0.01	0.00	0.00	498.72	0.53	0.53	-0.43	60321.10	0.06	1.95	0.09	0.09	0.09	127.22	0.00	0.00	18.21	11.81	11.81	1.31	27.12	24.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
10:00	-0.01	0.00	0.00	498.72	0.56	0.56	-0.43	60321.10	0.06	1.89	0.09	0.09	0.09	-18.76	0.00	0.00	-3.73	8.22	8.22	1.21	26.80	24.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
11:00	-0.01	0.00	0.00	498.72	0.65	0.65	-0.43	57834.77	0.03	1.08	0.09	0.09	0.09	-2.14	0.00	0.00	-4.27	4.16	4.16	1.21	26.96	25.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
12:00	-0.01	0.00	0.00	498.72	0.65	0.65	-0.43	48831.37	0.04	1.06	0.09	0.09	0.09	9.50	0.00	0.00	-4.47	-4.16	-4.16	1.23	26.07	23.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
13:00	-0.01	0.00	0.00	498.72	0.65	0.65	-0.43	48831.37	0.06	1.13	0.09	0.09	0.09	8.01	0.00	0.00	-5.31	-4.68	-4.68	1.70	27.32	25.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
14:00	-0.01	0.00	0.00	498.72	0.66	0.66	-0.43	48831.37	0.06	1.01	0.09	0.09	0.09	10.83	0.00	0.00	-5.35	-5.15	-5.15	1.32	28.74	24.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
15:00	-0.01	0.00	0.00	498.72	0.66	0.66	-0.43	48831.37	0.06	0.66	0.09	0.09	0.09	10.83	0.00	0.00	-5.35	-5.15	-5.15	1.39	28.90	24.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
16:00	-0.01	0.00	0.00	498.72	0.65	0.65	-0.43	48831.37	0.06	0.80	0.09	0.09	0.09	10.83	0.00	0.00	-5.44	-5.15	-5.15	1.55	27.40	25.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
17:00	-0.01	0.00	0.00	498.72	0.65	0.65	-0.43	48831.37	0.04	0.46	0.09	0.09	0.09	10.83	0.00	0.00	-5.88	-5.15	-5.15	1.91	27.57	25.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
18:00	-0.01	0.00	0.00	498.72	0.65	0.65	-0.43	48831.37	0.01	0.43	0.09	0.09	0.09	10.83	0.00	0.00	-6.22	-5.39	-5.39	2.47	39.04	37.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
19:00	-0.01	0.00	0.00	498.72	0.66	0.66	-0.43	48831.37	0.00	0.51	0.09	0.09	0.09	10.83	0.00	0.00	-4.34	-4.88	-4.88	3.09	47.56	47.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
20:00	-0.01	0.00	0.00	498.72	0.65	0.65	-0.43	48831.37	0.00	0.53	0.09	0.09	0.09	10.83	0.00	0.00	-4.71	-4.77	-4.77	3.10	47.87	48.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
21:00	-0.01	0.00	0.00	498.72	0.65	0.65	-0.43	48831.37	0.00	0.47	0.09	0.09	0.09	10.83	0.00	0.00	-4.98	-4.99	-4.99	3.10	48.00	48.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
22:00	-0.01	0.00	0.00	498.72	0.65	0.65	-0.43	48831.37	0.00	0.52	0.09	0.09	0.09	10.83	0.00	0.00	-5.70	-5.32	-5.32	3.10	48.00	48.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
23:00	-0.01	0.00	0.00	498.72	0.65	0.65	-0.43	48831.37	0.00	0.42	0.09	0.09	0.09	10.83	0.00	0.00	-6.22	-5.43	-5.43	3.11	47.52	47.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
0:00	-0.01	0.00	0.00	498.72	0.66	0.66	-0.43	48831.37	0.00	0.37	0.09	0.09	0.09	5.40	0.00	0.00	-5.62	-5.46	-5.46	3.12	47.60	47.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
1:00	-0.01	0.00	0.00	498.72	0.66	0.66	-0.43	48831.37	0.00	0.00	0.09	0.09	0.09	6.73	0.00	0.00	-5.01	-5.23	-5.23	3.11	47.65	47.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
2:00	-0.01	0.00	0.00	498.72	0.66	0.66	-0.43	48831.37	0.00	0.09	0.09	0.09	0.09	3.28	0.00	0.00	-5.13	-5.05	-5.05	3.14	47.66	48.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
3:00	-0.01	0.00	0.00	498.72	0.66	0.66	-0.43	48831.37	0.00	0.00	0.09	0.09	0.09	5.41	0.00	0.00	-4.48	-4.81	-4.81	3.11	47.77	48.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
4:00	-0.01	0.00	0.00	498.72	0.67	0.67	-0.43	49816.13	0.00	0.00	0.00	0.00	0.00	2.42	0.00	0.00	-4.21	-5.81	-5.81	3.10	47.49	47.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
5:00	-0.01	0.00	0.00	498.72	0.63	0.63	-0.43	51272.93	0.00	0.00	0.00	0.00	0.00	3.36	0.00	0.00	-4.21	-5.74	-5.74	3.05	48.80	48.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
6:00	-0.01	0.00	0.00	498.72	0.63	0.63	-0.43	51272.93	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	-5.52	-5.74	-5.74	3.05	48.80	48.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
7:00	-0.01	0.00	0.00	498.72	0.63	0.63	-0.43	51272.93	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	-5.52	-5.74	-5.74	3.05	48.80	48.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61

Comments: Turbine down for repair. Nebraska operated 24 hrs.



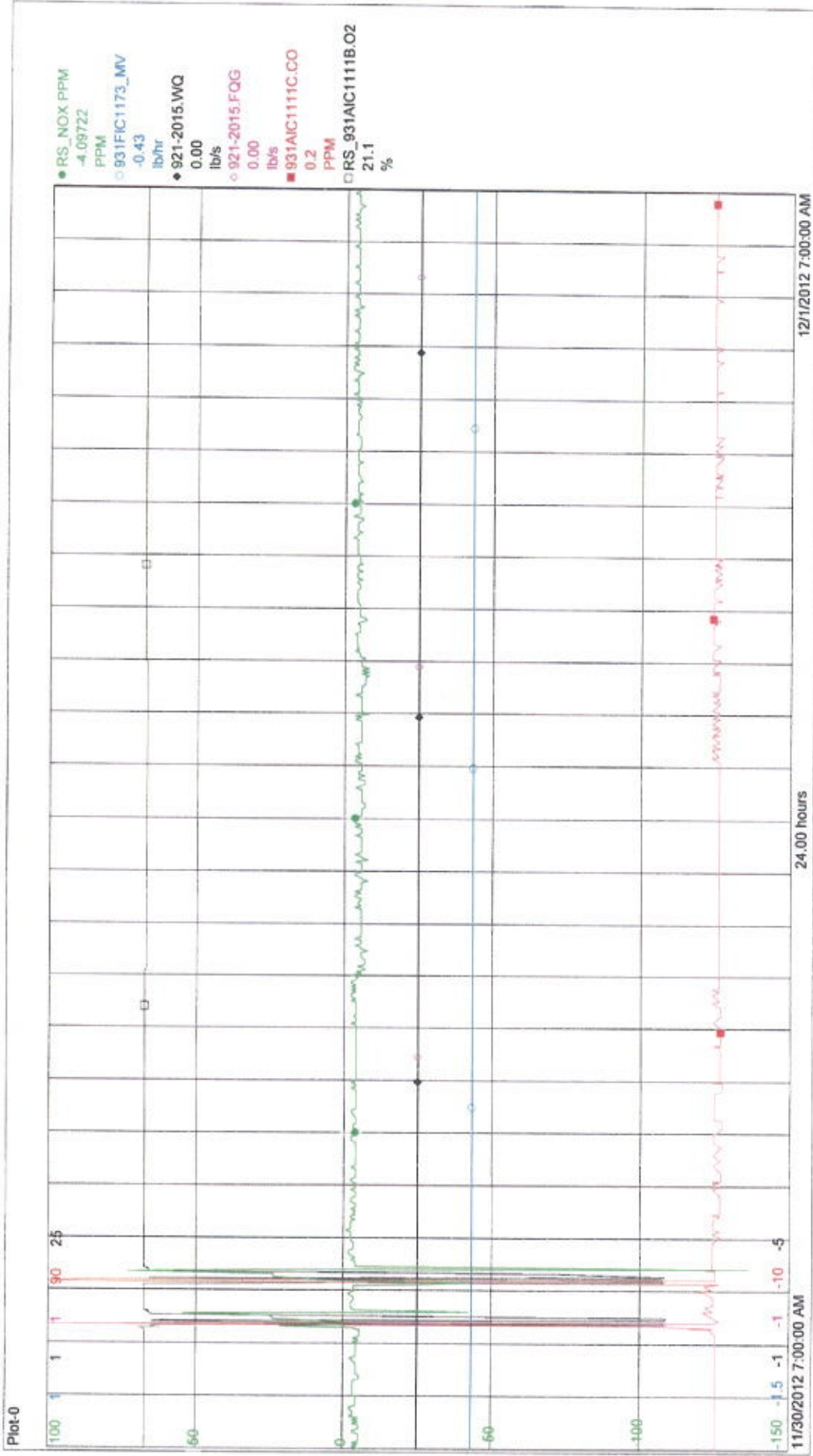
DAILY ENVIRONMENTAL REPORT

Run Time: 11/30/2012 7:00

Start Time: 12/1/2012 7:00

Time	Duct burner gas flow MFCFH	Turbine gas flow MFCFH	SCR Temperature °F	SCR inlet NOx ppm	Ammonia Usage lbs/h	NHG NOx mole ratio	Injection stream rate lbs/h	Steam to fuel ratio	NOx lbs/h	Stack O2 %	Stack CO ppm	Stack CO2 lbs/h	CO lbs/h	15% O2 ppm	15% O2 lbs/h	Stack NOx ppm	3h Running Average NOx	Nebraska O2 %	Nebraska NOx %	Nebraska Connected NOx (pp3% O2)	Daily Av Cogen		Daily Av Cog-Hab	
																					lbs/h	0.00	lbs/h	0.00
8:00	-0.01	0.00	498.72	0.63	-0.43	51272.93	0.00	0.00	0.00	21.07	6.50	0.00	0.00	-4.21	0.00	-4.21	-5.32	3.04	47.12	47.54	0.00	0.00	0.00	0.00
9:00	-0.01	0.00	498.72	0.63	-0.43	51272.93	0.00	0.00	0.00	21.07	6.50	0.00	0.00	-4.21	0.00	-4.21	-4.57	3.05	46.64	46.77	0.00	0.00	0.00	0.00
10:00	-0.01	0.00	498.72	3.06	-0.43	40773.34	0.00	0.00	0.00	18.47	-3.32	0.00	0.00	1.33	0.00	1.33	-2.28	3.07	46.78	46.94	0.00	0.00	0.00	0.00
11:00	-0.01	0.00	498.72	0.47	-0.43	53727.03	0.00	0.00	0.00	21.13	-5.71	0.00	0.00	-2.78	0.00	-2.78	-1.81	3.51	45.83	47.17	0.00	0.00	0.00	0.00
12:00	-0.01	0.00	498.72	0.47	-0.43	68363.91	0.00	0.00	0.00	21.13	7.88	0.00	0.00	-3.10	0.00	-3.10	-1.52	3.28	45.75	46.43	0.00	0.00	0.00	0.00
13:00	-0.01	0.00	498.72	0.47	-0.43	68363.91	0.00	0.00	0.00	21.13	7.88	0.00	0.00	-3.72	0.00	-3.72	-3.20	3.26	45.75	46.43	0.00	0.00	0.00	0.00
14:00	-0.01	0.00	498.72	0.47	-0.43	68363.91	0.00	0.00	0.00	21.13	8.88	0.00	0.00	-3.73	0.00	-3.73	-3.52	3.25	45.39	46.02	0.00	0.00	0.00	0.00
15:00	-0.01	0.00	498.72	0.47	-0.43	68363.91	0.00	0.00	0.00	21.13	18.12	0.00	0.00	-4.10	0.00	-4.10	-3.85	3.24	45.37	45.98	0.00	0.00	0.00	0.00
16:00	-0.01	0.00	498.72	0.47	-0.43	68363.91	0.00	0.00	0.00	21.13	8.79	0.00	0.00	-3.59	0.00	-3.59	-3.81	3.18	45.38	45.93	0.00	0.00	0.00	0.00
17:00	-0.01	0.00	498.72	0.47	-0.43	68363.91	0.00	0.00	0.00	21.13	17.81	0.00	0.00	-5.85	0.00	-5.85	-4.45	3.17	45.50	46.01	0.00	0.00	0.00	0.00
18:00	-0.01	0.00	498.72	0.47	-0.43	68363.91	0.00	0.00	0.00	21.06	18.15	0.00	0.00	-5.72	0.00	-5.72	-4.82	3.20	45.63	46.15	0.00	0.00	0.00	0.00
19:00	-0.01	0.00	498.72	0.47	-0.43	68363.91	0.00	0.00	0.00	21.06	18.15	0.00	0.00	-5.21	0.00	-5.21	-5.36	3.21	45.35	45.50	0.00	0.00	0.00	0.00
20:00	-0.01	0.00	498.72	0.47	-0.43	68363.91	0.00	0.08	0.00	21.06	18.15	0.00	0.00	-5.64	0.00	-5.64	-5.96	3.23	45.57	46.13	0.00	0.00	0.00	0.00
21:00	-0.01	0.00	498.72	0.47	-0.43	68363.91	0.00	0.00	0.00	21.06	1.74	0.00	0.00	-5.10	0.00	-5.10	-5.32	3.25	45.92	46.56	0.00	0.00	0.00	0.00
22:00	-0.01	0.00	498.72	0.47	-0.43	68363.91	0.00	0.00	0.00	21.06	3.69	0.00	0.00	-6.02	0.00	-6.02	-5.59	3.27	46.46	47.18	0.00	0.00	0.00	0.00
23:00	-0.01	0.00	498.72	0.47	-0.43	68363.91	0.00	0.00	0.00	21.13	-6.74	0.00	0.00	-4.81	0.00	-4.81	-5.31	3.29	46.39	47.14	0.00	0.00	0.00	0.00
0:00	-0.01	0.00	498.72	0.47	-0.43	68363.91	0.00	0.00	0.00	21.13	1.18	0.00	0.00	-4.53	0.00	-4.53	-5.12	3.28	46.65	47.39	0.00	0.00	0.00	0.00
1:00	-0.01	0.00	498.72	0.47	-0.43	68363.91	0.00	0.00	0.00	21.13	-4.79	0.00	0.00	-4.33	0.00	-4.33	-4.96	3.25	46.03	46.08	0.00	0.00	0.00	0.00
2:00	-0.01	0.00	498.72	0.47	-0.43	68363.91	0.00	0.00	0.00	21.13	1.18	0.00	0.00	-4.38	0.00	-4.38	-4.41	3.24	46.23	46.66	0.00	0.00	0.00	0.00
3:00	-0.01	0.00	498.72	0.47	-0.43	68363.91	0.00	0.00	0.00	21.13	-0.84	0.00	0.00	-4.40	0.00	-4.40	-4.37	3.20	45.78	46.31	0.00	0.00	0.00	0.00
4:00	-0.01	0.00	498.72	0.47	-0.43	68363.91	0.00	0.00	0.00	21.13	-1.95	0.00	0.00	-3.71	0.00	-3.71	-4.16	3.20	45.96	46.48	0.00	0.00	0.00	0.00
5:00	-0.01	0.00	498.72	0.47	-0.43	68363.91	0.00	0.00	0.00	21.13	-5.82	0.00	0.00	-3.88	0.00	-3.88	-4.00	3.24	45.33	45.94	0.00	0.00	0.00	0.00
6:00	-0.01	0.00	498.72	0.47	-0.43	68363.91	0.00	0.00	0.00	21.13	-4.72	0.00	0.00	-3.93	0.00	-3.93	-3.84	3.20	45.84	46.62	0.00	0.00	0.00	0.00
7:00	-0.01	0.00	498.72	0.47	-0.43	68363.91	0.00	0.00	0.00	21.13	-5.74	0.00	0.00	-3.83	0.00	-3.83	-3.52	3.36	44.01	44.90	0.00	0.00	0.00	0.00

Comments: Turbine down for repair. Nebraska operated 24 hrs



6/20

DAILY ENVIRONMENTAL REPORT

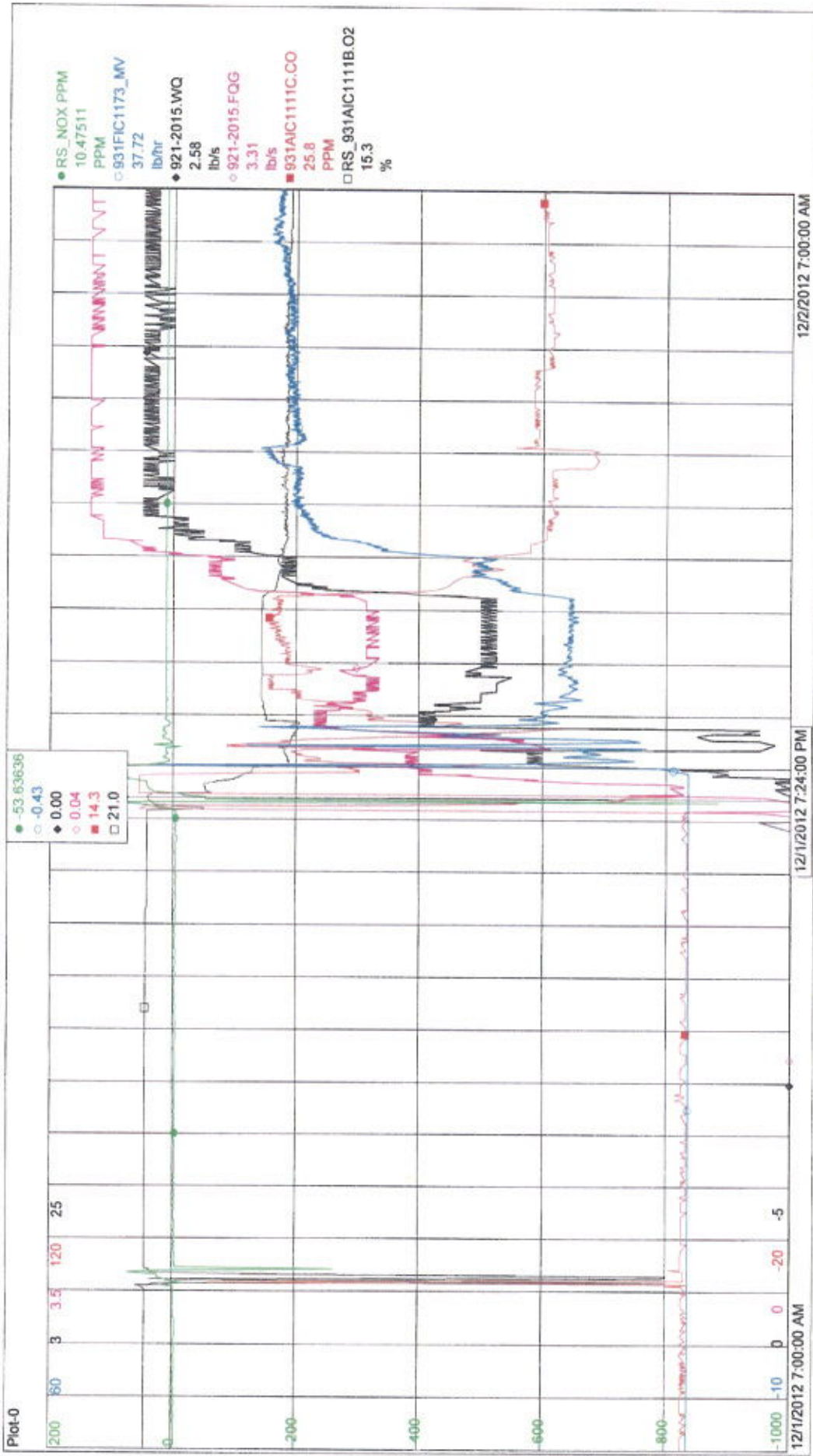
12/21/2012 7:00

12/21/2012 7:00

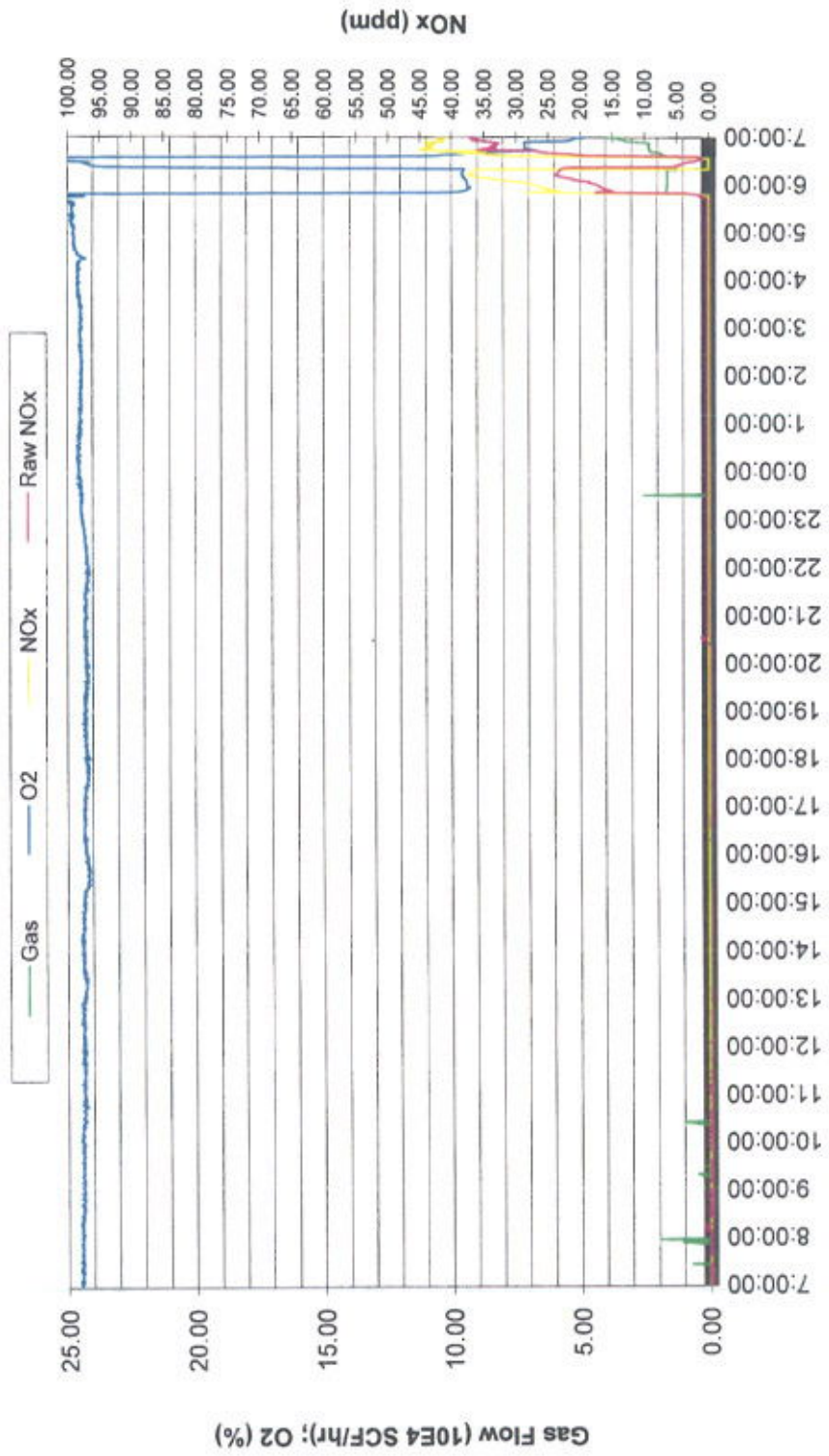
Run Time:

Time	Dust burner gas flow MSCFH	Turbine gas flow MSCFH	SCR Temperature °F	SCR NOx ppm	Ammonia Usage lb/h	NH3/NOx mole ratio	Injection steam lb/h	Steam to fuel ratio	NOx lb/h	Stack NOx %	Stack CO ppm	Stack O2 %	CO lb/h	15% O2 NOx ppm	3h Running Average NOx	Nebraska O2 %	Nebraska NOx %	Nebraska Corrected NOx (to 3% O2)	Daily Av Cogen		Daily Av Cog/Heb	
																			lb/h	lb/h	lb/h	lb/h
8:00	-0.01	0.00	499.64	0.47	-0.43	68363.91	0.00	0.00	0.00	-1.13	-1.89	-1.89	0.00	-3.97	-3.94	3.44	41.89	42.95	4.84	4.84	11.35	
9:00	-0.01	0.00	499.66	0.47	-0.43	68363.91	0.00	0.00	0.00	-1.13	1.80	1.80	0.00	-3.71	-3.87	3.49	41.26	42.41				
10:00	-0.01	0.00	499.66	0.50	-0.43	68363.91	0.00	0.00	0.00	-1.13	-0.12	-0.12	0.00	-3.45	-3.71	3.47	41.48	42.51				
11:00	-0.01	0.00	499.67	0.53	-0.43	64439.38	0.00	0.00	0.00	-1.13	-5.37	-5.37	0.00	-3.85	-3.87	3.42	40.79	41.76				
12:00	-0.01	0.00	499.69	0.63	-0.43	51272.93	0.00	0.00	0.00	-1.13	-2.14	-2.14	0.00	-3.51	-3.54	3.39	40.05	40.94				
13:00	-0.01	0.00	499.70	0.63	-0.43	51272.93	0.00	0.00	0.00	-1.13	5.80	5.80	0.00	-3.82	-3.76	3.42	39.85	40.81				
14:00	-0.01	0.00	499.71	0.63	-0.43	51272.93	0.00	0.00	0.00	-1.13	1.55	1.55	0.00	-3.81	-3.75	3.33	38.79	39.53				
15:00	-0.01	0.00	499.72	0.63	-0.43	51272.93	0.00	0.00	0.00	-1.13	-1.39	-1.39	0.00	-4.03	-3.85	3.32	38.45	39.16				
16:00	-0.01	0.00	499.73	0.63	-0.43	51272.93	0.00	0.00	0.00	-1.13	7.25	7.25	0.00	-3.59	-3.81	3.29	37.81	38.43				
17:00	-0.01	0.00	499.74	0.63	-0.43	51272.93	0.00	0.00	0.00	-1.13	9.22	9.22	0.00	-3.52	-3.71	3.34	38.00	38.74				
18:00	-0.01	0.00	499.75	0.63	-0.43	51272.93	0.00	0.00	0.00	-1.13	15.15	15.15	0.00	-4.85	-3.98	3.53	38.82	39.53				
19:00	-0.01	0.00	499.76	0.63	-0.43	51272.93	0.01	0.04	0.00	-1.13	13.27	13.27	0.00	-5.42	-4.50	3.03	38.77	39.53				
20:00	0.22	45.94	499.93	14.94	-0.32	30562.33	0.06	0.24	16.98	-1.55	105.84	105.84	15.17	8.30	-1.36	3.01	38.68	38.91				
21:00	43.67	146.57	516.66	41.77	15.74	1.54	0.78	0.40	10.63	15.37	62.78	62.78	26.28	12.81	4.59	8.05	12.91	17.97				
22:00	8.09	167.61	582.14	32.93	11.34	1.45	1.27	0.83	6.74	16.37	93.20	93.20	36.69	10.44	9.84	13.01	-0.02	-2.07				
23:00	8.09	163.41	578.54	32.17	10.73	1.41	1.22	0.81	6.63	16.42	100.47	100.47	38.64	10.50	11.27	14.98	-0.97	-2.92				
0:00	9.37	202.03	591.81	42.00	15.61	1.42	1.76	0.71	8.23	15.93	64.01	64.01	28.70	10.71	10.55	17.44	-1.19					
1:00	8.06	261.52	616.48	67.45	32.61	1.40	2.41	0.78	10.77	15.45	29.31	29.31	17.67	10.94	10.72	19.64	-1.75					
2:00	5.59	271.13	621.35	71.44	37.12	1.39	2.56	0.78	10.75	15.46	24.32	24.32	15.06	10.86	16.74	20.59	-1.81					
3:00	7.60	271.30	621.66	69.82	36.94	1.40	2.59	0.78	10.87	15.39	28.08	28.08	17.94	10.41	16.64	20.81	-1.81					
4:00	8.01	271.47	622.83	70.38	37.00	1.39	2.59	0.78	10.79	15.36	26.66	26.66	17.97	10.49	16.49	21.01	-1.81					
5:00	7.69	271.30	622.68	71.60	37.09	1.37	2.57	0.78	10.79	15.40	26.66	26.66	16.71	10.50	16.47	21.00	-2.10					
6:00	7.98	271.47	622.52	71.65	37.65	1.38	2.69	0.78	10.84	15.34	26.77	26.77	16.80	10.55	16.52	20.97	-2.66					
7:00	8.10	271.47	622.36	71.66	38.30	1.41	2.59	0.78	10.77	15.26	27.39	27.39	17.18	10.47	16.51	21.07	-2.96					

Comments : Turbine down for repair 7:00 - 19:24 for 12.4 hours, Nebraska operated 7:00 a.m. - 20:56 PM for 14 hours

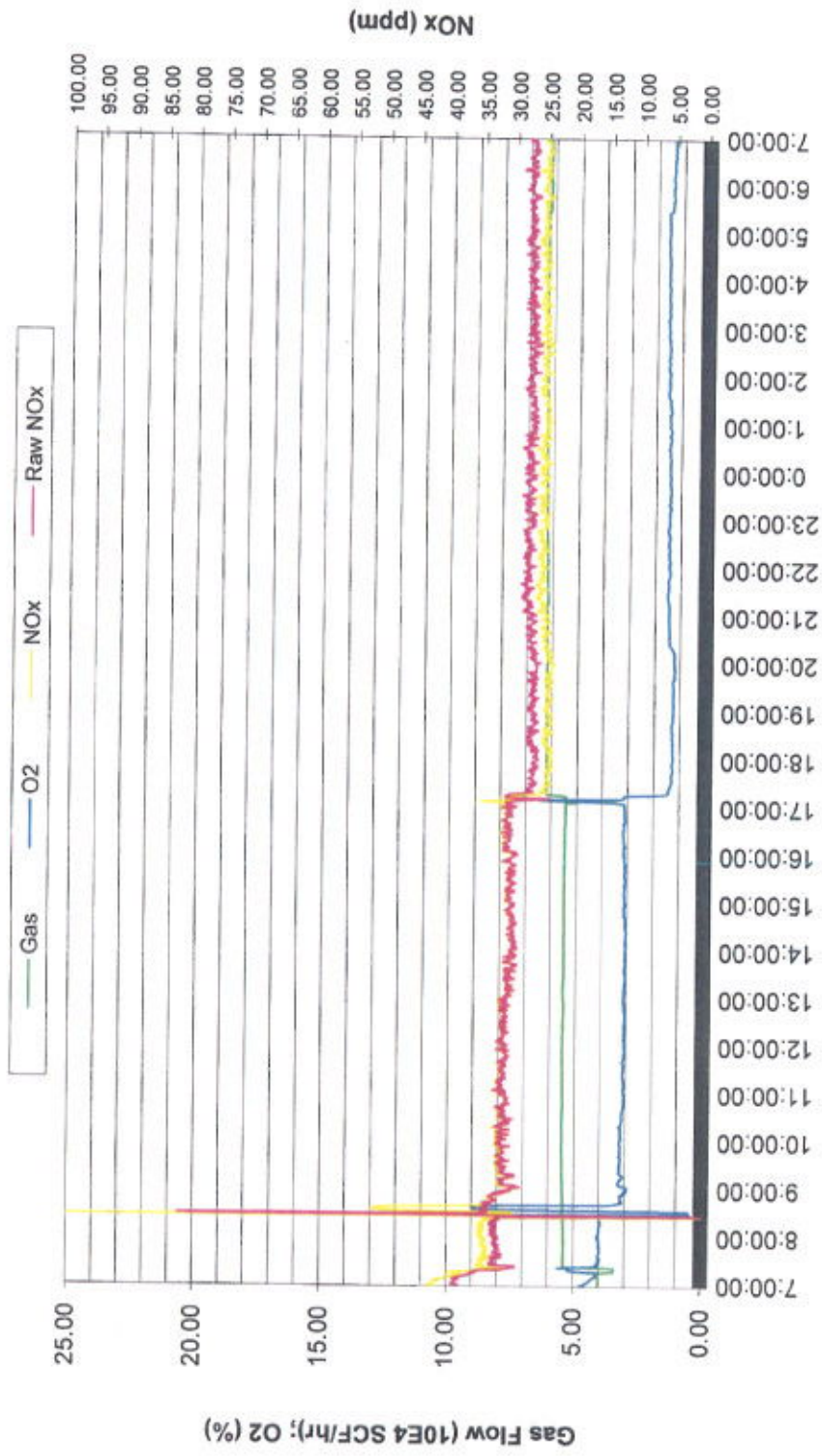


Nebraska Boiler - Daily Environmental Report



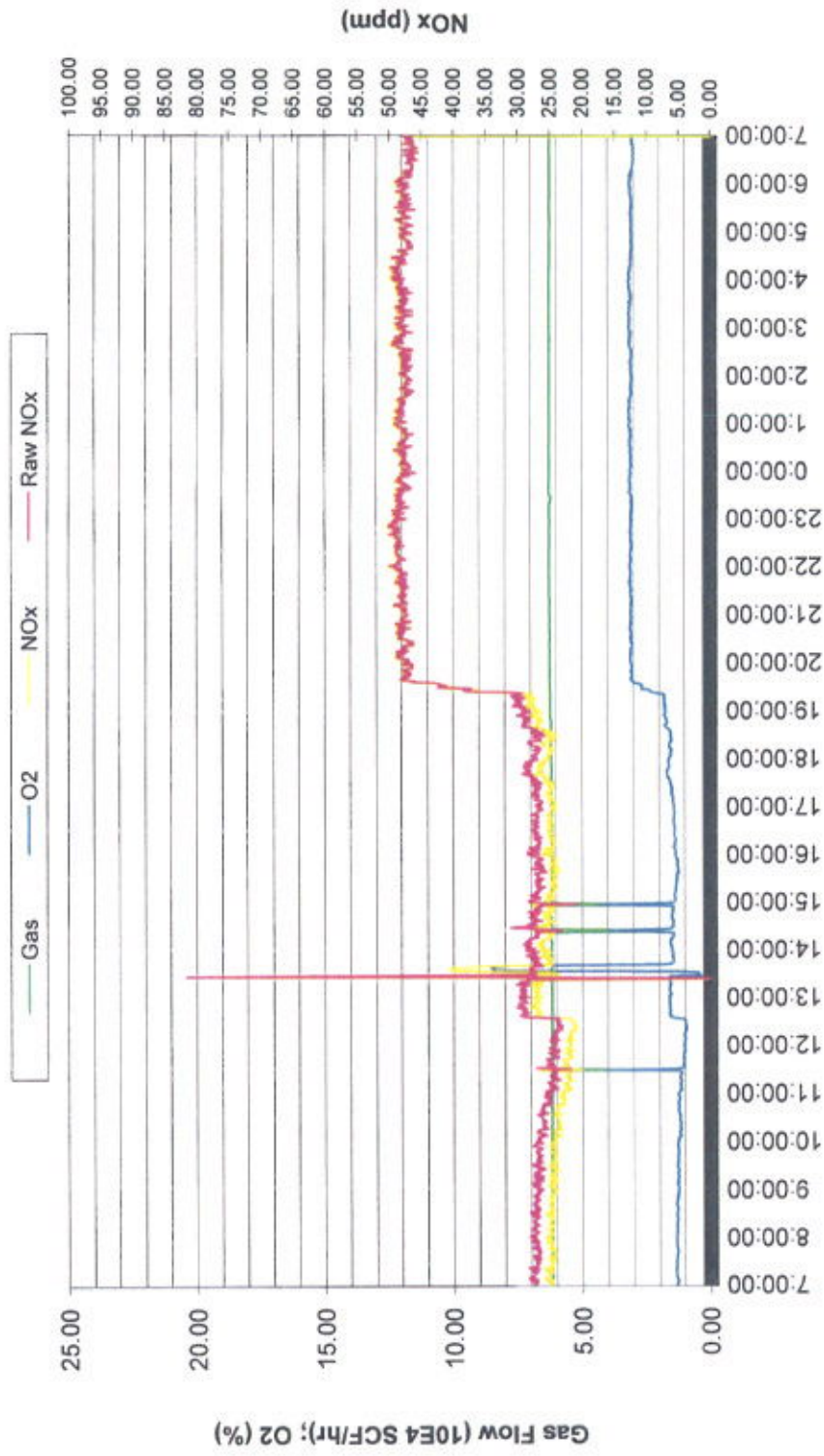
Period: 11/27/2012 - 11/28/2012

Nebraska Boiler - Daily Environmental Report



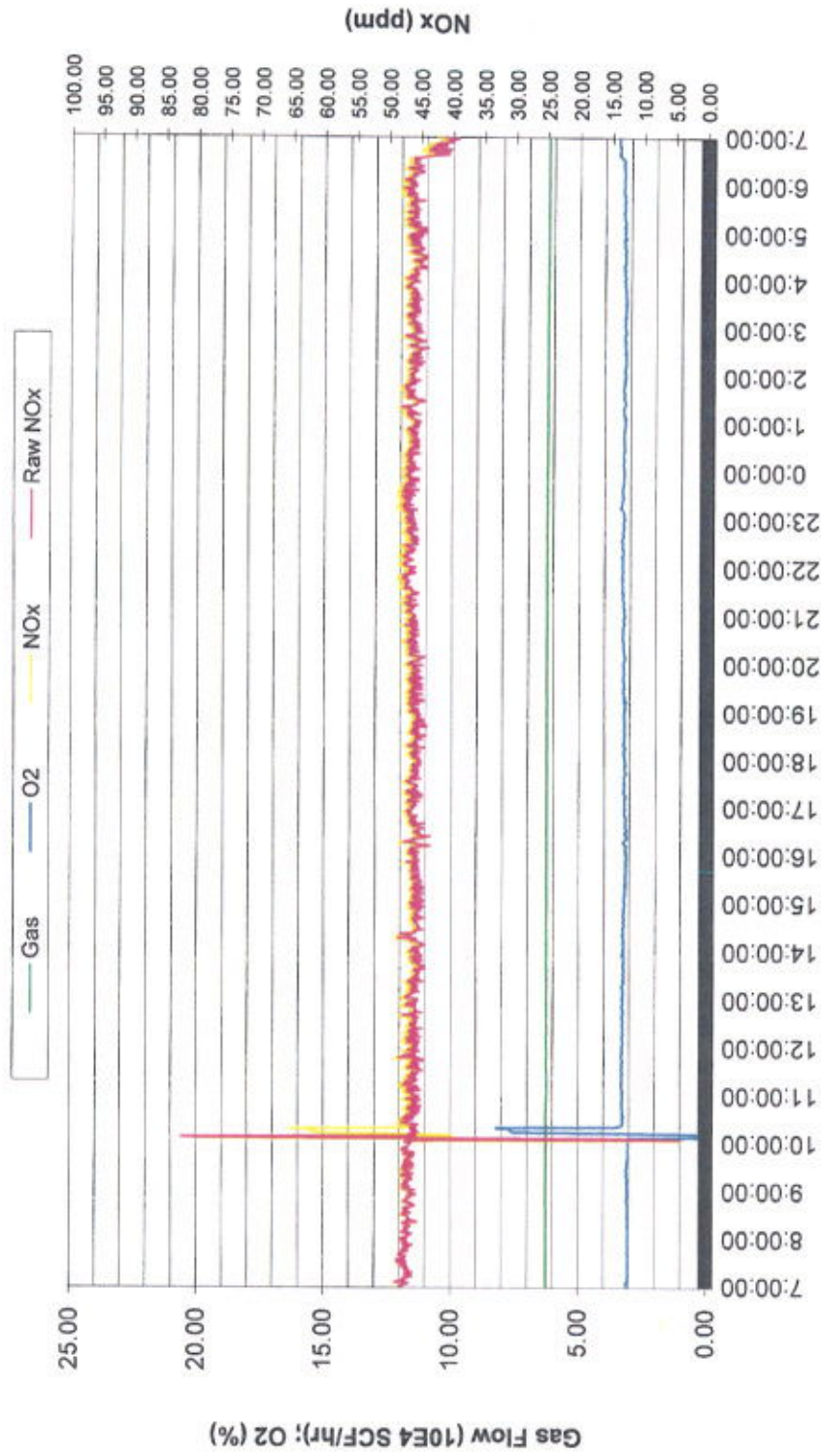
Period: 11/28/2012 - 11/29/2012

Nebraska Boiler - Daily Environmental Report



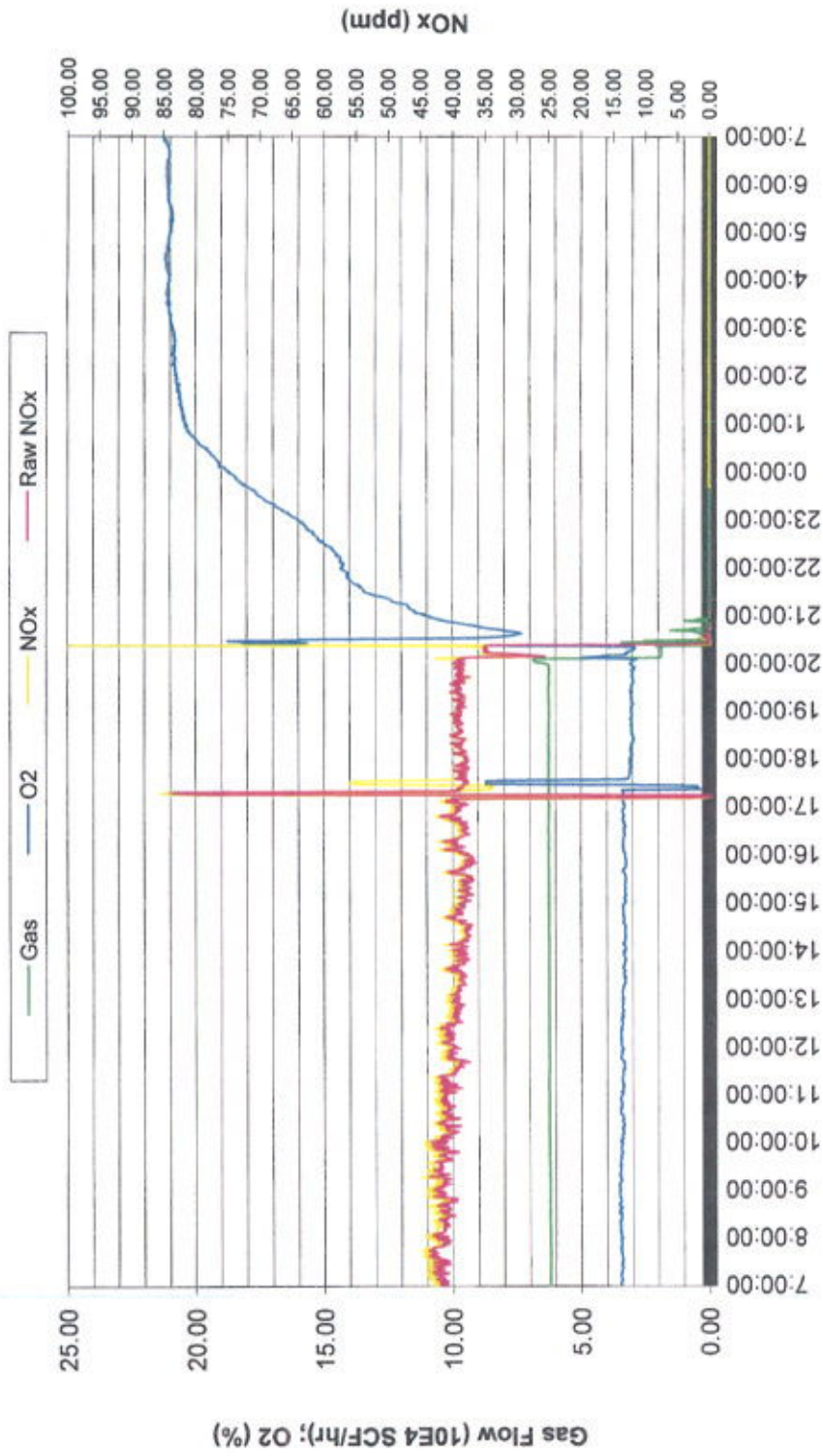
Period: 11/29/2012 - 11/30/2012

Nebraska Boiler - Daily Environmental Report

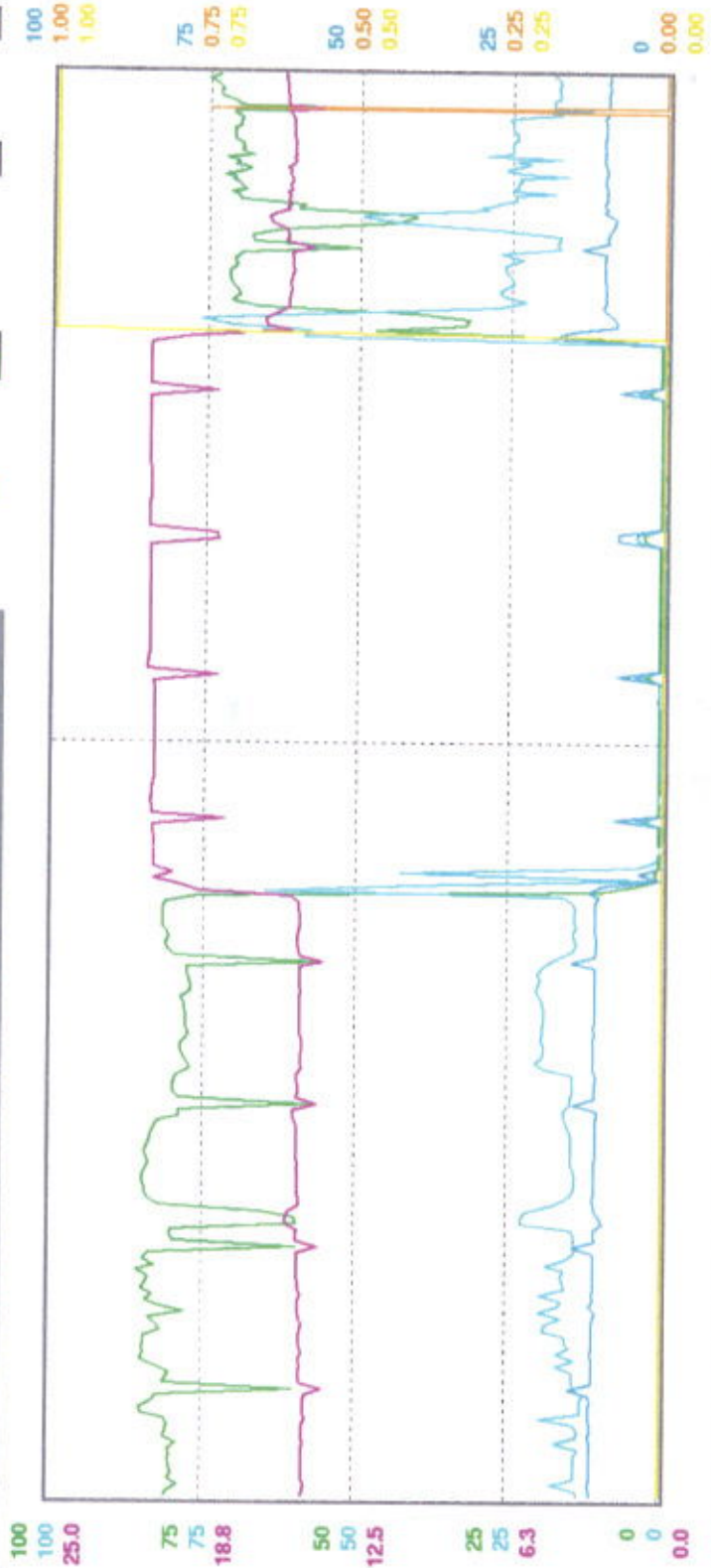


Period: 11/30/2012 - 12/01/2012

Nebraska Boiler - Daily Environmental Report



Period: 12/1/2012 - 12/02/2012



ON/Name	Description	Attribute	Treatment	Ruler Time	Ruler Value	Current Value	Unit	Filter	Time Offset	Form
931AIC1111A.NOX	B&W SCR INLET NOX	MV	Mom	06:00 2012-11-28	0.53	63.27	PPM			
931AIC1111C.CO	B&W BLR STACK RAW CO	MV	Mom	06:00 2012-11-28	-0.15	27.03	PPM			
931AIC1111B.O2	B&W BLR RAW O2%	MV	Mean	06:00 2012-11-28	20.84	15.46	%			
931AIC1111D.NOX	B&W BLR STACK NOX	MV	Mean	06:00 2012-11-28	0.16	9.93	PPM			
931-AIC-1111.INCAL	RSMT CEMS IN CAL	MV	Mom	06:00 2012-11-28	0	0				
931-aic-1111.trb	RSMT CEMS TROUBLE	MV	Mom	06:00 2012-11-28	0	1				

D1 30 minutes

D2 1 hour

D3 8 hours

D4 1 day

D5 30 days

D6 Positioning...

D7 Trace Control...

D8 Analyze...

D9 Trace Config...

D10 Extended Config...



ANAL PUMPS		STEAM & WATER READINGS		GAS & ELECTRIC READING		TURBINE		MAYON		BURNER		NEBRASKA		MEGAWATTS											
Level	Feed Rate ml/min	PERMATE H ₂ O	CONCENTRATE H ₂ O	NEBRASKA	NEBRASKA TRAILER	YES	NO	TIME	% FULL	80	65	NEBRASKA ONLINE TIME	FROM	TO	SCG LP	HP	HP	HP	SCG LP	YES	NO	NEBRASKA WARM STORAGE CHECK	DAY SHIFT	NIGHT SHIFT	
Stemline 3.0 ml/min		98.92	7.98	34.66	29.26	545	549	84	124	312	1.35	0.428	790	5.835	390	3.314	44	3.65	42	9.32	30			8.9	
Corflow 2.3 ml/min		98.87	8.17	34.58	9.60	575	2.66	63	187	339	2.00	0.424	600	5.606	830	3.05	7.5	12.33	66	9.28	51			13.9	
Polymer 6.8 ml/min																								102	
Caustic (as needed)																								7.0	
		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00												
TSR	%	48.6	48.7	48.2	47.4	48.6		48.1	47																
Inlet Temp	°F	53	55	56	56	56		56	55																
Humidity	%	58.2	53.2	72.9	43.6	40.4	53.6	52.5	54.0																
Vibration (Max)	MILS	1.5	1.5	1.5	1.5	1.5		1.5	1.5																
Steam Injection	#/SEC	2.89	2.72	2.50	2.96	2.52	2.79	2.44	2.38																
Turbine L.O. Level	%	100	100	100	100	100	100	100	100																
T48	°F	152.2	153.0	153.4	153.8	154.2	153.8	152.9	152.8																
BATTERIES	V	135	135	135	135	135	135	135	135																
AIR INLET DIFF 3.49 IN/H2O	HP RECOUPE	147																							
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AIR INLET DIFF 3.49 IN/H2O	HP RECOUPE</																								

DRY SHIFT OPERATOR

DRY SHIFT OPERATOR

NAME:

NAME:

OFFICIAL DAILY COGENERATION LOG

CHEMICAL PUMPS	Level	Feed Rate ml/min	NEBRASKA		REPERATE H ₂ O		CONCENTRATE H ₂ O		LP	HP	SCG LP	TURBINE	GAS & ELECTRIC READING		NEBRASKA	MEGAWATTS
			CURRENT	PREVIOUS	NEW OF MIN TRAILER	AMMONIA DELIVERY	YES	NO					% FULL	NEBRASKA		
Stearate 3.8 ml/min			9:49	9:28	347	3065	545	589	17	39	0.569	5.83	41919	31964	0	93230
Contra 5.5 ml/min			9:42	9:28	346	2926	545	598	124	32	0.42	5.83	31964	36502		93230
Polymer 5.8 ml/min																
Caustic (as needed)																
TURBINE																
PSR	%		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00	BOILER FEEDWATER	
Inlet Temp	°F		280												pH 8.75 - 9.5	
Humidity	%		56.4												Conductivity < 5mmhos	
Vibration (Max)	M/S		0												Silica < 20 ppb	
Steam Injection	#/SEC		0												R.O.	
Turbine L.O. Level	%		100+												Feed TDS < 1000 ppm	
148	°F		71												Permeate TDS < 10 ppm	
GENERATOR																
Gen. Bearing Drain	°F		100												CONDENSATE	
L.O. Supply	°F		100												HP - pH 8.5 - 9.5	
Gen. Vibration (Max)	IPS		0												Conductivity < 20mmhos	
Tie Line	MW		-64												LP - pH 8.5 - 9.5	
COGEN BOILER																
450 Header Temp	°F		99.7												Conductivity < 20mmhos	
HP Drum Level	IN		14.3												HP	
LP Drum Level	IN		-7												pH 9.5 - 10.5	
HP Drum Pressure	PSI		6												Conductivity 75 - 150	
LP Drum Pressure	PSI		16.4												Phosphate 5-15 ppm	
CO	PPM		11												Silica < 5 ppm	
NOX	PPM		20.84												Iron ppm	
O2	%		20.84												LP	
Hot Well Level	%		135												pH 9.5 - 10.5	
COMPRESSORS																
Filter Separator	PSI		248												Conductivity 75 - 150	
Gas Receiver	PSI		276												Phosphate 5-15 ppm	
NEBRASKA BOILER																
Drum Level	IN		50												Iron ppm	
Drum Pressure	PSI		456												MIXED BED	
Steam Flow	#/HR		6000												pH 6.0 - 7.5	
Steam Temp	°F		292												Conductivity < 1mmhos	
NOX	PPM		29.2												Silica < 10 ppb	
O2	%		20.84												HP Steam Test	
Blow Down Conductivity	MHOS		2.9												Silica < 20 ppb	
SOFTNER																
ON LINE TURBINE WATER WASH															Hardness < 1.0 ppm	
BLow Down Conductivity	MHOS														Running (1 or 2)	
NEBRASKA																
pH 9.5 - 10.5																
Conductivity 75 - 200																
Silica																
Phosphate 5-25 ppm																
STEAM TEST																
Silica < 20 ppb																
PV NO.2																
May/June > 200 ppm																
NOTES:																

SAFETY IS ALWAYS NO. 1

DATE: 11-28-12

Huenueme Paper Mill

Hueneme Mill Environmental Incident Report

Shaded section to be completed by the EMR

Name of Incident Turbine- LM2500 down- HPC spline damage		Incident Date 28 Nov 12	
Exact Location Incident Cogen			
Reported By C. Wilson		Estimated Start and Stop Times of Incident: @ 2300 11/27/12 @1900 12/1/12	Possible Cause: HPC spline failure
Incident Type: <input type="checkbox"/> Spill Internal <input type="checkbox"/> Improper Waste		Released To	
Disposal		<input type="checkbox"/> Storm Water System <input type="checkbox"/> Secondary Containment	
<input type="checkbox"/> Spill External <input type="checkbox"/> Near miss or below spill release guidelines		<input type="checkbox"/> Process Sewer <input checked="" type="checkbox"/> Air	
X Air Emission		<input type="checkbox"/> Ground (External) <input type="checkbox"/> Ground (Inside Mill Property)	
<input type="checkbox"/> Other _____		<input type="checkbox"/> Near Miss	
		<input type="checkbox"/> Other _____	
Detailed Description of Event On 28 Nov 2012- @ 6 AM approx- Nebraska package boiler was started because of failure at the LM2500 plus turbine. Mill's turbine had to be removed from package. Lease turbine was brought in and installed. Lease turbine started up on 12/1/12- @1900 approx. Once Lease engine was operating per GE specs- Nebraska boiler was brought offline. APCD was contacted @6 AM approx message left by R. Rehbein on 11/28/12.			
<i>(if required use additional paper and attach)</i>			
Estimated Amount Released		pH	CONSISTENCY (%)
<input type="checkbox"/> _____ Gallons <input type="checkbox"/> _____ Pounds			Estimated Monetary Loss
<input type="checkbox"/> Other _____			
List Any External Emergency Clean Up Personnel Contacted N/A		List Any External Agencies Contacted (Agency, person and time of call.) APCD @6 AM approx	
List Hueneme Personnel Contacted (Foreman, Mill Manager, etc.) Lars Gustavson, Rudy Rehbein, Robyn Lebrilla , Victor Kumpere		Any Acute or Chronic Health Risks (refer to MSDS)N/A	
Describe Any Emergency Response Actions N/A			
Suggestions to Prevent Reoccurrence			Estimated Completion Date
1.			1.
2.			2.
3.			3.
4.			4.
Root Cause after investigation		Severity Level (level 1 and 2 must be tracked through SHIMS)	
		<input type="checkbox"/> 1	
		<input type="checkbox"/> 2	
		<input type="checkbox"/> 3	
		<input type="checkbox"/> 4	
Investigated By: Charlie Wilson		Investigated Date 11/27-28/12	
<u>Follow Up</u>		<u>By When</u>	<u>Completion Date</u>
<u>By Whom</u>			
Issued by	Reviewed by	Approved by	
_____	_____	_____	
Department Manager	Technical Superintendent	Mill Manager	

Print Time: 12/3/2012 2:30:08 PM

Note: This document is valid for only ONE week after print time!

NEW INDY

CONTAINERBOARD

January 17, 2013

Lyle Olson
Ventura County Air Pollution Control District
669 County Square Drive, Second Floor
Ventura, CA 93003

Subject: CEMS breakdown – O2 drift

Dear Mr. Olson:

This letter is a follow up on the call made by Rudy Rehbein to the VCAPCD Breakdown Center Hotline on January 12, 2013 at about 1:30 PM.

After the 10:30 AM calibration on January 12, 2013, a weekend call team member observed the increasing drift on stack O2 and low stack NOx. Technicians were called in to troubleshoot but were unable to resolve the issue. On January 14, 2013, the mill pursued an extensive troubleshooting with the help of a CEMS specialist. They found that the O2 drift was due to an air leak from a cracked fitting at the bottom of the sample handling chiller assembly. The cracked plastic fittings were replaced with stainless steel fittings. There was no excess emission during this O2 drift incident (17% O2 at about 8:00 PM on January 11 increasing to 19% O2 until the air leak was eliminated at 2:15 PM on January 14, 2013). A passing manual calibration was completed at 3:08 PM on January 14, 2013.

The Daily Emission Sheet, PI trends, DCS trends, Cogen Report and Environmental Incident Report have been provided for your review. If you have any questions or require any additional information, please call me at (805) 271-7284.

Sincerely,



Robyn Lebrilla
Environmental Engineer

NEW INDY OXNARD, LLC

5936 PERKINS ROAD • OXNARD, CALIFORNIA 93033 • WWW.NEWINDYCONTAINERBOARD.COM
PHONE (805) 986-3881 • FAX (805) 488-5186



Ventura County
Air Pollution
Control District

RESPONSIBLE OFFICIAL'S CERTIFICATION FORM

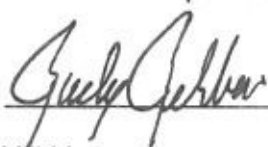
Ventura County APCD Rule 33.9 requires that "any document, including reports, schedule of compliance progress reports and compliance certifications, required by a Part 70 permit shall be certified by a responsible official." Therefore, this form shall be signed by the company's Responsible Official and submitted with all such reports, including, but not limited to semi-annual reports, deviation and emergency reports and any periodic reports required by a Part 70 permit. However, when submitting your Annual Compliance Certifications, please use the form titled Annual Compliance Certification Signature Cover Form.

Semi-annual reports, deviations and emergency reports and any periodic reports required by your Part 70 permit should be submitted to:

Lyle Olson
Air Quality Engineer
Ventura County Air Pollution Control District
669 County Square Drive
Ventura, CA 93003

Certification by Responsible Official

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this document is true, accurate, and complete.

<p>Signature and Title of Responsible Official:</p> <p>Signature: <u></u></p> <p>Title: <u>Mill Manager</u></p>	<p>Date:</p> <p><u>1/17/13</u></p>
--	------------------------------------

DAILY ENVIRONMENTAL REPORT

1/12/2013 7:00

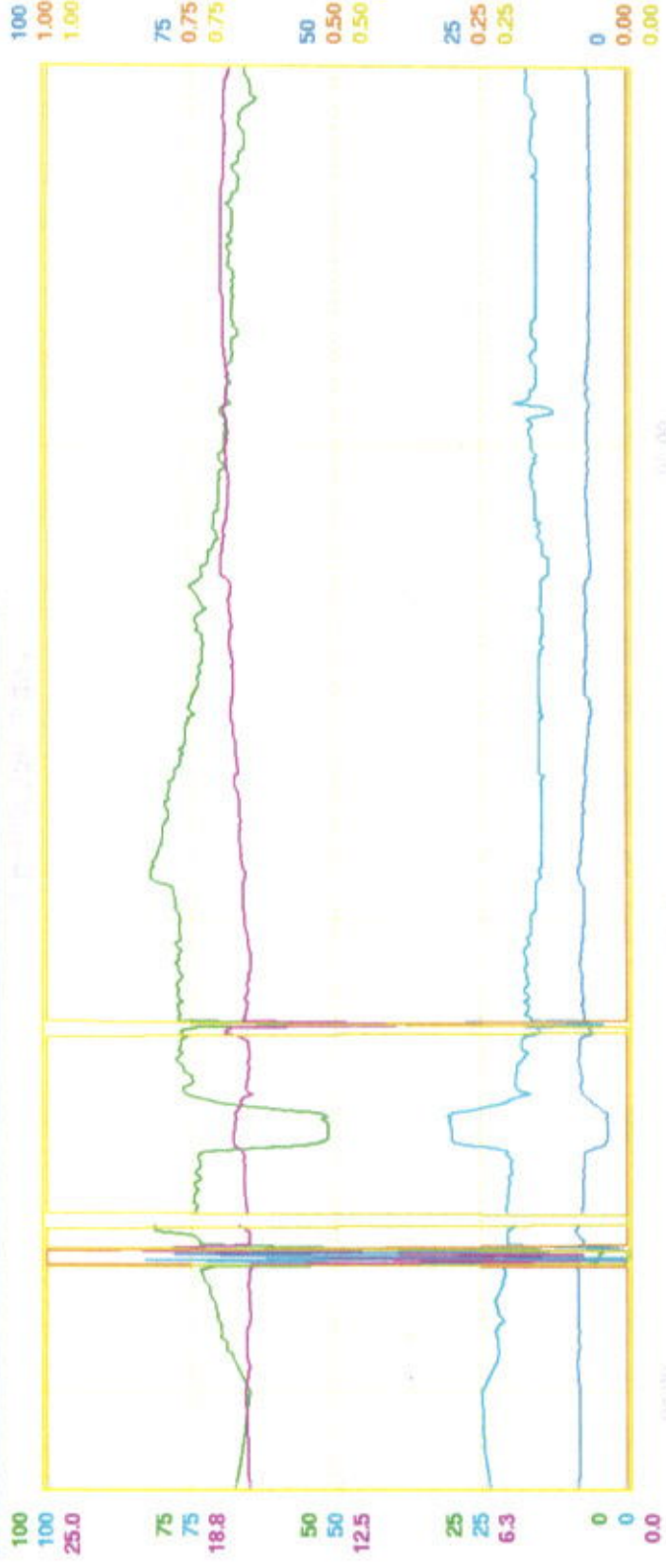
1/12/2013 7:00

1/12/2013 7:00

1/12/2013 7:00

Time	Duct burner gas flow MSCFH	Turbine gas flow MSCFH	SCM Temperature °F	SCM inlet NOx ppm	Ammonia usage lb/h	NH3 NOx ratio ratio	Injection steam rate lb/s	Steam to fuel ratio	NOx lb/h	Stack CO ppm	Stack CO lb/h	Stack NOx ppm	3H flaming NOx Average	NOx % (to 3% O ₂)	NOx % (to 3% O ₂)	Daily Air CO ₂		Daily Air CO ₂	
																lb/h	10.55	lb/h	10.55
8:00	9.87	269.24	617.57	65.02	34.92	1.42	2.63	0.60	16.38	32.48	10.51	10.48	24.47	-1.13	24.47	10.55	10.55		
9:00	13.17	271.47	623.93	67.90	36.07	1.45	2.68	0.81	11.19	16.33	18.96	10.52	10.52	24.46	-1.20	24.46	10.55	10.55	
10:00	9.00	271.81	622.55	71.57	42.26	1.59	2.71	0.82	11.61	16.26	17.66	10.57	10.57	24.42	-1.54	24.42	10.55	10.55	
11:00	8.06	271.64	622.54	71.53	44.85	1.60	2.73	0.82	10.58	16.21	16.89	10.58	10.58	24.40	-1.55	24.40	10.55	10.55	
12:00	7.99	272.65	621.99	74.09	46.77	1.59	2.74	0.82	9.89	16.43	16.82	10.31	10.31	24.33	-1.78	24.33	10.55	10.55	
13:00	8.53	270.52	608.31	68.57	46.76	2.54	2.15	0.76	5.53	16.75	18.40	8.83	8.83	24.39	-1.51	24.39	10.55	10.55	
14:00	10.23	275.06	628.84	76.25	48.76	1.60	2.78	0.83	10.07	16.35	18.12	8.91	8.91	24.33	-1.51	24.33	10.55	10.55	
15:00	7.95	274.18	628.05	74.15	48.72	1.78	2.76	0.83	10.51	15.93	13.34	8.91	8.91	24.39	-1.99	24.39	10.55	10.55	
16:00	8.00	272.87	627.76	77.11	46.76	1.58	2.74	0.82	10.16	16.34	11.87	10.11	10.11	24.37	-1.77	24.37	10.55	10.55	
17:00	7.94	271.61	627.53	79.42	46.76	1.55	2.71	0.81	10.64	16.51	12.83	10.17	10.17	24.49	-2.07	24.49	10.55	10.55	
18:00	7.98	271.97	627.30	79.66	46.76	1.53	2.74	0.82	10.90	16.64	12.83	10.23	10.23	24.50	-1.90	24.50	10.55	10.55	
19:00	8.01	272.69	626.96	77.44	46.77	1.56	2.77	0.83	10.36	16.79	11.17	10.23	10.23	24.49	-1.71	24.49	10.55	10.55	
20:00	8.01	272.66	625.18	75.11	44.97	1.55	2.75	0.83	10.66	16.55	12.20	10.66	10.66	24.42	-1.69	24.42	10.55	10.55	
21:00	8.22	272.66	624.42	73.36	39.42	1.40	2.72	0.82	10.89	17.00	14.19	10.67	10.67	24.41	-1.45	24.41	10.55	10.55	
22:00	7.97	271.47	624.85	73.58	41.02	1.46	2.72	0.82	10.89	17.15	14.14	10.52	10.52	24.45	-1.46	24.45	10.55	10.55	
23:00	8.26	271.47	621.57	70.87	39.41	1.44	2.74	0.82	10.81	17.26	15.37	10.44	10.44	24.46	-1.77	24.46	10.55	10.55	
0:00	8.00	270.80	620.31	69.74	37.99	1.43	2.71	0.82	10.76	17.16	15.75	10.42	10.42	24.44	-1.85	24.44	10.55	10.55	
1:00	7.30	271.46	617.52	69.04	36.05	1.37	2.71	0.81	10.53	17.21	15.44	10.48	10.48	24.44	-1.77	24.44	10.55	10.55	
2:00	10.25	271.47	621.80	67.84	35.43	1.35	2.71	0.81	10.92	17.27	15.24	10.47	10.47	24.40	-1.59	24.40	10.55	10.55	
3:00	8.09	271.47	619.34	67.64	34.77	1.32	2.67	0.81	10.66	17.40	15.99	10.48	10.48	24.47	-1.47	24.47	10.55	10.55	
4:00	9.32	270.96	619.66	68.18	34.53	1.32	2.67	0.81	10.57	17.44	16.00	10.48	10.48	24.47	-1.49	24.47	10.55	10.55	
5:00	12.03	271.30	620.69	67.14	34.05	1.30	2.66	0.81	10.99	17.39	16.57	10.48	10.48	24.47	-1.72	24.47	10.55	10.55	
6:00	16.03	271.30	625.58	65.84	33.08	1.27	2.66	0.81	11.33	17.31	17.48	10.47	10.47	24.47	-2.04	24.47	10.55	10.55	
7:00	14.80	271.47	625.50	66.24	32.95	1.27	2.67	0.81	11.14	17.15	17.64	10.48	10.48	24.46	-2.04	24.46	10.55	10.55	

Comments:



ON/Name	Description	Attribute	Treatment	Ruler Time	Ruler Value	Current Value	Unit	Filter	Time Offset	Form
■ 931AIC1111A.NOX	BAW SCR INLET NOX	MV	Mom	06:00 2013-01-11	66.06	71.69	PPM			▼
■ 931AIC1111C.CO	BAW BLR STACK RAW CO	MV	Mom	06:00 2013-01-11	22.89	9.07	PPM			▼
■ 931AIC1111B.O2	BAW BLR RAW O2%	MV	Mean	06:00 2013-01-11	16.23	18.69	%			▼
■ 931AIC1111D.NOX	BAW BLR STACK NOX	MV	Mean	06:00 2013-01-11	9.30	3.74	PPM			▼
■ 931-AIC-1111.INCAL	RSMT CEMS IN CAL	MV	Mom	06:00 2013-01-11	0	0				▼
■ 931-aic-1111.trb	RSMT CEMS TROUBLE	MV	Mom	06:00 2013-01-11	1	1				▼

D1 30 minutes	D2 1 hour	D3 8 hours	D4 10 days
D6 Positioning...	D7 Trace Control...	D8 Analyze...	D9 Trace Config...
			D10 Extended Config...



DRY SHIFT OPERATOR

DRY SHIFT OPERATOR

NAME: *Rob*

NAME:

EMICAL PUMPS	Level	Feed Rate ml/min	NEBRASKA		PERMEATE H ₂ O		CONCENTRATE H ₂ O		NEBRASKA WATER READINGS		NEBRASKA ONLINE TIME		NEBRASKA WARM STORAGE CHECK		SCC LP		TURBINE		GAS & ELECTRIC READING		BOILER TEST RESULTS		
			CURRENT	PREVIOUS	NEW DEMIN TRAILER	YES	NO	%	FULL	NEBRASKA	PERMEATE	CONCENTRATE	H ₂ O	H ₂ O	HP	HP	HP	HP	HP	HP	MAXON	BURNER	NEBRASKA
FSR	%	57.8	60.3	62.5	60.5	60.7	61.2	61.2	19:00	17:00	19:00	17:00	23:00	23:00	1:00	3:00	3:00	5:00	0.20	0.85	6.86	2.19	2.915
Inlet Temp	°F	42	53	55	59	59	59	59	19:00	17:00	19:00	17:00	23:00	23:00	1:00	3:00	3:00	5:00	0.20	0.85	6.86	2.19	2.915
Humidity	%	41.2	15.1	15.1	7	7	7	7	19:00	17:00	19:00	17:00	23:00	23:00	1:00	3:00	3:00	5:00	0.20	0.85	6.86	2.19	2.915
Vibration (Max)	MILS	18	18	18	19	19	19	19	19:00	17:00	19:00	17:00	23:00	23:00	1:00	3:00	3:00	5:00	0.20	0.85	6.86	2.19	2.915
Steam Injection	#/SEC	3.62	3.75	2.75	2.75	2.75	2.75	2.75	19:00	17:00	19:00	17:00	23:00	23:00	1:00	3:00	3:00	5:00	0.20	0.85	6.86	2.19	2.915
Turbine L.O. Level	%	90	90	90	90	90	90	90	19:00	17:00	19:00	17:00	23:00	23:00	1:00	3:00	3:00	5:00	0.20	0.85	6.86	2.19	2.915
T48	°F	140.5	143.6	142	145.4	145.4	145.4	145.4	19:00	17:00	19:00	17:00	23:00	23:00	1:00	3:00	3:00	5:00	0.20	0.85	6.86	2.19	2.915
TURBINE																							
GENERATOR																							
COGEN BOILER																							
COMPRESSORS																							
NEBRASKA BOILER																							

OFFICIAL DAILY COGENERATION LOG

NO. 1 YES NO NO. 2 YES NO

ROILER FEED WATER PUMP OPERATION

COODUCTIVITY MHOS

ON LINE TURBINE WATER WASH

NO. 1 YES NO NO. 2 YES NO

DATE: 1-11-13

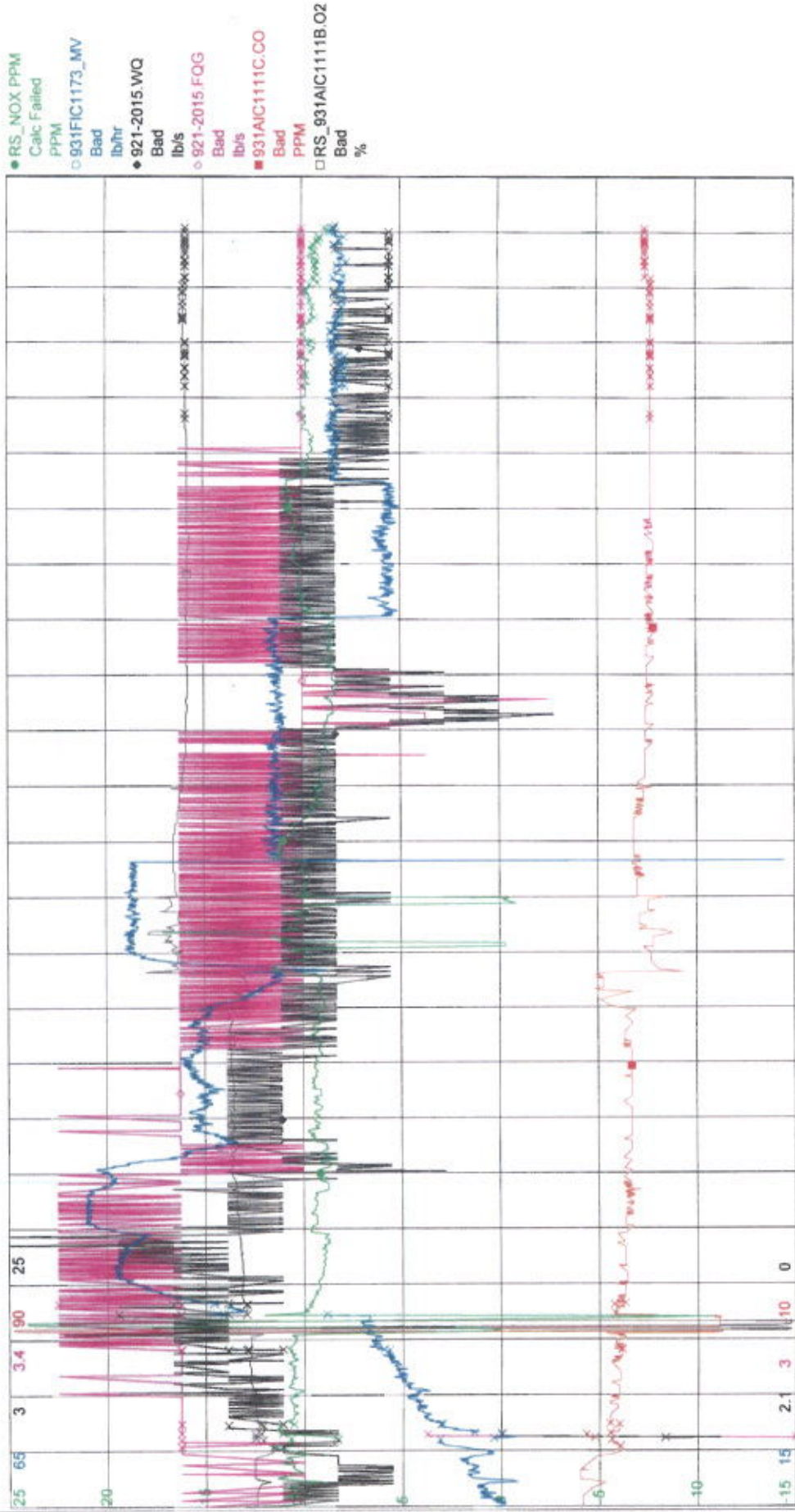
SAFETY IS ALWAYS NO. 1

Huema Paper Mill

FORM 000-3011 - REV. 1

WORK ORDER

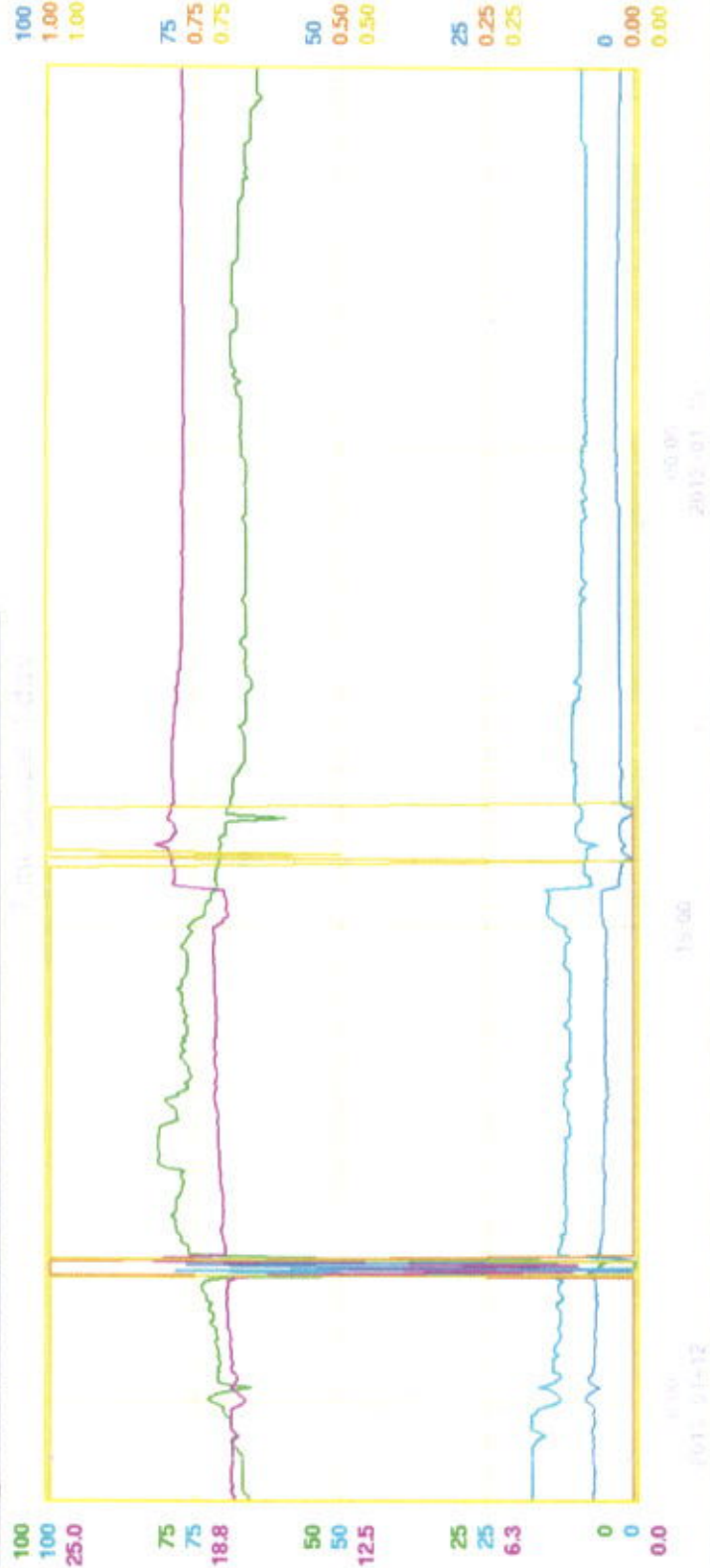
Plot-0



1/13/2013 7:00:09 AM

24.00 hours

1/12/2013 7:00:09 AM



ON Name	Description	Attribute	Treatment	Ruler Time	Ruler Value	Current Value	Unit	Filter	Time Offset	Form
931AIC1111A.NOX	B&W SCR INLET NOX	MV	Mom	07-04-2013-01-12	66.81	71.69	PPM			
931AIC1111C.CO	B&W BLR STACK RAW CO	MV	Mom	07-04-2013-01-12	17.22	9.03	PPM			
931AIC1111B.O2	B&W BLR RAW O2%	MV	Mean	07-04-2013-01-12	17.14	18.71	%			
931AIC1111D.NOX	B&W BLR STACK NOX	MV	Mean	07-04-2013-01-12	6.73	3.73	PPM			
931-AIC-1111.INCAL	RSMT CEMS IN CAL	MV	Mom	07-04-2013-01-12	0	0				
931-aic-1111.trb	RSMT CEMS TROUBLE	MV	Mom	07-04-2013-01-12	1	1				

D1 30 minutes
 D2 1 hour
 D3 8 hours
 D4 10 days
 D5 10 days
 D6 Positioning...
 D7 Trace Control...
 D8 Analyze...
 D9 Trace Config...
 D10 Extended Config...



NIGHT SHIFT OPERATOR

DRY SHIFT OPERATOR

NAME: *Rob*

OFFICIAL DAILY COGENERATION LOG

LOCAL PUMPS	Level	Feed Rate ml/min	NEBRASKA		STEAM & WATER READINGS		NEBRASKA WARM STORAGE CHECK		TURBINE		GAS & ELECTRIC READING		BOILER TEST RESULTS	
			NEBRASKA	NEBRASKA	PERMEATE H ₂ O	CONCENTRATE H ₂ O	LP	HP	SOC LP	TURBINE	MAXON	BURNER		NEBRASKA
Steamline 39 ml/min			01018983	13889458	5681869	203002	2061	1186230	0538940	438781	18632			
Corfo 5.3 ml/min			0095949	1377375	5651228	10055	187	1104552	020520	6850370	2946			
Polymer 8.8 ml/min														
Coastic (as repeat)														
TURBINE														
FSR	%		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
Inlet Temp	°F		54.1	60.2	77.1	52.4	53.3	53.6	52.7	53.1	52.8	51.1	51.3	51.5
Humidity	%		4.6	5.2	5.9	5.9	5.7	5.4	5.6	4.7	4.5	4.7	4.5	4.3
Vibration (Max)	M/S		2.02	1.9	1.9	1.7	1.9	1.8	1.9	1.8	1.8	2.6	2.5	2.4
Steam Injection	#/S/C		8.02	2.25	2.58	2.62	2.62	2.62	2.69	2.62	2.62	2.50	2.56	2.56
Turbine L.O. Level	%		4.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
TAB	°F		1412	1437	1457	1445	1431	1434	1422	1410	1410	1411	1397	1396
GENERATOR														
Gen. Bearing Drain	°F		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
L.O. Supply	°F		15.4	15.6	15.9	16.0	16.1	15.9	15.8	15.6	15.6	15.4	15.4	15.4
Gen. Vibration (Max)	#PS		3.7	4.1	4.1	4.3	4.2	4.2	4.2	4.1	4.1	4.1	4.0	4.0
Tie Line	MW		13.5	18.3	17.4	18.9	13.1	13.1	12.9	13.0	13.0	13.10	12.97	12.97
COGEN BOILER														
450 Header Temp	°F		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
HP Drum Level	IN		2.5	7.0	7.0	7.0	7.0	7.0	7.1	7.0	7.0	7.0	7.0	7.0
LP Drum Level	IN		1.2	1.8	1.8	1.8	1.8	1.8	1.1	1.1	1.1	1.2	1.0	0.9
HP Drum Pressure	PSI		1.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
LP Drum Pressure	PSI		4.81	4.59	4.51	4.51	4.57	4.57	4.89	4.89	4.89	4.89	4.89	4.89
CO	PPH		15.0	15.0	15.0	14.4	14.4	14.4	15.1	15.1	15.1	15.0	15.1	15.1
NOX	PPM		20.7	20.3	21.4	23.3	20.7	20.7	20.8	20.8	20.8	20.8	20.8	20.8
D2	%		9.9	10.9	9.1	9.1	9.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
Hot Well Level	%		16.8	17.2	17.7	17.9	17.3	19.7	17.7	19.3	19.3	19.3	19.3	19.3
COMPRESSORS														
1150 SET POINT	449		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
SCANNER BLOWER (ON 102)	442-SP		2.25	2.7	2.31	2.31	2.29	2.29	2.29	2.29	2.31	2.33	2.33	2.33
DUCT BURNER	442-SP		4.20	4.21	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
NEBRASKA BOILER														
Drum Level	IN		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
Drum Pressure	PSI		2.25	2.7	2.31	2.31	2.29	2.29	2.29	2.29	2.31	2.33	2.33	2.33
Steam Flow	#/HR		4.20	4.21	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
Steam Temp	°F													
NOX	PPM													
D2	%													
Blow Down Conductivity	µMOS													
NEBRASKA TURBINE WATER WASH														
ON LINE TURBINE WATER WASH	YES	NO	COOLANTY	MHOS	NO. 1	YES	NO	NO. 2	YES	NO	NO	NO	NO	NO

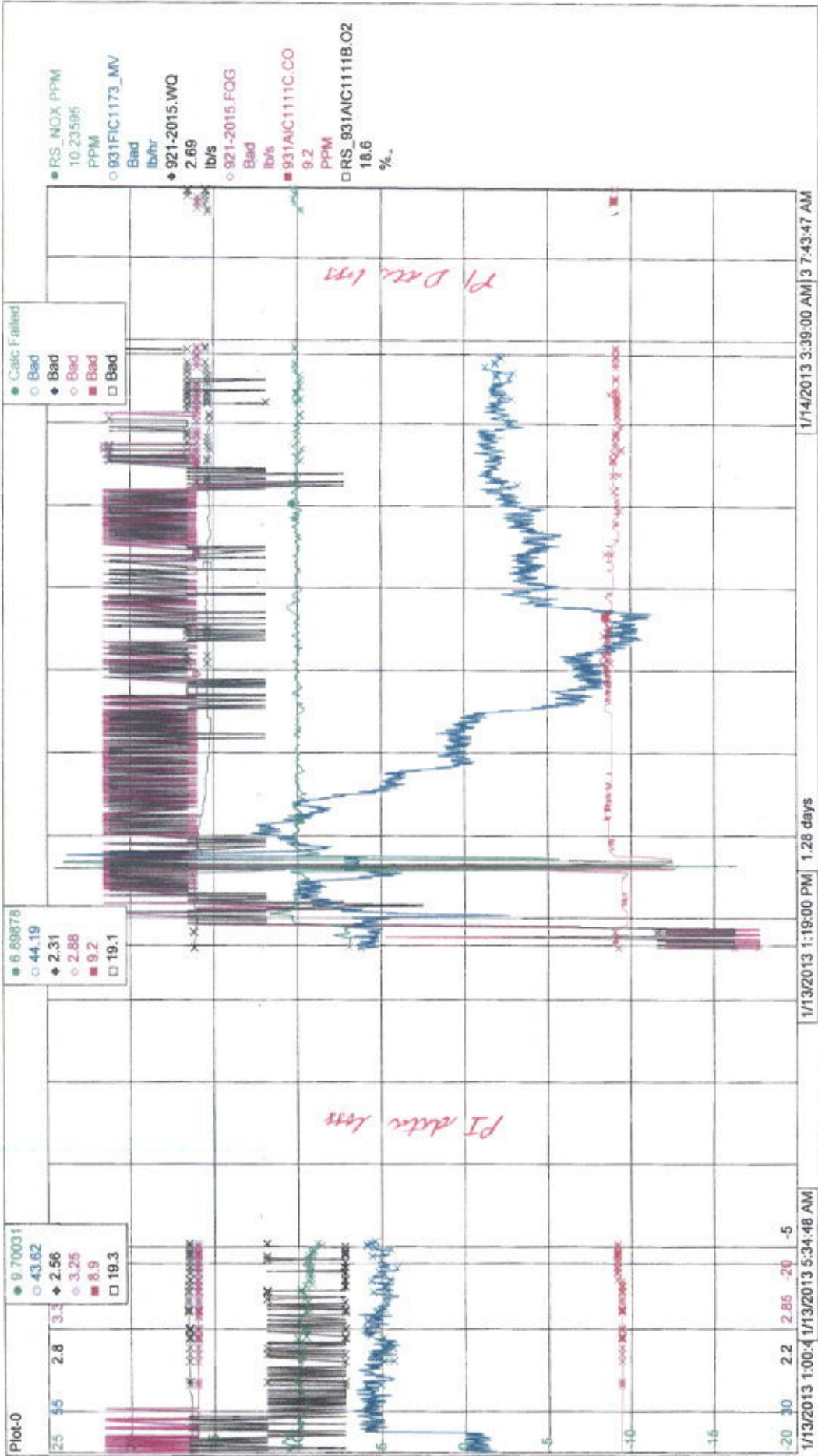
Huemburg Paper Mill

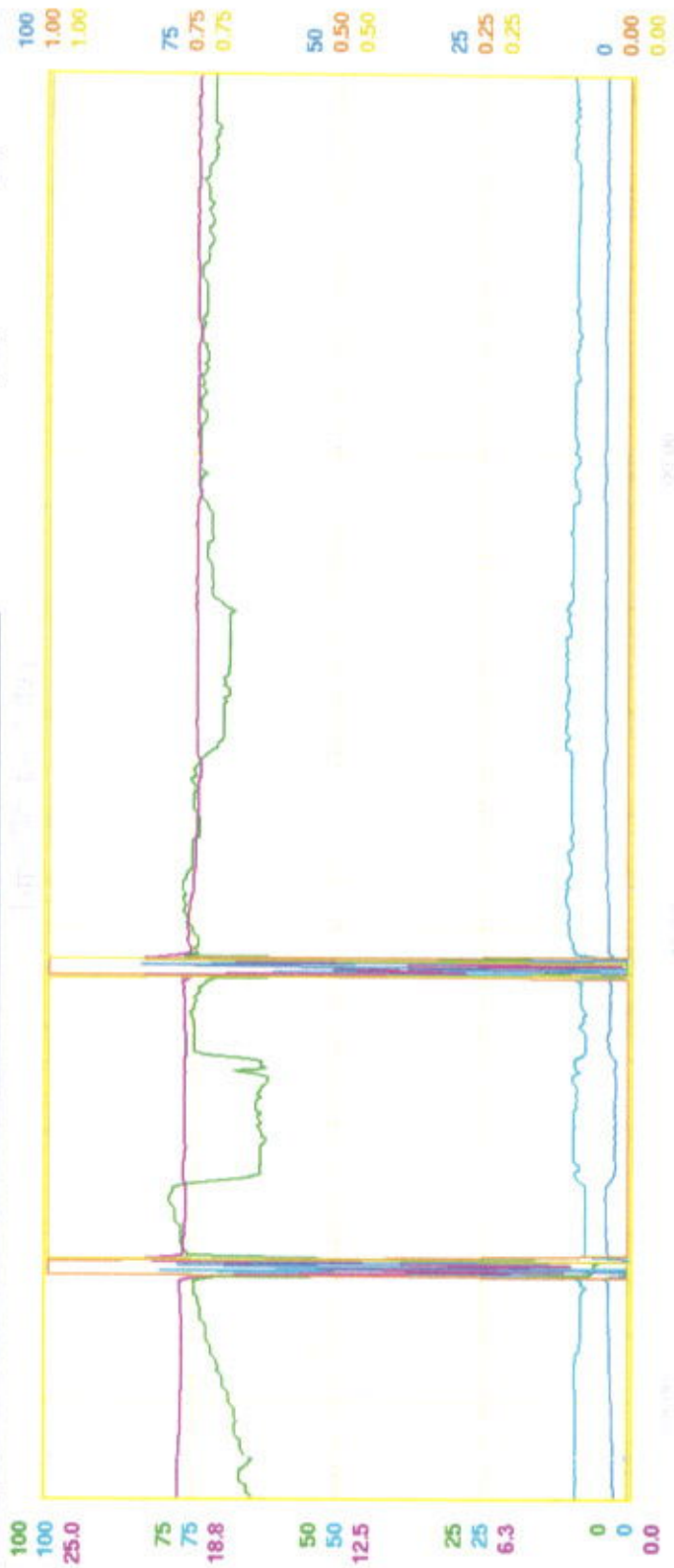
SAFETY IS ALWAYS NO. 1

DATE: 1-12-15

WASH WARD

NOTES: CO. AGENCY B-7 SAGWEL
T-12-15





ON/Name	Description	Attribute	Treatment	Ruler Time	Ruler Value	Current Value	Unit	Filter	Time Offset	Form
931AIC1111A.NOX	B&W SCR INLET NOX	MV	Mom	07-04-2013-01-13	65.69	71.80	PPM			Form
931AIC1111C.CO	B&W BLR STACK RAW CO	MV	Mom	07-04-2013-01-13	8.94	8.92	PPM			Form
931AIC1111B.O2	B&W BLR RAW O2%	MV	Mean	07-04-2013-01-13	19.40	18.70	%			Form
931AIC1111D.NOX	B&W BLR STACK NOX	MV	Mean	07-04-2013-01-13	2.43	3.78	PPM			Form
931-AIC-1111.INCAL	RSMT CEMS IN CAL	MV	Mom	07-04-2013-01-13	0	0				Form
931-aic-1111.trb	RSMT CEMS TROUBLE	MV	Mom	07-04-2013-01-13	0	1				Form

D1	30 minutes	D2	1 hour	D3	8 hours	D4	1 day	D5	10 days
D6	Positioning...	D7	Trace Control...	D8	Analyze...	D9	Trace Config...	D10	Extended Config...



DRY SHIFT OPERATOR

DRY SHIFT OPERATOR

NAME:

mlt

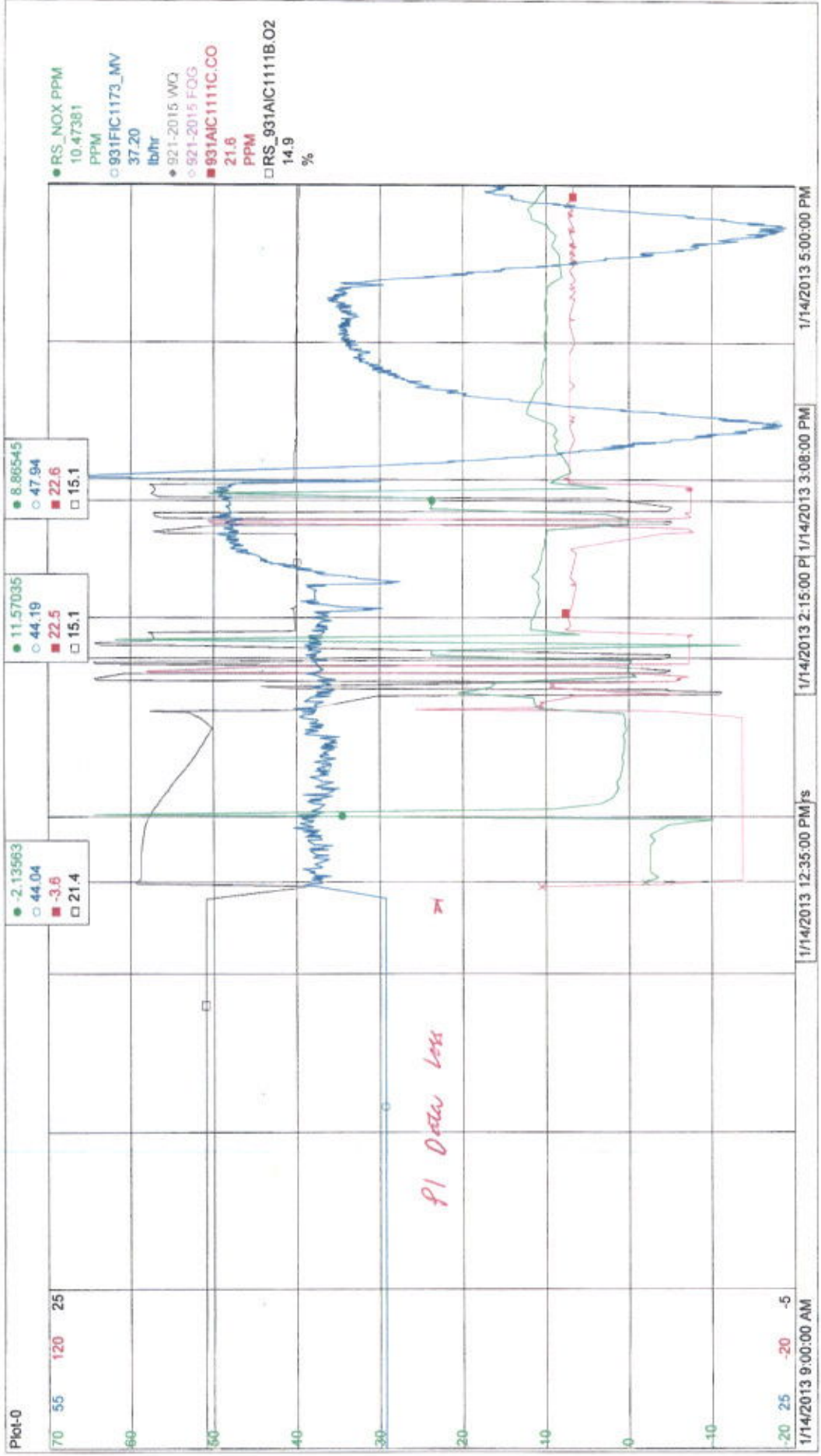
NAME:

Rob

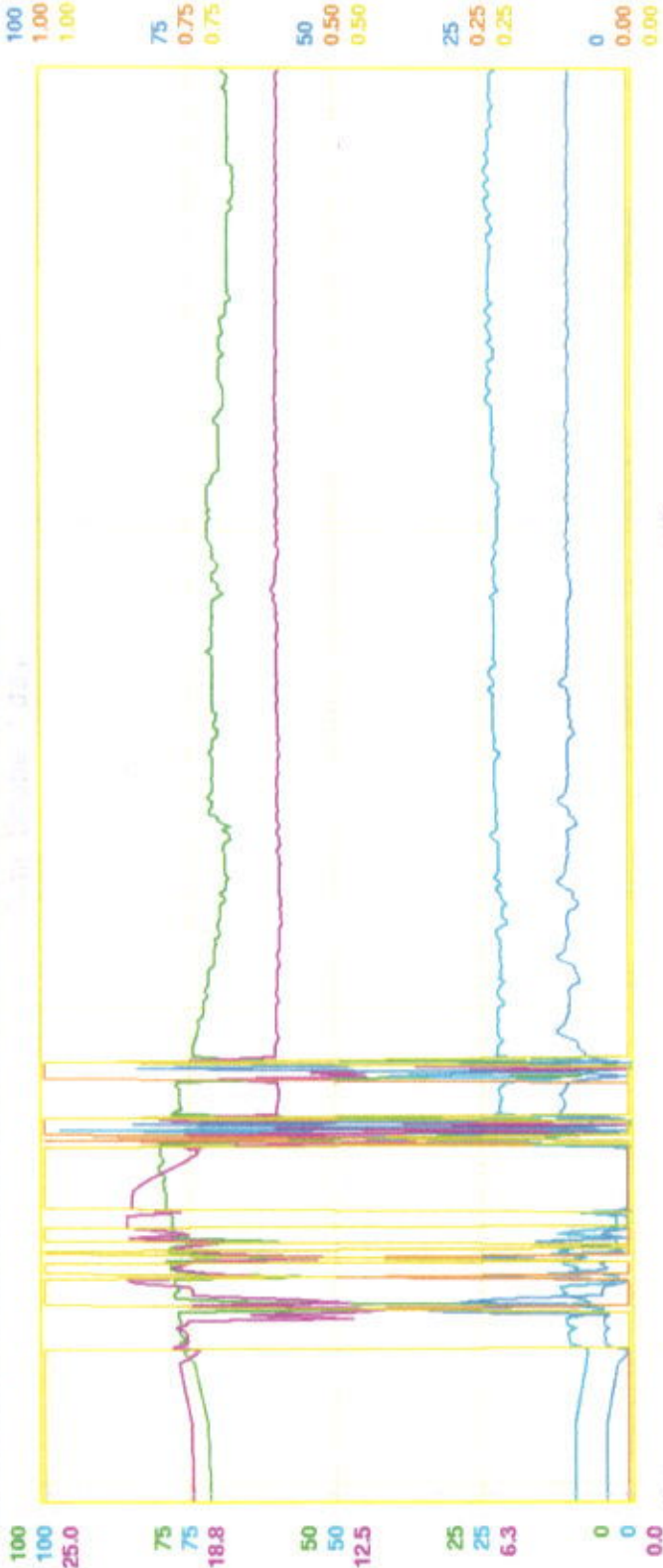
OFFICIAL DAILY COGENERATION LOG

EMICAL PUMPS	Level	Feed Rate ml/min	NEBRASKA DELIVERY	PERMATE H ₂ O CONCENTRATE H ₂ O	SCG LP	TURBINE	GAS & ELECTRIC READING	DAY SHIFT	NIGHT SHIFT
Alkanole 5.9 ml/min			19:00	17:00	3:00	5:00			
Central 5.3 ml/min			18:00	16:00	2:00	4:00			
Polymer 5.8 ml/min			17:00	15:00	1:00	3:00			
Caustic (as needed)			16:00	14:00	12:00	2:00			
FSR	%		15:00	13:00	11:00	10:00			
Inlet Temp	°F		14:00	12:00	10:00	9:00			
Humidity	%		13:00	11:00	9:00	8:00			
Vibration (Max)	MILS		12:00	10:00	8:00	7:00			
Steam Injection	#/SEC		11:00	9:00	7:00	6:00			
Turbine L.O. Level	%		10:00	8:00	6:00	5:00			
TAB	°F		9:00	7:00	5:00	4:00			
NEBRASKA BOILER Boiler Feedwater: pH 8.75-9.5, Conductivity <3mmhos, Silica <20 ppb R.O. Feed: TDS<1000 ppm, Perm. TDS<10 ppm, pH (Feed 7.5) CONDENSATE: HP-pH 8.5-9.5, Conductivity<20mmhos, LP-pH 8.5-9.5, Conductivity<20mmhos HP: pH 9.5-10.5, Conductivity 75-150, Phosphate 5-15 ppm, Silica <5 ppm Iron ppm LP: pH 9.5-10.5, Conductivity 75-150, Phosphate 5-15 ppm, Silica <5 ppm Iron ppm MIXED BED: pH 6.0-7.5, Conductivity<1mmhos, Silica <10 ppb HP Steam Test: Silica <20 ppb SOFTNER: Hardness <1.0 ppm, Running (1 or 2) NEBRASKA: pH 9.5-10.5, Conductivity 75-200, Silica Phosphate 5-25 ppm, STEAM TEST: Silica <20 ppb PV NO.2: Mayboate >200 ppm NOTES:									
COGEN BOILER 450 Header Temp IN: 7:00 70, 8:00 70, 9:00 70, 10:00 70, 11:00 70, 12:00 70, 13:00 70, 14:00 70, 15:00 70, 16:00 70, 17:00 70, 18:00 70, 19:00 70, 20:00 70, 21:00 70, 22:00 70, 23:00 70, 24:00 70 LP Drum Level IN: 7:00 8.2, 8:00 8.2, 9:00 8.2, 10:00 8.2, 11:00 8.2, 12:00 8.2, 13:00 8.2, 14:00 8.2, 15:00 8.2, 16:00 8.2, 17:00 8.2, 18:00 8.2, 19:00 8.2, 20:00 8.2, 21:00 8.2, 22:00 8.2, 23:00 8.2, 24:00 8.2 HP Drum Pressure PSI: 7:00 49.2, 8:00 49.2, 9:00 49.2, 10:00 49.2, 11:00 49.2, 12:00 49.2, 13:00 49.2, 14:00 49.2, 15:00 49.2, 16:00 49.2, 17:00 49.2, 18:00 49.2, 19:00 49.2, 20:00 49.2, 21:00 49.2, 22:00 49.2, 23:00 49.2, 24:00 49.2 LP Drum Pressure PPM: 7:00 151, 8:00 151, 9:00 151, 10:00 151, 11:00 151, 12:00 151, 13:00 151, 14:00 151, 15:00 151, 16:00 151, 17:00 151, 18:00 151, 19:00 151, 20:00 151, 21:00 151, 22:00 151, 23:00 151, 24:00 151 CO: 7:00 9.5, 8:00 9.5, 9:00 9.5, 10:00 9.5, 11:00 9.5, 12:00 9.5, 13:00 9.5, 14:00 9.5, 15:00 9.5, 16:00 9.5, 17:00 9.5, 18:00 9.5, 19:00 9.5, 20:00 9.5, 21:00 9.5, 22:00 9.5, 23:00 9.5, 24:00 9.5 NOX: 7:00 19.2, 8:00 19.2, 9:00 19.2, 10:00 19.2, 11:00 19.2, 12:00 19.2, 13:00 19.2, 14:00 19.2, 15:00 19.2, 16:00 19.2, 17:00 19.2, 18:00 19.2, 19:00 19.2, 20:00 19.2, 21:00 19.2, 22:00 19.2, 23:00 19.2, 24:00 19.2 O2: 7:00 16.3, 8:00 16.3, 9:00 16.3, 10:00 16.3, 11:00 16.3, 12:00 16.3, 13:00 16.3, 14:00 16.3, 15:00 16.3, 16:00 16.3, 17:00 16.3, 18:00 16.3, 19:00 16.3, 20:00 16.3, 21:00 16.3, 22:00 16.3, 23:00 16.3, 24:00 16.3 Hot Well Level %: 7:00 16.3, 8:00 16.3, 9:00 16.3, 10:00 16.3, 11:00 16.3, 12:00 16.3, 13:00 16.3, 14:00 16.3, 15:00 16.3, 16:00 16.3, 17:00 16.3, 18:00 16.3, 19:00 16.3, 20:00 16.3, 21:00 16.3, 22:00 16.3, 23:00 16.3, 24:00 16.3									
GENERATOR Gen. Bearing Drain °F: 7:00 15.3, 8:00 15.3, 9:00 15.3, 10:00 15.3, 11:00 15.3, 12:00 15.3, 13:00 15.3, 14:00 15.3, 15:00 15.3, 16:00 15.3, 17:00 15.3, 18:00 15.3, 19:00 15.3, 20:00 15.3, 21:00 15.3, 22:00 15.3, 23:00 15.3, 24:00 15.3 L.O. Supply °F: 7:00 12.8, 8:00 12.8, 9:00 12.8, 10:00 12.8, 11:00 12.8, 12:00 12.8, 13:00 12.8, 14:00 12.8, 15:00 12.8, 16:00 12.8, 17:00 12.8, 18:00 12.8, 19:00 12.8, 20:00 12.8, 21:00 12.8, 22:00 12.8, 23:00 12.8, 24:00 12.8 Gen. Vibration (Max) IPS: 7:00 1.3, 8:00 1.3, 9:00 1.3, 10:00 1.3, 11:00 1.3, 12:00 1.3, 13:00 1.3, 14:00 1.3, 15:00 1.3, 16:00 1.3, 17:00 1.3, 18:00 1.3, 19:00 1.3, 20:00 1.3, 21:00 1.3, 22:00 1.3, 23:00 1.3, 24:00 1.3 Tie Line MW: 7:00 13.1, 8:00 13.1, 9:00 13.1, 10:00 13.1, 11:00 13.1, 12:00 13.1, 13:00 13.1, 14:00 13.1, 15:00 13.1, 16:00 13.1, 17:00 13.1, 18:00 13.1, 19:00 13.1, 20:00 13.1, 21:00 13.1, 22:00 13.1, 23:00 13.1, 24:00 13.1									
COMPRESSORS Filter Separator PSI: 7:00 2.2, 8:00 2.2, 9:00 2.2, 10:00 2.2, 11:00 2.2, 12:00 2.2, 13:00 2.2, 14:00 2.2, 15:00 2.2, 16:00 2.2, 17:00 2.2, 18:00 2.2, 19:00 2.2, 20:00 2.2, 21:00 2.2, 22:00 2.2, 23:00 2.2, 24:00 2.2 Gas Receiver PSI: 7:00 4.2, 8:00 4.2, 9:00 4.2, 10:00 4.2, 11:00 4.2, 12:00 4.2, 13:00 4.2, 14:00 4.2, 15:00 4.2, 16:00 4.2, 17:00 4.2, 18:00 4.2, 19:00 4.2, 20:00 4.2, 21:00 4.2, 22:00 4.2, 23:00 4.2, 24:00 4.2									
NEBRASKA BOILER Drum Level IN: 7:00 2.2, 8:00 2.2, 9:00 2.2, 10:00 2.2, 11:00 2.2, 12:00 2.2, 13:00 2.2, 14:00 2.2, 15:00 2.2, 16:00 2.2, 17:00 2.2, 18:00 2.2, 19:00 2.2, 20:00 2.2, 21:00 2.2, 22:00 2.2, 23:00 2.2, 24:00 2.2 Drum Pressure PSI: 7:00 4.2, 8:00 4.2, 9:00 4.2, 10:00 4.2, 11:00 4.2, 12:00 4.2, 13:00 4.2, 14:00 4.2, 15:00 4.2, 16:00 4.2, 17:00 4.2, 18:00 4.2, 19:00 4.2, 20:00 4.2, 21:00 4.2, 22:00 4.2, 23:00 4.2, 24:00 4.2 Steam Flow #/HR: 7:00 4.2, 8:00 4.2, 9:00 4.2, 10:00 4.2, 11:00 4.2, 12:00 4.2, 13:00 4.2, 14:00 4.2, 15:00 4.2, 16:00 4.2, 17:00 4.2, 18:00 4.2, 19:00 4.2, 20:00 4.2, 21:00 4.2, 22:00 4.2, 23:00 4.2, 24:00 4.2 Steam Temp °F: 7:00 4.2, 8:00 4.2, 9:00 4.2, 10:00 4.2, 11:00 4.2, 12:00 4.2, 13:00 4.2, 14:00 4.2, 15:00 4.2, 16:00 4.2, 17:00 4.2, 18:00 4.2, 19:00 4.2, 20:00 4.2, 21:00 4.2, 22:00 4.2, 23:00 4.2, 24:00 4.2 HDX PPM: 7:00 4.2, 8:00 4.2, 9:00 4.2, 10:00 4.2, 11:00 4.2, 12:00 4.2, 13:00 4.2, 14:00 4.2, 15:00 4.2, 16:00 4.2, 17:00 4.2, 18:00 4.2, 19:00 4.2, 20:00 4.2, 21:00 4.2, 22:00 4.2, 23:00 4.2, 24:00 4.2 O2 %: 7:00 4.2, 8:00 4.2, 9:00 4.2, 10:00 4.2, 11:00 4.2, 12:00 4.2, 13:00 4.2, 14:00 4.2, 15:00 4.2, 16:00 4.2, 17:00 4.2, 18:00 4.2, 19:00 4.2, 20:00 4.2, 21:00 4.2, 22:00 4.2, 23:00 4.2, 24:00 4.2 Blow Down Conductivity MHOS: 7:00 4.2, 8:00 4.2, 9:00 4.2, 10:00 4.2, 11:00 4.2, 12:00 4.2, 13:00 4.2, 14:00 4.2, 15:00 4.2, 16:00 4.2, 17:00 4.2, 18:00 4.2, 19:00 4.2, 20:00 4.2, 21:00 4.2, 22:00 4.2, 23:00 4.2, 24:00 4.2 ON LINE TURBINE WATER WASH: 7:00 4.2, 8:00 4.2, 9:00 4.2, 10:00 4.2, 11:00 4.2, 12:00 4.2, 13:00 4.2, 14:00 4.2, 15:00 4.2, 16:00 4.2, 17:00 4.2, 18:00 4.2, 19:00 4.2, 20:00 4.2, 21:00 4.2, 22:00 4.2, 23:00 4.2, 24:00 4.2 BOILER FEED WATER PUMP OPERATION: 7:00 4.2, 8:00 4.2, 9:00 4.2, 10:00 4.2, 11:00 4.2, 12:00 4.2, 13:00 4.2, 14:00 4.2, 15:00 4.2, 16:00 4.2, 17:00 4.2, 18:00 4.2, 19:00 4.2, 20:00 4.2, 21:00 4.2, 22:00 4.2, 23:00 4.2, 24:00 4.2 NO. 1 YES NO NO. 2 YES NO									

DATE: 1-13-13 SAFETY IS ALWAYS NO. 1



RSMT_4-20MA_ROSEMOUNT_CEMS_VALUES



ON Name	Description	Attribute	Treatment	Ruler Time	Ruler Value	Current Value	Unit	Filter	Time Offset	Form
931AIC1111A.NOX	B&W SCR INLET NOX	MV	Mom	07:00 2013-01-14	71.61	11.37	PPM			
931AIC1111C.CO	B&W BLR STACK RAW CO	MV	Mom	07:00 2013-01-14	9.36	0.65	PPM			
931AIC1111B.O2	B&W BLR RAW O2%	MV	Mean	07:00 2013-01-14	16.58	20.69	%			
931AIC1111D.NOX	B&W BLR STACK NOX	MV	Mean	07:00 2013-01-14	3.93	0.31	PPM			
931-AIC-1111.INCAL	RSMT CEMS IN CAL	MV	Mom	07:00 2013-01-14	0	1				
931-aic-1111.trb	RSMT CEMS TROUBLE	MV	Mom	07:00 2013-01-14	1	0				

D1 30 minutes D2 1 hour D3 8 hours D4 10 days
 D5 10 days
 D6 Positioning... D7 Trace Control... D8 Analyze... D9 Trace Config... D10 Extended Config...



DRY SHIFT OPERATOR

DRY SHIFT OPERATOR

NAME: 2013

NAME: MH

EMICAL PUMPS		NEBRASKA		STEAM & WATER READINGS		NEBRASKA WARM STORAGE CHECK		SOG LP		TURBINE		GAS & ELECTRIC READING		BOILER TEST RESULTS											
Level	Feed Rate ml/min	NEBRASKA	PERMATE H ₂ O CONCENTRATE H ₂ O	PERMATE H ₂ O	CONCENTRATE H ₂ O	NEBRASKA	WATER	HP	HP	HP	NO	NO	MAXON	BURNER	NEBRASKA	NEBRASKA	WAGAWATS								
Steam 3.9 ml/min	Control 5.3 ml/min	01142586	4011760	5695990	20.2-14	2191	1235920	1303280	551843	1303280	551843	694068	551843	694068	551843	800100	800100								
Polymer 6.8 ml/min	Caustic (as needed)	01078531	4003083	56908274	200554	2053	1208010	0933850	448777	0933850	448777	687199	448777	687199	448777	1945-9	1945-9								
TURBINE		7:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00	BOILER FEEDWATER												
FSR	%	52.3	53.0	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	pH 8.75-9.5												
Inlet Temp	°F	49	58	58	58	58	58	58	58	58	58	58	Conductivity < 5mmhos												
Humidity	%	8.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	Silica < 20 ppb												
Vibration (Max)	MILS	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	R.O.												
Steam Injection	#/SEC	3.80	3.74	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	Feed TDS < 1000 ppm												
Turbine L.O. Level	%	80	80	80	80	80	80	80	80	80	80	80	Permeate TDS < 10 ppm												
TAB	°F	141	141	141	141	141	141	141	141	141	141	141	pH (Feed 7.5)												
GENERATOR		BATTERIES		V HP RECOURSE		V HP RECOURSE		V HP RECOURSE		V HP RECOURSE		V HP RECOURSE		CONDENSATE		CONDENSATE									
Gen. Bearing Drain	°F	153	154	154	154	154	154	154	154	154	154	154	HP-pH 8.5-9.5												
L.O. Supply	°F	129	130	134	134	134	134	134	134	134	134	134	Conductivity < 20mmhos												
Gen. Vibration (Max)	IPS	3.9	4.5	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	LP-pH 8.5-9.5												
Tie Line	MW	130.3	130.0	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.4	Conductivity < 20mmhos												
COGEN BOILER		GEN.		MEGA WARS		MEGA WARS		MEGA WARS		MEGA WARS		MEGA WARS		MIXED BED		MIXED BED									
450 Header Temp	°F	710	710	710	710	710	710	710	710	710	710	710	pH 9.5 - 10.5												
HP Drum Level	IN	1	1	1	1	1	1	1	1	1	1	1	Conductivity 75-150												
LP Drum Level	IN	1	1	1	1	1	1	1	1	1	1	1	Phosphate 5-15 ppm												
HP Drum Pressure	PSI	487	489	489	489	489	489	489	489	489	489	489	Silica < 5 ppm												
LP Drum Pressure	PSI	150	150	150	150	150	150	150	150	150	150	150	Iron ppm												
CO	PPM	24.5	59L	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	Conductivity < 1mmhos												
NOX	PPM	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	Silica < 10 ppb												
Hot Well Level	%	12.9	14.1	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	HP Steam Teel												
COMPRESSORS		1150 SET POINT		1103 B SET POINT		1103 B SET POINT		1103 B SET POINT		1103 B SET POINT		1103 B SET POINT		SOFTNER		SOFTNER									
Filter Separator	PSI	221	229	231	231	231	231	231	231	231	231	231	Hardness < 1.0 ppm												
Gas Receiver	PSI	425	425	425	425	425	425	425	425	425	425	425	Running (1 or 2)												
NEBRASKA BOILER		7:00		9:00		11:00		13:00		15:00		17:00		19:00		21:00		23:00		1:00		3:00		5:00	
Drum Level	IN																								
Drum Pressure	PSI																								
Steam Flow	#/HR																								
Steam Temp	°F																								
NOX	PPM																								
Blow Down Conductivity	MROS																								
ON LINE TURBINE WATER WASH		7:00		9:00		11:00		13:00		15:00		17:00		19:00		21:00		23:00		1:00		3:00		5:00	
BOILER FEED WATER PUMP OPERATION		NO		NO		NO		NO		NO		NO		NO		NO		NO		NO		NO		NO	
NO. 1		NO. 2		NO. 3		NO. 4		NO. 5		NO. 6		NO. 7		NO. 8		NO. 9		NO. 10		NO. 11		NO. 12		NO. 13	

OFFICIAL DAILY COGENERATION LOG

NOTES:
 0 Fuel Hydro for water to furnace 40 c/y
 New demin tower
 Permeate: 40040030
 Concentrate: 56925033
 Meter: 2193.2 (100)

SAFETY IS ALWAYS NO. 1

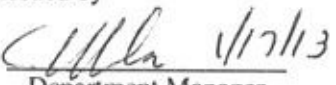
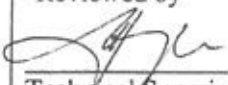

DATE: 1-14-13

Hueneme Paper Mill

FORM 900-3011 - REV. 1

Hueneme Mill Environmental Incident Report

Shaded section to be completed by the EMR

Name of Incident Stack CEM's Analyzer O2 Drift		Incident 1/12/13	
Exact Location Incident Cogen			
Reported By Rudy Rehbein	Estimated Start and Stop Times of Incident: 1/11/13 approx 10:00 PM – 1/14/13 approx 3:00 PM		Possible Cause: Cracked fitting in sample handling chiller
Incident Type: <input checked="" type="checkbox"/> Spill Internal <input type="checkbox"/> Disposal <input checked="" type="checkbox"/> Spill External <input type="checkbox"/> X Air Emission <input checked="" type="checkbox"/> Other	<input checked="" type="checkbox"/> Improper Waste <input type="checkbox"/> Near miss or below spill release guidelines	Released To <input checked="" type="checkbox"/> Storm Water System <input checked="" type="checkbox"/> Process Sewer <input checked="" type="checkbox"/> Ground (External) <input checked="" type="checkbox"/> Near Miss <input checked="" type="checkbox"/> Other	
		<input checked="" type="checkbox"/> Secondary Containment <input checked="" type="checkbox"/> X Air <input checked="" type="checkbox"/> Ground (Inside Mill Property)	
Detailed Description of Event On Saturday 1/12/13 after the 10:30 AM calibration, the call team member observed the following: (1) increasing drift on stack O2; and (2) low raw stack NOx. Technicians were called in to troubleshoot and APCD was notified at about 1:30 PM. The two technicians were unable to resolve the issue. On Monday 1/14/13, CEMS specialist was called in. After extensive troubleshooting, a cracked fitting was discovered at the bottom of the sample handling chiller assembly. Fittings were replaced and manual calibration was completed at 3:08 PM. <i>(if required use additional paper and attach)</i>			
Estimated Amount Released <input checked="" type="checkbox"/> _____ Gallons <input type="checkbox"/> _____ Pounds <input checked="" type="checkbox"/> Other _____		pH	CONSISTENCY (%)
Estimated Monetary Loss			
List Any External Emergency Clean Up Personnel Contacted N/A		List Any External Agencies Contacted (Agency, person and time of call.) APCD @ about 1:30 PM.	
List Hueneme Personnel Contacted (Foreman, Mill Manager, etc.) Victor Kumpera		Any Acute or Chronic Health Risks (refer to MSDS) N/A	
Describe Any Emergency Response Actions Called E&I to troubleshoot			
Suggestions to Prevent Reoccurrence			Estimated Completion Date
1. Order a spare chiller assembly			1. 3/15/13
2.			2.
3.			3.
4.			4.
Root Cause after investigation Cracked fitting causing air leak in sample handler.		Severity Level (level 1 and 2 must be tracked through SHIMS) <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	
Investigated By: Lars Gustavson		Investigated Date 1/14/2013	
Follow Up		By When	Completion Date
Issued by  Department Manager	Reviewed by  Technical Superintendent	Approved by  Mill Manager	

Print Time: 1/16/2013 11:43:04 AM

Note: This document is valid for only ONE week after print time!

NEW WINDY

CONTAINERBOARD

January 17, 2013

Lyle Olson
Ventura County Air Pollution Control District
669 County Square Drive, Second Floor
Ventura, CA 93003

Subject: PI data loss due to failed transceivers

Dear Mr. Olson:

This letter is a follow up on the calls made to the VCAPCD Breakdown Center Hotline on January 13, 2013 at 2:30 PM by Rudy Rehbein and on January 14, 2013 at 9:08 AM by Robyn Lebrilla.

During emission review at about 11:00 AM on January 13, 2013, a weekend call duty member noticed emission PI data loss. IT support was contacted to resolve the issue. After resetting PI interfaces, the network connection between ABB and PI was restored. On the following day, emission review at 8:00 AM revealed another PI data loss issue. The ABB specialist found that the data loss was due to a partial failure of multiple tap points into the ABB process network. These failures did not result in ABB process network data loss but PI did not get the data in a timely manner. After replacing the two transceivers that failed, the network connection was restored. The PI data integrity loss on January 13, 2012 was from 5:35 AM – 1:18 PM and from 3:30 AM – 12:35 PM on January 14, 2013, a total of 16.8 hours. There was no excess emission based on ABB emission data.

The Daily Emission Sheets, PI trends, DCS trends, Cogen Reports and Environmental Incident Report have been provided for your review. If you have any questions or require any additional information, please call me at (805) 271-7284.

Sincerely,



Robyn Lebrilla
Environmental Engineer

NEW INDY OXNARD, LLC

5936 PERKINS ROAD • OXNARD, CALIFORNIA 93033 • WWW.NEWINDYCONTAINERBOARD.COM
PHONE (805) 986-3881 • FAX (805) 488-5186

DAILY ENVIRONMENTAL REPORT

1/13/2013 7:00

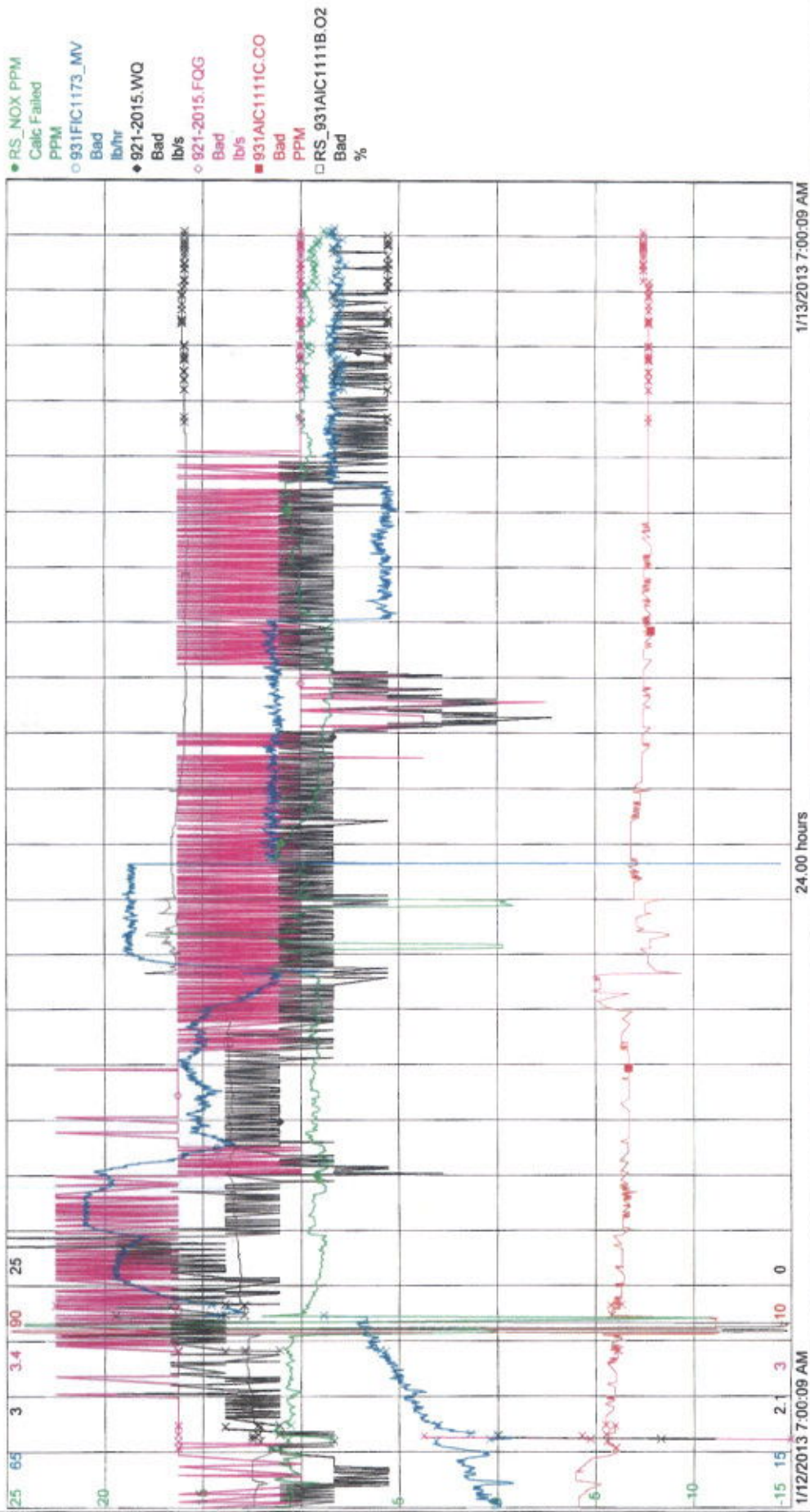
1/13/2013 7:00

1/13/2013 7:00

Time	Dust Inlet MFC/FI	Turbine gas flow MFC/FI	SCR Temperature °F	SCR Inlet NOx ppm	Aeronaux Usage lb/h	NOx mole ratio	Injection steam rate lb/h	Steam to air ratio lb/lb	NOx lb/h	Stack CO %	Stack CO ppm	3h Running Average NOx	H2/H2S CO %	H2/H2S NOx %	Netstacks Corrected NOx (@ 3% O ₂)	Daily Air Cogen NOx lb/h	Daily Air Cogen NOx lb/h	
8:00	17.06	266.74	625.95	68.98	34.93	1.33	2.63	0.80	11.11	25.44	16.47	10.91	24.46	-3.17				
9:00	32.97	270.46	650.35	70.79	37.53	1.34	2.68	0.81	12.06	20.73	14.66	10.89	24.45	-1.88				
10:00	21.98	271.87	639.86	72.30	40.28	1.39	2.76	0.83	11.48	20.73	13.76	10.86	24.43	-2.35				
11:00	19.10	272.85	636.16	77.91	54.18	1.76	2.78	0.83	10.28	21.25	13.96	10.24	24.43	-2.20				
12:00	18.24	274.90	637.58	78.00	57.53	1.85	2.80	0.83	9.77	21.13	13.84	9.68	24.47	-2.40				
13:00	15.85	275.72	636.47	80.18	59.40	1.85	2.72	0.81	10.09	21.17	13.90	9.23	24.49	-2.37				
14:00	17.12	271.13	634.15	77.18	53.92	1.78	2.69	0.81	9.71	21.90	14.32	9.13	24.49	-2.12				
15:00	19.22	271.47	638.40	76.89	52.77	1.73	2.72	0.82	10.03	21.28	13.91	9.32	24.45	-2.26				
16:00	15.70	271.14	633.05	76.50	52.85	1.76	2.67	0.81	9.82	22.45	14.59	9.24	24.56	-2.45				
17:00	14.49	268.86	630.66	72.44	50.41	1.79	2.64	0.81	10.07	20.50	14.37	9.62	24.50	-1.96				
18:00	13.24	269.62	629.01	67.99	57.08	2.09	2.65	0.81	9.91	48.56	30.13	9.06	24.55	-1.52				
19:00	16.31	268.74	629.66	67.61	53.39	2.03	2.66	0.81	10.46	50.18	32.21	10.23	24.37	-1.24				
20:00	17.89	267.39	628.99	66.58	48.05	1.87	2.65	0.81	10.47	45.78	30.11	9.85	24.42	-1.26				
21:00	18.37	267.17	628.57	66.29	47.89	1.86	2.66	0.81	9.49	35.22	22.80	8.68	24.44	-1.33				
22:00	20.97	263.86	629.28	60.33	47.77	1.85	2.53	0.79	9.64	32.11	20.92	8.56	24.45	-1.28				
23:00	19.73	267.20	629.80	60.30	48.00	1.84	2.64	0.81	9.10	30.96	20.39	8.69	24.47	-1.10				
0:00	18.83	269.04	629.55	60.56	41.27	1.58	2.66	0.81	10.44	30.72	20.02	9.09	24.45	-1.50				
1:00	18.57	269.28	627.77	67.27	41.91	1.56	2.66	0.81	10.97	29.84	18.76	9.89	24.45	-1.28				
2:00	17.83	267.53	627.77	68.44	42.45	1.58	2.63	0.81	10.93	28.81	18.19	10.30	24.45	-1.28				
3:00	16.47	266.35	626.42	68.47	44.18	1.67	2.59	0.80	10.22	30.56	19.43	9.77	24.48	-1.26				
4:00	15.71	266.35	625.24	67.90	44.00	1.67	2.59	0.80	10.10	31.00	18.71	9.74	24.48	-1.30				
5:00	16.93	266.35	624.89	66.86	43.94	1.69	2.59	0.80	10.13	32.26	20.58	9.69	24.48	-1.33				
6:00	18.83	269.35	625.25	65.48	43.83	1.72	2.57	0.79	9.51	33.34	21.32	9.16	24.49	-1.37				
7:00	18.38	268.35	625.45	64.69	44.23	1.76	2.62	0.80	9.28	33.71	21.64	8.78	24.49	-1.37				
Comments :	Called APCD for CEMS O2 drift on 1/13/13 @ 1:30 PM. Technicians called in to troubleshoot. Can't find the potential air leak into sample line. OEM on schedule for Monday.																	
	Good Data For Good Data For																	

PRINT TIME: 1/13/2013 11:23 AM
 NOTE: This document is valid for only ONE week after print time

Plot-0

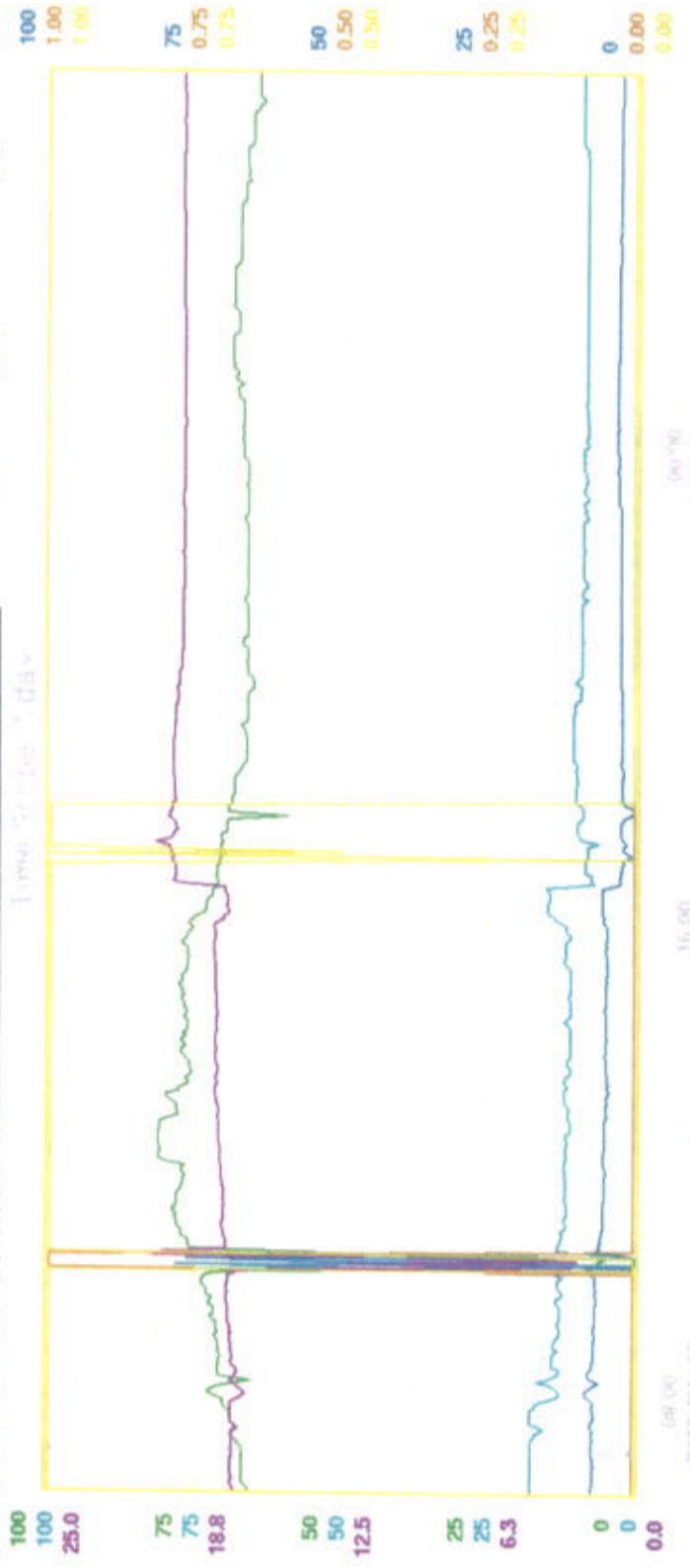


1/13/2013 7:00:09 AM

24.00 hours

1/12/2013 7:00:09 AM

931LIC1221
 RSM1_4-20VA ROSEMOUNT CEMS VALUES
 COGEN
 2013-01-14 08:38
 3601 (HM) MEDIUM
 SFNR BRINE TANK LVL MV > HI 06:39:01



ON/Name	Description	Attribute	Treatment	Ruler Time	Ruler Value	Current Value	Unit	Filter	Time Offset	Form
931AIC1111A.NOX	B&W SCR INLET NOX	MV	Mom	07-04 2013-01-12	66.61	71.00	PPM			
931AIC1111C.CO	B&W BLR STACK RAW CO	MV	Mom	07-04 2013-01-12	17.22	9.03	PPM			
931AIC1111B.O2	B&W BLR RAW O2%	MV	Mean	07-04 2013-01-12	17.14	18.71	%			
931AIC1111D.NOX	B&W BLR STACK NOX	MV	Mean	07-04 2013-01-12	8.73	3.73	PPM			
931-AIC-1111J.NCAL	RSM1 CEMS IN CAL	MV	Mom	07-04 2013-01-12	0	0				
931-aic-1111I.trb	RSM1 CEMS TROUBLE	MV	Mom	07-04 2013-01-12	1	1				

68:00 2013-01-12 16:00 90:00 2013-01-13

D1 30 minutes 1 hour 8 hours 10 days
 D2 1 hour 8 hours 10 days
 D3 Trace Control... Analyze... Trace Config... Extended Config...
 D4 Analyze... Trace Config... Extended Config...
 D5 8 hours 10 days
 D6 Positioning... Trace Control... Analyze... Trace Config... Extended Config...
 D7 Trace Control... Analyze... Trace Config... Extended Config...
 D8 Analyze... Trace Config... Extended Config...
 D9 Trace Config... Extended Config...
 D10 Extended Config...



DRY SHIFT OPERATOR

DRY SHIFT OPERATOR

NAME: *RFB*

OFFICIAL DAILY COGENERATION LOG

MEASUREMENT	NEBRASKA		PERMATE H ₂ O		CONCENTRATE H ₂ O		STEAM & WATER READINGS		NEBRASKA WARM STORAGE CHECK		BOILER TEST RESULTS					
	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	HP	SCC LP	TURBINE	MAXON	BURNER	NEBRASKA	MEGAWATTS
Level																
Storage 3.9 ml/min																
Current	54.1	60.2	7.1	5.9	5.7	5.4	5.2	5.3	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Humidity	4.6	5.2	5.9	5.7	5.4	5.2	5.3	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Vibration (Max)	2.0	1.8	1.7	1.9	1.7	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Steam Injection	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Turbine L.O. Level	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
148	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
Gen. Bearing Drain	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
L.O. Supply	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Gen. Vibration (Max)	3.2	4.1	4.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Tie Line	13.5	10.3	12.4	12.4	13	13	12.9	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
450 Header Temp	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
HP Drum Level	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
LP Drum Level	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
HP Drum Pressure	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
LP Drum Pressure	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
CO	20.7	20.3	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
NOX	9.9	10.2	9.1	9.1	9.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
O2	10.8	17.2	17.7	17.7	17.3	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
Hot Well Level	15.6	15.2	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
Filter Separator	2.25	2.27	2.31	2.31	2.31	2.29	2.24	2.29	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31
Gas Receiver	4.20	4.21	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
Drum Level	7.00	9.00	11.00	13.00	15.00	17.00	19.00	21.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00
Drum Pressure																
Steam Flow																
Steam Temp																
NOX																
O2																
Blow Down Conductivity MHOS																
ON LINE TURBINE WATER WASH																
NEBRASKA BOILER																
COMPRESSORS																
COGEN BOILER																
GENERATOR																
TURBINE																

NOTES: *CO AGUMENT BUT SAGGIN TOLERANCE*

DATE: *1-12-13*

SAFETY IS ALWAYS NO. 1

Hueneme Paper Mill

FORM 1000

DAILY ENVIRONMENTAL REPORT

1/14/2013 7:50

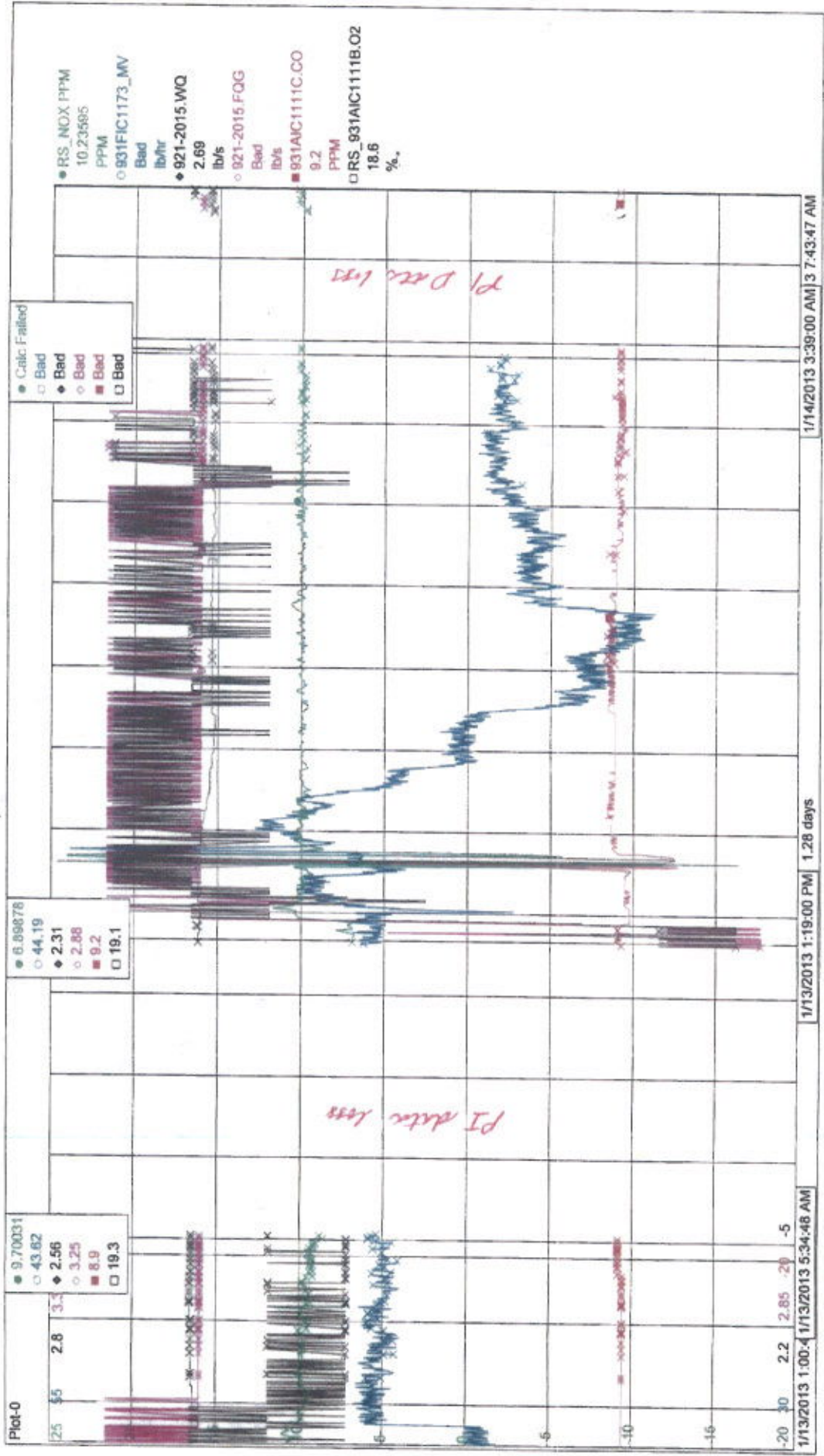
1/14/2013 7:50

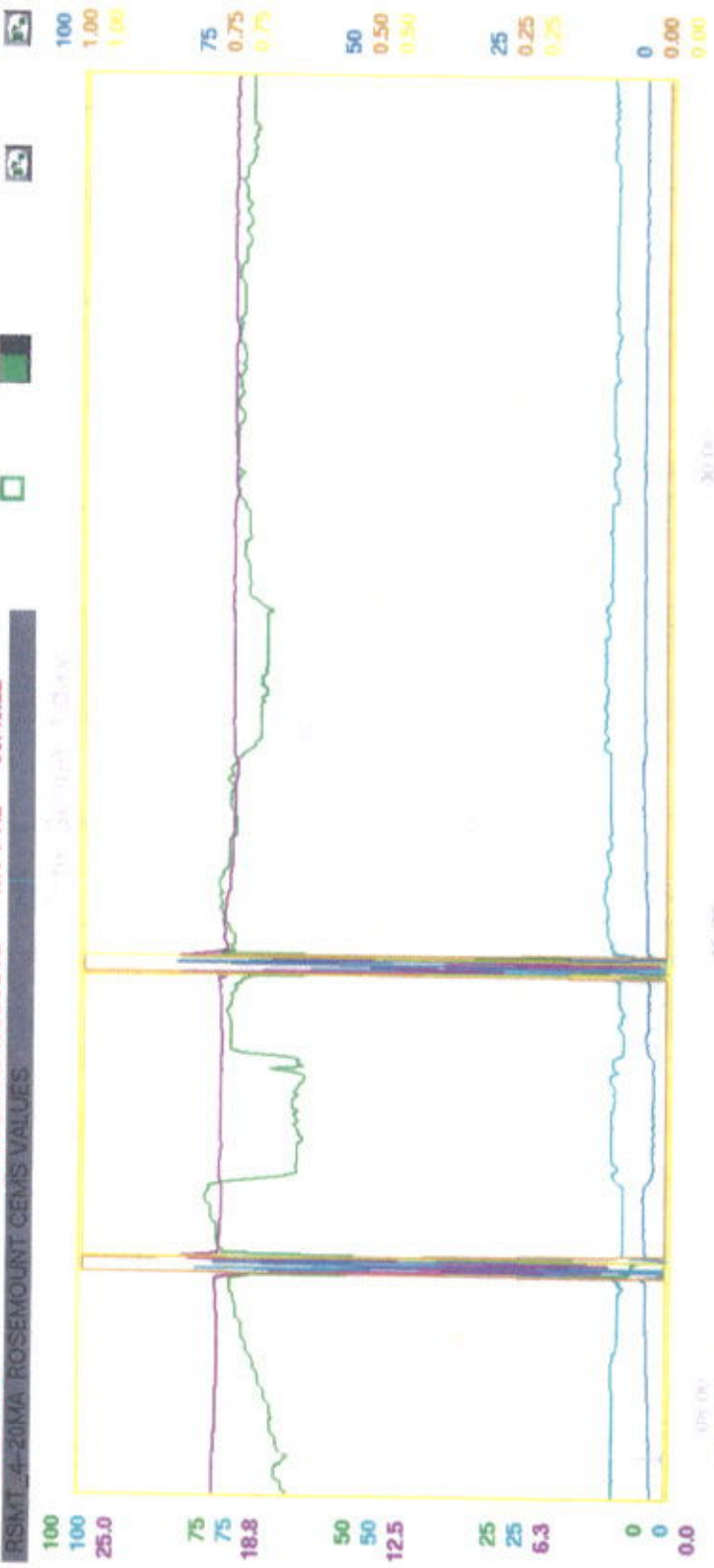
Time	Dist burner/ gas flow MBCFH	Turbine gas flow MBCFH	SCR Temperature °F	SCR ppm	Ammonia lb/hr	NOx/NOx ratio	Injection rate lb/hr	Steam to fuel ratio lb/lb	NOx lb/hr	SO ₂ %	SO ₂ ppm	SO ₂ 15% O ₂ ppm	CO lb/hr	CO 15% O ₂ ppm	Stack NOx ppm	15% O ₂ ppm	NOx Average	NOx lb/hr	NOx % (lb/7% O ₂)	NOx % (lb/7% O ₂)	NOx lb/hr	NOx % (lb/7% O ₂)	NOx lb/hr	NOx % (lb/7% O ₂)	NOx lb/hr	NOx % (lb/7% O ₂)	
8:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	625.91	Good Data For No Good Data For Ck	44.22	1.93	2.30	0.79	7.47	7.72	27.93	16.61	16.61	16.61	16.61	16.61	7.72	7.72	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45
9:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	628.44	Good Data For No Good Data For Ck	45.20	1.81	2.07	0.82	10.41	10.12	26.36	15.67	15.67	15.67	15.67	15.67	8.92	8.92	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71
10:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	627.07	Good Data For No Good Data For Ck	46.02	1.58	2.70	0.83	9.45	9.04	21.52	16.93	16.93	16.93	16.93	16.93	8.96	8.96	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82
11:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	627.25	Good Data For No Good Data For Ck	46.67	1.58	2.72	0.83	10.42	9.94	29.72	18.76	18.76	18.76	18.76	18.76	9.70	9.70	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
12:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	624.42	Good Data For No Good Data For Ck	42.85	1.49	2.72	0.83	10.30	9.94	25.42	16.16	16.16	16.16	16.16	16.16	9.63	9.63	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
13:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	622.22	Good Data For No Good Data For Ck	41.42	1.43	2.72	0.82	10.32	9.94	24.17	15.13	15.13	15.13	15.13	15.13	9.93	9.93	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
14:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	623.53	Good Data For No Good Data For Ck	41.42	1.43	2.72	0.82	10.32	9.94	24.17	15.13	15.13	15.13	15.13	15.13	9.93	9.93	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
15:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	626.16	Good Data For No Good Data For Ck	41.42	1.43	2.72	0.82	10.32	9.94	24.17	15.13	15.13	15.13	15.13	15.13	9.93	9.93	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
16:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	628.46	Good Data For No Good Data For Ck	46.02	1.58	2.70	0.83	9.45	9.04	21.52	16.93	16.93	16.93	16.93	16.93	8.96	8.96	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82
17:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	629.19	Good Data For No Good Data For Ck	46.67	1.58	2.72	0.83	10.42	9.94	29.72	18.76	18.76	18.76	18.76	18.76	9.70	9.70	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
18:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	628.14	Good Data For No Good Data For Ck	42.85	1.49	2.72	0.83	10.30	9.94	25.42	16.16	16.16	16.16	16.16	16.16	9.63	9.63	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
19:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	627.08	Good Data For No Good Data For Ck	41.42	1.43	2.72	0.82	10.32	9.94	24.17	15.13	15.13	15.13	15.13	15.13	9.93	9.93	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
20:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	627.81	Good Data For No Good Data For Ck	37.42	1.42	2.69	0.82	10.18	9.94	26.76	17.01	17.01	17.01	17.01	17.01	9.93	9.93	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
21:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	628.86	Good Data For No Good Data For Ck	36.49	1.39	2.70	0.82	10.30	9.94	26.54	16.86	16.86	16.86	16.86	16.86	9.93	9.93	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
22:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	624.22	Good Data For No Good Data For Ck	37.20	1.39	2.71	0.82	10.50	9.94	25.91	16.34	16.34	16.34	16.34	16.34	9.99	9.99	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
23:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	629.86	Good Data For No Good Data For Ck	30.91	1.40	2.70	0.82	10.45	9.94	24.53	15.57	15.57	15.57	15.57	15.57	9.99	9.99	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
0:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	637.85	Good Data For No Good Data For Ck	30.92	1.33	2.72	0.83	10.84	9.94	22.27	14.65	14.65	14.65	14.65	14.65	10.62	10.62	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
1:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	638.19	Good Data For No Good Data For Ck	30.91	1.35	2.69	0.82	10.99	9.94	23.19	15.48	15.48	15.48	15.48	15.48	10.62	10.62	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
2:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	641.14	Good Data For No Good Data For Ck	40.09	1.37	2.71	0.83	10.99	9.94	22.13	14.95	14.95	14.95	14.95	14.95	10.62	10.62	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
3:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	640.19	Good Data For No Good Data For Ck	39.92	1.37	2.69	0.82	10.99	9.94	22.13	14.95	14.95	14.95	14.95	14.95	10.62	10.62	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
4:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	642.66	Good Data For No Good Data For Ck	39.99	1.35	2.69	0.82	11.09	9.94	22.05	14.85	14.85	14.85	14.85	14.85	10.62	10.62	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
5:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	642.86	Good Data For No Good Data For Ck	39.99	1.35	2.69	0.82	11.09	9.94	22.05	14.85	14.85	14.85	14.85	14.85	10.62	10.62	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
6:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	642.24	Good Data For No Good Data For Ck	39.99	1.35	2.69	0.82	11.09	9.94	22.05	14.85	14.85	14.85	14.85	14.85	10.62	10.62	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
7:00	Good Data For No Good Data For Ck	Good Data For No Good Data For Ck	642.22	Good Data For No Good Data For Ck	39.99	1.35	2.69	0.82	11.09	9.94	22.05	14.85	14.85	14.85	14.85	14.85	10.62	10.62	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84

NOx	CO	SO ₂	Stack CO Analyzer	Stack O ₂ Analyzer
zero value	zero value	zero value	zero value	zero value
zero drift %	zero drift %	zero drift %	zero drift %	zero drift %
span value	span value	span value	span value	span value
span drift %	span drift %	span drift %	span drift %	span drift %

PRINT TIME: 1/14/2013 9:57 AM
NOTE: This document is valid for only ONE week after print time

PI data integrity loss on 1/13/13 from 6:38 AM - 7:18 PM, a total of 3.5 hrs. APCD notified on 1/13/13 at about 2:38 PM.
O₂ still above normal limits - O₂ constant.





ON Name	Description	Attribute	Treatment	Ruler Time	Ruler Value	Current Value	Unit	Filter	Time Offset	Form
931AIC1111A.NOX	BAW SCR INLET NOX	MV	Mom	07-04 2013-01-13	65.08	71.90	PPM			
931AIC1111C.CO	BAW BLR STACK RAW CO	MV	Mom	07-04 2013-01-13	9.94	9.92	PPM			
931AIC1111B.O2	BAW BLR RAW O2%	MV	Mean	07-04 2013-01-13	19.40	19.70	%			
931AIC1111D.NOX	BAW BLR STACK NOX	MV	Mean	07-04 2013-01-13	2.43	3.78	PPM			
931-AIC-1111.INCAL	RSMT CEMS IN CAL	MV	Mom	07-04 2013-01-13	0	0				
931-aic-1111.trb	RSMT CEMS TROUBLE	MV	Mom	07-04 2013-01-13	0	1				

D1 30 minutes	D2 1 hour	D3 8 hours	D5 10 days
D6 Positioning...	D7 Trace Control...	D8 Analyze...	D9 Extended Config...
D10 Trace Config...	D11 1 day	D12 10 days	D13 10 days



DRY SHIFT OPERATOR

DRY SHIFT OPERATOR

NAME:

NAME:

OFFICIAL DAILY COGENERATION LOG

MICAL PUMPS		NEBRASKA		STEAM & WATER READINGS		NEBRASKA WARM STORAGE CHECK		SCG UP		TURBINE		GAS & ELECTRIC READING		BOILER TEST RESULTS	
Level	Feed Rate ml/min	CURRENT	PERMEATE H ₂ O	CONCENTRATE H ₂ O	YES	NO	NEBRASKA	NEBRASKA	HP	HP	SCG UP	YES	NO	DAY SHIFT	NIGHT SHIFT
Stoanide 3.3 ml/min	0.1	9.531	400.3093	569082.74	2005.54	2005.54	20.53	12080.10	0.93	3.95	6.89	19.9	4487.77	MEGAWATTS	
Capite 5.3 ml/min	0.1	8.153	391.8158	568418.69	2003.02	2003.02	20.61	11862.30	0.57	4.94	6.80	18.8	4342.91	NEBRASKA	
Polymer 6.8 ml/min															
Caustic (on needed)															
TURBINE		AMMONIA DELIVERY		% FULL: 6.4 - 4.0		NEBRASKA		NEBRASKA		NEBRASKA		NEBRASKA		NEBRASKA	
FSR	%	7:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00	7:00	9:00	11:00
Inlet Temp	°F	52.7	52.6	52.3	52.6	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
Humidity	%	4.5	5.0	5.7	5.2	5.6	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Vibration (Max)	MILS	20.3	19.3	17.3	17.3	17.5	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
Stream Injection	#/SEC	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Turbine L.O. Level	%	2.63	2.65	2.23	2.74	2.77	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
148	°F	83	83	83	83	83	85	85	85	85	85	85	85	85	85
GENERATOR		BATTERIES		V HP RECOURSE		V HP RECOURSE		V HP RECOURSE		V HP RECOURSE		V HP RECOURSE		V HP RECOURSE	
Gen. Bearing Drain	°F	153	157	157	157	157	157	157	157	157	157	157	157	157	157
L.O. Supply	°F	128	133	133	133	133	133	133	133	133	133	133	133	133	133
Gen. Vibration (Max)	IPS	0.89	0.91	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Tie Line	MW	13.61	12.86	13.01	13.11	13.04	13.08	13.08	13.08	13.08	13.08	13.08	13.08	13.08	13.08
COGEN BOILER		GEN. 475		AMPS		GEN. 5.39		MEGA VARS		GEN. 1.20		AMPS		GEN. 5.7	
450 Header Temp	°F	710	710	710	710	710	710	710	710	710	710	710	710	710	710
HP Drum Level	IN	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LP Drum Level	IN	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
HP Drum Pressure	PSI	49.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
LP Drum Pressure	PSI	151	151	151	151	151	151	151	151	151	151	151	151	151	151
CO	PPM	32.4	29.6	24.1	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
NOX	PPM	9.5	11.8	12.0	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
H ₂ O Well Level	%	19.27	19.27	18.35	18.35	18.65	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
	%	16.3	15.7	15.7	15.7	15.7	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
COMPRESSORS		SCANNER BLOWER		ON		DUCT BURNER		ON		DUCT BURNER		ON		DUCT BURNER	
Filter Separator	PSI	2.27	2.27	2.25	2.37	2.31	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29
Gas Receiver	PSI	4.24	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
NEBRASKA BOILER		DRUM LEVEL		IN		DRUM PRESSURE		PSI		STEAM FLOW		#/HR		STEAM TEMP	
Drum Level	IN	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00	7:00	9:00
Drum Pressure	PSI	151	151	151	151	151	151	151	151	151	151	151	151	151	151
Steam Flow	#/HR	151	151	151	151	151	151	151	151	151	151	151	151	151	151
Steam Temp	°F	425	425	425	425	425	425	425	425	425	425	425	425	425	425
NOX	PPM	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
02	%	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
NEBRASKA BOILER		BLOW DOWN		CONDUCTIVITY		MHOS		BOILER FEED WATER		PUMP OPERATION		NO. 1		NO. 2	
Blow Down	CONDUCTIVITY	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00	7:00	9:00
Water Wash	MHOS	151	151	151	151	151	151	151	151	151	151	151	151	151	151

DATE: 1-13-13

SAFETY IS ALWAYS NO. 1

Hueneema Paper Mill

4004 000-3011 - 0014

MOA 0020

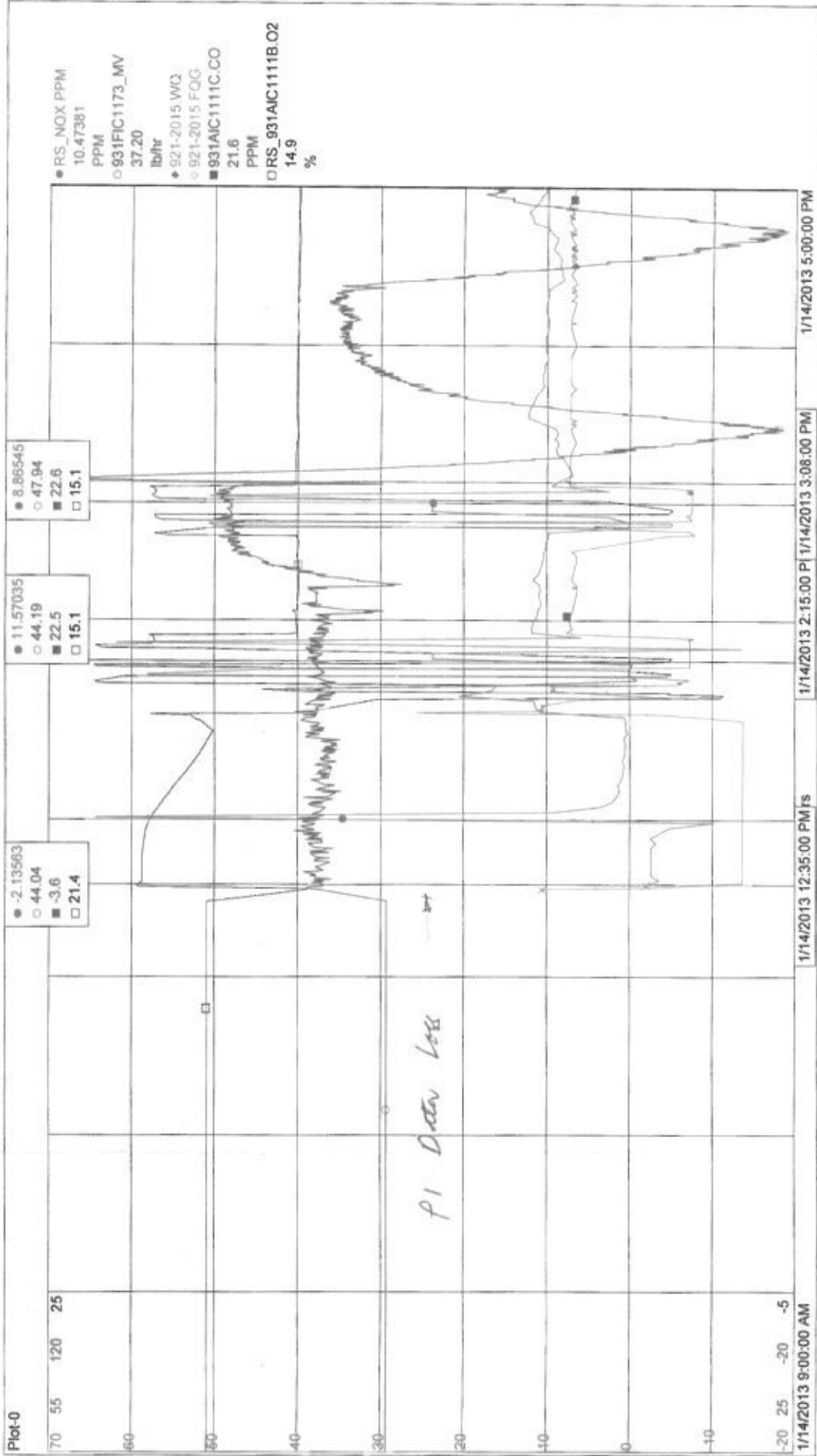
DAILY ENVIRONMENTAL REPORT

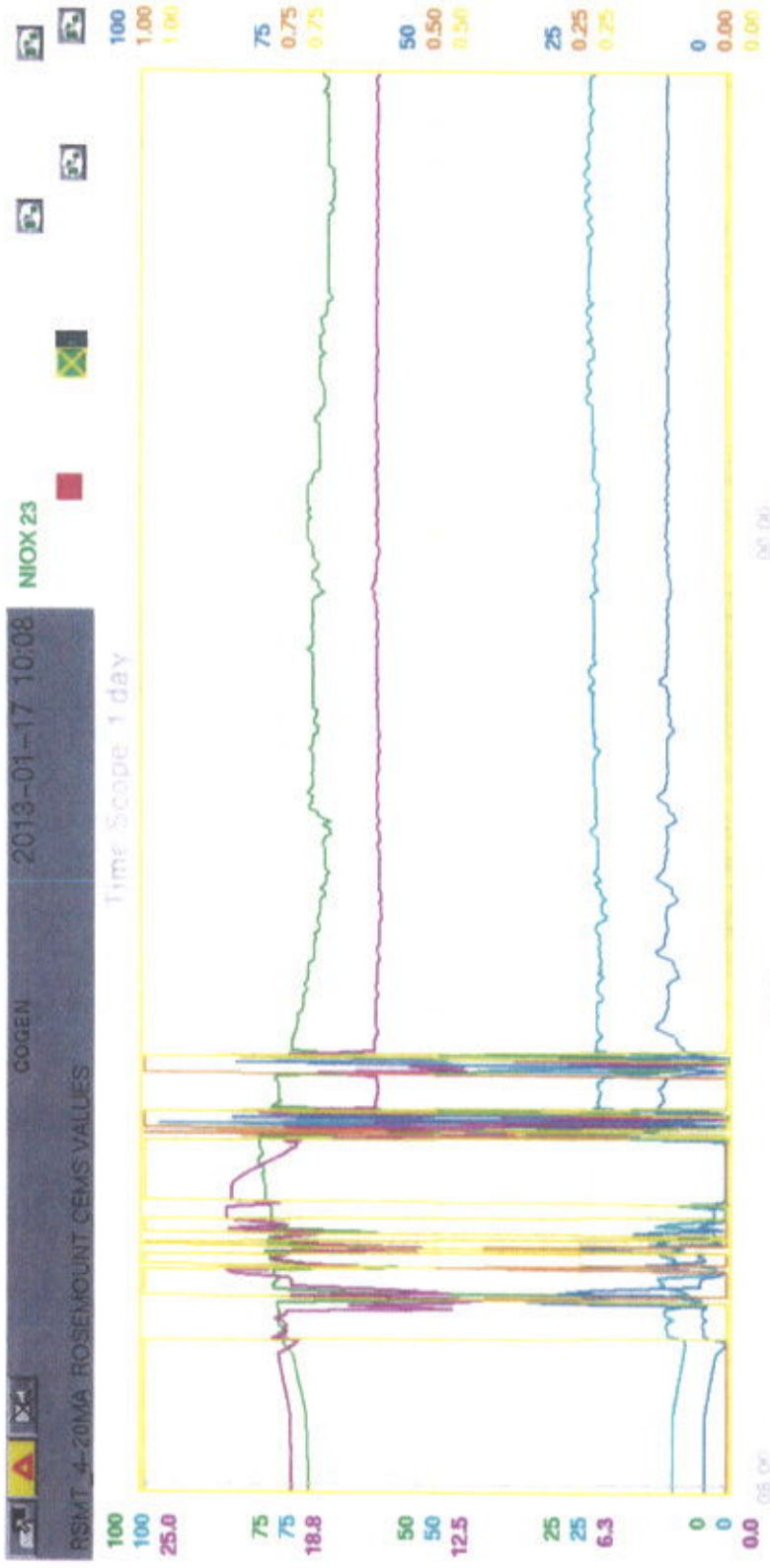
Start Time: 1/15/2013 7:00

End Time: 1/15/2013 7:00

Time	Duct burner gas flow MFC/FH	Turbine gas flow MFC/FH	SCIT Temperature °F	SCR inlet NOx ppm	Ammonia Usage lbs/h	NH3/NOx molar ratio	Injection rate lbs/h	Steam to steam fuel ratio lbs/h	NOx lbs/h	Stack O2 %	Stack CO ppm	Stack SO2 ppm	3in Fluegas Average NOx	Refractory O2 %	Refractory NOx %	Refractory SO2 %	Daily Air Cogen NOx lbs/h	Daily Air Cogen SO2 lbs/h	
8:00	28.57	266.35	71.71	71.71	No Good Data For C	Good Data For	2.68	0.82	11.13	24.12	18.21	16.12	10.12	25.01	3.01		10.88	10.99	
9:00	28.72	No Good Data For C	642.22	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For
10:00	28.72	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C
11:00	28.72	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C
12:00	28.72	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C	No Good Data For C
13:00	28.25	266.35	645.89	79.31	41.44	1.39	2.70	0.82	-3.34	117.73	105.52	-2.54	-2.54	24.61	0.78		14.73	14.73	
14:00	25.27	267.71	644.42	65.63	44.07	2.69	2.72	0.83	6.15	-117.16	-88.36	6.44	1.55	24.59	0.87				
15:00	18.85	267.03	637.83	52.09	45.35	5.48	2.72	0.83	12.27	7.35	7.85	12.23	5.11	24.49	-0.05				
16:00	18.23	267.81	635.19	68.08	38.70	4.45	2.72	0.83	12.44	15.35	18.32	11.41	9.73	24.41	-1.85				
17:00	18.86	269.24	634.75	71.51	36.47	1.28	2.72	0.83	10.50	14.98	21.68	13.90	11.13	24.41	-1.07				
18:00	22.64	271.13	639.88	69.76	38.46	1.29	2.73	0.83	10.53	14.68	21.24	13.50	10.29	24.43	-1.10				
19:00	22.62	267.80	638.80	68.85	37.44	1.27	2.72	0.83	11.17	14.92	22.00	14.45	10.38	24.42	-0.82				
20:00	25.82	273.49	636.77	71.06	38.08	1.34	2.82	0.84	11.00	14.93	22.29	14.77	10.88	24.45	-1.95				
21:00	21.28	275.40	636.83	70.82	40.05	1.38	2.85	0.85	10.72	14.93	22.42	15.07	10.87	24.45	-2.08				
22:00	18.01	274.68	634.21	70.87	37.85	1.32	2.84	0.85	11.12	14.99	23.01	15.20	10.83	24.53	-2.13				
23:00	19.64	274.68	636.43	70.84	43.35	1.52	2.83	0.84	10.88	15.01	22.68	14.44	9.98	24.59	-1.20				
0:00	21.38	273.86	636.85	71.42	39.19	1.38	2.83	0.84	10.88	14.99	22.41	14.38	10.85	24.65	-0.13				
1:00	20.02	272.15	638.81	69.84	40.25	1.39	2.83	0.84	10.92	14.97	22.13	14.56	10.64	24.72	0.07				
2:00	22.45	272.14	635.69	69.22	41.03	1.44	2.81	0.84	10.95	14.96	22.67	14.97	10.80	24.63	0.00				
3:00	21.78	271.14	635.40	68.84	40.98	1.51	2.79	0.84	10.85	14.99	23.28	15.48	10.82	24.58	-0.60				
4:00	22.09	271.47	636.64	68.37	39.85	1.45	2.78	0.84	10.79	14.98	23.36	15.36	9.98	24.66	-0.60				
5:00	22.93	271.97	637.69	67.81	39.05	1.42	2.79	0.84	10.91	14.97	23.44	15.48	9.97	24.49	-2.10				
6:00	24.62	272.85	638.62	68.19	39.73	1.44	2.80	0.84	10.95	14.95	23.44	15.57	9.97	24.49	-1.07				
7:00	23.94	272.85	638.62	68.19	39.73	1.44	2.80	0.84	10.94	14.96	23.43	15.67	10.81	24.49	-1.71				

Comments: Pt data integrity loss on 1/14/13 from 7:00 AM - 12:58 PM, total of 5.58 hrs. Network connection loss due to failure of multiple tap points @ process network. CEMS troubleshooting: found air leak due to broken fitting at the bottom of sample diluter. Manual cal completed at 2:08 PM. CEMS downtime from 7:50 AM - 2:08 PM, total of 8.12 hrs.





DN/Name	Description	Attribute	Treatment	Ruler Time	Ruler Value	Current Value	Unit	Filter	Time Offset	Form
931AIC1111A.NOX	B&W SCR INLET NOX	MV	Mom	07:00 2013-01-14	71.61	11.97	PPM			
931AIC1111C.CO	B&W BLR STACK RAW CO	MV	Mom	07:00 2013-01-14	9.36	0.65	PPM			
931AIC1111B.O2	B&W BLR RAW O2%	MV	Mean	07:00 2013-01-14	18.58	20.89	%			
931AIC1111D.NOX	B&W BLR STACK NOX	MV	Mean	07:00 2013-01-14	3.63	0.31	PPM			
931-AIC-1111.INCAL	RSMT CEMS IN CAL	MV	Mom	07:00 2013-01-14	0	1				
931-aic-1111.trb	RSMT CEMS TROUBLE	MV	Mom	07:00 2013-01-14	1	0				

01	30 minutes	02	1 hour	03	8 hours	04	1 day	05	10 days
06	Positioning...	07	Trace Control...	08	Analyze...	09	Trace Config...	10	Extended Config...



NIGHT SHIFT OPERATOR

DRY SHIFT OPERATOR

NAME: *Rob*

NAME: *MH*

OFFICIAL DAILY COGENERATION LOG

MICAL PUMPS		NEBRASKA		STEAM & WATER READINGS		NEBRASKA WARM STORAGE CHECK		SCG LP		TURBINE		GAS & ELECTRIC READING		BOILER TEST RESULTS	
Level	Feed Rate ml/min	NEBRASKA	PERMATE H ₂ O	CONCENTRATE H ₂ O	L	HP	NEBRASKA	NEBRASKA	HP	HP	TURBINE	MAXON	BURNER	NEBRASKA	MEGAWATTS
Sluiceway 3.9 ml/min		01142586	40111760	5695990	203514	2191	1235920	1303280	1235920	1303280	690468	551843	4493777		808100
Control 5.3 ml/min		PREVIOUS 01078531	70063083	56108274	260554	2053	120810	6733956				649199	4493777		19454
Polymer 5.8 ml/min		NEW DEMIN TRAILER	YES	NO	TIME	NEBRASKA ONLINE TIME	FROM:	TO:							
Caustic (as needed)		AMMONIA DELIVERY	YES	NO	% FULL	55-30									
<p>TURBINE</p> <p>7:00 9:00 11:00 13:00 15:00 17:00 19:00 21:00 23:00 5:00</p> <p>FSR % 52.3 53.6 51.9 52.8 55.7 60 56.4 58.1 59.7 54.1</p> <p>Inlet Temp °F 75 75 75 75 75 75 75 75 75 75</p> <p>Humidity % 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5</p> <p>Vibration (Max) M/S 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9</p> <p>Steam Injection #/SEC 2.70 2.70 2.70 2.70 2.70 2.70 2.70 2.70 2.70 2.70</p> <p>Turbine L.O. Level % 80 80 80 80 80 80 80 80 80 80</p> <p>T48 °F 1411 1438 1434 1425 1454 1430 1421 1417 1419 1419</p> <p>BATTERIES 1.2.5 V HP REDUCED 1.54 FAR 1.35 V HP REDUCED 1.55 FAR</p> <p>AIR INLET DPT 3.3 IN/H2O HP REDUCED 1.54 FAR 1.35 V HP REDUCED 1.55 FAR</p> <p>L.O. DIFFERENTIAL 4.2 PSI HP REDUCED 5.7 AFT 12.00 AMPS DELVALVES 5.7 AFT</p>															
<p>GENERATOR</p> <p>7:00 9:00 11:00 13:00 15:00 17:00 19:00 21:00 23:00 5:00</p> <p>Gen. Bearing Drain °F 153 154 155 158 158 157 157 157 155</p> <p>L.O. Supply °F 129 130 130 134 134 134 134 134 134 134</p> <p>Gen. Vibration (Max) #PS 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1</p> <p>Tie Line MW 1303 1303 1303 1303 1303 1303 1303 1303 1303 1303</p> <p>GEN. 1190 AMPS GEN VARS 6.16 MEGA VARS GEN. 1200 AMPS FIELD VOLTS 190 V</p> <p>FIELD 20.7 AMPS FIELD VOLTS 187 V FIELD 20.5 AMPS FIELD VOLTS 190 V</p> <p>COOLING THW INLET 78 F COOLING THW INLET 7.3 F COOLING THW INLET 80 F</p>															
<p>COGEN BOILER</p> <p>7:00 9:00 11:00 13:00 15:00 17:00 19:00 21:00 23:00 5:00</p> <p>450 Header Temp °F 710 710 710 710 710 710 710 710 710 710</p> <p>HP Drum Level IN 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1</p> <p>LP Drum Level IN 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1</p> <p>HP Drum Pressure PSI 485 485 485 485 485 485 485 485 485 485</p> <p>LP Drum Pressure PSI 156 156 156 156 156 156 156 156 156 156</p> <p>CO 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5</p> <p>NOX 10.4 10.4 10.4 10.4 10.4 10.4 10.4 10.4 10.4 10.4</p> <p>Hot Well Level % 18.65 14.1 14.1 13.8 14.5 14.3 14.1 14.3 14.5 14.3</p> <p>1150 SET POINT 449 1103 B SET POINT 444 1150 SET POINT 449</p> <p>SCANNER BLOWER (ON) 449 1103 B SET POINT 444 1150 SET POINT 449</p>															
<p>COMPRESSORS</p> <p>7:00 9:00 11:00 13:00 15:00 17:00 19:00 21:00 23:00 5:00</p> <p>Filter Separator PSI 221 221 221 221 221 221 221 221 221 221</p> <p>Gas Receiver PSI 425 425 425 425 425 425 425 425 425 425</p>															
<p>NEBRASKA BOILER</p> <p>7:00 9:00 11:00 13:00 15:00 17:00 19:00 21:00 23:00 5:00</p> <p>Drum Level IN 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1</p> <p>Drum Pressure PSI 156 156 156 156 156 156 156 156 156 156</p> <p>Steam Flow #/HR 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5</p> <p>Steam Temp °F 10.4 10.4 10.4 10.4 10.4 10.4 10.4 10.4 10.4 10.4</p> <p>NOX 18.65 18.65 18.65 18.65 18.65 18.65 18.65 18.65 18.65 18.65</p> <p>O2 % 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25</p> <p>OH LINE TURBINE WATER WASH</p>															
<p>BOILER FEEDWATER</p> <p>pH 8.75 - 9.5</p> <p>Conductivity < 5mmhos</p> <p>Silica < 20 ppb</p> <p>R.O.</p> <p>Feed TDS < 1000 ppm</p> <p>Permeate TDS < 10 ppm</p> <p>pH (Feed 7.5)</p> <p>CONDENSATE</p> <p>HP-pH 8.5 - 9.5</p> <p>Conductivity < 20mmhos</p> <p>LP-pH 8.5 - 9.5</p> <p>Conductivity < 20mmhos</p> <p>HP pH 9.5 - 10.5</p> <p>Conductivity 75-150</p> <p>Phosphate 5-15 ppm</p> <p>Silica < 5 ppm</p> <p>Iron ppm</p> <p>LP pH 9.5 - 10.5</p> <p>Conductivity 75 - 150</p> <p>Phosphate 5-15 ppm</p> <p>Silica < 5 ppm</p> <p>Iron ppm</p> <p>MIXED BED</p> <p>pH 6.0 - 7.5</p> <p>Conductivity < 1mmhos</p> <p>Silica < 10 ppb</p> <p>HP Steam Test</p> <p>Silica < 20 ppb</p> <p>SOFTNER</p> <p>Hardness < 1.0 ppm</p> <p>Running (1 or 2)</p> <p>NEBRASKA</p> <p>pH 9.5 - 10.5</p> <p>Conductivity 75 - 200</p> <p>Silica</p> <p>Phosphate 5-25 ppm</p> <p>STEAM TEST</p> <p>Silica < 20 ppb</p> <p>PV NO.2</p> <p>Molybdate > 200 ppm</p> <p>NOTES:</p> <p>Co-Gen-TRAINING</p> <p>CO-GEN-TRAINING</p> <p>FORK LIFT (CLAMP)</p> <p>Turn table belt</p> <p>8.8 (CLAMP)</p> <p>7.05 (CLAMP)</p> <p>NEW DEMIN TRAILER</p> <p>PERMEATE 400400.70</p> <p>CONCENTRATE 569250.33</p> <p>METER: 2192.2 (FEED)</p>															

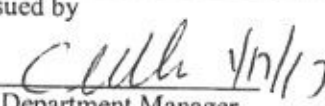
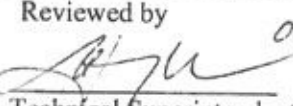
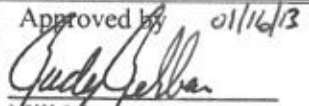
DATE: 1-14-13

SAFETY IS ALWAYS NO. 1

HUENEME PAPER MILL

Hueneme Mill Environmental Incident Report

Shaded section to be completed by the EMR

Name of Incident Emission Data Loss		Incident 1/13/13 and 1/14/13	
Exact Location Incident Cogen			
Reported By Rudy Rehbein & Robyn Lebrilla		Estimated Start and Stop Times of Incident: 1/13/13 5:35 AM - 1:20 PM 1/14/13 3:30 AM - 1:00 PM	Possible Cause: network connection loss
Incident Type: <input checked="" type="checkbox"/> Spill Internal <input checked="" type="checkbox"/> Improper Waste <input checked="" type="checkbox"/> Disposal <input type="checkbox"/> Near miss or below spill release guidelines <input checked="" type="checkbox"/> Spill External <input type="checkbox"/> Air Emission <input checked="" type="checkbox"/> Other _____		Released To <input checked="" type="checkbox"/> Storm Water System <input checked="" type="checkbox"/> Secondary Containment <input checked="" type="checkbox"/> Process Sewer <input checked="" type="checkbox"/> X Air <input checked="" type="checkbox"/> Ground (External) <input checked="" type="checkbox"/> Ground (Inside Mill Property) <input checked="" type="checkbox"/> Near Miss <input checked="" type="checkbox"/> Other _____	
Detailed Description of Event			
Data loss to PI was due to a partial failure of multiple tap points into the ABB MB300 Network (Process Network). These failures did not result in data loss for the ABB process network. Large volume of alarms on network from tap point faults caused the network to load up and PI not getting its data in a timely manner. Failure points where node 8 network 12 (AUI to RJ-45 transceiver F-MCC) and node 21 network 11 (AUI to Fiber transceiver old DCS Room). PI is receiving data as of 1:00 pm 1/14/13.			
<i>(if required use additional paper and attach)</i>			
Estimated Amount Released		pH	CONSISTENCY (%)
<input checked="" type="checkbox"/> _____ Gallons <input type="checkbox"/> _____ Pounds <input checked="" type="checkbox"/> Other _____			
List Any External Emergency Clean Up Personnel Contacted N/A		List Any External Agencies Contacted (Agency, person and time of call.) APCD 1/13/13 @ 2:30 and 1/14/13 @ 9:08 AM	
List Hueneme Personnel Contacted (Foreman, Mill Manager, etc.) Victor Kumpera, Charlie Wilson, Sandy Robins, Tom Nicolai		Any Acute or Chronic Health Risks (refer to MSDS) N/A	
Describe Any Emergency Response Actions Called IT support			
Suggestions to Prevent Reoccurrence			Estimated Completion Date
1. Project approved for 2013 to replace old thick net with fiber.			1. 12/31/2013
2.			2.
3.			3.
4.			4.
Root Cause after investigation		Severity Level (level 1 and 2 must be tracked through SHIMS)	
		<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 4	
Investigated By: Tom Nicolai		Investigated Date 1/14/13	
Follow Up		By When	Completion Date
Issued by  Department Manager	Reviewed by  Technical Superintendent	Approved by  Mill Manager	

Print Time: 1/16/2013 11:39:56 AM

Note: This document is valid for only ONE week after print time!

NEW  INDY
CONTAINERBOARD

March 4, 2013

Lyle Olson
Ventura County Air Pollution Control District
669 County Square Drive, Second Floor
Ventura, CA 93003

Subject: CEMS stack NOx CLD overheated

Dear Mr. Olson:

This letter is a follow up on the call made to the VCAPCD Breakdown Center Hotline on February 28, 2013 at about 2:00 AM by Ed Centeno.

On February 28, 2013 at 1:17 AM, the CEMS stack NOx CLD failed due to overheating. During troubleshooting, it was found that one of the two air conditioning units in the MCC room had tripped. The stack NOx CLD alarm cleared as the MCC room ambient temperature was brought down. The CEMS was manually calibrated and back on line at about 4:00 AM. The emission data showed emission data loss for stack NOx from 1:17 am – 4:00 am, a total of 2.72 hours. To prevent recurrence of this incident, the mill will (1) monitor MCC room's AC units daily, and (2) install additional louvers to CEMS cabinet to allow air from sample handling fans to easily exhaust out of the cabinet.

The Daily Emission Sheets, PI trends, DCS trends, Cogen Reports and Environmental Incident Report have been provided for your review. If you have any questions or require any additional information, please call me at (805) 271-7284.

Sincerely,



Robyn Lebrilla
Environmental Engineer

NEW INDY OXNARD, LLC

5936 PERKINS ROAD • OXNARD, CALIFORNIA 93033 • WWW.NEWINDYCONTAINERBOARD.COM
PHONE (805) 986-3881 • FAX (805) 488-5186



Ventura County
Air Pollution
Control District

RESPONSIBLE OFFICIAL'S CERTIFICATION FORM

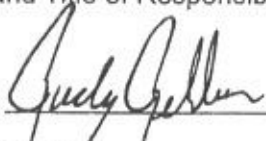
Ventura County APCD Rule 33.9 requires that "any document, including reports, schedule of compliance progress reports and compliance certifications, required by a Part 70 permit shall be certified by a responsible official." Therefore, this form shall be signed by the company's Responsible Official and submitted with all such reports, including, but not limited to semi-annual reports, deviation and emergency reports and any periodic reports required by a Part 70 permit. However, when submitting your Annual Compliance Certifications, please use the form titled Annual Compliance Certification Signature Cover Form.

Semi-annual reports, deviations and emergency reports and any periodic reports required by your Part 70 permit should be submitted to:

Lyle Olson
Air Quality Engineer
Ventura County Air Pollution Control District
669 County Square Drive
Ventura, CA 93003

Certification by Responsible Official

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this document is true, accurate, and complete.

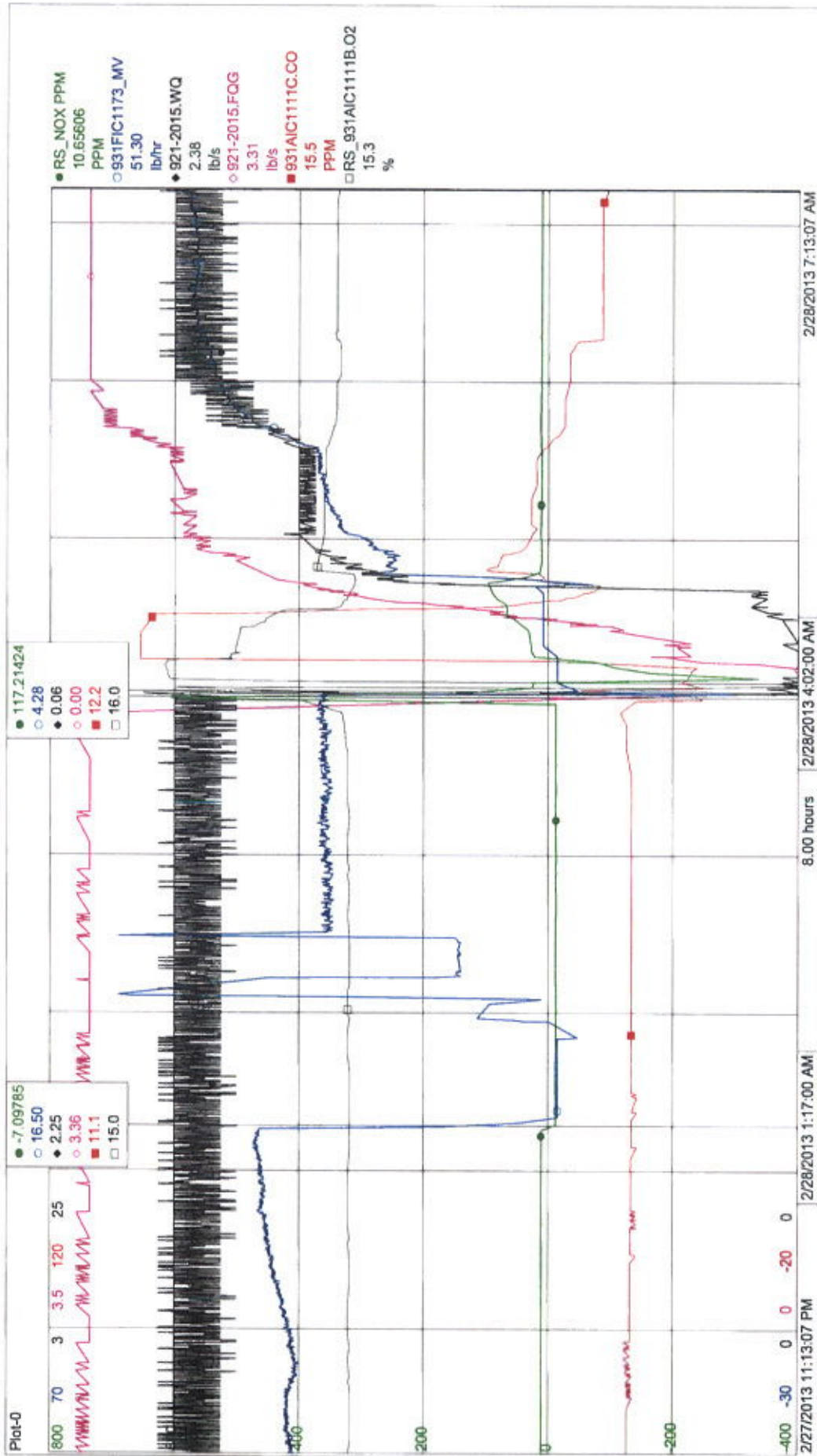
Signature and Title of Responsible Official:	Date:
Signature: <u></u>	3/1/13
Title: <u>Mill Manager</u>	

DAILY ENVIRONMENTAL REPORT

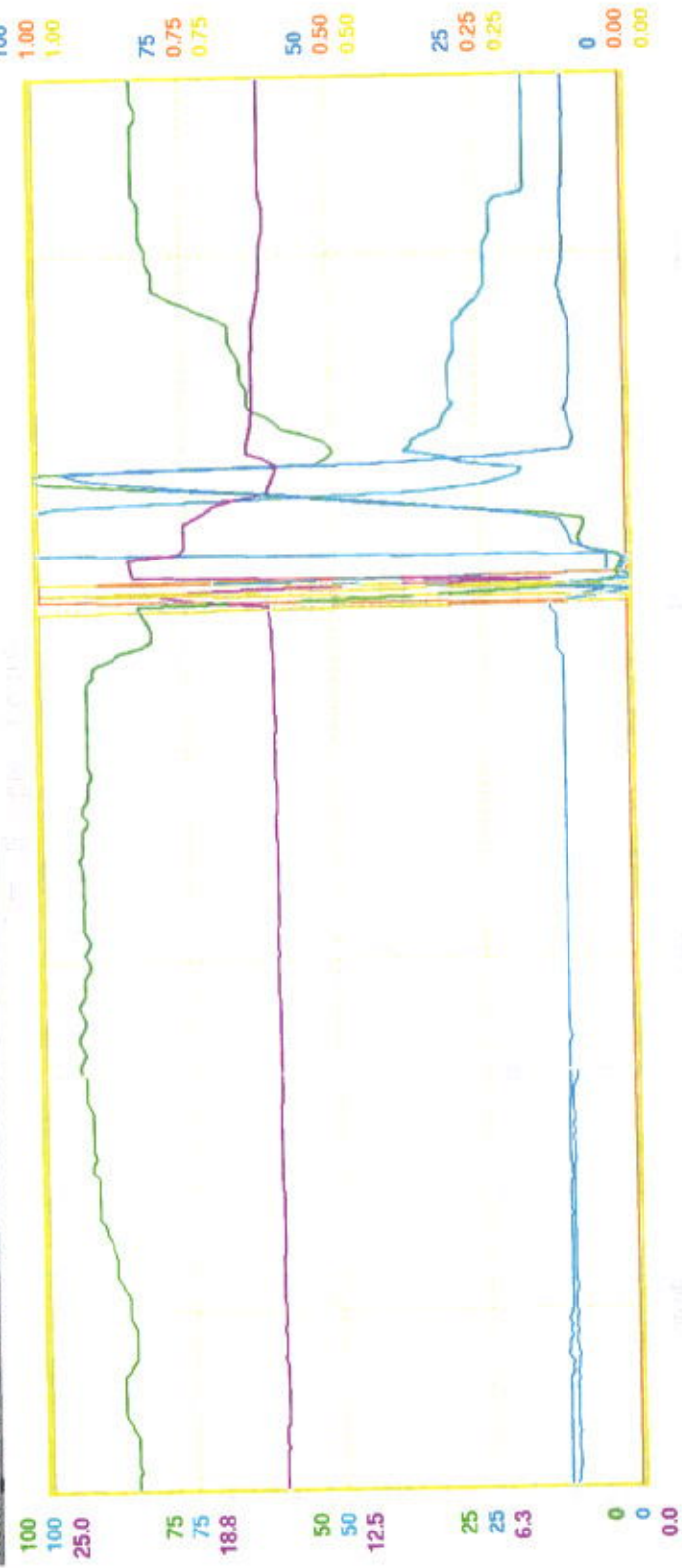
2/28/2013 7:00 2/27/2013 7:00

Time	Cell Temp MCC/FH	Turbine gas flow MCC/FH	S/C-R Temperature %	S/C-R NOx ppm	Approximate NOx lb/hr	MFO NOx rate ratio	Injection lb/hr	Steam to boiler ratio	NOx lb/hr	Stack O ₂ %	Stack CO ppm	Stack SO ₂ ppm	3h Average NOx	Nebraska O ₂ %	Nebraska NOx %	Nebraska Corrected NOx (to 3% O ₂)	Daily Av Cogen NOx lb/hr	Daily Av Cogen/Neib NOx lb/hr
8:00	2.85	240.01	610.42	72.02	33.07	1.78	2.07	0.71	8.11	15.75	26.52	13.86	10.35	24.72	-1.70		8.47	8.47
9:00	6.50	203.17	588.84	58.18	22.02	1.31	1.89	0.68	8.18	16.03	36.07	17.45	10.24	24.81	-1.84			
10:00	6.54	207.09	600.47	62.29	23.72	1.39	1.72	0.68	8.40	15.98	33.48	16.91	10.43	24.85	-2.11			
11:00	6.58	254.83	623.68	66.13	48.12	1.39	2.15	0.69	18.83	15.30	17.72	18.91	10.78	24.82	-2.25			
12:00	1.31	264.17	627.82	67.94	50.32	1.41	2.24	0.70	19.36	15.22	15.84	9.48	10.51	24.82	-2.57			
13:00	4.03	263.08	627.81	68.63	49.85	1.41	2.23	0.70	19.28	15.22	15.84	9.48	10.51	24.82	-2.57			
14:00	8.40	271.00	631.35	69.27	45.08	1.32	2.41	0.71	18.85	15.16	19.61	12.36	10.38	24.81	-2.90			
15:00	1.30	278.59	625.83	65.80	43.63	1.34	2.40	0.74	18.89	15.26	18.67	10.54	10.44	24.42	-3.37			
16:00	0.04	275.78	622.62	66.55	42.62	1.27	2.46	0.74	18.98	15.32	15.70	9.81	10.42	24.44	-3.20			
17:00	0.04	275.38	619.67	65.16	30.14	1.23	2.45	0.73	18.73	15.29	15.58	9.56	10.47	24.39	-2.69			
18:00	0.04	272.84	619.34	64.51	38.65	1.22	2.43	0.73	18.53	15.24	14.82	9.85	10.43	24.47	-1.41			
19:00	0.04	272.80	619.00	65.57	30.11	1.22	2.44	0.73	18.63	15.20	14.16	8.72	10.49	24.53	-1.71			
20:00	0.04	271.78	617.89	63.91	38.68	1.22	2.41	0.73	18.51	15.14	14.34	8.77	10.45	24.55	-0.96			
21:00	0.04	271.52	618.44	61.84	36.88	1.21	2.41	0.73	18.51	15.13	14.13	8.63	10.46	24.84	-0.13			
22:00	0.04	273.35	618.19	79.92	34.62	1.17	2.44	0.73	18.81	15.06	14.06	8.61	10.49	24.81	0.07			
23:00	0.04	271.81	616.52	81.37	35.49	1.17	2.42	0.73	18.62	15.05	13.25	8.32	10.55	24.53	0.08			
0:00	0.04	271.64	612.89	86.21	37.73	1.17	2.42	0.73	18.67	15.09	11.24	6.89	10.54	24.57	0.06			
1:00	0.04	271.81	581.23	80.58	40.38	1.21	2.42	0.73	18.67	15.09	11.24	6.89	10.54	24.55	-0.42			
2:00	0.04	272.15	543.94	83.36	13.70	0.41	2.42	0.73	-5.44	15.00	10.04	6.78	-6.17	24.80	-0.97			
3:00	0.04	271.47	508.88	82.88	28.83	0.87	2.41	0.73	-12.51	15.00	10.06	6.71	-12.51	24.72	-0.87			
4:00	0.03	271.35	469.37	87.29	33.25	1.00	2.41	0.73	-11.91	15.25	10.37	5.72	-2.62	24.78	-0.97			
5:00	13.05	110.39	500.17	35.64	8.84	8680.02	0.84	0.26	38.49	15.00	101.41	13.11	3.51	24.84	-1.03			
6:00	8.55	245.82	611.36	71.28	36.68	1.58	2.07	0.69	10.31	15.67	30.70	17.35	11.95	24.82	-1.31			
7:00	1.00	271.42	620.92	82.86	49.81	1.61	2.40	0.73	18.71	15.37	19.30	11.95	14.82	24.86	-1.40			

C-EMS failed due to high temp in the MCC room on 2/28/13 at 1:17 am - 4:30 am, a total of 2.72 hrs. APCD notified at about 2:00 am. CEMS manually calibrated.
Cogen tripped on 2/28/13 from 4:00 AM - 4:15 AM, a total of 0.25 hr - false low level signal to MW. Vapour level high temp issue.



COGEN 2013-02-28 10:32 26 (SC) MEDIUM
L1 931AIC1111D.NOX **B&W BLR STACK NOX** **Lim L1** 10:30:54
RSMT_4-20MA ROSEMOUNT CEMS VALUES



ON Name	Description	Attribute	Treatment	Ruler Time	Ruler Value	Current Value	Unit	Filter	Time Offset	Form
931AIC1111A.NOX	B&W SCR INLET NOX	MV	Mom	01:20	83.34	75.34	PPM			
931AIC1111C.CO	B&W BLR STACK RAW CO	MV	Mom	01:20	11.12	17.44	PPM			
931AIC1111B.O2	B&W BLR RAW O2%	MV	Mean	01:20	14.98	15.48	%			
931AIC1111D.NOX	B&W BLR STACK NOX	MV	Mean	01:20	---	4.94	PPM			
931-AIC-1111JNCAL	RSMT CEMS IN CAL	MV	Mom	01:20	0	0				
931-aic-1111.trb	RSMT CEMS TROUBLE	MV	Mom	01:20	1	0				

D1 30 minutes	D2 1 hour	D3 6 hours	D4 1 day	D5 10 days
D6 Positioning...	D7 Trace Control...	D8 Analyze...	D9 Trace Config...	D10 Extended Config...



SAFETY IS ALWAYS NO. 1

Hueneme Paper Mill

DATE: 2-27-13

TURBINE	NEBRASKA WATER RELATIONS										NEBRASKA WARM STORAGE CHECK				BOILER TEST RESULTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	CURRENT PRODUCTION	NEBRASKA PERMATE H2O CONCENTRATE H2O	LP	HP	SCG LP	YES	NO	YES	NO	YES	NO	DAY SHIFT	NIGHT SHIFT	MEGAWATTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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Control 5.3 ml/min	0416800	44391199	158861777	205598	1789	1453650	402	350	792882	20195			4270																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Level</td> <td>%</td> <td>100</td> <td>100</td> <td>100</td> <td>100</td> <td>100</td> <td>100</td> <td>100</td> <td>100</td> <td>100</td> <td></td> <td></td> <td>7.0</td> </tr> <tr> <td>148</td> <td>%</td> <td>1404</td> <td>1309</td> <td>1301</td> <td>1484</td> <td>1474</td> <td>1467</td> <td>1467</td> <td>1476</td> <td>1480</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="15"> <table border="1"> <thead> <tr> <th rowspan="2">NEBRASKA DELIVERY</th> <th colspan="10">NEBRASKA WARM STORAGE CHECK</th> <th colspan="2">BOILER TEST RESULTS</th> </tr> <tr> <th>9:00</th> <th>11:00</th> <th>13:00</th> <th>15:00</th> <th>17:00</th> <th>19:00</th> <th>21:00</th> <th>23:00</th> <th>1:00</th> <th>3:00</th> <th>5:00</th> <th>DAY SHIFT</th> <th>NIGHT SHIFT</th> </tr> </thead> <tbody> <tr> <td>Gen. Bearing Drain</td> <td>%</td> <td>147</td> <td>152</td> <td>154</td> <td></td> <td>160</td> <td>159</td> <td>159</td> <td>160</td> <td>100</td> <td></td> <td></td> <td></td> </tr> <tr> <td>L.O. Supply</td> <td>%</td> <td>12.5</td> <td>127</td> <td>180</td> <td>132</td> <td>134</td> <td>134</td> <td>135</td> <td>135</td> <td></td> <td></td> <td></td> <td>8.8</td> </tr> <tr> <td>Gen. Vibration (Max)</td> <td>IPS</td> <td>38</td> <td>49</td> <td>53</td> <td>34</td> <td>34</td> <td>34</td> <td>34</td> <td>34</td> <td></td> <td></td> <td></td> <td>11.2</td> </tr> <tr> <td>Tie Line</td> <td>MW</td> <td>1333</td> <td>1341</td> <td>1349</td> <td>1344</td> <td>1346</td> <td>1346</td> <td>1352</td> <td>1350</td> <td></td> <td></td> <td>PM</td> <td>11.2</td> </tr> </tbody> </table> </td> </tr> <tr> <td colspan="15"> <table border="1"> <thead> <tr> <th rowspan="2">NEBRASKA DELIVERY</th> <th colspan="10">NEBRASKA WARM STORAGE CHECK</th> <th colspan="2">BOILER TEST RESULTS</th> </tr> <tr> <th>9:00</th> <th>11:00</th> <th>13:00</th> <th>15:00</th> <th>17:00</th> <th>19:00</th> <th>21:00</th> <th>23:00</th> <th>1:00</th> <th>3:00</th> <th>5:00</th> <th>DAY SHIFT</th> <th>NIGHT SHIFT</th> </tr> </thead> <tbody> <tr> <td>450 Header Temp</td> <td>%</td> <td>708</td> <td>714</td> <td>711</td> <td>710</td> <td>709</td> <td>709</td> <td>709</td> <td>710</td> <td>710</td> <td>710</td> <td></td> <td></td> </tr> <tr> <td>HP Drum Level</td> <td>IN</td> <td>0.6</td> <td>0.6</td> <td>0.5</td> <td>0.9</td> <td>0.8</td> <td>0.8</td> <td>0.8</td> <td>0.9</td> <td>0.9</td> <td></td> <td></td> <td>6.2</td> </tr> <tr> <td>LP Drum Level</td> <td>IN</td> <td>1.2</td> <td>0.6</td> <td>0.9</td> <td>1.1</td> <td>1.0</td> <td>1.1</td> <td>1.0</td> <td>1.0</td> <td></td> <td></td> <td></td> <td>9.4</td> </tr> <tr> <td>HP Drum Pressure</td> <td>PSI</td> <td>482</td> <td>475</td> <td>482</td> <td>482</td> <td>482</td> <td>482</td> <td>482</td> <td>482</td> <td></td> <td></td> <td></td> <td>2.14</td> </tr> <tr> <td>LP Drum Pressure</td> <td>PSI</td> <td>153</td> <td>151</td> <td>146</td> <td>148</td> <td>148</td> <td>148</td> <td>148</td> <td>146</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>CO</td> <td>PPM</td> <td>237</td> <td>404</td> <td>301</td> <td>219</td> <td>143</td> <td>143</td> <td>143</td> <td>10.4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>NOX</td> <td>PPM</td> <td>71</td> <td>107</td> <td>115</td> <td>99</td> <td>106</td> <td>103</td> <td>106</td> <td>13.5</td> <td></td> <td></td> <td></td> <td>7.5</td> </tr> <tr> <td>Hot Well Level</td> <td>%</td> <td>15.80</td> <td>1641</td> <td>1522</td> <td>1548</td> <td>1514</td> <td>1509</td> <td>1507</td> <td>1507</td> <td>1488</td> <td></td> <td></td> <td>1.60</td> </tr> <tr> <td></td> <td>%</td> <td>160</td> <td>158</td> <td>160</td> <td>138</td> <td>154</td> <td>156</td> <td>156</td> <td>154</td> <td>156</td> <td></td> <td></td> <td>5</td> </tr> </tbody> </table> </td> </tr> <tr> <td colspan="15"> <table border="1"> <thead> <tr> <th rowspan="2">NEBRASKA DELIVERY</th> <th colspan="10">NEBRASKA WARM STORAGE CHECK</th> <th colspan="2">BOILER TEST RESULTS</th> </tr> <tr> <th>9:00</th> <th>11:00</th> <th>13:00</th> <th>15:00</th> <th>17:00</th> <th>19:00</th> <th>21:00</th> <th>23:00</th> <th>1:00</th> <th>3:00</th> <th>5:00</th> <th>DAY SHIFT</th> <th>NIGHT SHIFT</th> </tr> 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Level	%	100	100	100	100	100	100	100	100	100			7.0	148	%	1404	1309	1301	1484	1474	1467	1467	1476	1480				<table border="1"> <thead> <tr> <th rowspan="2">NEBRASKA DELIVERY</th> <th colspan="10">NEBRASKA WARM STORAGE CHECK</th> <th colspan="2">BOILER TEST RESULTS</th> </tr> <tr> <th>9:00</th> <th>11:00</th> <th>13:00</th> <th>15:00</th> <th>17:00</th> <th>19:00</th> <th>21:00</th> <th>23:00</th> <th>1:00</th> <th>3:00</th> <th>5:00</th> <th>DAY SHIFT</th> <th>NIGHT SHIFT</th> </tr> </thead> <tbody> <tr> <td>Gen. Bearing Drain</td> <td>%</td> <td>147</td> <td>152</td> <td>154</td> <td></td> <td>160</td> <td>159</td> <td>159</td> <td>160</td> <td>100</td> <td></td> <td></td> <td></td> </tr> <tr> <td>L.O. Supply</td> <td>%</td> <td>12.5</td> <td>127</td> <td>180</td> <td>132</td> <td>134</td> <td>134</td> <td>135</td> <td>135</td> <td></td> <td></td> <td></td> <td>8.8</td> </tr> <tr> <td>Gen. 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<td>1507</td> <td>1488</td> <td></td> <td></td> <td>1.60</td> </tr> <tr> <td></td> <td>%</td> <td>160</td> <td>158</td> <td>160</td> <td>138</td> <td>154</td> <td>156</td> <td>156</td> <td>154</td> <td>156</td> <td></td> <td></td> <td>5</td> </tr> </tbody> </table>															NEBRASKA DELIVERY	NEBRASKA WARM STORAGE CHECK										BOILER TEST RESULTS		9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00	DAY SHIFT	NIGHT SHIFT	450 Header Temp	%	708	714	711	710	709	709	709	710	710	710			HP Drum Level	IN	0.6	0.6	0.5	0.9	0.8	0.8	0.8	0.9	0.9			6.2	LP Drum Level	IN	1.2	0.6	0.9	1.1	1.0	1.1	1.0	1.0				9.4	HP Drum Pressure	PSI	482	475	482	482	482	482	482	482				2.14	LP Drum Pressure	PSI	153	151	146	148	148	148	148	146					CO	PPM	237	404	301	219	143	143	143	10.4					NOX	PPM	71	107	115	99	106	103	106	13.5				7.5	Hot Well Level	%	15.80	1641	1522	1548	1514	1509	1507	1507	1488			1.60		%	160	158	160	138	154	156	156	154	156			5	<table border="1"> <thead> <tr> <th rowspan="2">NEBRASKA 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OFFICIAL DAILY COGENERATION LOG

DRY SHIFT OPERATOR

NAME: [Signature]

NAME: [Signature]

ACOP 000-2011 - REV 2



NEW INDY OXNARD

5936 Perkins Road,
Oxnard, CA 93033

Attn: Robyn Lebrilla

**LM2500 – PK GENERAL ELECTRIC
GAS TURBINE
ANNUAL COMPLIANCE and RATA EMISSIONS TESTING
PTO #0157
March 20, 2013**

Submitted to:
Ventura County Air Pollution Control District
669 County Square Drive
Ventura, California 93003

Attn: Lyle Olson

Prepared by:
AIRx Testing Services, Inc.
2472 Eastman Avenue #34
Ventura, CA 93003

Job No.: 23022

Lab No.: 213-031

Ken R. Kennepohl
Test Team Leader

Reviewed by:
Tom Porter

Submitted
April 11, 2013



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SUMMARY OF SOURCE TEST RESULTS

New Indy
Gas Turbine
Rosemount CEM
3/20/2013

CONSTITUENTS	Run 1	Run 2	Run 3	Average	Allowable
NOx, ppmv:	10.6	10.4	10.3	10.4	-
NOx ppmv @ 15 % O2:	10.7	10.9	10.8	10.8	12
NOx, lb/hr:	11.76	12.01	11.85	11.88	-
NOx, lb/MMBtu	0.0014	0.0014	0.0014	0.0014	-
CO, ppmv:	22.7	22.0	22.0	22.2	-
CO, ppmv @ 15% O2:	23.1	23.1	23.2	23.1	-
CO, lb/hr:	15.38	15.43	15.44	15.42	59.15
CO, lb/MMBtu	0.0018	0.0018	0.0018	0.0018	-
O2, %:	15.1	15.3	15.3	15.2	-
NH3, ppmv:	1.1	1.2	1.1	1.1	-
NH3, ppmv @ 15% O2:	1.1	1.2	1.1	1.1	-
Stack Flow:	155567	160807	161101	159158	-
Ammonia Injection Rate, lb/hr (avg):	23.3	24.2	23.9	23.8	-
Fuel Usage (Turbine & Duct), dscfm:	4724.1	4742.4	4713.2	4726.6	-
Turbine Load, KW (avg):	26.0	26.3	26.2	26.2	-



New Indy
Turbine
3/20/2013

CEMS RATA
Calculations

Run	AIRx Testing - Reference Method		
	NOx ppmv @ 15%	O2 Dry %	CO ppmv @ 15%
1	10.5	15.1	23.2
2	10.8	15.1	23.7
3	10.9	15.1	22.6
4	10.8	15.3	23.1
5	10.9	15.3	23.4
6	10.8	15.3	23.0
7	10.6	15.3	22.7
8	10.8	15.3	23.9
9	10.8	15.3	23.5

Run	New Indy		CEMS
	NOx ppmv @ 15%	O2 Dry %	CO ppmv @ 15%
1	10.5	15.2	25.2
2	10.5	15.3	25.7
3	10.5	15.0	24.5
4	10.5	15.4	25.2
5	10.5	15.4	25.5
6	10.5	15.4	25.0
7	10.5	15.5	24.9
8	10.5	15.5	26.0
9	10.6	15.5	25.6

Run	Reference Method - CEM, Difference		
	NOx ppmv @ 15%	O2 Dry %	CO ppmv @ 15%
1	0.0	-0.1	-2.0
2	0.3	-0.2	-2.0
3	0.4	0.1	-1.9
4	0.3	-0.1	-2.1
5	0.4	-0.1	-2.1
6	0.3	-0.2	-2.0
7	0.1	-0.2	-2.2
8	0.3	-0.2	-2.1
9	0.2	-0.2	-2.1

Arithmetic Mean, d
Standard Deviation, Sd
Confidence Coefficient, CC
Avg Reference Method, RM
Relative Accuracy, RA

0.3	-0.1	-2.1
0.1	0.1	0.1
0.1	0.1	0.1
10.8	15.2	23.2
3.2	1.4	9.1

NOTE: Calculations based on "Code of Federal Regulations 40", 1988, Part 60, Appendix B, Specification 2, p. 939.

INTRODUCTION



1.0 INTRODUCTION

On March 20, 2013 AIRx Testing Services conducted the annual compliance/RATA source test on a natural gas fired General Electric LM2500-PK Gas Turbine. The unit is located at the New Indy Plant on Perkins Road, in Oxnard. The turbine is used for the generation of electrical power and process heat for the facility operations. The tests were required to satisfy requirements detailed in PTO #0157.

The objective of the testing was to determine NO_x, CO and NH₃ emissions from the unit at one (1) operating load of approximately 100% capacity. Additionally, data taken from the compliance tests was used to determine the relative accuracy (RATA) of the facility CEM (Rosemont) equipment. Operational data reported was turbine and duct burner fuel usage (dscfm). Ammonia injection rate (lb/hr) and turbine load (KW).

PROCESS DETAILS: The LM2500-PK is rated for 290 MMBtu/hr heat input and exhausts into an HRSG with a COEN duct burner. The duct burner is rated at 50.8 MMBtu/hr. Emissions are controlled with a Babcock-Hitachi Selective Catalytic Converter (SCR). The SCR uses ammonia injection for NO_x reduction. The duct dimensions at the sample location are 54" x 125". There are eight (8) sample ports in the duct. However, an integrated sampling probe has been installed by the facility. All sampling was performed from the integrated sampling probe. The sample port locations are located zero diameters upstream and one (1) equivalent diameter downstream from a disturbance; consequently velocity traverses could not be accurately performed.

CEM DATA: CEM data was recorded by the Data Acquisition System (DAS) during the test program in the form of one (1) minute averages. The one (1) minute data averages were then printed out and averaged to obtain CEM data for comparison to the RM data. The CEM data was obtained by plant personnel during the test program and provided to the test team. The CEM data monitored NO_x and CO concentrations corrected to 15% oxygen, oxygen concentrations.

CONTINUOUS MONITORS: NO_x, CO, and O₂ sampling utilized a stainless steel sampling probe connected with a Teflon sampling line to a sample conditioner. The dry gases were then transported through a Teflon line to the sample gas flow panel for distribution to the individual analyzers. Sampling for NO_x, CO and O₂ was performed in accordance with CARB Method 100 and EPA Method 20. NO_x measurements were made utilizing an API 200EH chemiluminescent analyzer. CO concentrations were determined with an API 300EM NDIR w/GFC analyzer. Oxygen concentration was measured utilizing a Servomex Model 1400 paramagnetic analyzer. Initial three (3) point calibrations were performed at the analyzers. Subsequent calibrations were performed through the sample system probe tip (Bias checks). All initial bias checks correlated with the initial instrument calibrations to within 2% of analyzer range. Bias calibrations were performed before and after each test run and used to correct the emissions data for any analyzer drift. All monitor calibrations were performed with EPA Protocol 1 calibration gases.

During all tests, the NO_x and O₂ RM analyzers were operated on the 25 ppmv and 25% scales, respectively. The CO monitor was setup and calibrated for operation on the 100 ppmv scale.

There were no deviations from CARB Method 100 or EPA Method 20 methodology during the test.

All monitored data was continuously recorded on a 10" analog chart recorder. Chart speed was maintained at 10 cm/hr. Analyzer output was also recorded with a PC based Data Acquisition System (DAS) and imported into spreadsheets for determination of average run concentrations.



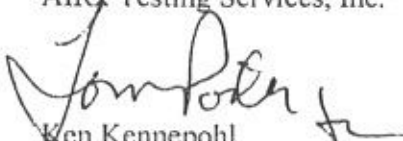
1.0 INTRODUCTION (cont)


FLOWRATE: Stack flow calculations were performed using fuel consumption data (turbine and after burner fuel usages added together) provided by plant personnel, fuel composition and stack oxygen data, in accordance with EPA Method 19.

AMMONIA: Triplicate exhaust duct ammonia samples were collected and analyzed in accordance with BAAQMD Method ST-1B. The sample train consists of four (4) iced impingers, the first two contained approximately 150 ml 0.1N HCl, the third is empty and the fourth contains silica gel. The sample was collected utilizing an EPA Method 5 sampling console. Each sample was collected for a 96 minute period. Three (3) samples were collected for compliance determination. Samples were collected utilizing stainless steel sampling probe. Analysis of the collected ammonia samples was performed by the in house AIRx Testing Services laboratory.

All reporting and calculations have been performed at VCAPCD standard conditions of 68°F and 29.92 inches of Hg. If you have any questions regarding this test program or report, please contact the undersigned at (805) 644-1099.

Respectfully Submitted
AIRx Testing Services, Inc.


Ken Kennepohl
Senior Engineer


Tom Porter
Vice President of Testing Services

CALCULATIONS

CONTINUOUS EMISSIONS MONITORING - CARB METHOD 1-100

Client : New Indy
 Site : Oxnard
 Unit : Turbine

Date : 3/29/2011
 Job# : 23022
 Lab# : 211-028

FIELD DATA

Test Length 96 mins. Points 1 Minute

Standard Temperature: 68 ° F

Drift Corrected Emissions Data

Outlet

NOx	<u>10.6</u> ppm	<u>10.4</u> ppm	<u>10.3</u> ppm
O2	<u>15.1</u> %	<u>15.3</u> %	<u>15.3</u> %
CO	<u>22.7</u> ppm	<u>22.0</u> ppm	<u>22.0</u> ppm

Process Data

Exhaust Flow	<u>155567</u> dscfm	<u>160807</u> dscfm	<u>161101</u> dscfm
F-Factor	<u>8710</u> dscf/MMBtu	<u>8710</u> dscf/MMBtu	<u>8710</u> dscf/MMBtu

Equations used:

$T_{fact} = (10^{-6} * (29.92 / (21.85 * (460 + T_{std})))) * 60$

$lb/hr = [ppmv] * Q * MW * (T_{fact})$

$lb/MM\ Btu = [lb/hr] / [MMBtu/hr]$

$ppmv @ 15\% O_2 = ppm * 5.9(20.9 / (20.9 - O_2))$

MW NOx = 46; CO = 28

CALCULATED EMISSIONS

NOx	<u>10.7</u> ppm @ 15% O2	<u>10.9</u> ppm @ 15% O2	<u>10.8</u> ppm @ 15% O2
	<u>11.76</u> lb/hr	<u>12.01</u> lb/hr	<u>11.85</u> lb/hr
	<u>0.0014</u> lb/MMBtu	<u>0.0014</u> lb/MMBtu	<u>0.0014</u> lb/MMBtu
CO	<u>23.1</u> ppm @ 15% O2	<u>23.1</u> ppm @ 15% O2	<u>23.2</u> ppm @ 15% O2
	<u>15.38</u> lb/hr	<u>15.43</u> lb/hr	<u>15.44</u> lb/hr
	<u>0.0018</u> lb/MMBtu	<u>0.0018</u> lb/MMBtu	<u>0.0018</u> lb/MMBtu

Bias Adjustment

Facility: International Paper
 Source: Turbine
 Date: 03/20/13

Compliance Testing Run No. 1

Parameter	Measured Conc. (ppm.%)	Reference Span gas (ppm.%)	Initial Bias Zero (ppm.%)	Final Bias Zero (ppm.%)	Average Bias Zero (ppm.%)	Initial Bias Span (ppm.%)	Final Bias Span (ppm.%)	Average Bias Span (ppm.%)	Bias Adjusted Conc. (ppm.%)
NOx	10.6	12.0	0.0	0.0	0.0	12.0	12.0	12.0	10.6
O2	15.1	12.0	0.0	0.0	0.0	12.0	12.0	12.0	15.1
CO	22.8	39.7	0.0	0.0	0.0	39.9	39.7	39.8	22.7

Run No. 2

Parameter	Measured Conc. (ppm.%)	Reference Span gas (ppm.%)	Initial Bias Zero (ppm.%)	Final Bias Zero (ppm.%)	Average Bias Zero (ppm.%)	Initial Bias Span (ppm.%)	Final Bias Span (ppm.%)	Average Bias Span (ppm.%)	Bias Adjusted Conc. (ppm.%)
NOx	10.3	12.0	0.0	0.0	0.0	12.0	11.8	11.9	10.4
O2	15.3	12.0	0.0	0.0	0.0	12.0	12.0	12.0	15.3
CO	22.1	39.7	0.0	0.0	0.0	39.7	40.0	39.9	22.0

Run No. 3

Parameter	Measured Conc. (ppm.%)	Reference Span gas (ppm.%)	Initial Bias Zero (ppm.%)	Final Bias Zero (ppm.%)	Average Bias Zero (ppm.%)	Initial Bias Span (ppm.%)	Final Bias Span (ppm.%)	Average Bias Span (ppm.%)	Bias Adjusted Conc. (ppm.%)
NOx	10.2	12.0	0.0	0.0	0.0	11.8	12.0	11.9	10.3
O2	15.3	12.0	0.0	0.0	0.0	12.0	12.0	12.0	15.3
CO	22.1	39.7	0.0	0.0	0.0	40.0	39.9	40.0	22.0

Facility: New Indy
 Source: Turbine
 Date: 03/20/13

Bias Adjustment

Run No. 1

Parameter	Measured Conc. (ppm.%)	Reference Span gas (ppm.%)	Initial Zero (ppm.%)	Final Zero (ppm.%)	Average Zero (ppm.%)	Initial Span (ppm.%)	Final Span (ppm.%)	Average Span (ppm.%)	Adjusted Conc. (ppm.%)
NOx	10.4	12.0	0.0	0.0	0.0	12.0	12.0	12.0	10.4
O2	15.1	12.0	0.0	0.0	0.0	12.0	12.0	12.0	15.1
CO	22.9	39.7	0.0	0.0	0.0	39.9	39.7	39.8	22.9

Run No. 2

Parameter	Measured Conc. (ppm.%)	Reference Span gas (ppm.%)	Initial Zero (ppm.%)	Final Zero (ppm.%)	Average Zero (ppm.%)	Initial Span (ppm.%)	Final Span (ppm.%)	Average Span (ppm.%)	Adjusted Conc. (ppm.%)
NOx	10.6	12.0	0.0	0.0	0.0	12.0	12.0	12.0	10.6
O2	15.1	12.0	0.0	0.0	0.0	12.0	12.0	12.0	15.1
CO	23.2	39.7	0.0	0.0	0.0	39.9	39.7	39.8	23.1

Run No. 3

Parameter	Measured Conc. (ppm.%)	Reference Span gas (ppm.%)	Initial Zero (ppm.%)	Final Zero (ppm.%)	Average Zero (ppm.%)	Initial Span (ppm.%)	Final Span (ppm.%)	Average Span (ppm.%)	Adjusted Conc. (ppm.%)
NOx	10.7	12.0	0.0	0.0	0.0	12.0	12.0	12.0	10.7
O2	15.1	12.0	0.0	0.0	0.0	12.0	12.0	12.0	15.1
CO	22.2	39.7	0.0	0.0	0.0	39.9	39.7	39.8	22.1

Run No. 4

Parameter	Measured Conc. (ppm.%)	Reference Span gas (ppm.%)	Initial Zero (ppm.%)	Final Zero (ppm.%)	Average Zero (ppm.%)	Initial Span (ppm.%)	Final Span (ppm.%)	Average Span (ppm.%)	Adjusted Conc. (ppm.%)
NOx	10.3	12.0	0.0	0.0	0.0	12.0	11.8	11.9	10.4
O2	15.3	12.0	0.0	0.0	0.0	12.0	12.0	12.0	15.3
CO	22.0	39.7	0.0	0.0	0.0	39.7	40.0	39.9	21.9

Run No. 5

Parameter	Measured Conc. (ppm.%)	Reference Span gas (ppm.%)	Initial Zero (ppm.%)	Final Zero (ppm.%)	Average Zero (ppm.%)	Initial Span (ppm.%)	Final Span (ppm.%)	Average Span (ppm.%)	Adjusted Conc. (ppm.%)
NOx	10.4	12.0	0.0	0.0	0.0	12.0	11.8	11.9	10.5
O2	15.3	12.0	0.0	0.0	0.0	12.0	12.0	12.0	15.3
CO	22.4	39.7	0.0	0.0	0.0	39.7	40.0	39.9	22.4

Facility: New Indy
 Source: Turbine
 Date: 03/20/13

Bias Adjustment

Run No. 6

Parameter	Measured Conc. (ppm.%)	Reference Span gas (ppm.%)	Initial Zero (ppm.%)	Final Zero (ppm.%)	Average Zero (ppm.%)	Initial Span (ppm.%)	Final Span (ppm.%)	Average Span (ppm.%)	Adjusted Conc. (ppm.%)
NOx	10.3	12.0	0.0	0.0	0.0	12.0	11.8	11.9	10.4
O2	15.3	12.0	0.0	0.0	0.0	12.0	12.0	12.0	15.3
CO	21.9	39.7	0.0	0.0	0.0	39.7	40.0	39.9	21.8

Run No. 7

Parameter	Measured Conc. (ppm.%)	Reference Span gas (ppm.%)	Initial Zero (ppm.%)	Final Zero (ppm.%)	Average Zero (ppm.%)	Initial Span (ppm.%)	Final Span (ppm.%)	Average Span (ppm.%)	Adjusted Conc. (ppm.%)
NOx	10.1	12.0	0.0	0.0	0.0	11.8	12.0	11.9	10.1
O2	15.3	12.0	0.0	0.0	0.0	12.0	12.0	12.0	15.3
CO	21.5	39.7	0.0	0.0	0.0	40.0	39.9	40.0	21.3

Run No. 8

Parameter	Measured Conc. (ppm.%)	Reference Span gas (ppm.%)	Initial Zero (ppm.%)	Final Zero (ppm.%)	Average Zero (ppm.%)	Initial Span (ppm.%)	Final Span (ppm.%)	Average Span (ppm.%)	Adjusted Conc. (ppm.%)
NOx	10.2	12.0	0.0	0.0	0.0	11.8	12.0	11.9	10.3
O2	15.3	12.0	0.0	0.0	0.0	12.0	12.0	12.0	15.3
CO	22.6	39.7	0.0	0.0	0.0	40.0	39.9	40.0	22.4

Run No. 9

Parameter	Measured Conc. (ppm.%)	Reference Span gas (ppm.%)	Initial Zero (ppm.%)	Final Zero (ppm.%)	Average Zero (ppm.%)	Initial Span (ppm.%)	Final Span (ppm.%)	Average Span (ppm.%)	Adjusted Conc. (ppm.%)
NOx	10.3	12.0	0.0	0.0	0.0	11.8	12.0	11.9	10.4
O2	15.3	12.0	0.0	0.0	0.0	12.0	12.0	12.0	15.3
CO	22.4	39.7	0.0	0.0	0.0	40.0	39.9	40.0	22.3

FIELD DATA & CALCULATIONS SUMMARY

Client: **International Paper**
Site: **Oxnard**
Unit: **Turbine**

Date: **3/20/2013**
Type: **T std = 68 °F**
Run: **1-NH3**

Vm	Metered Sample Gas Volume	73.948	dcf		
Lp	Avg. Leak Rate	0.002	cf		
Vn	Leak Corrected Sample Gas Volume	73.948	dcf		
Y	Dry Gas Meter Calibration Factor	0.9961			
Pbar	Barometric Pressure	30.06	in. Hg		
del H	Dry Gas Meter Press. Differential, Average	2.4	in. H2O		
Tm	Dry Gas Meter Temperature, Average	66.0	°F	526.0	°R
Vm(std)	Sample Gas Volume	74.7218	dscf		
O2	Oxygen, Dry	15.1	%		
Theta	Sampling Time	96	min.		

CALCULATED EMISSION RESULTS

Client: **International Paper**
Site: **Oxnard**
Unit: **Turbine**

Date: **3/20/2013**
Type: **T std = 68 °F**
Run: **1-NH3**

AMMONIA AS NH3

Ws	Ammonia Weight	0.00161	g		
Cs	Ammonia Emissions	0.00033	grain/dscf		
	Ammonia Concentration	1.1	ppmv		
	Ammonia Concentration	1.1	ppmv @ 15% O2		

FIELD DATA & CALCULATIONS SUMMARY

Client: **New Indy**
Site: **Oxnard**
Unit: **Turbine**

Date: **2/11/2008**
Type: **T std = 68 °F**
Run: **2-NH3**

Vm	Metered Sample Gas Volume	76.032	dcf		
Lp	Avg. Leak Rate	0.002	cf		
Vn	Leak Corrected Sample Gas Volume	76.032	dcf		
Y	Dry Gas Meter Calibration Factor	0.9961			
Pbar	Barometric Pressure	30.10	in. Hg		
del H	Dry Gas Meter Press. Differential, Average	2.4	in. H2O		
Tm	Dry Gas Meter Temperature, Average	68.7	°F	528.7	°R
Vm(std)	Sample Gas Volume	76.5424	dscf		
O2	Oxygen, Dry	15.3	%		
Theta	Sampling Time	96	min.		

CALCULATED EMISSION RESULTS

Client: **New Indy**
Site: **Oxnard**
Unit: **Turbine**

Date: **2/11/2008**
Type: **T std = 68 °F**
Run: **2-NH3**

AMMONIA AS NH3

Ws	Ammonia Weight	0.00181	g		
Cs	Ammonia Emissions	0.00036	grain/dscf		
	Ammonia Concentration	1.2	ppmv		
	Ammonia Concentration	1.2	ppmv @ 15% O2		

FIELD DATA & CALCULATIONS SUMMARY

Client: **New Indy**
Site: **Oxnard**
Unit: **Turbine**

Date: **3/29/2011**
Type: **T std = 68 °F**
Run: **3-NH3**

Vm	Metered Sample Gas Volume	74.598	dcf		
Lp	Avg. Leak Rate	0.001	cf		
Vn	Leak Corrected Sample Gas Volume	74.598	dcf		
Y	Dry Gas Meter Calibration Factor	0.9961			
Pbar	Barometric Pressure	30.06	in. Hg		
del H	Dry Gas Meter Press. Differential, Average	2.4	in. H2O		
Tm	Dry Gas Meter Temperature, Average	72.7	°F	532.7	°R
Vm(std)	Sample Gas Volume	74.4354	dscf		
O2	Oxygen, Dry	15.3	%		
Theta	Sampling Time	96	min.		

CALCULATED EMISSION RESULTS

Client: **New Indy**
Site: **Oxnard**
Unit: **Turbine**

Date: **3/29/2011**
Type: **T std = 68 °F**
Run: **3-NH3**

AMMONIA AS NH3

Ws	Ammonia Weight	0.00164	g
Cs	Ammonia Emissions	0.00034	grain/dscf
	Ammonia Concentration	1.1	ppmv
	Ammonia Concentration	1.1	ppmv @ 15% O2

"F" FACTOR EXHAUST GAS FLOWRATE CALCULATION

Client : New Indy
Site : Oxnard
Unit : Turbine

Date : 3/29/2011
Job# : 23022
Lab# : 213-031

"F" Factor, Q(std): 8710 dscf/MMBTU

Standard Temperature, T std: 68 deg. F

	Run 1	Run 2	Run 3
Oxygen, % (avg)	15.1	15.3	15.3
Fuel Usage, dscfm (avg)	4724.1	4742.4	4713.2
MMBTU/min	4.9603	4.9795	4.9489
Flowrate ("F" Factor), dscfm	155567	160807	161101

formulae:

$$\text{MMBTU/min} = (\text{Fuel Usage} * 1050 \text{ Btu/ft}^3) / 10^6$$

$$\text{Flowrate ("F" Factor)} = \text{"F" Factor} * \text{MMBTU/min} * (20.0 / (20.9 - O_2))$$

LABORATORY ANALYSIS

Client: New Indy
 Site: Oxnard
 Unit: Turbine

 Analysis Date: 3/20/2013
 Lab: 213-031

Run#:	Sample Volume (ml)	Aliquot Volume (ml)	Reading ug/ml	Dilution
<u>R1</u>	<u>527</u>	<u>49</u>	<u>3.2</u>	<u>1</u>
	Total NH3 mg/sample		<u>1.61</u>	
<u>R-2</u>	<u>470</u>	<u>49</u>	<u>4.0</u>	<u>1</u>
	Total NH3 mg/sample		<u>1.81</u>	
<u>R-3</u>	<u>395</u>	<u>49</u>	<u>4.3</u>	<u>1</u>
	Total NH3 mg/sample		<u>1.64</u>	
<u>R2 (Duplicate)</u>	<u>470</u>	<u>49</u>	<u>4.1</u>	<u>1</u>
	Total NH3 mg/sample		<u>1.86</u>	
<u>0.1 N HCL Blank</u>	<u>100</u>	<u>49</u>	<u>0.15</u>	<u>1</u>
<u>R-2</u>	<u>470</u>	<u>48</u>	<u>4.9</u>	<u>1</u>
Spike (1 ug/ml)	Theoretical Value =		<u>4.9</u>	(ug/ml)
% Recovery			<u>100.0</u>	%
Analyst: <u>Tom Porter</u>				



X TESTING

A Division of **Justice & Associates**

BAAQMD METHOD ST-1B
AMMONIA

Client: New Indy
Site: Oxnard
Unit: Turbine

Date: 3/20/13
Lab: 213-03

Run#:	Sample Volume (ml)	Aliquot Volume (ml)	Reading ug/ml	Dilution
<u>1</u>	<u>527</u>	<u>49</u>	<u>3.2</u>	<u>1</u>

pH < 1

Run#:	Sample Volume (ml)	Aliquot Volume (ml)	Reading ug/ml	Dilution
<u>2</u>	<u>470</u>	<u>49</u>	<u>4.0</u>	<u>1</u>

pH < 1

Run#:	Sample Volume (ml)	Aliquot Volume (ml)	Reading ug/ml	Dilution
<u>3</u>	<u>395</u>	<u>49</u>	<u>4.3</u>	<u>1</u>

pH < 1

Run #:	Sample Volume (ml)	Aliquot Volume (ml)	Reading ug/ml	Dilution
<u>2</u> Duplicate	<u>470</u>	<u>49</u>	<u>4.1</u>	<u>1</u>

0.1 N HCl Blank	Sample Volume (ml)	Aliquot Volume (ml)	Reading ug/ml	Dilution
	<u>49</u>	<u>49</u>	<u>0.5</u>	

Run #:	Sample Volume (ml)	Aliquot Volume (ml)	Reading ug/ml	Dilution
<u>2</u>	<u>870</u>	<u>48</u>	<u>4.9</u>	<u>1</u>

Spike (1 ug/ml) Theoretical = 4.9 (ug/ml)

Analyst: JP

Date: 3/21/13

FIELD DATA & STRIP CHARTS

EMISSIONS TEST - CARB 100

Date: 3/20/2013

**** Test Information ****

Client: New Indy
 County: Ventura
 Site(s): Oxnard
 Unit(s): Turbine

**** Personnel ****

AIRx: KK, BR
 Client: RL
 APCD: LO

Run Length:	96/32	Inlet ()	Outlet (X)	Fuel ()	HC ()	
No. Points:	96/32	S.T. (X)	E.I. ()	Data ()	H2S ()	NH3 ()
	Time	Baro.	Temp.		Weather.	
Arrive:	6:00 AM	30.06	53		Clear	
Depart:	7:00 PM	28.84	86		Clear	

**** Instrument Information ****

Instrument	"On"	Unit#	Make/Model
O2:	1	9	Servomex
CO:	1	1	API 300EM
NOx:	1	1	API 200EII

Recorder: Soltech 10 cm/hr

**** Calibration Information ****

	Units	Zero	Span	Range	Gas Cyl.#	Gas Flow
O2:	%	0	12.0	25	SA18780	0.8
O2:	%	0	20.1	25	CC187330	0.8
CO:	ppmv	0	39.7	50	CC163751	1
CO:	ppmv	0	79.9	50	CC99455	1
NOx:	ppmv	0	12.0	10	CC80588	1
NOx:	ppmv	0	19.7	10	CC283473	1
NO2:	ppmv	0	19.4	10	CC320673	1

**** Recorder Information ****

		Chanl.	Pen Type	Color
O2:	%	3	Cont.	Green
CO:	ppmv	2	Cont.	Red
NOx:	ppmv	4	Cont.	Brown

CLIENT
PLANT
DATE
ENGINEER

New Indv
Onnard
3/20/2013
K.K. BR

JOB#
RUN#
RUN START

213-011
Compliance R1
8:20:00 AM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
10.6	22.8	15.1	10.7	23.1	Averages
8.7	23.1	15.1	8.8	23.5	8:20:00
9.1	23.1	15.1	9.2	23.4	8:21:00
9.6	23.1	15.1	9.7	23.5	8:22:00
10.1	23.1	15.1	10.2	23.5	8:23:00
10.2	23.1	15.1	10.3	23.5	8:24:00
10.3	22.9	15.1	10.5	23.2	8:25:00
10.4	22.8	15.1	10.6	23.1	8:26:00
10.5	22.7	15.1	10.6	22.9	8:27:00
10.6	22.6	15.1	10.7	22.8	8:28:00
10.5	22.6	15.1	10.4	22.8	8:29:00
10.5	22.6	15.1	10.6	22.8	8:30:00
10.5	22.6	15.0	10.6	22.7	8:31:00
10.5	22.5	15.0	10.6	22.5	8:32:00
10.6	22.6	15.0	10.7	22.7	8:33:00
10.6	22.7	15.0	10.7	22.8	8:34:00
10.7	22.8	15.0	10.8	23.0	8:35:00
10.6	22.9	15.0	10.7	23.1	8:36:00
10.6	23.0	15.1	10.7	23.2	8:37:00
10.6	23.0	15.1	10.7	23.2	8:38:00
10.6	23.1	15.1	10.7	23.4	8:39:00
10.6	23.1	15.1	10.7	23.4	8:40:00
10.7	23.2	15.1	10.9	23.5	8:41:00
10.6	23.1	15.1	10.9	23.4	8:42:00
10.6	23.1	15.1	10.8	23.4	8:43:00
10.5	23.1	15.1	10.6	23.4	8:44:00
10.6	23.1	15.1	10.7	23.4	8:45:00
10.6	23.2	15.1	10.7	23.5	8:46:00
10.6	23.3	15.1	10.8	23.6	8:47:00
10.7	23.2	15.1	10.8	23.6	8:48:00
10.7	23.1	15.1	10.9	23.5	8:49:00
10.5	23.1	15.1	10.7	23.5	8:50:00
10.7	23.1	15.1	10.8	23.5	8:51:00
10.6	23.0	15.1	10.8	23.4	8:52:00
10.6	22.9	15.1	10.8	23.4	8:53:00
10.6	22.0	15.1	10.8	23.3	8:54:00
10.5	22.9	15.1	10.7	23.3	8:55:00
10.8	22.9	15.1	10.9	23.3	8:56:00
10.9	22.9	15.1	11.1	23.3	8:57:00
10.7	22.9	15.1	10.9	23.3	8:58:00
10.7	22.9	15.1	10.9	23.3	8:59:00
10.6	22.9	15.1	10.8	23.4	9:00:00
10.6	22.8	15.1	10.8	23.3	9:01:00
10.7	22.0	15.1	10.9	23.6	9:02:00
10.6	23.1	15.1	10.8	23.7	9:03:00
10.7	23.1	15.1	10.9	23.6	9:04:00
10.6	23.2	15.1	10.8	23.7	9:05:00
10.6	23.2	15.1	10.8	23.7	9:06:00
10.4	23.3	15.1	10.6	23.8	9:07:00
10.5	23.4	15.2	10.7	24.0	9:08:00
10.5	23.4	15.2	10.7	24.0	9:09:00
10.8	23.4	15.1	11.1	23.9	9:10:00
10.7	23.5	15.1	11.0	24.0	9:11:00
10.7	23.4	15.1	10.9	23.9	9:12:00
10.6	23.5	15.1	10.9	24.1	9:13:00
10.6	23.8	15.1	10.8	24.3	9:14:00
10.5	23.8	15.1	10.7	24.4	9:15:00
10.4	23.7	15.2	10.7	24.4	9:16:00
10.6	23.6	15.2	10.9	24.3	9:17:00
10.6	23.6	15.2	10.8	24.2	9:18:00
10.4	23.4	15.1	10.6	24.0	9:19:00
10.5	23.4	15.1	10.8	24.0	9:20:00
10.5	23.1	15.1	10.7	23.6	9:21:00
10.7	23.0	15.1	10.9	23.4	9:22:00
10.6	22.8	15.1	10.7	23.1	9:23:00
10.8	22.7	15.1	10.9	23.0	9:24:00
10.8	22.5	15.1	11.0	22.8	9:25:00
10.8	22.4	15.1	11.0	22.8	9:26:00
10.6	22.4	15.1	10.8	22.8	9:27:00
10.7	22.4	15.1	10.9	22.8	9:28:00
10.8	22.3	15.1	11.0	22.8	9:29:00
10.7	22.4	15.1	10.9	22.9	9:30:00
10.7	22.4	15.1	10.9	22.8	9:31:00
10.9	22.5	15.1	11.1	22.9	9:32:00
10.8	22.6	15.1	11.0	23.0	9:33:00
10.6	22.7	15.1	10.8	23.1	9:34:00
10.7	22.7	15.1	10.9	23.2	9:35:00
10.6	22.7	15.1	10.9	23.2	9:36:00
10.6	22.6	15.1	10.8	23.1	9:37:00
10.7	22.4	15.1	10.9	22.9	9:38:00
10.5	22.5	15.1	10.8	22.9	9:39:00
10.6	22.5	15.1	10.8	22.9	9:40:00
10.6	22.5	15.1	10.8	22.9	9:41:00
10.6	22.4	15.1	10.8	22.8	9:42:00
10.7	22.3	15.1	10.8	22.6	9:43:00
10.6	22.2	15.1	10.7	22.5	9:44:00
10.5	22.1	15.1	10.7	22.5	9:45:00
10.7	22.0	15.1	10.8	22.3	9:46:00
10.9	21.9	15.1	11.0	22.2	9:47:00
11.0	21.6	15.1	11.2	21.8	9:48:00
10.7	21.3	15.1	10.8	21.5	9:49:00
10.7	21.2	15.1	10.8	21.4	9:50:00
10.7	21.1	15.1	10.8	21.3	9:51:00
10.7	21.2	15.0	10.7	21.3	9:52:00
10.8	21.4	15.1	10.9	21.5	9:53:00
10.7	21.4	15.1	10.9	21.7	9:54:00
10.7	21.6	15.1	10.9	21.0	9:55:00
10.9	21.7	15.1	11.0	21.0	9:56:00

CLIFNT
PLANT
DATE
ENGINEER

New Inds
Oxnard
3/20/2013
KK, BR

JOB#
RUN#
RUN START

213-011
Compliance R2
11 07 00 AM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	Averages
10.3	22.1	15.3	10.8	23.1	
10.4	21.9	15.3	10.9	23.0	11:07:00
10.2	22.1	15.3	10.7	23.1	11:08:00
10.3	22.0	15.3	10.8	23.1	11:09:00
10.4	22.0	15.3	10.9	23.1	11:10:00
10.4	22.0	15.3	10.9	23.1	11:11:00
10.2	22.0	15.3	10.8	23.2	11:12:00
10.2	22.0	15.3	10.7	23.2	11:13:00
10.3	22.2	15.3	10.8	23.3	11:14:00
10.2	22.2	15.3	10.7	23.3	11:15:00
10.3	22.3	15.3	10.7	23.4	11:16:00
10.3	22.4	15.3	10.8	23.5	11:17:00
10.4	22.4	15.3	10.9	23.5	11:18:00
10.5	22.3	15.3	11.0	23.5	11:19:00
10.4	22.3	15.3	11.0	23.7	11:20:00
10.3	22.2	15.3	10.8	23.3	11:21:00
10.3	22.3	15.2	10.7	23.3	11:22:00
10.5	22.4	15.3	11.0	23.4	11:23:00
10.4	22.2	15.3	10.9	23.3	11:24:00
10.4	22.0	15.3	10.9	23.3	11:25:00
10.3	21.9	15.3	10.8	23.0	11:26:00
10.4	21.8	15.3	10.9	22.8	11:27:00
10.3	21.8	15.3	11.0	22.9	11:28:00
10.2	21.7	15.3	10.8	22.8	11:29:00
10.2	21.7	15.3	10.8	22.8	11:30:00
10.3	21.6	15.3	10.8	22.6	11:31:00
10.1	21.7	15.3	10.7	22.7	11:32:00
10.4	21.7	15.3	10.8	22.6	11:33:00
10.4	21.6	15.2	10.9	22.5	11:34:00
10.2	21.6	15.2	10.7	22.5	11:35:00
10.3	21.8	15.2	10.7	22.7	11:36:00
10.3	21.8	15.2	10.7	22.7	11:37:00
10.4	21.9	15.2	10.8	22.8	11:38:00
10.5	22.0	15.2	10.9	22.8	11:39:00
10.5	22.0	15.2	10.9	22.9	11:40:00
10.5	22.1	15.2	10.9	23.0	11:41:00
10.3	22.3	15.2	10.8	23.0	11:42:00
10.5	22.3	15.2	10.8	23.1	11:43:00
10.5	22.4	15.3	11.0	23.3	11:44:00
10.3	22.1	15.3	10.9	23.2	11:45:00
10.4	21.9	15.3	11.0	23.2	11:46:00
10.4	21.9	15.3	10.9	23.0	11:47:00
10.5	22.2	15.2	10.9	23.1	11:48:00
10.4	22.4	15.2	10.8	23.3	11:49:00
10.5	22.4	15.3	10.9	23.3	11:50:00
10.5	22.5	15.2	11.0	23.4	11:51:00
10.5	22.6	15.2	10.9	23.6	11:52:00
10.7	22.7	15.3	10.8	23.7	11:53:00
10.3	22.7	15.2	10.8	23.6	11:54:00
10.4	22.8	15.2	10.9	23.8	11:55:00
10.5	22.8	15.2	11.0	23.7	11:56:00
10.3	22.8	15.3	10.8	23.8	11:57:00
10.4	22.7	15.3	10.9	23.8	11:58:00
10.3	22.6	15.3	10.8	23.8	11:59:00
10.2	22.7	15.3	10.7	23.9	12:01:00
10.2	23.0	15.3	10.7	24.1	12:02:00
10.4	22.8	15.3	10.8	23.9	12:03:00
10.5	22.7	15.3	11.0	23.7	12:04:00
10.3	22.8	15.3	10.8	23.8	12:05:00
10.3	22.5	15.3	10.7	23.6	12:06:00
10.4	22.3	15.3	10.9	23.5	12:07:00
10.4	22.3	15.3	10.9	23.4	12:08:00
10.2	22.3	15.3	10.7	23.2	12:09:00
10.2	22.3	15.2	10.6	23.2	12:10:00
10.3	22.2	15.3	10.8	23.2	12:11:00
10.3	22.0	15.3	10.8	23.0	12:12:00
10.4	21.9	15.2	10.8	22.8	12:13:00
10.3	21.9	15.2	10.8	22.8	12:14:00
10.3	22.0	15.3	10.7	22.9	12:15:00
10.3	22.1	15.2	10.8	23.1	12:16:00
10.2	22.0	15.3	10.7	23.0	12:17:00
10.4	21.7	15.3	10.9	22.8	12:18:00
10.3	21.8	15.2	10.8	22.7	12:19:00
10.4	22.2	15.3	10.9	23.2	12:20:00
10.4	22.4	15.3	10.8	23.4	12:21:00
10.3	22.4	15.3	10.8	23.4	12:22:00
10.5	22.2	15.3	11.0	23.3	12:23:00
10.4	22.0	15.3	11.0	23.2	12:24:00
10.3	22.0	15.3	10.9	23.1	12:25:00
10.3	22.1	15.3	10.8	23.1	12:26:00
10.4	21.8	15.3	10.9	22.9	12:27:00
10.2	21.7	15.3	10.7	22.8	12:28:00
10.1	21.5	15.3	10.5	22.5	12:29:00
10.4	21.5	15.3	10.9	22.5	12:30:00
10.3	21.6	15.2	10.8	22.5	12:31:00
10.3	21.6	15.3	10.8	22.6	12:32:00
10.5	21.6	15.3	11.0	22.6	12:33:00
10.5	21.7	15.3	11.0	22.6	12:34:00
10.3	21.8	15.2	10.8	22.7	12:35:00
10.3	21.8	15.3	10.9	22.9	12:36:00
10.3	21.7	15.3	10.9	22.8	12:37:00
10.5	21.8	15.3	11.0	22.9	12:38:00
10.3	21.8	15.3	10.9	23.0	12:39:00
10.2	21.9	15.3	10.7	23.0	12:40:00
10.4	22.1	15.3	10.8	23.1	12:41:00
10.4	22.1	15.3	10.8	23.1	12:42:00
10.2	22.3	15.3	10.9	23.9	12:43:00

CLIENT:
PLANT:
DATE:
ENGINEER:

New Indr
Oswald
3/20/2013
KK, BR

JOB#
RUN#
RUN START

211-031
Compliance R3
1 10 00 PM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	Averages
10.2	22.1	15.3	10.8	23.4	
9.8	21.1	15.4	10.5	22.4	13:10:00
9.9	21.0	15.3	10.5	22.2	13:11:00
9.8	21.0	15.3	10.4	22.2	13:12:00
9.8	21.0	15.3	10.3	22.2	13:13:00
9.9	21.0	15.3	10.4	22.1	13:14:00
10.0	21.0	15.3	10.6	22.5	13:15:00
9.9	21.3	15.4	10.6	22.6	13:16:00
10.0	21.5	15.3	10.6	22.7	13:17:00
10.0	21.5	15.3	10.6	22.7	13:18:00
10.0	21.4	15.4	10.7	22.9	13:19:00
9.8	21.3	15.3	10.4	22.6	13:20:00
10.0	21.5	15.3	10.6	22.7	13:21:00
10.1	21.2	15.4	10.7	22.6	13:22:00
10.1	21.3	15.3	10.6	22.6	13:23:00
10.0	21.3	15.3	10.6	22.5	13:24:00
10.0	21.2	15.3	10.7	22.5	13:25:00
10.1	21.2	15.3	10.6	22.2	13:26:00
10.2	21.4	15.3	10.7	22.4	13:27:00
10.1	21.5	15.3	10.6	22.6	13:28:00
10.2	21.6	15.3	10.8	22.7	13:29:00
10.1	21.6	15.3	10.7	22.7	13:30:00
10.1	21.7	15.3	10.6	22.7	13:31:00
10.3	21.7	15.3	10.9	22.9	13:32:00
10.4	21.8	15.3	10.9	22.8	13:33:00
10.3	21.9	15.3	10.8	23.0	13:34:00
10.2	21.9	15.3	10.8	23.0	13:35:00
10.3	21.9	15.3	10.8	23.1	13:36:00
10.2	21.8	15.3	10.7	23.0	13:37:00
10.2	21.8	15.3	10.8	23.1	13:38:00
10.1	21.8	15.3	10.7	23.1	13:39:00
10.0	21.8	15.3	10.6	23.1	13:40:00
10.2	21.9	15.1	10.8	23.2	13:41:00
10.2	22.1	15.3	10.8	23.4	13:42:00
10.2	21.9	15.4	11.0	23.4	13:43:00
10.1	21.8	15.4	10.8	23.2	13:44:00
10.2	22.0	15.4	10.6	23.4	13:45:00
10.0	22.2	15.3	10.6	23.4	13:46:00
10.1	22.3	15.3	10.7	23.6	13:47:00
10.3	22.1	15.3	10.9	23.4	13:48:00
10.3	22.1	15.4	11.0	23.6	13:49:00
10.2	21.8	15.3	10.7	23.0	13:50:00
10.2	22.1	15.3	10.7	23.3	13:51:00
10.2	22.1	15.3	10.8	23.4	13:52:00
10.2	22.2	15.3	10.7	23.4	13:53:00
10.2	22.4	15.1	10.8	23.7	13:54:00
10.1	22.5	15.1	10.9	23.8	13:55:00
10.3	22.6	15.3	10.9	23.8	13:56:00
10.1	22.7	15.3	10.9	24.0	13:57:00
10.1	22.8	15.3	10.7	24.1	13:58:00
10.1	22.9	15.3	10.6	24.2	13:59:00
10.3	23.1	15.3	10.8	24.4	14:00:00
10.3	23.2	15.3	10.9	24.5	14:01:00
10.1	23.2	15.3	10.8	24.6	14:02:00
10.3	23.2	15.4	10.9	24.7	14:03:00
10.0	23.2	15.4	10.7	24.7	14:04:00
10.1	23.3	15.3	10.7	24.8	14:05:00
10.2	23.4	15.3	10.8	24.3	14:06:00
10.2	22.3	15.3	10.8	24.0	14:07:00
10.2	22.9	15.3	10.8	24.0	14:08:00
10.0	22.9	15.3	10.6	24.2	14:09:00
10.4	22.6	15.3	11.0	24.2	14:10:00
10.3	22.4	15.3	10.9	23.9	14:11:00
10.4	22.4	15.3	10.9	23.5	14:12:00
10.4	22.4	15.3	10.9	23.5	14:13:00
10.3	22.2	15.3	10.8	23.3	14:14:00
10.4	22.2	15.3	10.7	23.2	14:15:00
10.2	22.2	15.3	10.9	23.3	14:16:00
10.2	22.1	15.3	10.7	23.2	14:17:00
10.3	22.1	15.3	10.9	23.3	14:18:00
10.4	22.1	15.3	11.0	23.3	14:19:00
10.4	22.1	15.3	10.9	23.2	14:20:00
10.3	22.1	15.3	11.1	23.3	14:21:00
10.4	22.1	15.3	10.8	23.2	14:22:00
10.5	22.0	15.3	10.9	23.3	14:23:00
10.2	22.1	15.3	11.1	23.3	14:24:00
10.2	22.0	15.3	10.8	23.3	14:25:00
10.4	22.1	15.3	10.7	23.1	14:26:00
10.1	22.1	15.3	10.9	23.2	14:27:00
10.2	22.5	15.3	10.8	23.6	14:28:00
10.2	22.7	15.3	10.7	23.8	14:29:00
10.2	22.5	15.3	10.7	23.6	14:30:00
10.3	22.0	15.3	10.8	23.1	14:31:00
10.3	22.5	15.3	10.8	23.6	14:32:00
10.4	22.7	15.3	10.9	23.8	14:33:00
10.4	22.8	15.3	11.0	24.0	14:34:00
10.4	22.9	15.3	10.9	24.1	14:35:00
10.4	23.0	15.3	10.9	24.2	14:36:00
10.3	23.1	15.3	10.8	24.3	14:37:00
10.4	23.3	15.3	10.9	24.4	14:38:00
10.3	23.2	15.3	10.8	24.4	14:39:00
10.4	22.7	15.3	10.8	23.9	14:40:00
10.3	22.9	15.3	11.0	24.1	14:41:00
10.3	22.6	15.3	10.8	23.8	14:42:00
10.3	22.6	15.3	10.8	23.7	14:43:00
10.3	22.6	15.3	10.8	23.7	14:44:00
10.3	22.0	15.3	10.9	23.3	14:45:00
10.4	21.5	15.3	11.0	22.7	14:46:00

EMISSIONS TEST - SCAQMD Method 100.1

Date: 03/20/13

Job #: 213-031
Client #: 23021

**** Test Information ****

Client: New Indy
County: Ventura
Site(s): Oxnard, CA
Unit(s): Turbine

**** Personnel ****

AIRx: KK-BR
Client: RL
APCD: LO

Run Length:	60	Inlet ()	Outlet(X)	Fuel ()	HC's()	
No. Points:	Single	S.T.(X)	E.I.()	Data()	112S ()	NH3 ()
	Time	Baro.	Temp.		Weather.	
Arrive:	6:00	30.06	53		Clear	
Depart:	19:00	28.84	86		Clear	

**** Instrument Information ****

Instrument	"On"	Unit#	Make/Model
Outlet NOx:	1	1	API 200EH
O2:	1	9	Servomex 1400
CO:	1	1	API 300EM

Recorders: Soltec 6 pin 10 cm/hr

**** Calibration Information ****

	Units	Zero	Span	Range	Gas Cyl.#	Gas Flow
NOx:	ppmv	0.0	12.0	25	AL3056	1.0
NOx:	ppmv	0.0	19.7	25	AAL2398	1.0
NO2:	ppmv	0.0	19.4	25	AAL12591	1.0
O2:	%	0.0	12.0	25	ALM041403	0.6
O2:	%	0.0	20.1	25	ALM031868	0.6
CO:	ppmv	0.0	39.7	100	CC15628	1.0
CO:	ppmv	0.0	79.9	100	ALM044989	0.6

**** Recorder Information ****

		Chanl.	Pen Type	Color
Outlet NOx:	ppmv	4	Cont.	Brown
O2:	%	3	Cont.	Green

CLIENT:	New Indy	JOB#	213-031
PLANT:	Oxnard, CA	RUN#	RATA 1
DATE:	3/20/2013	UNIT ID:	Turbine
ENGINEER:	KK-BR	RUN START:	8:20 AM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
8.7	23.1	15.1	8.8	23.5	8:20:00
9.1	23.1	15.1	9.2	23.4	8:21:00
9.6	23.1	15.1	9.7	23.5	8:22:00
10.1	23.1	15.1	10.2	23.5	8:23:00
10.2	23.1	15.1	10.3	23.5	8:24:00
10.3	22.9	15.1	10.5	23.2	8:25:00
10.4	22.8	15.1	10.6	23.1	8:26:00
10.5	22.7	15.1	10.6	22.9	8:27:00
10.6	22.6	15.1	10.7	22.8	8:28:00
10.3	22.6	15.1	10.4	22.8	8:29:00
10.5	22.6	15.1	10.6	22.8	8:30:00
10.5	22.6	15.0	10.6	22.7	8:31:00
10.5	22.5	15.0	10.6	22.5	8:32:00
10.6	22.6	15.0	10.7	22.7	8:33:00
10.6	22.7	15.0	10.7	22.8	8:34:00
10.7	22.8	15.0	10.8	23.0	8:35:00
10.6	22.9	15.0	10.7	23.1	8:36:00
10.6	23.0	15.1	10.7	23.2	8:37:00
10.6	23.0	15.1	10.7	23.2	8:38:00
10.6	23.1	15.1	10.7	23.4	8:39:00
10.6	23.1	15.1	10.7	23.4	8:40:00
10.7	23.2	15.1	10.9	23.5	8:41:00
10.7	23.1	15.1	10.9	23.4	8:42:00
10.6	23.1	15.1	10.8	23.4	8:43:00
10.5	23.1	15.1	10.6	23.4	8:44:00
10.6	23.1	15.1	10.7	23.4	8:45:00
10.6	23.2	15.1	10.7	23.5	8:46:00
10.6	23.3	15.1	10.8	23.6	8:47:00
10.7	23.2	15.1	10.8	23.6	8:48:00
10.7	23.1	15.1	10.9	23.5	8:49:00
10.5	23.1	15.1	10.7	23.5	8:50:00
10.7	23.1	15.1	10.8	23.5	8:51:00
10.6	23.0	15.1	10.8	23.4	8:52:00
10.4	22.9	15.1	10.5	23.2	Averages

CLIENT:	New Indy	JOB#	213-031
PLANT:	Oxnard, CA	RUN#	RATA 2
DATE:	3/20/2013	UNIT ID:	Turbine
ENGINEER:	KK-BR	RUN START:	8:52 AM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
10.6	23.0	15.1	10.8	23.4	8:52:00
10.6	22.9	15.1	10.8	23.4	8:53:00
10.6	22.9	15.1	10.8	23.3	8:54:00
10.5	22.9	15.1	10.7	23.3	8:55:00
10.8	22.9	15.1	10.9	23.3	8:56:00
10.9	22.9	15.1	11.1	23.3	8:57:00
10.7	22.9	15.1	10.9	23.3	8:58:00
10.7	22.9	15.1	10.9	23.3	8:59:00
10.6	22.9	15.1	10.8	23.4	9:00:00
10.6	22.8	15.1	10.8	23.3	9:01:00
10.7	23.0	15.1	10.9	23.6	9:02:00
10.6	23.1	15.1	10.8	23.7	9:03:00
10.7	23.1	15.1	10.9	23.6	9:04:00
10.6	23.2	15.1	10.8	23.7	9:05:00
10.6	23.2	15.1	10.8	23.7	9:06:00
10.4	23.3	15.1	10.6	23.8	9:07:00
10.5	23.4	15.2	10.7	24.0	9:08:00
10.5	23.4	15.2	10.7	24.0	9:09:00
10.8	23.4	15.1	11.1	23.9	9:10:00
10.7	23.5	15.1	11.0	24.0	9:11:00
10.7	23.4	15.1	10.9	23.9	9:12:00
10.6	23.5	15.1	10.9	24.1	9:13:00
10.6	23.8	15.1	10.8	24.3	9:14:00
10.5	23.8	15.1	10.7	24.4	9:15:00
10.4	23.7	15.2	10.7	24.4	9:16:00
10.6	23.6	15.2	10.9	24.3	9:17:00
10.6	23.6	15.2	10.8	24.2	9:18:00
10.4	23.4	15.1	10.6	24.0	9:19:00
10.5	23.4	15.1	10.8	24.0	9:20:00
10.5	23.1	15.1	10.7	23.6	9:21:00
10.7	23.0	15.1	10.9	23.4	9:22:00
10.6	22.8	15.1	10.7	23.1	9:23:00
10.8	22.7	15.1	10.9	23.0	9:24:00
10.6	23.2	15.1	10.8	23.7	Averages

CLIENT:	New Indy	JOB#	213-031
PLANT:	Oxnard, CA	RUN#	RATA 3
DATE:	3/20/2013	UNIT ID:	Turbine
ENGINEER:	KK-BR	RUN START:	9:24 AM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	Time
10.8	22.7	15.1	10.9	23.0	9:24:00
10.8	22.5	15.1	11.0	22.8	9:25:00
10.8	22.4	15.1	11.0	22.8	9:26:00
10.8	22.4	15.1	11.0	22.8	9:27:00
10.6	22.4	15.1	10.8	22.8	9:28:00
10.7	22.4	15.1	10.9	22.8	9:29:00
10.8	22.3	15.1	11.0	22.8	9:30:00
10.7	22.4	15.1	10.9	22.9	9:31:00
10.7	22.4	15.1	10.9	22.8	9:32:00
10.9	22.5	15.1	11.1	22.9	9:33:00
10.8	22.6	15.1	11.0	23.0	9:34:00
10.6	22.7	15.1	10.8	23.1	9:35:00
10.7	22.7	15.1	10.9	23.2	9:36:00
10.6	22.7	15.1	10.9	23.2	9:37:00
10.6	22.6	15.1	10.8	23.1	9:38:00
10.7	22.4	15.1	10.9	22.9	9:39:00
10.5	22.5	15.1	10.8	22.9	9:40:00
10.6	22.5	15.1	10.8	22.9	9:41:00
10.6	22.5	15.1	10.8	22.9	9:42:00
10.6	22.4	15.1	10.8	22.8	9:43:00
10.7	22.3	15.1	10.8	22.6	9:44:00
10.6	22.2	15.1	10.7	22.5	9:45:00
10.5	22.1	15.1	10.7	22.5	9:46:00
10.7	22.0	15.1	10.8	22.3	9:47:00
10.9	21.9	15.1	11.0	22.2	9:48:00
11.0	21.6	15.1	11.2	21.8	9:49:00
10.7	21.3	15.1	10.8	21.5	9:50:00
10.7	21.2	15.1	10.8	21.4	9:51:00
10.7	21.1	15.1	10.8	21.3	9:52:00
10.7	21.2	15.0	10.7	21.3	9:53:00
10.8	21.4	15.1	10.9	21.5	9:54:00
10.7	21.4	15.1	10.9	21.7	9:55:00
10.7	21.6	15.1	10.9	22.0	9:56:00
10.7	22.2	15.1	10.9	22.5	Averages

CLIENT:	New Indy	JOB#	213-031
PLANT:	Oxnard, CA	RUN#	RATA 4
DATE:	3/20/2013	UNIT ID:	Turbine
ENGINEER:	KK-BR	RUN START:	11:07 AM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
10.4	21.9	15.3	10.9	23.0	11:07:00
10.2	22.1	15.3	10.7	23.1	11:08:00
10.3	22.0	15.3	10.8	23.1	11:09:00
10.4	22.0	15.3	10.9	23.1	11:10:00
10.4	22.0	15.3	10.9	23.1	11:11:00
10.2	22.0	15.3	10.8	23.2	11:12:00
10.2	22.0	15.3	10.7	23.2	11:13:00
10.3	22.2	15.3	10.8	23.3	11:14:00
10.2	22.2	15.3	10.7	23.3	11:15:00
10.3	22.3	15.3	10.7	23.4	11:16:00
10.3	22.4	15.3	10.8	23.5	11:17:00
10.4	22.4	15.3	10.9	23.5	11:18:00
10.5	22.3	15.3	11.0	23.5	11:19:00
10.4	22.5	15.3	11.0	23.7	11:20:00
10.3	22.2	15.3	10.8	23.3	11:21:00
10.3	22.3	15.2	10.7	23.3	11:22:00
10.5	22.4	15.3	11.0	23.4	11:23:00
10.4	22.2	15.3	10.9	23.3	11:24:00
10.4	22.0	15.3	10.9	23.1	11:25:00
10.3	21.9	15.3	10.8	23.0	11:26:00
10.4	21.8	15.3	10.9	22.8	11:27:00
10.5	21.8	15.3	11.0	22.9	11:28:00
10.2	21.7	15.3	10.8	22.8	11:29:00
10.2	21.7	15.3	10.8	22.8	11:30:00
10.3	21.6	15.3	10.8	22.6	11:31:00
10.3	21.7	15.3	10.7	22.7	11:32:00
10.4	21.7	15.3	10.8	22.6	11:33:00
10.4	21.6	15.2	10.9	22.5	11:34:00
10.2	21.6	15.2	10.7	22.5	11:35:00
10.3	21.8	15.2	10.7	22.7	11:36:00
10.3	21.8	15.2	10.7	22.7	11:37:00
10.4	21.9	15.2	10.8	22.8	11:38:00
10.5	22.0	15.2	10.9	22.8	11:39:00
10.3	22.0	15.3	10.8	23.0	Averages

CLIENT:	New Indy	JOB#	213-031
PLANT:	Oxnard, CA	RUN#	RATA 5
DATE:	3/20/2013	UNIT ID:	Turbine
ENGINEER:	KK-BR	RUN START:	11:39 AM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
10.5	22.0	15.2	10.9	22.8	11:39:00
10.5	22.0	15.2	10.9	22.9	11:40:00
10.5	22.1	15.2	10.9	23.0	11:41:00
10.3	22.1	15.2	10.8	23.0	11:42:00
10.5	22.3	15.2	10.8	23.1	11:43:00
10.5	22.4	15.3	11.0	23.3	11:44:00
10.3	22.1	15.3	10.9	23.2	11:45:00
10.4	21.9	15.3	11.0	23.2	11:46:00
10.4	21.9	15.3	10.9	23.0	11:47:00
10.5	22.2	15.2	10.9	23.1	11:48:00
10.4	22.4	15.2	10.8	23.3	11:49:00
10.5	22.4	15.3	10.9	23.3	11:50:00
10.5	22.5	15.2	11.0	23.4	11:51:00
10.5	22.6	15.2	10.9	23.6	11:52:00
10.3	22.7	15.3	10.8	23.7	11:53:00
10.3	22.7	15.2	10.8	23.6	11:54:00
10.4	22.8	15.2	10.9	23.8	11:55:00
10.5	22.8	15.2	11.0	23.7	11:56:00
10.3	22.8	15.3	10.8	23.8	11:57:00
10.4	22.7	15.3	10.9	23.8	11:58:00
10.3	22.6	15.3	10.8	23.8	11:59:00
10.2	22.7	15.3	10.7	23.9	12:00:00
10.2	22.7	15.3	10.7	23.9	12:01:00
10.2	23.0	15.3	10.7	24.1	12:02:00
10.4	22.8	15.3	10.8	23.9	12:03:00
10.5	22.7	15.3	11.0	23.7	12:04:00
10.3	22.8	15.3	10.8	23.8	12:05:00
10.3	22.5	15.3	10.7	23.6	12:06:00
10.4	22.3	15.3	10.9	23.5	12:07:00
10.4	22.3	15.3	10.9	23.4	12:08:00
10.2	22.3	15.3	10.7	23.2	12:09:00
10.2	22.3	15.2	10.6	23.2	12:10:00
10.3	22.2	15.3	10.8	23.2	12:11:00
10.4	22.4	15.3	10.8	23.4	Averages

CLIENT:	New Indy	JOB#	213-031
PLANT:	Oxnard, CA	RUN#	RATA 6
DATE:	3/20/2013	UNIT ID:	Turbine
ENGINEER:	KK-BR	RUN START:	12:13 PM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
10.3	22.2	15.3	10.8	23.2	12:11:00
10.3	22.0	15.3	10.8	23.0	12:12:00
10.4	21.9	15.2	10.8	22.8	12:13:00
10.3	21.9	15.2	10.8	22.8	12:14:00
10.3	22.0	15.3	10.7	22.9	12:15:00
10.3	22.1	15.2	10.8	23.1	12:16:00
10.2	22.0	15.3	10.7	23.0	12:17:00
10.4	21.7	15.3	10.9	22.8	12:18:00
10.3	21.8	15.2	10.8	22.7	12:19:00
10.4	22.2	15.3	10.9	23.2	12:20:00
10.4	22.4	15.3	10.8	23.4	12:21:00
10.3	22.4	15.3	10.8	23.4	12:22:00
10.5	22.2	15.3	11.0	23.3	12:23:00
10.4	22.0	15.3	11.0	23.2	12:24:00
10.3	22.0	15.3	10.9	23.1	12:25:00
10.3	22.1	15.3	10.8	23.1	12:26:00
10.4	21.8	15.3	10.9	22.9	12:27:00
10.2	21.7	15.3	10.7	22.8	12:28:00
10.1	21.5	15.3	10.5	22.5	12:29:00
10.4	21.5	15.3	10.9	22.5	12:30:00
10.3	21.6	15.2	10.8	22.5	12:31:00
10.3	21.6	15.3	10.8	22.6	12:32:00
10.5	21.6	15.3	11.0	22.6	12:33:00
10.5	21.7	15.3	11.0	22.6	12:34:00
10.3	21.8	15.2	10.8	22.7	12:35:00
10.3	21.8	15.3	10.9	22.9	12:36:00
10.3	21.7	15.3	10.9	22.8	12:37:00
10.5	21.8	15.3	11.0	22.9	12:38:00
10.3	21.8	15.3	10.9	23.0	12:39:00
10.2	21.9	15.3	10.7	23.0	12:40:00
10.4	22.1	15.3	10.8	23.1	12:41:00
10.4	22.1	15.3	10.8	23.1	12:42:00
10.2	22.5	15.3	10.9	23.9	12:43:00
10.3	21.9	15.3	10.8	22.9	Averages

CLIENT:	New Indy	JOB#	213-031
PLANT:	Oxnard, CA	RUN#	RATA 7
DATE:	3/20/2013	UNIT ID:	Turbine
ENGINEER:	KK-BR	RUN START:	1:10 PM

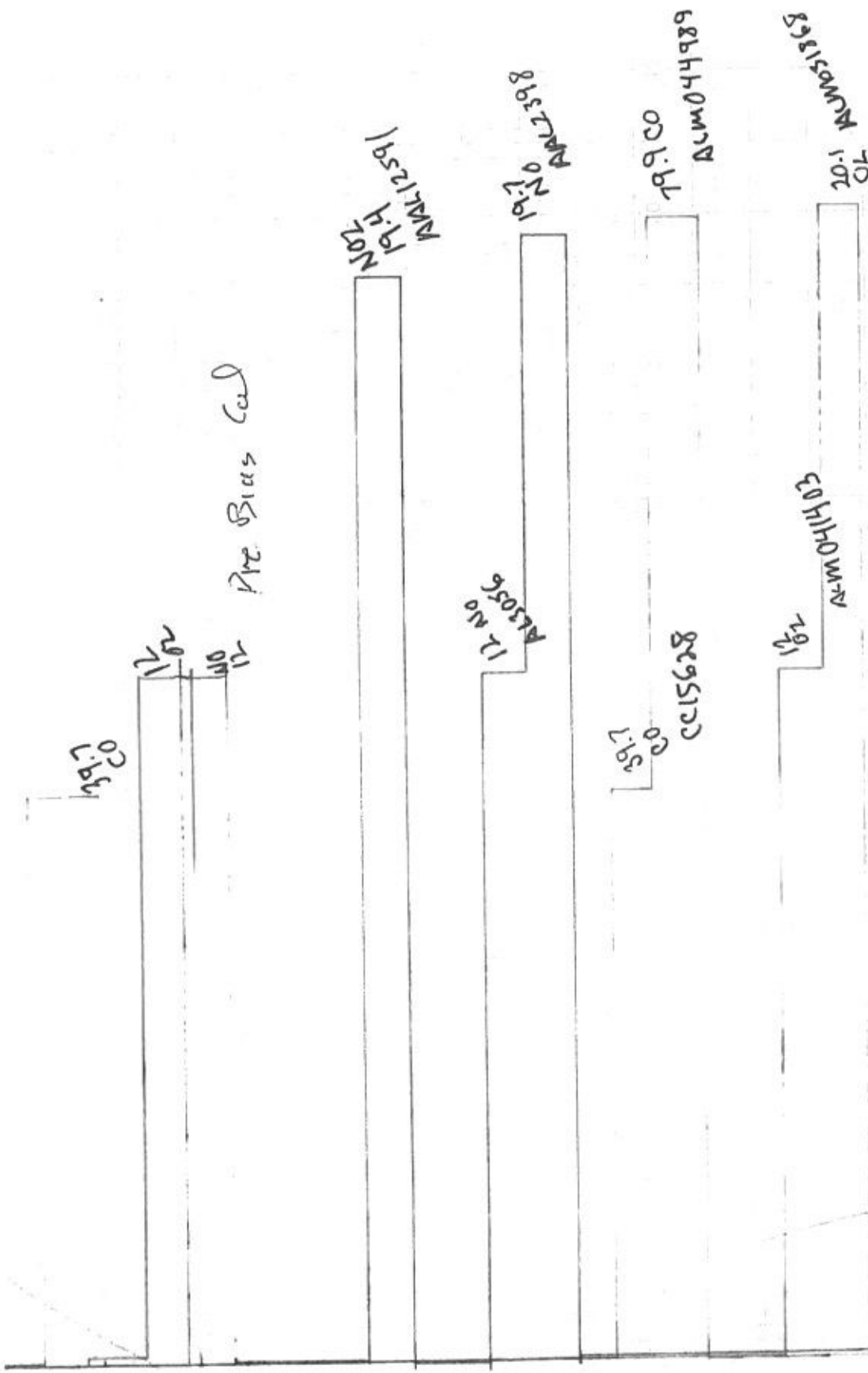
NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
9.8	21.1	15.4	10.5	22.4	13:10:00
9.9	21.0	15.3	10.5	22.2	13:11:00
9.8	21.0	15.3	10.4	22.2	13:12:00
9.8	21.0	15.3	10.3	22.2	13:13:00
9.9	21.0	15.3	10.4	22.1	13:14:00
10.0	21.0	15.3	10.6	22.3	13:15:00
9.9	21.3	15.4	10.6	22.6	13:16:00
10.0	21.5	15.3	10.6	22.7	13:17:00
10.0	21.5	15.3	10.6	22.7	13:18:00
10.0	21.4	15.4	10.7	22.9	13:19:00
9.8	21.3	15.3	10.4	22.6	13:20:00
10.0	21.5	15.3	10.6	22.7	13:21:00
10.1	21.2	15.4	10.7	22.6	13:22:00
10.1	21.3	15.3	10.6	22.6	13:23:00
10.0	21.3	15.3	10.6	22.5	13:24:00
10.0	21.2	15.3	10.7	22.5	13:25:00
10.1	21.2	15.3	10.6	22.2	13:26:00
10.2	21.4	15.3	10.7	22.4	13:27:00
10.1	21.5	15.3	10.6	22.6	13:28:00
10.2	21.6	15.3	10.8	22.7	13:29:00
10.1	21.6	15.3	10.7	22.7	13:30:00
10.1	21.7	15.3	10.6	22.7	13:31:00
10.3	21.7	15.3	10.9	22.9	13:32:00
10.4	21.8	15.3	10.9	22.8	13:33:00
10.3	21.9	15.3	10.8	23.0	13:34:00
10.2	21.9	15.3	10.8	23.0	13:35:00
10.3	21.9	15.3	10.8	23.1	13:36:00
10.2	21.8	15.3	10.7	23.0	13:37:00
10.2	21.8	15.3	10.8	23.1	13:38:00
10.1	21.8	15.3	10.7	23.1	13:39:00
10.0	21.8	15.3	10.6	23.1	13:40:00
10.2	21.9	15.3	10.8	23.2	13:41:00
10.2	22.1	15.3	10.8	23.4	13:42:00
10.1	21.5	15.3	10.6	22.7	Averages

CLIENT:	New Indy	JOB#	213-031
PLANT:	Oxnard, CA	RUN#	RATA 8
DATE:	3/20/2013	UNIT ID:	Turbine
ENGINEER:	KK-BR	RUN START:	1:43 PM

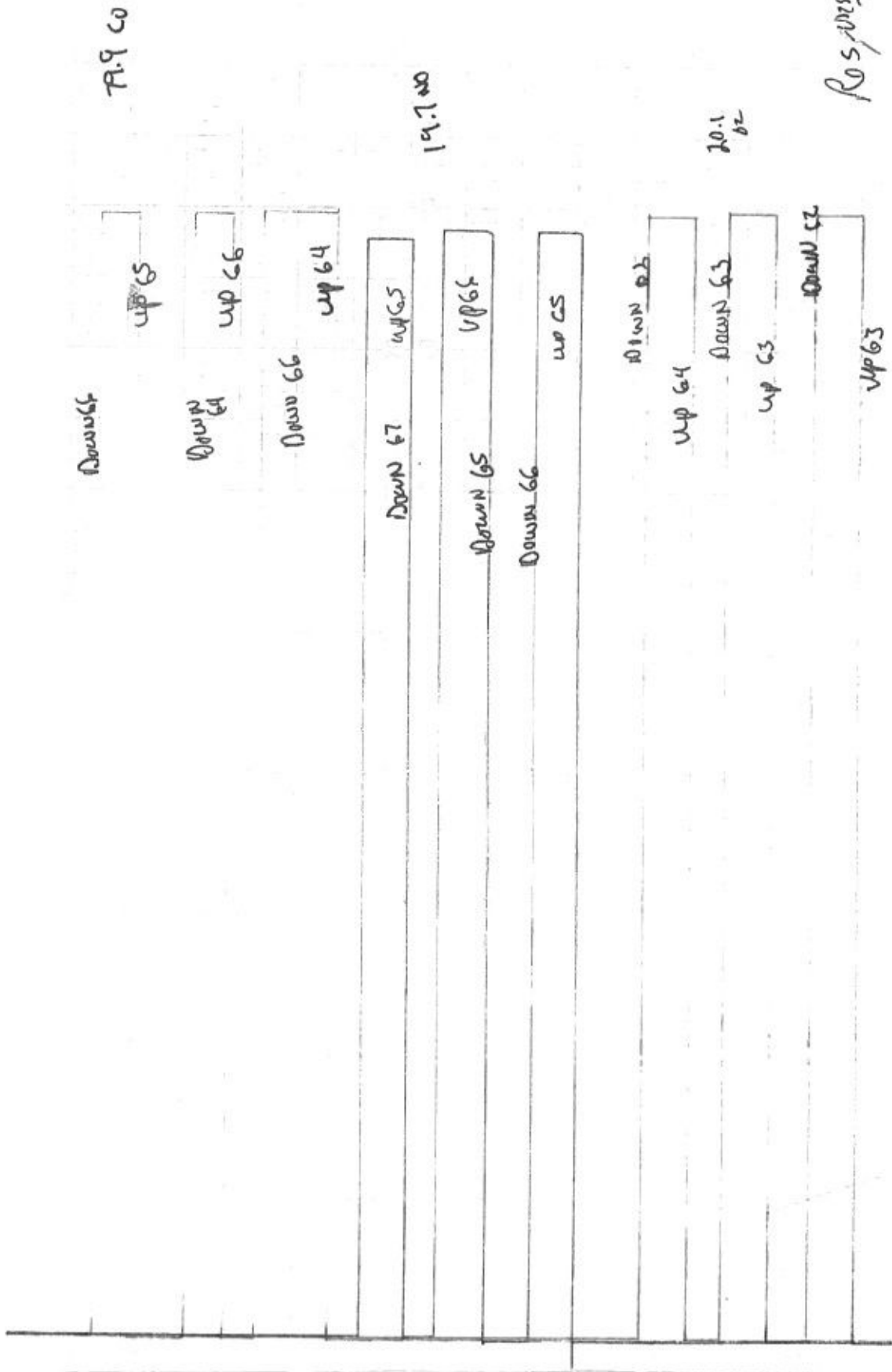
NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
10.2	22.1	15.3	10.8	23.4	13:42:00
10.3	21.9	15.4	11.0	23.4	13:43:00
10.2	21.8	15.4	10.8	23.2	13:44:00
9.9	22.0	15.4	10.6	23.4	13:45:00
10.0	22.2	15.3	10.6	23.4	13:46:00
10.1	22.3	15.3	10.7	23.6	13:47:00
10.3	22.1	15.3	10.9	23.4	13:48:00
10.3	22.1	15.4	11.0	23.6	13:49:00
10.2	21.8	15.3	10.7	23.0	13:50:00
10.2	22.1	15.3	10.7	23.3	13:51:00
10.2	22.1	15.3	10.8	23.4	13:52:00
10.2	22.2	15.3	10.7	23.4	13:53:00
10.2	22.4	15.3	10.8	23.7	13:54:00
10.3	22.5	15.3	10.9	23.8	13:55:00
10.3	22.6	15.3	10.9	23.8	13:56:00
10.3	22.7	15.3	10.9	24.0	13:57:00
10.1	22.8	15.3	10.7	24.1	13:58:00
10.1	22.9	15.3	10.6	24.2	13:59:00
10.3	23.1	15.3	10.8	24.4	14:00:00
10.3	23.2	15.3	10.9	24.5	14:01:00
10.1	23.2	15.3	10.8	24.6	14:02:00
10.3	23.2	15.4	10.9	24.7	14:03:00
10.3	23.2	15.4	10.9	24.7	14:04:00
10.0	23.2	15.4	10.7	24.7	14:05:00
10.1	23.5	15.3	10.7	24.8	14:06:00
10.2	23.1	15.3	10.8	24.3	14:07:00
10.2	22.7	15.3	10.8	24.0	14:08:00
10.2	22.9	15.3	10.8	24.2	14:09:00
10.0	22.9	15.3	10.6	24.2	14:10:00
10.4	22.6	15.3	11.0	23.9	14:11:00
10.3	22.4	15.3	10.9	23.5	14:12:00
10.4	22.4	15.3	10.9	23.5	14:13:00
10.3	22.2	15.3	10.8	23.3	14:14:00
10.2	22.6	15.3	10.8	23.9	Averages

CLIENT:	New Indy	JOB#	213-031
PLANT:	Oxnard, CA	RUN#	RATA 9
DATE:	3/20/2013	UNIT ID:	Turbine
ENGINEER:	KK-BR	RUN START:	2:16 PM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
10.3	22.2	15.3	10.8	23.3	14:14:00
10.3	22.2	15.3	10.7	23.2	14:15:00
10.4	22.2	15.3	10.9	23.3	14:16:00
10.2	22.1	15.3	10.7	23.2	14:17:00
10.3	22.1	15.3	10.9	23.3	14:18:00
10.4	22.1	15.3	11.0	23.3	14:19:00
10.4	22.1	15.3	10.9	23.2	14:20:00
10.5	22.1	15.3	11.1	23.3	14:21:00
10.3	22.1	15.3	10.8	23.2	14:22:00
10.4	22.1	15.3	10.9	23.2	14:23:00
10.5	22.0	15.3	11.1	23.3	14:24:00
10.2	22.1	15.3	10.8	23.3	14:25:00
10.2	22.0	15.3	10.7	23.1	14:26:00
10.4	22.1	15.3	10.9	23.2	14:27:00
10.3	22.5	15.3	10.8	23.6	14:28:00
10.2	22.7	15.3	10.7	23.8	14:29:00
10.2	22.5	15.3	10.7	23.6	14:30:00
10.3	22.0	15.3	10.8	23.1	14:31:00
10.3	22.5	15.3	10.8	23.6	14:32:00
10.4	22.7	15.3	10.9	23.8	14:33:00
10.4	22.8	15.3	11.0	24.0	14:34:00
10.4	22.9	15.3	10.9	24.1	14:35:00
10.4	23.0	15.3	10.9	24.2	14:36:00
10.3	23.1	15.3	10.8	24.3	14:37:00
10.4	23.3	15.3	10.9	24.4	14:38:00
10.3	23.2	15.3	10.8	24.4	14:39:00
10.3	22.7	15.3	10.8	23.9	14:40:00
10.4	22.9	15.3	11.0	24.1	14:41:00
10.3	22.6	15.3	10.8	23.8	14:42:00
10.3	22.6	15.3	10.8	23.7	14:43:00
10.3	22.6	15.3	10.8	23.7	14:44:00
10.3	22.0	15.3	10.9	23.3	14:45:00
10.4	21.5	15.3	11.0	22.7	14:46:00
10.3	22.4	15.3	10.9	23.6	Averages



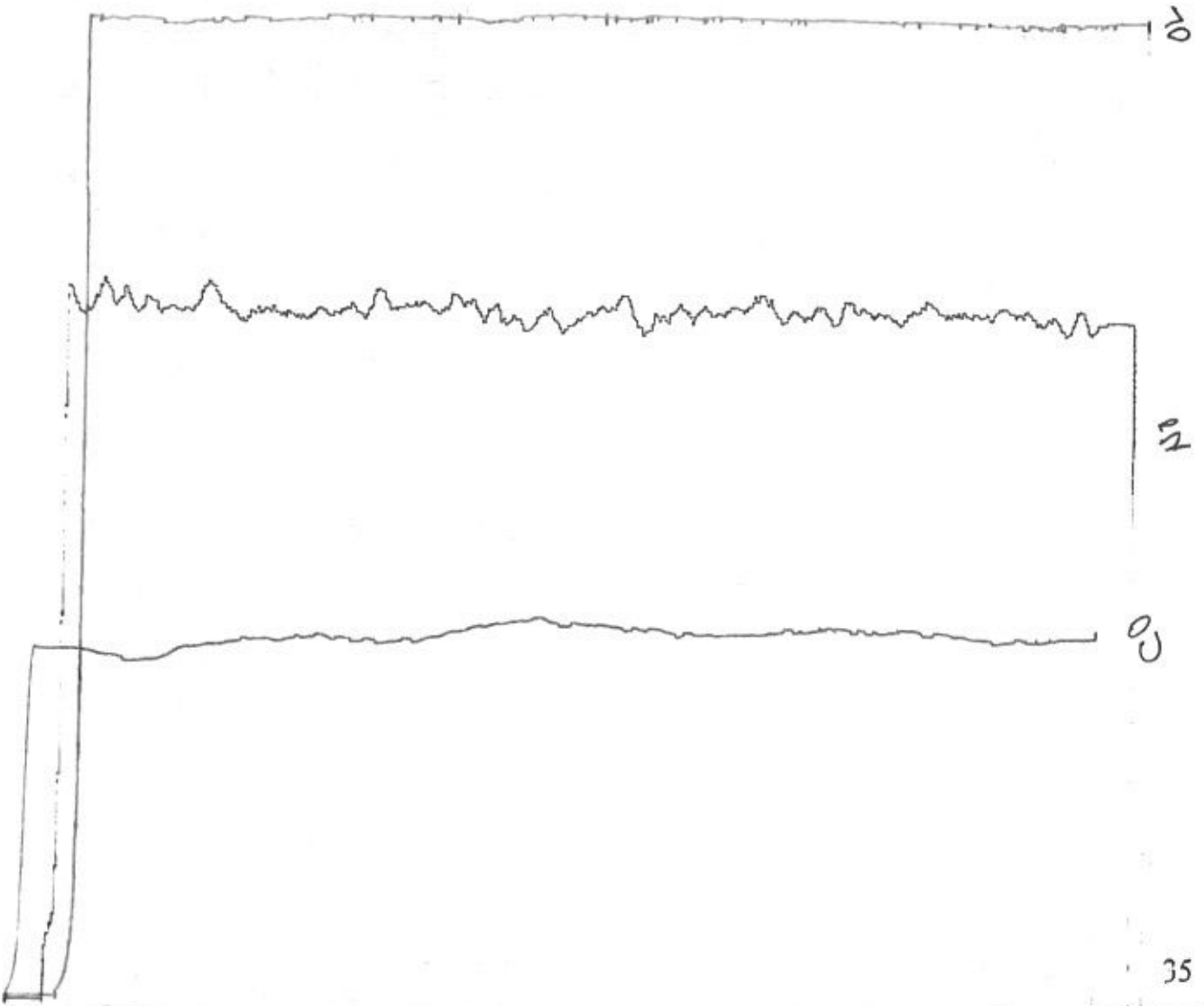
New Friday 3/20/13 Initial Coal Turbine Co-gen

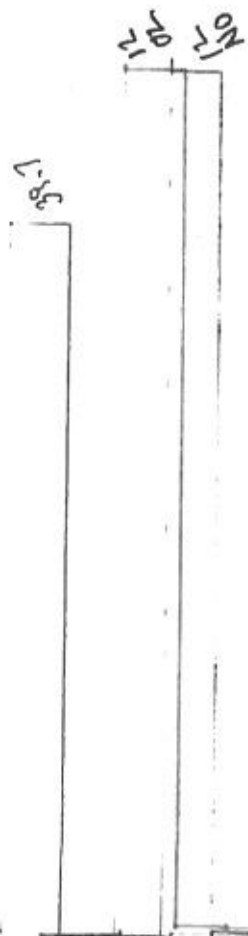


End. 18

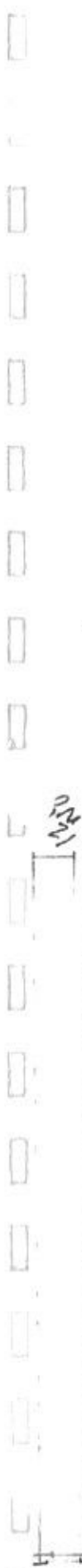
START
0.12.8

DATA (1, 2, 3)
Run# 1

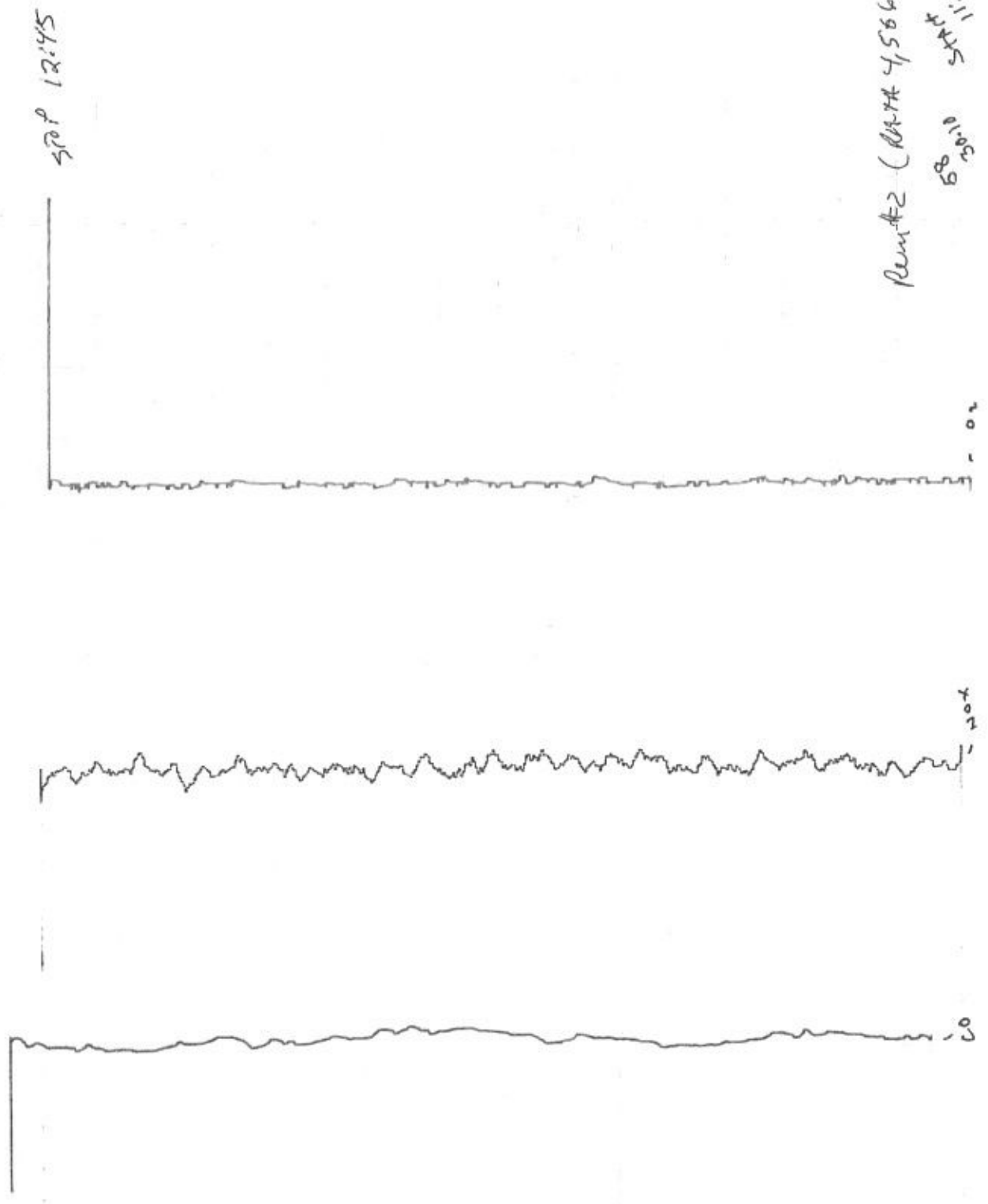




R1
Post Bas coal



RZ
POST BIAS CAL

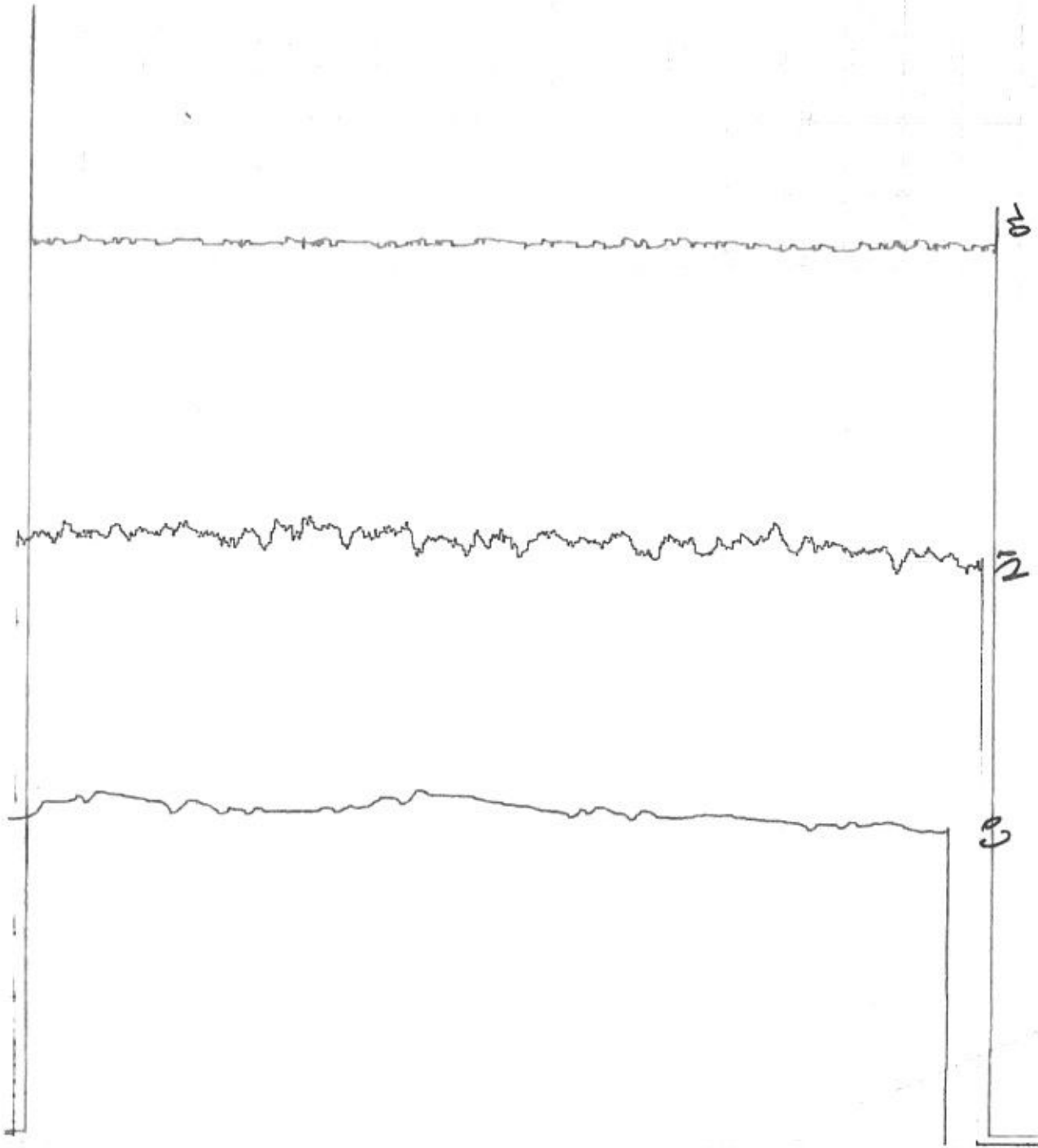


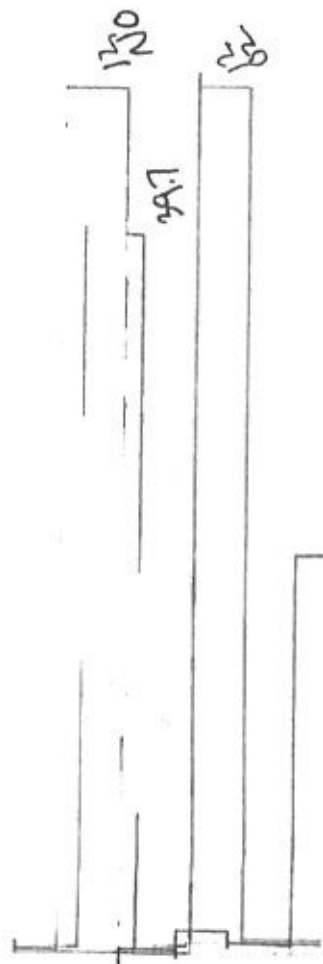
Rem #2 (DATA 4566)
3010
58
STOP
11:01

5990 14:48

(DATA 7879)

Start R-3
13:10





Port Bias Cal

X TESTING

Plant: <u>Alcon Indus</u>	Amb. Temp: <u>53</u>	Nozzel: <u>3/8</u>
Location: <u>ANWKA</u>	Pbar: <u>30.06</u>	Prob Heat: <u>/</u>
Unit: <u>Trailer</u>	Pilot: <u>/</u>	Wind Vel: <u>/</u>
Date: <u>5/10/11</u>	Pyro: <u>/</u>	Static Press: <u>/</u>
Run #: <u>1</u>	Mag Δ P: <u>MANO</u>	O2: <u>/</u>
Cold Box: <u>6</u>	Mag Δ H: <u>MANO</u>	CO2: <u>/</u>
Meter #: <u>6</u>	% H2O: <u>/</u>	Engineer: <u>KK</u>
Meter Factor: <u>.9961</u>	Box Heat: <u>/</u>	Technician: <u>KL</u>

Stack Dia: _____
 "A": _____
 "B": _____
 Port Size: _____
 Offset: _____
 M/F: _____

Stack Sample Port Location



Imp.	Gross	Tare	Total
1			
2			
3			
4			

Filter 1: _____

START TIME: 8:20 END TIME: _____

"K" FACTOR: _____

Filter 2: _____

Point No.	Traverse Distance	Time Minutes	Stack "F"	Δ P	√Δ P	Dry Gas Meter Volume	Δ H in H2O	Inlet "F"	Outlet "F"	Impinger Exit "F"	Meter Vacuum	Filter Temp. "F"	Cyl. Flow
		0				580.490	2.4	59	59		9		
		5				583.17	2.4	64	58		9		
		10				587.7	2.4	66	59		9		
		15				592.0	2.4	67	59		9		
		20				595.9	2.4	68	60		9		
		25				599.8	2.4	69	60		9		
		30				603.7	2.4	69	61		9		
		35				607.7	2.4	71	63		9		
		40				611.8	2.4	72	65		9		
		45				615.8	2.4	73	65		9		
		50				619.0	2.4	70	65		9		
		55				622.7	2.4	69	65		9		
		60				626.5	2.4	69	65		9		
		65				630.3	2.4	70	66		9		
		70				634.2	2.4	71	66		9		
		75				638.0	2.4	71	67		9		
		80				641.9	2.4	71	66		9		
		85				645.8	2.4	71	66		11		
		90				649.7	2.4	71	67		11		
		96				654.438	-	-	-		-		

Average: 66 73.948 2.4 66.0 9.2

Leak Checks: Pitots

Sample Train Leak Check

Pre ΔP	Top	Bottom
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Post ΔP	Top	Bottom
---------	-----	--------

CFM:	<u>1.001</u>	In. HG:	<u>16</u>
CFM:	<u>1.030</u>	In. HG:	<u>13</u>

X TESTING

Plant: <u>New Jersey</u>	Amb Temp: <u>58</u>	Nozzel: <u>3/8</u>
Location: <u>OXNabel</u>	Pbar: <u>30.10</u>	Prob Heat: <u>/</u>
Unit: <u>Turbine</u>	Pilot: <u>/</u>	Wind Vel: <u>/</u>
Date: <u>3/20/19</u>	Pyro: <u>/</u>	Static Press: <u>/</u>
Run #: <u>2</u>	Mag Δ P: <u>11.111</u>	O2: <u>/</u>
Cold Box: <u>6</u>	Mag Δ H: <u>11.111</u>	CO2: <u>/</u>
Meter #: <u>6</u>	% H2O: <u>/</u>	Engineer: <u>KK</u>
Meter Factor: <u>19961</u>	Box Heat: <u>/</u>	Technician: <u>JK</u>

Stack Dia.: _____
 "A": _____
 "B": _____
 Port Size: _____
 Offset: _____
 M/F: _____

Stack Sample Port Location



Imp.	Gross	Tare	Total
1			
2			
3			
4			

Filter 1: _____

START TIME: 11:06 END TIME: _____ "K" FACTOR: _____

Filter 2: _____

Point No.	Traverse Distance	Time Minutes	Stack "F"	Δ P	√Δ P	Dry Gas Meter Volume	Δ H In H2O	Inlet "F"	Outlet "F"	Impinger Exit "F"	Meter Vacuum	Filter Temp "F"	Cyl. Flow
		0				657.100	2.4	65	66		9		
		5				661.1	2.4	65	66		9		
		10				665.1	2.4	66	65		9		
		15				669.1	2.4	67	65		9		
		20				673.0	2.4	68	66		9		
		25				677.0	2.4	69	66		9		
		30				680.9	2.4	69	66		9		
		35				684.9	2.4	70	66		9		
		40				688.9	2.4	70	66		9		
		45				692.8	2.4	71	67		9		
		50				696.7	2.4	71	67		9		
		55				700.7	2.4	71	68		9		
		60				704.6	2.4	72	69		9		
		65				708.6	2.4	72	69		9		
		70				712.5	2.4	71	68		9		
		75				716.5	2.4	74	71		9		
		80				720.4	2.4	72	69		9		
		85				724.4	2.1	72	71		9		
		90				728.3	2.1	72	71		9		
		96				733.132	-	-	-		1		
		9											

Average: 96 76.032 2.4 68.7 9.0

Leak Checks: Pilots

Sample Train Leak Check

Pre	Top	Bottom
ΔP		

Post	Top	Bottom
ΔP		

CFM:	<u>008</u>	In. HG:	<u>24</u>
CFM:	<u>008</u>	In. HG:	<u>23</u>

X TESTING

Plant: <u>NEW En-ly</u>	Amb. Temp: <u>60</u>	Nozzel: <u>318</u>
Location: <u>OXNARD</u>	Pbar: <u>D.K.</u>	Prob Heat: <u>/</u>
Unit: <u>Turbine</u>	Pilot: <u>/</u>	Wind Vel: <u>/</u>
Date: <u>3/20/13</u>	Pyro: <u>/</u>	Static Press: <u>/</u>
Run #: <u>3</u>	Mag Δ P: <u>11160</u>	O2: <u>/</u>
Cold Box: <u>1</u>	Mag Δ H: <u>11625</u>	CO2: <u>/</u>
Meter #: <u>6</u>	% H2O: <u>/</u>	Engineer: <u>KK</u>
Meter Factor: <u>9961</u>	Box Heat: <u>/</u>	Technician: <u>BT</u>

Stack Dia. _____
 "A" _____
 "B" _____
 Port Size _____
 Offset _____
 M / F _____

Stack Sample Port Location



Imp.	Gross	Tare	Total
1			
2			
3			
4			

Filter 1: _____

START TIME: 13:10 END TIME: 14:46

"K" FACTOR: _____

Filter 2: _____

Point No.	Traverse Distance	Time Minutes	Stack "F"	Δ P	√Δ P	Dry Gas Meter Volume	Δ H In H2O	Inlet "F"	Outlet "F"	Impinger Exit "F"	Meter Vacuum	Filter Temp. "F"	Cyl. Flow
		0				733.758	2.4	71	71		10		
		5				737.8	2.4	71	70		10		
		10				741.6	2.4	72	70		10		
		15				745.8	2.4	74	71		10		
		20				749.7	2.4	74	72		10		
		25				753.7	2.4	75	72		10		
		30				757.5	2.4	74	71		10		
		35				761.8	2.4	73	71		10		
		40				765.3	2.4	74	72		10		
		45				769.5	2.4	73	71		10		
		50				773.2	2.4	75	73		10		
		55				776.8	2.4	74	72		10		
		60				780.8	2.4	74	72		10		
		70				784.4	2.4	74	72		10		
		75				788.6	2.4	74	71		10		
		80				796.7	2.4	74	72		10		
		85				799.7	2.4	74	72		10		
		90				804.3	2.4	74	72		10		
		96				808.563							

Average: 76 745.98 2.4 72.7 10

Leak Checks: Pilots

Sample Train Leak Check

Pre ΔP	Top	Bottom
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Post ΔP	Top	Bottom
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CFM: <u>.001</u>	In. HG: <u>23</u>
CFM: <u>.032</u>	In. HG: <u>23</u>

New-Indy Oxnard, LLC
ROSEMOUNT CEMS SOURCE TEST
March 20, 2013

3/20/2013 8:20 3302013052 174

Run 1

Stack NOx	Stack CO	Stack O2	Duct Burner Gas Flow BBLGASFLOW	Turbine Gas Flow G104BFLW	Steam Injection	Ammonia Injection	Turbine Load
815.811461116100	815.811461116100	815.811461116100	815.811461116100	815.811461116100	815.811461116100	815.811461116100	815.811461116100
20-Mar-13 08:20:00	20-Mar-13 08:20:00	20-Mar-13 08:20:00	20-Mar-13 08:20:00	20-Mar-13 08:20:00	20-Mar-13 08:20:00	20-Mar-13 08:20:00	20-Mar-13 08:20:00
9.80	25.20	15.24	206.35	206.35	2.60	22.84	25.84
20-Mar-13 08:21:00	25.26	15.24	204.71	204.71	2.58	22.58	25.73
20-Mar-13 08:22:00	25.23	15.24	208.85	208.85	2.59	22.72	25.81
20-Mar-13 08:23:00	25.03	15.24	211.16	211.16	2.60	22.45	25.86
20-Mar-13 08:24:00	25.03	15.24	211.47	211.47	2.59	22.79	25.74
20-Mar-13 08:25:00	25.03	15.23	211.41	211.41	2.58	22.95	25.80
20-Mar-13 08:26:00	25.03	15.23	211.11	211.11	2.58	22.91	25.80
20-Mar-13 08:27:00	25.03	15.23	208.82	208.82	2.58	22.84	25.71
20-Mar-13 08:28:00	25.03	15.23	206.25	206.25	2.58	22.86	25.88
20-Mar-13 08:29:00	25.03	15.23	206.25	206.25	2.58	22.57	25.84
20-Mar-13 08:30:00	25.03	15.23	206.25	206.25	2.58	22.81	25.84
20-Mar-13 08:31:00	25.03	15.23	206.25	206.25	2.58	22.81	25.84
20-Mar-13 08:32:00	25.03	15.23	206.25	206.25	2.58	22.81	25.84
20-Mar-13 08:33:00	25.03	15.23	206.25	206.25	2.58	22.81	25.84
20-Mar-13 08:34:00	25.03	15.23	206.25	206.25	2.58	22.81	25.84
20-Mar-13 08:35:00	25.03	15.23	206.25	206.25	2.58	22.81	25.84
20-Mar-13 08:36:00	25.03	15.23	206.25	206.25	2.58	22.81	25.84
20-Mar-13 08:37:00	25.03	15.23	206.25	206.25	2.58	22.81	25.84
20-Mar-13 08:38:00	25.03	15.23	206.25	206.25	2.58	22.81	25.84
20-Mar-13 08:39:00	25.03	15.23	206.25	206.25	2.58	22.81	25.84
20-Mar-13 08:40:00	25.03	15.23	206.25	206.25	2.58	22.81	25.84
20-Mar-13 08:41:00	25.03	15.23	206.25	206.25	2.58	22.81	25.84
20-Mar-13 08:42:00	25.03	15.23	206.25	206.25	2.58	22.81	25.84
20-Mar-13 08:43:00	25.03	15.23	206.25	206.25	2.58	22.81	25.84
20-Mar-13 08:44:00	25.03	15.23	206.25	206.25	2.58	22.81	25.84
20-Mar-13 08:45:00	25.03	15.23	206.25	206.25	2.58	22.81	25.84
20-Mar-13 08:46:00	25.03	15.23	206.25	206.25	2.58	22.81	25.84
20-Mar-13 08:47:00	25.03	15.23	206.25	206.25	2.58	22.81	25.84
20-Mar-13 08:48:00	25.03	15.23	206.25	206.25	2.58	22.81	25.84
20-Mar-13 08:49:00	25.03	15.23	206.25	206.25	2.58	22.81	25.84
20-Mar-13 08:50:00	25.03	15.23	206.25	206.25	2.58	22.81	25.84
20-Mar-13 08:51:00	25.03	15.23	206.25	206.25	2.58	22.81	25.84
Average Stack NOx, ppm (15% O2)	Average Stack CO, ppm (15% O2)	Average Stack O2 (%)	Average Duct Burner Gas Flow (MSCFH)	Average Turbine Gas Flow (MSCFH)	Average Steam Injection Rate (lbs)	Average Ammonia Injection (lb/hr)	Ave. Turbine Load (MWh)
10.46	25.23	15.24	14.79	269.56	2.60	22.89	25.89

New-Indy Oxnard, LLC
ROSEMOUNT CEMS SOURCE TEST
March 20, 2013

3/20/2013 8:52 3000103.024: 1 m

Run 2

Stack NOx ppm	Stack CO ppm	Stack O2 %	Duct Burner Gas Flow MGAL/HOUR	Turbine Gas Flow MGAL/HOUR	Steam Injection GPM	Ammonia Injection GPM	Turbine Load MW
10.47	25.31	15.28	13.42	168.88	2.58	23.18	25.84
10.42	25.54	15.25	13.77	171.56	2.55	23.06	26.07
10.31	25.84	15.28	13.97	171.47	2.55	23.06	26.07
10.45	25.25	15.29	13.75	171.47	2.65	23.15	26.07
10.45	25.37	15.28	13.71	171.11	2.65	23.15	26.07
10.70	25.23	15.28	13.37	168.82	2.60	23.17	26.07
10.35	25.21	15.28	13.22	168.82	2.60	23.17	26.07
10.42	25.44	15.29	13.29	168.88	2.58	23.18	26.07
10.51	25.46	15.29	13.29	168.88	2.58	23.18	26.07
10.56	25.47	15.29	13.29	168.88	2.58	23.18	26.07
10.62	25.46	15.28	13.27	168.82	2.61	23.21	26.07
10.54	25.87	15.28	13.15	168.82	2.63	23.29	26.07
10.45	25.28	15.27	13.05	168.82	2.61	23.29	26.07
10.43	25.27	15.28	13.04	168.82	2.58	23.29	26.07
10.42	25.72	15.28	13.04	168.82	2.65	23.45	26.07
10.48	25.72	15.28	13.04	168.82	2.65	23.45	26.07
10.55	25.74	15.28	13.04	168.82	2.65	23.45	26.07
10.55	25.86	15.28	13.04	168.82	2.65	23.45	26.07
10.87	25.86	15.28	13.04	168.82	2.65	23.45	26.07
10.34	25.83	15.28	13.04	168.82	2.65	23.45	26.07
10.48	25.50	15.28	13.04	168.82	2.65	23.45	26.07
10.41	25.33	15.28	13.04	168.82	2.65	23.45	26.07
10.48	25.33	15.28	13.04	168.82	2.65	23.45	26.07
10.55	25.16	15.28	13.04	168.82	2.65	23.45	26.07
10.87	25.86	15.28	13.04	168.82	2.65	23.45	26.07
10.34	25.83	15.28	13.04	168.82	2.65	23.45	26.07
10.41	25.83	15.28	13.04	168.82	2.65	23.45	26.07
10.48	25.83	15.28	13.04	168.82	2.65	23.45	26.07
10.48	25.83	15.28	13.04	168.82	2.65	23.45	26.07
10.48	25.83	15.28	13.04	168.82	2.65	23.45	26.07
10.45	25.44	15.24	12.78	171.47	2.65	23.55	26.07
10.55	24.82	15.24	12.78	171.47	2.65	23.55	26.07
10.63	24.75	15.24	12.58	171.47	2.65	23.55	26.07

New-Indy Oxnard, LLC
ROSEMOUNT CEMS SOURCE TEST
March 20, 2013

3/20/2013 9:24 3/20/2013 8:56 1 m

Run 3

Stack NOx ppm	Stack CO ppm	Stack O2 %	Duct Burner Gas Flow MSCFH	Turbine Gas Flow MSCFH	Steam Injection MG	Ammonia Injection lb/hr	Turbine Load MW
10.57	24.46	15.74	11.33	271.47	2.86	23.27	20-Mar-13 08:24.00
10.54	24.25	15.24	12.07	271.47	2.86	23.48	20-Mar-13 08:25.00
10.51	24.40	15.24	11.86	271.47	2.86	23.50	20-Mar-13 08:26.00
10.48	24.67	15.24	11.93	271.47	2.86	23.54	20-Mar-13 08:27.00
10.46	25.10	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:28.00
10.45	25.25	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:29.00
10.45	25.35	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:30.00
10.45	25.50	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:31.00
10.45	25.68	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:32.00
10.46	25.82	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:33.00
10.46	25.95	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:34.00
10.46	26.13	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:35.00
10.46	26.28	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:36.00
10.46	26.44	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:37.00
10.46	26.59	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:38.00
10.46	26.74	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:39.00
10.46	26.88	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:40.00
10.46	27.04	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:41.00
10.46	27.19	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:42.00
10.46	27.34	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:43.00
10.46	27.49	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:44.00
10.46	27.64	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:45.00
10.46	27.79	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:46.00
10.46	27.94	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:47.00
10.46	28.09	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:48.00
10.46	28.24	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:49.00
10.46	28.39	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:50.00
10.46	28.54	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:51.00
10.46	28.69	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:52.00
10.46	28.84	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:53.00
10.46	28.99	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:54.00
10.46	29.14	15.24	11.98	271.47	2.86	23.54	20-Mar-13 08:55.00
10.54	24.49	15.00	12.86	271.15	2.65	23.79	Ave. Stack NOx ppm (15% O2)
10.54	24.49	15.00	12.86	271.15	2.65	23.79	Ave. Stack CO, ppm (15% O2)
10.54	24.49	15.00	12.86	271.15	2.65	23.79	Ave. Stack O2 (%)
10.54	24.49	15.00	12.86	271.15	2.65	23.79	Ave. Duct Burner Gas Flow (MSCFH)
10.54	24.49	15.00	12.86	271.15	2.65	23.79	Ave. Turbine Gas Flow (MSCFH)
10.54	24.49	15.00	12.86	271.15	2.65	23.79	Ave. Steam Injection Rate (lbs/hr)
10.54	24.49	15.00	12.86	271.15	2.65	23.79	Ave. Ammonia Injection (lb/hr)
10.54	24.49	15.00	12.86	271.15	2.65	23.79	Ave. Turbine Load (MW)
10.54	24.49	15.00	12.86	271.15	2.65	23.79	Ave. Turbine Load (MW)

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Run 4

Stack NOx	Stack CO	Stack O2	Duct Burner Gas Flow	Turbine Gas Flow	Steam Injection	Ammonia Injection	Turbine Load
10.42	25.36	15.45	10.13	271.47	2.65	23.81	26.08
10.45	25.81	15.44	10.81	271.47	2.66	23.81	26.08
10.45	25.81	15.45	10.84	271.47	2.66	23.81	26.08
10.46	25.82	15.44	11.06	271.47	2.65	23.81	26.08
10.48	25.82	15.50	11.08	271.47	2.67	23.81	26.08
10.48	25.77	15.51	11.09	271.47	2.65	23.81	26.08
10.44	25.70	15.48	11.16	271.47	2.65	23.81	26.08
10.40	25.61	15.45	11.27	271.47	2.65	23.81	26.08
10.43	25.43	15.45	11.28	271.47	2.62	23.81	26.08
10.43	25.43	15.45	11.21	271.47	2.66	23.81	26.08
10.43	25.43	15.48	11.02	271.47	2.65	23.81	26.08
10.43	25.38	15.48	11.29	271.47	2.66	23.81	26.08
10.43	25.38	15.44	11.43	271.47	2.66	23.81	26.08
10.51	24.77	15.47	11.56	271.47	2.66	23.81	26.08
10.51	25.30	15.44	11.72	271.47	2.65	23.81	26.08
10.49	25.14	15.47	11.97	271.47	2.65	23.81	26.08
10.49	24.84	15.45	11.99	271.47	2.66	23.81	26.08
10.47	24.84	15.50	11.66	271.47	2.66	23.81	26.08
10.50	24.83	15.49	11.07	271.47	2.67	23.81	26.08
10.56	24.50	15.45	11.06	271.47	2.67	23.81	26.08
10.51	24.51	15.42	11.19	271.47	2.67	23.81	26.08
10.43	24.70	15.41	11.19	271.47	2.66	23.81	26.08
10.47	24.56	15.46	11.05	271.47	2.66	23.81	26.08
10.56	24.75	15.28	10.97	271.47	2.66	23.81	26.08
10.44	24.50	15.38	10.81	271.47	2.66	23.81	26.08
10.37	24.88	15.40	10.95	271.47	2.66	23.81	26.08
10.31	24.81	15.38	10.92	271.47	2.66	23.81	26.08
10.32	24.74	15.38	10.93	271.47	2.65	23.81	26.08
Average Stack NOx ppm (15% O2)	Average Stack CO ppm (15% O2)	Average Stack O2 (%)	Average Duct Burner Gas Flow (MSCFH)	Average Turbine Gas Flow (MSCFH)	Average Steam Injection Rate (lbs)	Average Ammonia Injection (lb/hr)	Average Turbine Load (MWth)
10.50	25.20	15.44	11.02	272.98	2.66	23.99	26.25

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Run 5

Stack NOx	Stack CO	Stack O2	Duct Burner Gas Flow	Turbine Gas Flow	Steam Injection	Ammonia Injection	Turbine Load
10.43	24.78	15.41	91.74	273.84	2.84	24.14	26.43
10.55	24.80	15.26	10.79	272.11	2.84	24.15	26.22
10.56	25.43	15.40	10.44	276.12	2.70	24.35	26.30
10.80	25.54	15.40	10.13	274.47	2.71	24.47	26.21
10.50	25.46	15.36	10.38	276.59	2.73	24.80	26.29
10.41	25.48	15.47	10.58	276.33	2.74	24.48	26.46
10.40	25.51	15.47	10.25	273.84	2.71	24.57	26.57
10.47	24.83	15.52	10.23	271.75	2.71	24.37	26.54
10.55	24.64	15.49	10.10	271.47	2.73	24.48	26.38
10.88	25.44	15.38	9.95	271.83	2.70	24.36	26.35
10.75	25.36	15.43	9.63	274.12	2.72	24.32	26.44
10.77	25.55	15.39	9.21	276.31	2.74	24.26	26.34
10.58	25.38	15.37	9.18	276.58	2.71	24.50	26.49
10.40	25.75	15.40	9.10	276.58	2.74	24.51	26.50
10.38	25.52	15.42	9.08	276.59	2.72	24.69	26.50
10.42	25.82	15.43	9.03	270.23	2.73	24.52	26.40
10.44	26.03	15.44	9.02	273.84	2.73	24.47	26.50
10.48	25.44	15.45	9.01	272.11	2.71	24.41	26.34
10.52	25.84	15.48	8.88	274.12	2.73	24.31	26.42
10.58	25.83	15.47	8.66	278.21	2.71	24.63	26.43
10.58	25.51	15.45	8.65	278.59	2.71	24.72	26.42
10.56	25.31	15.45	8.65	278.59	2.74	24.72	26.42
10.54	25.93	15.45	8.18	276.58	2.74	24.47	26.55
10.58	25.73	15.44	8.28	278.59	2.73	24.55	26.43
10.58	25.37	15.48	8.75	278.59	2.77	24.57	26.48
10.58	25.86	15.43	8.44	278.59	2.73	24.47	26.43
10.53	25.84	15.45	8.54	278.59	2.71	24.43	26.45
10.47	24.80	15.47	8.75	278.59	2.71	24.45	26.44
10.48	25.37	15.46	8.80	278.59	2.73	24.54	26.49
10.44	25.64	15.42	10.23	278.59	2.72	24.26	26.54
10.42	25.44	15.42	10.53	278.59	2.71	24.10	26.82
10.44	25.44	15.42	11.38	278.59	2.71	24.11	26.51
10.48	25.44	15.42	11.38	278.59	2.60	24.13	26.38
Average Stack NOx, ppm (15% O2)	25.48	15.43	9.78	275.32	2.71	24.45	26.43
Average Stack CO, ppm (15% O2)	25.48	15.43	9.78	275.32	2.71	24.45	26.43
Average Stack O2, (%)	15.43	15.43	9.78	275.32	2.71	24.45	26.43
Average Duct Burner Gas Flow (MSCFH)	9.78	15.43	9.78	275.32	2.71	24.45	26.43
Average Turbine Gas Flow (MSCFH)	275.32	15.43	9.78	275.32	2.71	24.45	26.43
Average Steam Injection Rate (lb/s)	2.71	15.43	9.78	275.32	2.71	24.45	26.43
Ave. Ammonia Injection (lb/hr)	24.45	15.43	9.78	275.32	2.71	24.45	26.43
Ave. Turbine Load (MWh)	26.43	15.43	9.78	275.32	2.71	24.45	26.43

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Run 6

Stack NOx ppm	Stack CO ppm	Stack O2 %	Duct Burner Gas Flow MSCFH	Turbine Gas Flow MSCFH	Steam Injection lbs	Ammonia Injection lb/hr	Turbine Load MW
10.47	24.48	15.30	20-Mar-13 12:10:00	273.94	917-2015.PWQ	921F1C117_MV	921-2015.DKWATT
10.47	24.07	15.37	20-Mar-13 12:11:00	271.15	20-Mar-13 12:10:00	20-Mar-13 12:10:00	20-Mar-13 12:10:00
10.48	24.89	15.36	20-Mar-13 12:12:00	271.47	20-Mar-13 12:11:00	20-Mar-13 12:11:00	20-Mar-13 12:11:00
10.48	24.84	15.40	20-Mar-13 12:13:00	271.83	20-Mar-13 12:12:00	20-Mar-13 12:12:00	20-Mar-13 12:12:00
10.25	25.31	15.39	20-Mar-13 12:14:00	271.12	20-Mar-13 12:13:00	20-Mar-13 12:13:00	20-Mar-13 12:13:00
10.74	25.07	15.44	20-Mar-13 12:15:00	271.47	20-Mar-13 12:14:00	20-Mar-13 12:14:00	20-Mar-13 12:14:00
10.26	24.99	15.47	20-Mar-13 12:16:00	271.83	20-Mar-13 12:15:00	20-Mar-13 12:15:00	20-Mar-13 12:15:00
10.27	25.08	15.43	20-Mar-13 12:17:00	271.15	20-Mar-13 12:16:00	20-Mar-13 12:16:00	20-Mar-13 12:16:00
10.27	25.25	15.43	20-Mar-13 12:18:00	271.47	20-Mar-13 12:17:00	20-Mar-13 12:17:00	20-Mar-13 12:17:00
10.42	25.26	15.43	20-Mar-13 12:19:00	271.83	20-Mar-13 12:18:00	20-Mar-13 12:18:00	20-Mar-13 12:18:00
10.48	25.27	15.44	20-Mar-13 12:20:00	271.15	20-Mar-13 12:19:00	20-Mar-13 12:19:00	20-Mar-13 12:19:00
10.55	25.41	15.44	20-Mar-13 12:21:00	271.47	20-Mar-13 12:20:00	20-Mar-13 12:20:00	20-Mar-13 12:20:00
10.67	25.41	15.46	20-Mar-13 12:22:00	271.83	20-Mar-13 12:21:00	20-Mar-13 12:21:00	20-Mar-13 12:21:00
10.56	25.28	15.47	20-Mar-13 12:23:00	271.15	20-Mar-13 12:22:00	20-Mar-13 12:22:00	20-Mar-13 12:22:00
10.56	25.38	15.45	20-Mar-13 12:24:00	271.47	20-Mar-13 12:23:00	20-Mar-13 12:23:00	20-Mar-13 12:23:00
10.57	24.64	15.42	20-Mar-13 12:25:00	271.83	20-Mar-13 12:24:00	20-Mar-13 12:24:00	20-Mar-13 12:24:00
10.52	24.80	15.46	20-Mar-13 12:26:00	271.15	20-Mar-13 12:25:00	20-Mar-13 12:25:00	20-Mar-13 12:25:00
10.47	24.99	15.47	20-Mar-13 12:27:00	271.47	20-Mar-13 12:26:00	20-Mar-13 12:26:00	20-Mar-13 12:26:00
10.51	24.51	15.43	20-Mar-13 12:28:00	271.83	20-Mar-13 12:27:00	20-Mar-13 12:27:00	20-Mar-13 12:27:00
10.55	24.29	15.42	20-Mar-13 12:29:00	271.15	20-Mar-13 12:28:00	20-Mar-13 12:28:00	20-Mar-13 12:28:00
10.56	25.64	15.43	20-Mar-13 12:30:00	271.47	20-Mar-13 12:29:00	20-Mar-13 12:29:00	20-Mar-13 12:29:00
10.54	24.82	15.43	20-Mar-13 12:31:00	271.83	20-Mar-13 12:30:00	20-Mar-13 12:30:00	20-Mar-13 12:30:00
10.44	24.82	15.43	20-Mar-13 12:32:00	271.15	20-Mar-13 12:31:00	20-Mar-13 12:31:00	20-Mar-13 12:31:00
10.25	25.17	15.43	20-Mar-13 12:33:00	271.47	20-Mar-13 12:32:00	20-Mar-13 12:32:00	20-Mar-13 12:32:00
10.42	25.10	15.41	20-Mar-13 12:34:00	271.83	20-Mar-13 12:33:00	20-Mar-13 12:33:00	20-Mar-13 12:33:00
10.49	25.00	15.52	20-Mar-13 12:35:00	271.15	20-Mar-13 12:34:00	20-Mar-13 12:34:00	20-Mar-13 12:34:00
10.48	25.18	15.47	20-Mar-13 12:36:00	271.47	20-Mar-13 12:35:00	20-Mar-13 12:35:00	20-Mar-13 12:35:00
10.46	24.88	15.48	20-Mar-13 12:37:00	271.83	20-Mar-13 12:36:00	20-Mar-13 12:36:00	20-Mar-13 12:36:00
10.35	25.06	15.48	20-Mar-13 12:38:00	271.15	20-Mar-13 12:37:00	20-Mar-13 12:37:00	20-Mar-13 12:37:00
10.54	25.24	15.48	20-Mar-13 12:39:00	271.47	20-Mar-13 12:38:00	20-Mar-13 12:38:00	20-Mar-13 12:38:00
10.49	24.83	15.51	20-Mar-13 12:40:00	271.83	20-Mar-13 12:39:00	20-Mar-13 12:39:00	20-Mar-13 12:39:00
10.36	25.03	15.55	20-Mar-13 12:41:00	271.15	20-Mar-13 12:40:00	20-Mar-13 12:40:00	20-Mar-13 12:40:00
10.47	25.03	15.44	Average Stack NOx, ppm (15% O2)	273.80	Average Duct Burner Gas Flow (MSCFH)	Average Stack O2 (%)	Average Stack CO, ppm (15% O2)
10.47	25.03	15.44	Average Stack NOx, ppm (15% O2)	273.80	Average Duct Burner Gas Flow (MSCFH)	Average Stack O2 (%)	Average Stack CO, ppm (15% O2)
26.35	24.15	2.70	Ave. Steam Injection Rate (lbs)	273.80	Average Turbine Gas Flow (MSCFH)	10.73	25.03
26.35	24.15	2.70	Ave. Steam Injection Rate (lbs)	273.80	Average Turbine Gas Flow (MSCFH)	10.73	25.03
26.35	24.15	2.70	Ave. Ammonia Injection (lb/hr)	273.80	Average Turbine Gas Flow (MSCFH)	10.73	25.03
26.35	24.15	2.70	Ave. Ammonia Injection (lb/hr)	273.80	Average Turbine Gas Flow (MSCFH)	10.73	25.03
26.35	24.15	2.70	Ave. Turbine Load (MW)	273.80	Average Turbine Gas Flow (MSCFH)	10.73	25.03
26.35	24.15	2.70	Ave. Turbine Load (MW)	273.80	Average Turbine Gas Flow (MSCFH)	10.73	25.03

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Run 7

Stack NOx	Stack CO	Stack O2	Duct Burner Gas Flow	Turbine Gas Flow	Steam Injection	Ammonia Injection	Turbine Load
40.48	21.83	15.51	12.18	274.12	2.67	24.36	26.21
40.36	24.07	15.53	11.98	278.21	2.64	24.76	26.25
40.36	24.26	15.51	11.75	278.58	2.65	24.27	26.29
40.36	24.21	15.51	11.53	278.23	2.65	24.11	26.31
40.45	24.08	15.53	11.37	273.81	2.68	24.66	26.35
40.38	24.08	15.53	11.24	272.11	2.65	23.86	26.35
40.48	24.88	15.51	11.79	274.12	2.65	23.86	26.35
40.41	25.01	15.53	11.28	275.95	2.65	24.12	26.34
40.38	25.48	15.53	11.63	273.84	2.68	23.68	26.27
40.38	24.83	15.54	11.07	271.75	2.65	23.75	26.46
40.42	24.67	15.53	12.08	271.47	2.64	24.00	26.33
40.48	24.49	15.56	11.15	271.47	2.65	24.00	26.33
40.53	24.75	15.53	12.82	271.47	2.65	23.80	26.31
40.58	24.83	15.49	12.60	271.47	2.70	23.80	26.36
40.53	24.38	15.56	12.38	271.47	2.68	23.78	26.36
40.58	24.63	15.46	12.21	271.47	2.65	23.84	26.31
40.56	24.27	15.49	12.29	271.47	2.65	23.73	26.23
40.51	24.83	15.49	12.46	271.47	2.64	23.85	26.14
40.52	24.85	15.50	12.58	271.47	2.65	23.72	26.12
40.54	24.84	15.41	12.73	271.83	2.68	23.80	26.10
40.58	24.91	15.46	12.52	274.12	2.68	23.79	26.26
40.61	25.46	15.49	12.24	275.85	2.65	23.72	26.22
40.43	25.18	15.47	11.84	273.84	2.68	24.14	26.16
40.37	25.21	15.49	11.83	271.75	2.68	23.83	26.20
40.31	25.29	15.56	11.26	271.47	2.65	24.29	26.26
40.48	25.27	15.51	11.17	271.47	2.67	23.78	26.17
40.50	25.15	15.53	11.05	271.47	2.65	23.74	26.08
40.54	25.21	15.56	10.83	271.47	2.68	23.82	26.13
40.50	25.23	15.54	10.78	271.47	2.65	23.56	26.08
40.51	25.41	15.54	10.80	271.47	2.67	23.64	26.24
40.52	25.19	15.51	10.25	271.47	2.65	23.64	26.20
40.47	25.84	15.53	10.17	271.47	2.65	23.68	26.25

Average Stack NOx, ppm (15% O2)	Average Stack CO, ppm (15% O2)	Average Stack O2 (%)	Average Duct Burner Gas Flow (MSCFH)	Average Turbine Gas Flow (MSCFH)	Ave. Steam Injection Rate (lbs)	Ave. Ammonia Injection (lb/hr)	Ave. Turbine Load (MWh)
10.47	24.91	15.52	11.78	272.74	2.66	23.88	26.21

New-Indy Oxnard, LLC
 ROSEMOUNT CEMS SOURCE TEST
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Run 8

RS_NGX PPM	Stack CO	Stack O2	Duct Burner Gas Flow MGASFLOW_A	Turbine Gas Flow GTASFLOW	Steam Injection S21-2015.WQ	Ammonia Injection S31FC1173.AV	Turbine Load
10.38	25.13	15.54	10.46	271.47	2.85	23.01	26.15
10.48	25.67	15.82	10.61	271.47	2.85	23.08	26.23
10.48	25.46	15.82	10.61	271.47	2.85	23.52	26.13
10.50	26.03	15.50	10.75	271.47	2.86	23.71	26.22
10.83	26.14	15.50	10.76	271.47	2.87	23.51	26.40
10.74	25.47	15.56	10.66	271.47	2.84	23.07	26.36
10.64	25.89	15.57	10.84	271.47	2.71	23.99	26.26
10.53	25.24	15.52	10.67	271.47	2.68	23.78	26.28
10.52	25.45	15.50	10.41	271.47	2.64	23.81	26.31
10.52	25.86	15.53	10.77	271.47	2.66	23.07	26.33
10.52	25.82	15.52	10.73	271.47	2.66	23.67	26.36
10.53	26.09	15.52	10.86	271.47	2.67	23.72	26.36
10.58	26.38	15.52	10.76	271.47	2.66	23.87	26.28
10.61	26.08	15.55	10.25	271.47	2.66	23.82	26.27
10.83	26.48	15.55	10.25	271.47	2.66	23.91	26.28
10.42	26.23	15.52	10.34	271.47	2.65	23.71	26.34
10.53	26.27	15.56	10.34	271.47	2.66	23.64	26.29
10.84	26.70	15.52	10.36	271.47	2.65	23.42	26.29
10.42	27.04	15.54	10.36	271.47	2.66	23.86	26.27
10.41	26.50	15.54	10.36	271.47	2.66	23.42	26.18
10.49	26.20	15.54	10.36	271.47	2.66	23.46	26.34
10.57	26.21	15.53	10.29	271.47	2.65	23.36	26.16
10.57	26.32	15.52	10.29	271.47	2.67	23.36	26.20
10.55	27.27	15.48	10.42	271.47	2.66	23.51	26.17
10.51	26.85	15.48	10.89	271.47	2.65	23.25	26.11
10.42	26.85	15.48	8.51	271.47	2.85	23.25	26.16
10.42	26.45	15.45	8.77	271.47	2.66	23.55	26.29
10.26	26.45	15.45	8.77	271.47	2.66	23.55	26.29
10.47	26.28	15.47	9.01	271.47	2.66	23.85	26.89
10.58	26.21	15.48	9.23	271.47	2.65	23.36	26.31
10.58	26.70	15.54	8.64	271.47	2.66	23.05	26.28
10.58	25.14	15.42	8.02	271.47	2.72	23.01	26.17
10.53	25.41	15.42	8.43	271.47	2.72	23.23	26.34
10.55	25.17	15.49	8.08	271.47	2.66	23.67	26.22
10.56	25.16	15.48	8.07	271.47	2.65	23.76	26.29
10.56	25.16	15.48	8.07	271.47	2.65	23.48	26.34
Average Stack NOx, ppm (15% O2)	Average Stack CO, ppm (15% O2)	Average Stack O2 (%)	Average Duct Burner Gas Flow (MSCFH)	Average Turbine Gas Flow (MSCFH)	Average Steam Injection Rate (lbs)	Ave. Ammonia Injection (lbs/hr)	Ave. Turbine Load (MWh)
10.53	25.95	15.51	10.56	271.47	2.66	23.65	26.22

New-Indy Oxnard, LLC
ROSEMOUNT CEMS SOURCE TEST
March 20, 2013

3/20/2013 14:14:32 3292013 14:46 1 m

Run 9

Stack NOx	Stack CO	Stack O2	Duct Burner Gas Flow	Turbine Gas Flow	Steam Injection	Ammonia Injection	Turbine Load
10.56	25.29	15.42	11.55	271.47	2.86	23.64	23.82
10.54	25.27	15.47	11.26	271.47	2.85	23.50	23.86
10.81	25.74	15.47	11.33	271.47	2.85	23.63	23.81
10.65	25.41	15.51	11.20	271.47	2.86	23.65	23.87
10.71	25.41	15.51	11.20	271.47	2.86	23.65	23.87
10.80	25.74	15.54	11.18	271.47	2.86	23.66	23.88
10.85	25.74	15.54	11.18	271.47	2.86	23.66	23.88
10.91	25.98	15.48	10.98	271.47	2.85	23.85	23.85
10.75	25.98	15.48	10.98	271.47	2.85	23.85	23.85
10.61	24.53	15.48	10.64	271.47	2.85	23.86	24.15
10.50	24.85	15.51	10.68	271.47	2.84	23.37	24.10
10.44	25.71	15.51	10.46	271.47	2.86	23.95	24.05
10.64	25.41	15.48	10.46	271.47	2.87	23.88	24.01
10.91	24.84	15.44	10.46	271.47	2.86	24.08	24.06
10.76	24.84	15.44	10.46	271.47	2.86	24.08	24.06
10.71	26.21	15.43	8.87	271.47	2.85	23.64	24.06
10.63	26.11	15.42	8.86	271.47	2.85	23.68	24.05
10.58	25.45	15.41	9.82	271.47	2.88	24.72	24.08
10.54	24.84	15.41	9.40	271.47	2.83	24.08	24.31
10.53	26.26	15.47	9.18	271.47	2.86	24.32	24.29
10.48	26.26	15.47	8.86	271.47	2.84	24.33	24.29
10.45	25.29	15.40	8.86	271.47	2.86	24.22	24.14
10.43	26.87	15.30	8.54	271.47	2.86	24.22	24.14
10.43	26.14	15.47	8.25	271.47	2.86	24.18	24.24
10.56	26.20	15.48	8.58	271.47	2.86	24.43	24.41
10.54	26.20	15.45	8.11	271.47	2.86	24.25	24.32
10.56	26.26	15.47	8.11	271.47	2.84	24.25	24.32
10.44	26.87	15.40	8.35	271.47	2.84	24.18	24.30
10.34	27.04	15.30	8.23	271.47	2.86	24.41	24.21
10.43	26.21	15.47	8.29	271.47	2.85	24.37	24.19
10.63	26.48	15.49	8.33	270.50	2.85	24.53	24.30
10.51	26.02	15.48	8.30	270.50	2.85	24.75	24.30
10.48	25.97	15.45	8.20	270.50	2.73	24.80	24.30
10.53	25.27	15.45	7.80	270.50	2.84	24.80	24.30
10.57	24.81	15.48	7.41	271.47	2.73	24.54	24.30
10.52	24.81	15.48	7.25	271.47	2.85	24.97	24.37
10.48	24.73	15.45	7.34	271.47	2.84	25.10	24.24
Average Stack NOx, ppm (15% O2)	Average Stack CO, ppm (15% O2)	Average Stack O2 (%)	Average Duct Burner Gas Flow (MSCFH)	Average Turbine Gas Flow (MSCFH)	Average Steam Injection Rate (lb/hr)	Average Ammonia Injection (lb/hr)	Average Turbine Load (MWh)
10.57	25.61	15.47	9.38	272.43	2.65	24.24	26.18

EPA METHOD 20: MEASUREMENT
SYSTEM PERFORMANCE TESTS

RESPONSE TIME

DATE OF TEST... 2/20/13... PROBE LOCATION... multi-point
ANALYZER TYPE & Serial No., NO_x: APE 300EH
CO: API 300EM
O₂: Servomex 1400

Span Gas Concentration/Analyzer Full Scale Setting:

NO_x; Gas, ppmv: 19.7... Span setting, ppmv: 0.25
CO: Gas, ppmv: 79.9... Span setting, ppmv: 0-100
O₂: Gas, %: 20.2... Span setting, %: 0.25

UPSCALE TIME - Analyzer + Sampling System:

Trial #	NO _x	CO	O ₂	
1	.65.	.64.	.63.	seconds.
2	.66.	.66.	.69.	seconds.
3	.65.	.65.	.64.	seconds.
Average Response:	.65.	.65.	.63.	seconds.

DOWNSCALE - Analyzer + Sampling System:

Trial #	NO _x	CO	O ₂	
1	.64.	.66.	.62.	seconds.
2	.65.	.64.	.63.	seconds.
3	.62.	.66.	.62.	seconds.
Average Response:	.66.	.65.	.62.	seconds.

Average System Response: seconds.
Slower Average: seconds.

INSTRUMENT INFORMATION

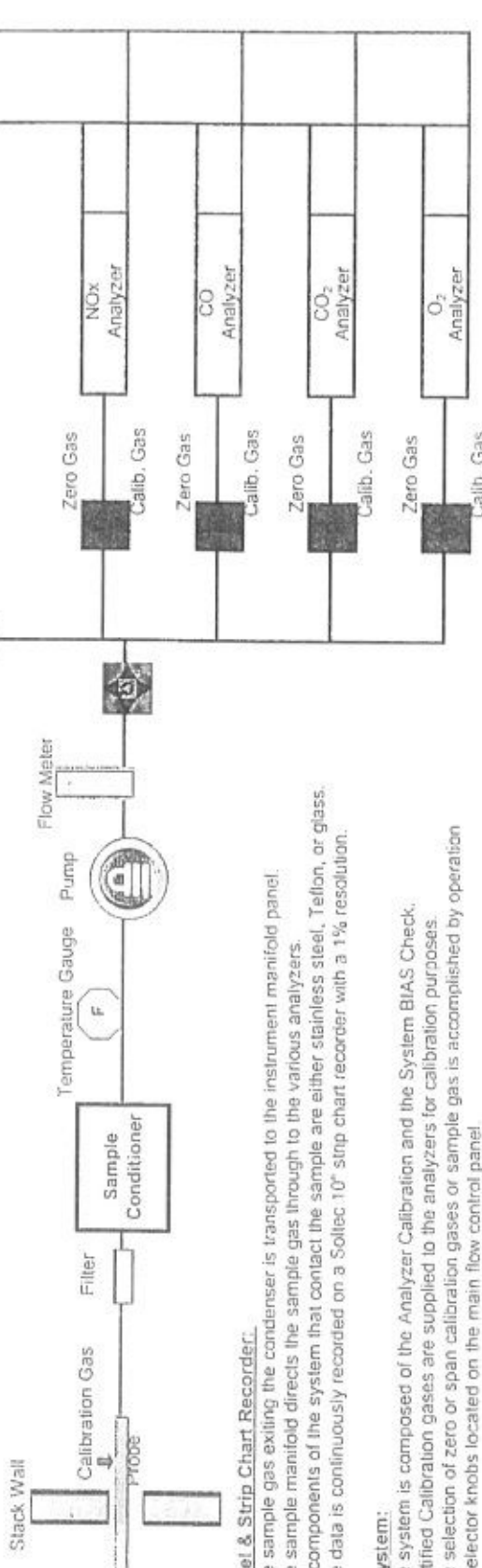
CARB Method 100 – Sample Train Assembly

Probe:

1. AIRx Testing Services, Inc. uses a stainless steel sampling probe.
2. The probe is connected to the sample conditioner using a heated (if necessary) Teflon sampling line.

Sample Conditioner (Condenser System):

1. The sample conditioner consists of a moisture knock-out bottle immersed in an ice bath.
2. All parts of the conditioner exposed to the sample are either glass, stainless steel, or Teflon.
3. The sample conditioner is setup so that the sample gas is not bubbled through the condensate.
4. A temperature gauge is used to determine the temperature of the condenser outlet.
5. Capable of reducing sample gas temperature to 15 °C (60 °F)



Manifold Panel & Strip Chart Recorder:

1. The sample gas exiting the condenser is transported to the instrument manifold panel.
2. The sample manifold directs the sample gas through to the various analyzers.
3. All components of the system that contact the sample are either stainless steel, Teflon, or glass.
4. The data is continuously recorded on a Soltec 10" strip chart recorder with a 1% resolution.

Calibration System:

1. The system is composed of the Analyzer Calibration and the System BIAS Check.
2. Certified Calibration gases are supplied to the analyzers for calibration purposes.
3. The selection of zero or span calibration gases or sample gas is accomplished by operation of selector knobs located on the main flow control panel

Nitrogen Oxides: — Chemiluminescent Analyzer. Based on the chemiluminescent reaction of NO and ozone to form NO₂ in an excited state. Light emission is monitored through an optical filter by a high sensitivity photomultiplier tube. The output of which is electronically processed so it is linearly proportional to the NO concentration. The output is in units of ppmv

Carbon Monoxide – Non-Dispersive Infrared (NDIR) Analyzer: Radiation from an infrared source is passed through a narrow band-pass filter and a multiple optical pass sample cell where absorption by the sample gas occurs. The infrared radiation exits the sample cell and falls on a solid state infrared detector. The output is in units of ppmv.

Oxygen – Electrochemical Analyzer: Oxygen in the flue gas sample diffuses through a Teflon membrane and is reduced on the surface of the cathode. A corresponding oxidation occurs at the anode and an electric current proportional to the concentration of oxygen is produced. The output is in units of percent O₂ by volume.

Carbon Dioxide – Non-Dispersive Infrared (NDIR) Analyzer: The instrument measures the differential in infrared energy absorbed through a reference cell (containing a gas selected to have minimal absorption of infrared energy in the wavelength absorbed by CO₂) and a sample cell through which the sample gas flows continuously. The output is in units of percent CO₂ by volume.

SOURCE EMISSION INSTRUMENTATION LIST

2/16/2011

OXIDES OF NITROGEN

<p>Unit No. - 1: Manufacturer: API Model No.: 200 E11 Serial No.: 233 Method: Chemiluminescence Range (ppmv) 0-5000</p>	<p>Unit No. - 6: Manufacturer: Thermo Environmental (TECO) Model No.: 10AR Serial No.: 26886-227 Method: Chemiluminescence Range (ppmv) 0-2.5, 10, 25, 100, 250, 1000, 2500, 10000</p>
<p>Unit No. - 2: Manufacturer: API Model No.: 200 E11 Serial No.: 234 Method: Chemiluminescence Range (ppmv) 0-5000</p>	<p>Unit No. - 7: Manufacturer: Thermo Environmental (TECO) Model No.: 10AR Serial No.: 25559-221 Method: Chemiluminescence Range (ppmv) 0-2.5, 10, 25, 100, 250, 1000, 2500, 10000</p>
<p>Unit No. - 3: Manufacturer: API Model No.: 200 E11 Serial No.: 109 Method: Chemiluminescence Range (ppmv) 0-5000</p>	<p>Unit No. - 8: Manufacturer: Thermo Environmental (TECO) Model No.: 10AR Serial No.: 38586-258 Method: Chemiluminescence Range (ppmv) 0-2.5, 10, 25, 100, 250, 1000, 2500, 10000</p>
<p>Unit No. - 4: Manufacturer: Thermo Environmental (TECO) Model No.: 10 Serial No.: 24697-216 Method: Chemiluminescence Range (ppmv) 0-2.5, 10, 25, 100, 250, 1000, 2500, 10000</p>	
<p>Unit No. - 5: Manufacturer: Thermo Environmental (TECO) Model No.: 10AR Serial No.: 26840-227 Method: Chemiluminescence Range (ppmv) 0-2.5, 10, 25, 100, 250, 1000, 2500, 10000</p>	

X TESTING

SOURCE EMISSION INSTRUMENTATION LIST
2/16/2011

OXIDES OF NITROGEN (cont)

Unit No. - 4:	
Manufacturer:	API
Model No.:	200 E11
Serial No.:	442
Method:	Chemiluminescence
Range (ppmv)	0-5000
Unit No. - 5:	
Manufacturer:	API
Model No.:	200 E11
Serial No.:	441
Method:	Chemiluminescence
Range (ppmv)	0-5000
Unit No. - 6:	
Manufacturer:	API
Model No.:	200 A
Serial No.:	1013
Method:	Chemiluminescence
Range (ppmv)	0-50

X **X TESTING**

SOURCE EMISSION INSTRUMENTATION LIST
2/16/2011

CARBON MONOXIDE

Unit No. - 1: Manufacturer: Model No.: Serial No.: Method: Range (ppmv)	API 300 EM 239 NDIR/GFC 0-5, 10, 25, 50, 100, 250, 500, 1000, 2500, 5000	Unit No. - 2: Manufacturer: Model No.: Serial No.: Method: Range (ppmv)	API 300 EM 240 NDIR/GFC 0-5, 10, 25, 50, 100, 250, 500, 1000, 2500, 5000
Unit No. - 3: Manufacturer: Model No.: Serial No.: Method: Range (ppmv)	API 300 EM 241 NDIR/GFC 0-5, 10, 25, 50, 100, 250, 500, 1000, 2500, 5000	Unit No - 5: Manufacturer: Model No.: Serial No.: Method: Range (ppmv)	Thermo Environmental (TECO) 48H 25184-219 NDIR/GFC 0-50, 100, 200, 500, 1000, 2000, 5000, 10000, 20000, 50000
Unit No. - 6: Manufacturer: Model No.: Serial No.: Method: Range (ppmv)	Thermo Environmental (TECO) 48H 29031-233 NDIR/GFC 0-50, 100, 200, 500, 1000, 2000, 5000, 10000, 20000, 50000	Unit No. - 7: Manufacturer: Model No.: Serial No.: Method: Range (ppmv)	Siemens Ultramat 21p AO4-254 NDIR 0-300
Unit No. - 10: Manufacturer: Model No.: Serial No.: Method: Range (ppmv)	Thermo Environmental (TECO) 48H 38391-257 NDIR/GFC 0-50, 100, 200, 500, 1000, 2000, 5000, 10000, 20000, 50000	Unit No. - 11: Manufacturer: Model No.: Serial No.: Method: Range (ppmv)	Thermo Environmental (TECO) 48H 35226-249 NDIR/GFC 0-50, 100, 200, 500, 1000, 2000, 5000, 10000, 20000, 50000
Unit No - 13: Manufacturer: Model No.: Serial No.: Method: Range (ppmv)	Thermo Environmental (TECO) 48 48-15970-159 NDIR/GFC 0-1, 2, 5, 10, 20, 50, 100, 200, 500, 1000	Unit No - 14: Manufacturer: Model No.: Serial No.: Method: Range (ppmv)	Thermo Environmental (TECO) 48 48-23925-213 NDIR/GFC 0-1, 2, 5, 10, 20, 50, 100, 200, 500, 1000



SOURCE EMISSION INSTRUMENTATION LIST
2/16/2011

OXYGEN

Unit No. - 5:	
Manufacturer:	Teledyne
Model No.:	320-AX
Serial No.:	108743
Method:	Electrochemical
Range (%)	0-5, 10, 25
Unit No. - 7:	
Manufacturer:	Teledyne
Model No.:	320-AX
Serial No.:	108742
Method:	Electrochemical
Range (%)	0-5, 10, 25
Unit No. - 9:	
Manufacturer:	Servomex
Model No.:	1400
Serial No.:	01420/B3701/730
Method:	Paramagnetic
Range (%)	0-25, 100
Unit No. - 10:	
Manufacturer:	Servomex
Model No.:	1400
Serial No.:	01420/B3701/747
Method:	Paramagnetic
Range (%)	0-25, 100
Unit No. - 11:	
Manufacturer:	Teledyne
Model No.:	320-A
Serial No.:	111211
Method:	Electrochemical
Range (%)	0-5, 10, 25

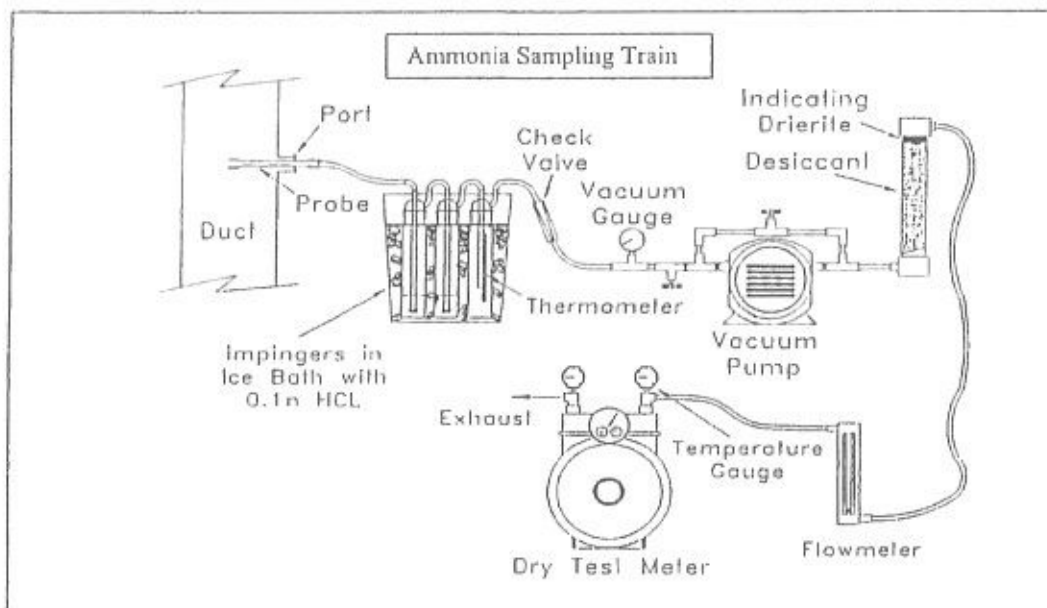
X **X TESTING**

BAAQMD Method ST-1B / Ammonia Integrated Sampling

Principle: A gas sample is drawn through a solution of 0.1N hydrochloric acid which absorbs the ammonia.

Pre-Test Procedures:

- ❖ Add 100 ml of 0.1N to each of two impingers; retain 100 ml of the HCl to analyze as a blank
- ❖ Leak-test sampling train by starting the pump, plugging the probe, and adjusting the pump inlet vacuum to 10 inches Hg. The leak rate must not exceed 0.6 liter/min (0.02 CFM). Release plug, stop pump.
- ❖ Record initial "dry test meter" reading and barometric pressure.
- ❖ In the absence of stratification, sample at single point, otherwise select sampling traverse points.



Sampling Procedure:

- ❖ Each test run shall be of **30 minute** duration or 90% of the batch time, whichever is less
- ❖ Position probe at the sampling point and start the pump
- ❖ Sample at constant rate of **14.3 liter/min (0.5 CFM)**, using rotameter to establish initial rate only
- ❖ Record "dry test meter" volume and temperature and "impinger outlet" temperature at 5-min intervals
- ❖ Maintain impinger temperature at 7°C (45°F) or less by adding ice as necessary
- ❖ At the conclusion of each run, stop pump, remove probe from stack and record final reading
- ❖ Point probe upward and purge sample train with ambient air

Analysis: Individually analyze the hydrochloric acid solutions and the blank for total ammonia content.

Calculations:

Standard sample volume	Ammonia Concentration
$V_o = (17.71)V_m P_b / T_m$	$C = 5.02 \times 10^4 W / V_o$
<p>Where: V_o = Corrected sample volume to std conditions; T_m = Average run meter temperature (°R); V_m = Uncorrected meter volume (ft³); P_b = Barometric pressure (inches Hg); 17.71 = Constant correcting to 70°F & 29.92 in.Hg.</p>	<p>Where: C = Ammonia concentration, ppmv on a dry basis; W = Total weight of ammonia in the impinger catch, for each run, (g); 5.02 x 10⁴ = Constant derived from the MW and correcting to standard conditions.</p>

QUALITY ASSURANCE



Air Liquide America
Specialty Gases LLC



RATA CLASS

Dual-Analyzed Calibration Standard

8832 DICE ROAD, SANTA FE SPRINGS, CA 90670-2516

Phone: 800-323-2212

Fax: 562-464-5262

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory - PGVP Vendor ID: A52012

AIR LIQUIDE AMERICA SPECIALTY GASES LLC
8832 DICE ROAD
SANTA FE SPRINGS, CA 90670 2516

P.O. No.: VEN-8/14/12-RY
Document #: 47423468-001

Customer
AIRX TESTING SERVICES, INC.

RYAN YANAGIHARA
2472 EASTMAN AVE.
UNIT # 34
VENTURA CA 93003
US

ANALYTICAL INFORMATION Gas Type : NO

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

Cylinder Number: AL3056 Certification Date: 18Jul2012 Exp. Date: 18Jul2014
Cylinder Pressure***: 2000 PSIG Batch No: SBO0057746

COMPONENT	CERTIFIED CONCENTRATION (Moles)	ACCURACY**	TRACEABILITY
NITRIC OXIDE	12.0 PPM	+/- 1%	Direct NIST and VSL
NITROGEN - OXYGEN FREE	BALANCE		
TOTAL OXIDES OF NITROGEN	12.1 PPM		Reference Value Only

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

** Analytical accuracy is based on the requirements of EPA Protocol For G-1; September 1997.

REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMPONENT
NTRM 2628	05Jan2016	KAL004091	10.12 PPM	NITRIC OXIDE

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
COPHYSICS/CLD 84 M/84M0405	12Jul2012	CHEMILUMINESCENCE

ANALYZER READINGS

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

First Triad Analysis

Second Triad Analysis

Calibration Curve

NITRIC OXIDE

Date: 09Jul2012 Response Unit: PPM

Z1 = 0.00000	R1 = 9.62900	T1 = 11.45000
R2 = 9.65000	Z2 = 0.00000	T2 = 11.44000
Z3 = 0.00000	T3 = 11.48000	R3 = 9.64400
Avg. Concentration: 12.01 PPM		

Date: 18Jul2012 Response Unit: PPM

Z1 = 0.00000	R1 = 9.64600	T1 = 11.48000
R2 = 9.63900	Z2 = 0.00000	T2 = 11.46000
Z3 = 0.00000	T3 = 11.47000	R3 = 9.65900
Avg. Concentration: 12.03 PPM		

Concentration = A + Bx + Cx² + Dx³ + Ex⁴
r = 0.9999937

Constants:	A = 0.020399
B = 1.051608	C = 0
D = 0	F = 0

APPROVED BY:

MT



Air Liquide America
Specialty Gases LLC



RATA CLASS

Dual-Analyzed Calibration Standard

8832 DICE ROAD, SANTA FE SPRINGS, CA 90670-2516

Phone: 800-323-2212

Fax: 562-464-5262

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory - PGVP Vendor ID: A52013

AIR LIQUIDE AMERICA SPECIALTY GASES LLC
8832 DICE ROAD
SANTA FE SPRINGS, CA 90670-2516

P.O. No.: VN-2/21/13-RY
Document #: 49737747-001

Customer
AIRX TESTING SERVICES, INC.

RYAN YANAGIHARA
2472 EASTMAN AVE.
UNIT # 34
VENTURA CA 93003
US

ANALYTICAL INFORMATION Gas Type : NO,BALN

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

Cylinder Number: AAL2398 Certification Date: 25Feb2013 Exp. Date: 26Feb2016
Cylinder Pressure***: 2000 PSIG Batch No: SBO0065383

COMPONENT	CERTIFIED CONCENTRATION (Moles)	ACCURACY**	TRACEABILITY
NITRIC OXIDE	19.7 PPM	+/- 1%	Direct NIST and VSL
NITROGEN - OXYGEN FREE	BALANCE		
TOTAL OXIDES OF NITROGEN	19.8 PPM		Reference Value Only

*** 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	COMPONENT
NTRM 2629	31May2016	KAL004237	20.34 PPM	NITRIC OXIDE

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
ECOPHYSICS/CLD 84 M/84M0405	22Feb2013	CHEMILUMINESCENCE

ANALYZER READINGS

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

First Triad Analysis

Second Triad Analysis

Calibration Curve

NITRIC OXIDE

Date: 18Feb2013 Response Unit: PPM
Z1 = 0.00000 R1 = 20.35000 T1 = 19.60000
R2 = 20.32000 Z2 = 0.00000 T2 = 19.48000
Z3 = 0.00000 T3 = 19.58000 R3 = 20.34000
Avg. Concentration: 19.58 PPM

Date: 25Feb2013 Response Unit: PPM
Z1 = 0.00000 R1 = 19.84000 T1 = 19.20000
R2 = 19.80000 Z2 = 0.00000 T2 = 19.21000
Z3 = 0.00000 T3 = 19.25000 R3 = 19.76000
Avg. Concentration: 19.76 PPM

Concentration = A + Bx + Cx² + Dx³ + Ex⁴
r = 0.9999851
Constants: A = 0.413429
B = 1.023930 C = 0
D = 0 E = 0

APPROVED BY: _____

MT



Air Liquide America
Specialty Gases LLC



COMPLIANCE CLASS

Dual-Analyzed Calibration Standard

500 WEAVER PARK RD, LONGMONT, CO 80501

Phone: 888-253-1635

Fax: 303-772-7673

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory - PGVP Vendor ID: A42012

AIR LIQUIDE AMERICA SPECIALTY GASES LLC
500 WEAVER PARK RD
LONGMONT, CO 80501

P.O. No.: STOCK
Document # : 47729683-001

Customer
ALA-CYL-SANTA FE SPRINGS (LOC 84306)

8832 DICE ROAD
TRANSFER ACCOUNT
SANTA FE SPRINGS CA 90670
US

ANALYTICAL INFORMATION

Gas Type : NO2

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

Cylinder Number: AAL12591

Certification Date: 21Sep2012

Exp. Date: 22Mar2013

Cylinder Pressure***: 2000 PSIG

Batch No: LGM0066846

COMPONENT

NITROGEN DIOXIDE
NITROGEN

CERTIFIED CONCENTRATION (Moles)

19.4 PPM
BALANCE

ACCURACY**

+/- 2%

TRACEABILITY
GMIS

*** 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
NO2/AIR GMIS 18Nov2012

CYLINDER NUMBER
ALM032519

CONCENTRATION
48.30 PPM

COMPONENT
NITROGEN DIOXIDE

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#
NONOX/CLA-220/41528750082

DATE LAST CALIBRATED
06Sep2012

ANALYTICAL PRINCIPLE
CHEMILUMINESCENT

Special Notes: 08-09299

APPROVED BY:

JON WITZAK



Air Liquide America
Specialty Gases LLC



RATA CLASS
Dual-Analyzed Calibration Standard

8832 DICE ROAD, SANTA FE SPRINGS, CA 90670-2516

Phone: 800-323-2212

Fax: 562-464-5262

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory - PGVP Vendor ID: A52012

P.O. No.: VEN-1/31/13-RY
Document #: 49613418-001

Customer
AIRX TESTING SERVICES, INC.

AIR LIQUIDE AMERICA SPECIALTY GASES LLC
8832 DICE ROAD
SANTA FE SPRINGS, CA 90670-2516

RYAN YANAGIHARA
2472 EASTMAN AVE.
UNIT # 34
VENTURA CA 93003
US

ANALYTICAL INFORMATION Gas Type : CO2,O2,BALN

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

Cylinder Number: ALM041403 Certification Date: 22Oct2012 Exp. Date: 23Oct2020
Cylinder Pressure***: 2000 PSIG Batch No: SBO0064617

COMPONENT	CERTIFIED CONCENTRATION (Moles)	ACCURACY**	TRACEABILITY
CARBON DIOXIDE	4.06 %	+/- 1%	Direct NIST and VSL
OXYGEN	12.0 %	+/- 1%	Direct NIST and VSL
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	COMPONENT
NTRM 2000	01Jun2013	K026535	5.006 %	CARBON DIOXIDE
NTRM 2350	04Jan2018	K021316	23.20 %	OXYGEN

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
VARIAN B/3400/2806	24Sep2012	FID & TCD
VARIAN B/3400/2806	22Oct2012	FID & TCD

ANALYZER READINGS

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

First Triad Analysis

Second Triad Analysis

Calibration Curve

CARBON DIOXIDE

Date: 22Oct2012 Response Unit: AREA
Z1 = 0.00000 R1 = 2964393. T1 = 2399876.
R2 = 2980125. Z2 = 0.00000 T2 = 2402360.
Z3 = 0.00000 T3 = 2399689. R3 = 2980405.
Avg. Concentration: 4.060 %

Concentration = A + Bx + Cx2 + Dx3 + Ex4
r = 0.9999965
Constants: A = 0.01567055
B = 1.67774E C = 0
D = 0 E = 0

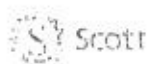
OXYGEN

Date: 22Oct2012 Response Unit: AREA
Z1 = 0.00000 R1 = 11630494 T1 = 6020757.
R2 = 11633270 Z2 = 0.00000 T2 = 6033110.
Z3 = 0.00000 T3 = 6030022. R3 = 11646974
Avg. Concentration: 12.00 %

Concentration = A + Bx + Cx2 + Dx3 + Ex4
r = 0.9999975
Constants: A = 0.00239242
B = 1.99651E-06 C = 0
D = 0 E = 0

Special Notes: NOT A DUPLICATE AIR X HAS TWO STOCKING LOCATIONS ONE HERE IN SFS AND ONE IN FRESNO.

APPROVED BY: JMU



RATA CLASS

Dual-Analyzed Calibration Standard

3002 DICE ROAD, SANTA FE SPRINGS, CA 90670-2516 Phone: 800-323-2212 Fax: 562-464-5262

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory - PGVP Vendor ID: A52011
 AIR LIQUIDE AMERICA SPECIALTY GASES LLC
 3002 DICE ROAD
 SANTA FE SPRINGS, CA 90670-2516

P.O. No.: RYAN
 Document #: 42943001 002

Customer
 AIRX TESTING SERVICES, INC.
 RYAN YANAGIHARA
 2472 EASTMAN AVE
 UNIT # 34
 VENTURA CA 93003
 US

ANALYTICAL INFORMATION Gas Type : OC2

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

Cylinder Number: AIM031868 Certification Date: 22Aug2011 Exp. Date: 21Aug2014
 Cylinder Pressure** : 2000 PSIG Batch No: SBO0041801

COMPONENT	CERTIFIED CONCENTRATION (Moles)	ACCURACY**	TRACEABILITY
CARBON DIOXIDE	8.17 %	+/- 1%	Direct NIST and VSL
OXYGEN	20.1 %	+/- 1%	Direct NIST and VSL
NITROGEN	BALANCE		

** Relative to when cylinder pressure is below 150 psig.
 Analytical accuracy is based on the requirements of EPA Protocol Procedure G-1, September, 1997.

REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMPONENT
SRM 1674	07Feb2016	10003096	7.016 %	CARBON DIOXIDE
SRM 2058	01Feb2016	K037663	10.03 %	OXYGEN

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
TRAMA R-3160-2806	15Aug2011	FID & TCD
TRAMA R-3160-2806	05Aug2011	FID & TCD

ANALYZER READINGS

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

First Triad Analysis	Second Triad Analysis	Calibration Curve
CARBON DIOXIDE Date: 22Aug2011 Response Unit: AREA T1 = 0.0000 R1 = 4158775 T1 = 4833557 T2 = 0.4865 R2 = 0.0000 T2 = 4843974 T3 = 1.0000 R3 = 4848165 T3 = 4156705 Avg. Concentration: 8.166 %		Concentration = A + Bx + Cx ² + Dx ³ + Ex ⁴ r = 0.999998 1674 Constants: A = 0.019613914 B = 0.0000016825 C = D = E =
OXYGEN Date: 22Aug2011 Response Unit: AREA T1 = 0.0000 R1 = 5011122 T1 = 10024091 T2 = 0.0000 R2 = 8403.000 T2 = 10042441 T3 = 0.0000 R3 = 10036053 T3 = 5014058 Avg. Concentration: 20.08 %		Concentration = A + Bx + Cx ² + Dx ³ + Ex ⁴ r = 0.999999 2058 Constants: A = 0.00376584 B = 0.0000020036 C = D = E =

APPROVED BY: DC [Signature]



AIR LIQUIDE

Air Liquide America
Specialty Gases LLC



RATA CLASS

Dual-Analyzed Calibration Standard

8832 DICE ROAD, SANTA FE SPRINGS, CA 90670-2516

Phone: 800-323-2212

Fax: 562-464-5262

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory - PGVP Vendor ID: A52012

AIR LIQUIDE AMERICA SPECIALTY GASES LLC
8832 DICE ROAD
SANTA FE SPRINGS, CA 90670-2516

P.O. No.: VEN-1/31/13-RY
Document #: 49501915-001

Customer
AIRX TESTING SERVICES, INC.

RYAN YANAGIHARA
2472 EASTMAN AVE.
UNIT # 34
VENTURA CA 93003
US

ANALYTICAL INFORMATION Gas Type : NONE

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

Cylinder Number: CC15628 Certification Date: 24Jan2012 Exp. Date: 25Jan2020
Cylinder Pressure***: 2000 PSIG Batch No: SBC0064442

COMPONENT	CERTIFIED CONCENTRATION (Moles)	ACCURACY**	TRACEABILITY
CARBON MONOXIDE	39.7 PPM	+/- 1%	Direct NIST and VSL
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	COMPONENT
NTRM 167B	01Nov2013	ALM045121	51.13 PPM	CARBON MONOXIDE

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
LOW CO ANALY/APMA-360CE/42898860031	13Jan2012	NDIR

ANALYZER READINGS

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

First Triad Analysis

Second Triad Analysis

Calibration Curve

CARBON MONOXIDE

Date: 16Jan2012 Response Unit: PPM

Z1 = 0.00000	R1 = 49.93000	T1 = 38.84000
R2 = 49.88000	Z2 = 0.00000	T2 = 38.85000
Z3 = 0.00000	T3 = 38.86000	R3 = 49.99000
Avg. Concentration:		39.73 PPM

Date: 24Jan2012 Response Unit: PPM

Z1 = 0.00000	R1 = 49.95000	T1 = 38.86000
R2 = 49.95000	Z2 = 0.00000	T2 = 38.85000
Z3 = 0.00000	T3 = 38.86000	R3 = 49.97000
Avg. Concentration:		39.72 PPM

Concentration = A + Bx + Cx² + Dx³ + Ex⁴
r = 0.9999638

Constants: A = -0.217003
B = 1.023442 C = 0
D = 0 E = 0

APPROVED BY:

THUAN TRAN

66



Air Liquide America
Specialty Gases LLC



RATA CLASS

Dual-Analyzed Calibration Standard

8832 DICE ROAD, SANTA FE SPRINGS, CA 90670-2516

Phone: 800-323-2212

Fax: 562-464-5262

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory - PGVP Vendor ID: A52012

AIR LIQUIDE AMERICA SPECIALTY GASES LLC
8832 DICE ROAD
SANTA FE SPRINGS, CA 90670-2516

P.O. No.: VEN-6/28/12-RY
Document #: 46816399-001

Customer
AIRX TESTING SERVICES, INC.

RYAN YANAGIHARA
2472 EASTMAN AVE.
UNIT # 34
VENTURA CA 93003
US

ANALYTICAL INFORMATION Gas Type : NONE

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

Cylinder Number: ALM044989 Certification Date: 06Jul2012 Exp. Date: 06Jul2015
Cylinder Pressure***: 2015 PSIG Batch No: SBO0056681

COMPONENT	CERTIFIED CONCENTRATION (Moles)	ACCURACY**	TRACEABILITY
CARBON MONOXIDE	79.9 PPM	+/- 1%	Direct NIST and VSL
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	COMPONENT
NTRM 1879	10Apr2013	KAL004929	98.48 PPM	CARBON MONOXIDE

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
*TR//001785245	14Jun2012	FTIR

ANALYZER READINGS

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

First Triad Analysis

Second Triad Analysis

Calibration Curve

CARBON MONOXIDE

Date: 29Jun2012 Response Unit: PPM
 Z1 = 0.00207 R1 = 98.44597 T1 = 79.85805
 R2 = 98.45640 Z2 = 0.02804 T2 = 79.88738
 Z3 = 0.06614 T3 = 79.89572 R3 = 98.50617
 Avg. Concentration: 79.88 PPM

Date: 06Jul2012 Response Unit: PPM
 Z1 = 0.01962 R1 = 98.39407 T1 = 79.91394
 R2 = 98.46576 Z2 = 0.02217 T2 = 79.96556
 Z3 = 0.04159 T3 = 80.00110 R3 = 98.47984
 Avg. Concentration: 79.98 PPM

Concentration = A + Bx + Cx² + Dx³ + Ex⁴
 r = 9.99999E-1
 Constants: A = 0.00000E+0
 B = 7.01042E-1 C = 3.46000E-4
 D = 0.00000E+0 E = 0.00000E+0

APPROVED BY:

Thuan Tran

67

DRY GAS METER CALIBRATION

Standard Pressure
Standard Temperature
Ambient pressure
Ambient temperature

29.92 in. hg.
60 F
29.86 in. hg.
74 F

Unit Number: G
Date: 9/11/2012

ΔH in. H2O	TIME min.	WET GAS VOL. cf	DRY GAS		Temperature			·Y	†ΔH@ in. H2O
			VOL. in/out cf	W.G. AVG F	D.G. IN F	D.G. OUT F	D.G. AVG. F		
0.75	14.52	6.000	976.031		80.0	74.0	79.0	0.9915	2.4825
			982.128	74.0	86.0	76.0			
0.75	12.12	5.000	982.128		86.0	76.0	81.5	0.9937	2.4792
			987.221	74.0	87.0	77.0			
0.75	12.13	5.000	987.221		87.0	77.0	82.5	0.9921	2.4787
			992.330	74.0	88.0	78.0			
1.50	8.57	5.000	992.430		88.0	78.0	84.0	0.9925	2.4677
			997.543	74.0	91.0	79.0			
1.50	8.55	5.000	997.543		91.0	79.0	85.5	0.9945	2.4495
			1002.660	74.0	92.0	80.0			
1.50	8.55	5.000	2.660		92.0	80.0	86.5	0.9971	2.4450
			7.773	74.0	93.0	81.0			
2.25	8.29	6.000	7.773		84.0	83.0	84.0	0.9960	2.4053
			13.876	74.0	86.0	83.0			
2.25	9.72	7.000	13.876		86.0	83.0	85.5	0.9989	2.4227
			20.995	74.0	90.0	83.0			
2.25	6.95	5.000	20.995		90.0	83.0	87.3	0.9992	2.4200
			26.095	74.0	92.0	84.0			
3.00	6.00	5.000	26.095		92.0	84.0	88.3	0.9955	2.4004
			31.214	74.0	93.0	84.0			
3.00	6.05	5.000	31.214		93.0	84.0	88.8	0.9991	2.4384
			36.319	74.0	93.0	85.0			
3.00	6.02	5.000	36.319		93.0	85.0	88.8	0.9944	2.4143
			41.448	74.0	93.0	85.0			
3.75	6.45	6.000	41.448		93.0	85.0	89.3	0.9992	2.4036
			47.568	74.0	94.0	85.0			
3.75	8.63	8.000	47.568		94.0	85.0	90.0	0.9994	2.4171
			55.737	74.0	95.0	86.0			
3.75	5.38	5.000	55.737		95.0	86.0	90.5	0.9987	2.4026
			60.851	74.0	95.0	86.0			
AVERAGE								0.9961	2.4395

Meter Factor: 0.9961

ΔH@ : 2.4395

Validity checks:

* Y(max - min) ≤ .02 ?
† |ΔH@ - ΔH@ avg. | ≤ .20 in. H2O ?

√
√

Calibration by: KK

Reviewed by: RY

EQUATIONS USED:

$$Y = \frac{VWG \cdot PBAR \cdot (TDGavg + 460)}{(VDG \cdot (PBAR + (\Delta H / 13.6)) \cdot (TWGavg + 460)}$$

$$\Delta H@ = \frac{(0.0319 \cdot \Delta H)}{(PBAR \cdot (TDGavg + 460)) \cdot ((TWG + 460) \cdot T) \cdot VWG^2}$$



AIRx Testing Inc.

CHAIN OF CUSTODY

INVOICE TO: JAME

REPORT TO:

PO#

AIRx Testing Inc.

2472 Eastman Avenue, Unit 34

Ventura, CA 93003

(805) 644-1099 Fax (805) 644-2672

Contact:

ATTN:

LAB # 222-071 PROJECT Name: New Tudyg

Samplers (Signature) 

Rush. 24hr

Normal. 10 Day

ANALYSIS

Sample Date Sample Time Sample Comp Grab

Return or Dispose

Sample Description

Volume (g) (ml) Fuel (ng) (oil)

REMARKS

Volume (g) (ml) Fuel (ng) (oil)

REMARKS

Volume (g) (ml) Fuel (ng) (oil)

REMARKS

Volume (g) (ml) Fuel (ng) (oil)

REMARKS

Volume (g) (ml) Fuel (ng) (oil)

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Volume (g) (ml) Fuel (ng) (oil)


REMARKS

Volume (g) (ml) Fuel (ng) (oil)

REMARKS

Volume (g) (ml) Fuel (ng) (oil)

REMARKS

Relinquished by: 

Date: 3/20/13 Time: 16:05

Received by: D. Foster

Date: 3/21/13 Time: 6:55A

Relinquished by:

Date:

Received by:

Date:

NTB

Attachment to 6.a. 74.15N3-0157

Condition No.	Response
1	Pursuant to Rule 74.15.C.3, the Rule 74.15.B.1 requirement does not apply when the unit operated during breakdowns which were reported under Rule 32. In addition, B.1 does not apply because the unit burned less than 9,000,000,000 Btu/yr.
2	When combined with emissions from the Cogen unit(s), emissions do not exceed 50 tons of NOx per year and 97.66 tons of CO per year (see table below).
3	Pursuant to Rule 74.14.B.2.c, the unit was not tuned during this compliance period because it did not operate during this compliance period.
4	Rule 74.15.D.2 requires tune-up reports to be submitted to the District. No tune-ups were conducted during this period, so no tune-up reports were provided to the District.
5	Records of hours of operation and resulting emissions are presented in the table below.

Month-Year	Monthly		Rolling 12-Months		Emissions								
	Natural Gas (scf)	Uptime (hours)	Natural Gas (scf)	Uptime (hours)	Capacity Factor (%)	Nebraska Emissions NOx (tons)	CO (tons)	Cogen Emissions NOx (tons)	CO (tons)	Total Emissions NOx (tons)	CO (tons)	Rolling 12 Months NOx (tons)	CO (tons)
April-11	0	0	4,172,854	86	0.453%	0	0	3.68	4.07	3.68	4.07	42.12	47.75
May-11	0	0	4,172,854	86	0.453%	0	0	3.77	4.45	3.77	4.45	41.98	47.00
June-11	0	0	4,157,518	85	0.451%	0	0	3.76	4.08	3.76	4.08	41.90	47.13
July-11	0	0	4,157,518	85	0.451%	0	0	3.23	3.83	3.23	3.83	41.34	46.42
August-11	0	0	4,157,518	85	0.451%	0	0	3.75	4.18	3.75	4.18	41.11	45.63
September-11	0	0	4,157,518	85	0.451%	0	0	2.99	3.27	2.99	3.27	40.27	45.51
October-11	0	0	3,568,616	67	0.387%	0	0	3.11	3.34	3.11	3.34	40.19	45.94
November-11	0	0	3,568,616	67	0.387%	0	0	2.86	3.44	2.86	3.44	39.80	45.77
December-11	0	0	3,568,616	67	0.387%	0	0	1.54	1.60	1.54	1.60	38.69	44.17
January-12	0	0	0	0	0.000%	0	0	3.86	4.27	3.86	4.27	38.49	44.38
February-12	0	0	0	0	0.000%	0	0	3.72	4.82	3.72	4.82	39.38	45.59
March-12	0	0	0	0	0.000%	0	0	3.34	4.29	3.34	4.29	39.61	45.64
April-12	0	0	0	0	0.000%	0	0	3.65	7.03	3.65	7.03	39.58	48.60
May-12	3,918	1.9	3,918	2	0.000%	0	0.00114	3.91	9.00	3.92	9.00	39.73	53.15
June-12	0	0	3,918	2	0.000%	0	0	3.82	5.46	3.82	5.46	39.79	54.53
July-12	0	0	3,918	2	0.000%	0	0	4.02	3.99	4.02	3.99	40.58	54.69
August-12	0	0	3,918	2	0.000%	0	0	4.00	4.29	4.00	4.29	40.83	54.80
September-12	0	0	3,918	2	0.000%	0	0	3.97	4.40	3.97	4.40	41.81	55.93
October-12	104,676	2.2	108,594	4	0.012%	0	0.00132	3.92	4.24	3.93	4.24	42.63	56.83
November-12	4,280,571	73	4,389,165	77	0.476%	0.350	0.0438	3.75	3.69	4.10	3.73	43.87	57.13
December-12	786,206	14	5,175,372	91	0.562%	0.067	0.0084	3.90	5.91	3.97	5.92	46.30	61.44
January-13	0	0	5,175,372	91	0.562%	0	0	3.86	5.26	3.86	5.26	46.30	62.43
February-13	0	0	5,175,372	91	0.562%	0	0	2.75	3.69	2.75	3.69	45.33	61.30
March-13	0	0	5,175,372	91	0.562%	0	0	4.02	5.13	4.02	5.13	46.01	62.14
Maximums:	4,280,571	73.00	5,175,372	91.10	0.562%	0	0	4.02	9.00	4.10	9.00	46.30	62.43

Sample Calculation:
 Capacity Factor = Annual Fuel Usage * HHV natural gas / (Equipment rating * Hours/year)
 Capacity Factor = (10 MMBtu/yr) * (1,030 BTU/cf) / ((108 MMBtu/hr) * (8,760 hr/yr))
 Capacity Factor = 1.09%

Tune-up: October 18, 2012

Attachment to 7.b. PO0157PC1

Material Name: Container size (gal): VOC content (lb/gal): HHC content (lb/gal):	CRC14005-Natural Degreaser		Power Back		3M Stainless Steel Polish		Electron LVC Aerosol		Sprayon All-Purpose Silicone Lube		TKX All Purpose Penetrant, Lubricant, Protectant		WD-40 Aerosol		Brakleen Brake Parts Cleaner-aerosol	
	(containers /mo)	(gal/yr)	(containers /mo)	(gal/yr)	(containers /mo)	(gal/yr)	(containers /mo)	(gal/yr)	(containers /mo)	(gal/yr)	(containers /mo)	(gal/yr)	(containers /mo)	(gal/yr)	(containers /mo)	(gal/yr)
Apr-11	0	0	64	1	1	1.41	1.75	3	3.88	3	5.93	3	5.93	0.086	0.109	
May-11	0	0	59	1	1	1.41	1.75	-	3.88	-	5.67	-	5.67	2.6	5.5	
Jun-11	0	0	60	1	1	1.13	1.75	-	4.63	6	5.67	6	5.67	0	0	
Jul-11	0	0	56	1	1	1.13	1.75	-	4.63	4	5.50	4	5.50	0	0	
Aug-11	0	0	53	0	0	1.13	1.75	-	5.13	4	4.98	4	4.98	0	0	
Sep-11	0	0	53	0	0	0.70	1.50	-	5.88	4	4.81	4	4.81	0	0	
Oct-11	0	0	49	0	0	2.11	1.25	10	6.13	6	5.33	12	5.33	0	0	
Nov-11	0	0	44	2	2	1.83	1.00	3	5.38	-	4.81	-	4.81	0	0	
Dec-11	0	0	44	2	2	1.83	1.50	6	6.13	6	4.30	-	4.30	0	0	
Jan-12	0	0	44	2	2	2.25	1.25	3	6.13	6	3.78	-	3.78	0	0	
Feb-12	0	0	38	2	2	2.25	1.00	-	5.38	-	3.27	-	3.27	0	0	
Mar-12	0	0	38	2	2	2.39	0.75	1	5.38	6	2.75	-	2.75	0	0	
Apr-12	0	0	38	2	2	2.39	0.75	-	5.00	-	2.49	-	2.49	0.50	0.05	
May-12	0	0	38	2	2	2.39	1.50	-	5.00	-	2.23	-	2.23	0.50	0.11	
Jun-12	0	0	38	2	2	2.39	1.50	-	4.25	-	1.72	-	1.72	0.50	0.16	
Jul-12	0	0	37	4	4	2.39	2.25	-	4.25	-	2.41	-	2.41	0.50	0.22	
Aug-12	0	0	32	2.00	2.00	2.53	2.25	6.00	3.75	12.00	12.00	12.00	12.00	0.50	0.27	
Sep-12	0	0	33	-	-	2.53	2.25	1.00	3.00	6.00	3.61	6.00	3.61	0.50	0.33	
Oct-12	0	0	33	-	-	1.13	2.25	-	2.25	-	3.09	-	3.09	0.50	0.38	
Nov-12	0	0	33	-	-	0.70	3.00	-	2.25	6.00	3.61	-	3.61	0.50	0.44	
Dec-12	0	0	38	-	-	0.70	2.25	-	1.50	6.00	4.13	-	4.13	0.50	0.49	
Jan-13	0	0	32	-	-	0.56	2.25	2.00	0.75	-	4.47	-	4.47	0.50	0.55	
Feb-13	0	0	37	-	-	0.84	2.25	2.00	1.50	-	4.81	-	4.81	0.50	0.60	
Mar-13	0	0	31	-	-	0.70	2.25	-	1.50	-	5.16	-	5.16	0.50	0.66	
Rolling 12-Month Max.:	0	0	8	2	4	3	3	2	6	6	12	6	12	5	0.5	0.66
VOC Emissions (tons/yr):	0	0.000	0.0027	0.0055	0	0.0010	0.0077	0	0.012	0.0066	0.0018	0	0.0066	0	0	0
HHC Emissions (tons/yr):	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

* lb/gal VOC and HHC contents are calculated on a less water and exempt compounds basis.



MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: Brakleen® Brake Parts Cleaner – Non-chlorinated (aerosol)

Product Number (s): 05088, 75088

Product Use: Brake parts cleaner

Manufacturer / Supplier Contact Information:

In United States:

CRC Industries, Inc.

885 Louis Drive

Warminster, PA 18974

www.crcindustries.com

1-215-674-4300 (General)

(800) 521-3168 (Technical)

(800) 272-4620 (Customer Service)

In Canada:

CRC Canada Co.

2-1246 Lorimar Drive

Mississauga, Ontario L5S 1R2

www.crc-canada.ca

1-905-670-2291

In Mexico:

CRC Industries Mexico

Av. Benito Juárez 4055 G

Colonia Orquidea

San Luis Potosí, SLP CP 78394

www.crc-mexico.com

52-444-824-1666

24-Hr Emergency – CHEMTREC: (800) 424-9300 or (703) 527-3887

Section 2: Hazards Identification

Emergency Overview

DANGER: Extremely Flammable. Harmful or Fatal if Swallowed. May Cause Blindness if Swallowed. Vapor Harmful. Eye and Skin Irritant. Contents Under Pressure.

Appearance & Odor: Clear liquid; solvent odor

Potential Health Effects:

ACUTE EFFECTS:

EYE: Moderate eye irritant. Exposure can cause irritation including stinging, tearing, redness, blurred vision, and swelling of the eyes.

SKIN: Moderate skin irritant. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of the skin, and skin burns. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

INHALATION: Breathing large amounts of this material may be harmful. Symptoms include irritation of the nose and throat and central nervous system excitation (giddiness), followed by CNS depression (dizziness, drowsiness, weakness, headache, nausea, unconsciousness).

INGESTION: Swallowing small amounts is not likely to cause harmful effects. May cause stomach or intestinal upset. Swallowing larger amounts may be harmful as this material may be aspirated into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

CHRONIC EFFECTS: Overexposure to methanol may lead to visual impairment.

TARGET ORGANS: liver, kidneys, blood, central nervous system, eyes

Medical Conditions Aggravated by Exposure: skin sensitivities, lung conditions, central nervous system conditions

See Section 11 for toxicology and carcinogenicity information on product ingredients.

Product Name: Brakleen® Brake Parts Cleaner – Non-Chlorinated (aerosol)

Product Number (s): 05088, 75088

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Methanol	67-56-1	40 – 50
Toluene	108-88-3	15 – 25
Heptane	142-82-5 / 64742-49-0	15 – 25
Acetone	67-64-1	5 – 15
Carbon dioxide	124-38-9	5 – 10

Section 4: First Aid Measures

- Eye Contact:** Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.
- Skin Contact:** Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.
- Inhalation:** Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.
- Ingestion:** Seek medical attention. Do NOT induce vomiting unless instructed by medical personnel. Have victim drink a glass of water if conscious.

Note to Physicians: This material is an aspiration hazard. This material (or a component) has produced hyperglycemia and ketosis following substantial ingestion. Inhalation of high concentrations of this material may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This product contains methanol. The metabolites of methanol can cause metabolic acidosis, visual disturbances and blindness.

Section 5: Fire-Fighting Measures

Flammable Properties: This product is extremely flammable in accordance with aerosol flammability definitions. (See 16 CFR 1500.3(c)(6)).

Flash Point: 0°F / -18°C (TCC)

Autoignition Temperature: 725°F / 385°C

Upper Explosive Limit: ND

Lower Explosive Limit: ND

Fire and Explosion Data:

Suitable Extinguishing Media: Dry chemical, carbon dioxide, alcohol-resistant foam, Class B extinguishers

Products of Combustion: Oxides of carbon

Explosion Hazards: Aerosol containers, when exposed to heat from fire, may build pressure and explode. Vapors may accumulate in a confined space and create a flammable atmosphere.

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

Product Name: Brakleen® Brake Parts Cleaner – Non-Chlorinated (aerosol)
Product Number (s): 05088, 75088

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up: Eliminate all sources of ignition. Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

Section 7: Handling and Storage

Handling Procedures: Do not use near potential sources of ignition. Do not use on energized equipment. Use with adequate ventilation. Avoid contact with skin and eyes. Avoid inhaling vapors. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. For product use instructions, please see the product label.

Storage Procedures: Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120°F / 49°C to prevent cans from rupturing.

Aerosol Storage Level: III

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Methanol	200	NE	200	250 (s)	NE		ppm
Toluene	200	300 (c)	20	NE	NE		ppm
Heptane	500	NE	400	500	NE		ppm
Acetone	1000	NE	500	750	NE		ppm
Carbon dioxide	5000	30000(v)	5000	30000	NE		ppm

N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated

Controls and Protection:

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Air monitoring is needed to determine actual employee exposure levels. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Product Name: Brakleen® Brake Parts Cleaner – Non-Chlorinated (aerosol)

Product Number (s): 05088, 75088

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile, PVA, or neoprene. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: liquid

Color: clear

Odor: solvent

Odor Threshold: ND

Specific Gravity: 0.782

Initial Boiling Point: 132°F / 56°C

Freezing Point: ND

Vapor Pressure: ND

Vapor Density: > 1 (air = 1)

Evaporation Rate: fast

Solubility: slightly soluble in water

Coefficient of water/oil distribution: ND

pH: NA

Volatile Organic Compounds: wt %: 84.0 g/L: 657.2 lbs./gal: 5.5

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Sources of ignition; temperature extremes

Incompatible Materials: Acids, alkalis, reducing agents, strong oxidizing agents, hypochlorites, peroxides, reactive metals such as aluminum and magnesium, sodium, zinc

Hazardous Decomposition Products: Oxides of carbon, various hydrocarbons

Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

Acute Toxicity:

Component	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Methanol	5600 mg/kg	15,800 mg/kg	81,000 mg/m ³ /14H
Toluene	636 mg/kg	14,100 µL/kg	49 g/m ³ /4H
Heptane	No data	No data	103 g/m ³ /4H
Acetone	5800 mg/kg	No data	50,100 mg/m ³ /8H
Carbon dioxide	No data	No data	470,000 ppm/30M

Product Name: Brakleen® Brake Parts Cleaner – Non-Chlorinated (aerosol)
Product Number (s): 05088, 75088

Chronic Toxicity:

<u>Component</u>	<u>OSHA Carcinogen</u>	<u>IARC Carcinogen</u>	<u>NTP Carcinogen</u>	<u>Irritant</u>	<u>Sensitizer</u>
Methanol	No	No	No	E & S (moderate)	Unknown
Toluene	No	No	No	E, S, R (mild)	Unknown
Heptane isomers	No	No	No	E & R (mild) / S (moderate)	Unknown
Acetone	No	No	No	E & S (moderate) / R (mild)	Yes
Carbon dioxide	No	No	No	No	No

E – Eye	S – Skin	R - Respiratory
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Reproductive Toxicity: No information available
Teratogenicity: No information available
Mutagenicity: No information available
Synergistic Effects: No information available

Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: Acetone – 48H LC50 Daphnia: 10 mg/l
Persistence / Degradability: No information available
Bioaccumulation / Accumulation: No information available
Mobility in Environment: No information available

Section 13: Disposal Considerations

Waste Classification: The dispensed liquid product is a RCRA hazardous waste for the characteristic of ignitability with the following potential waste code(s): D001, F005. (See 40 CFR Part 261.20 – 261.33)
Aerosol containers should be fully emptied and depressurized before disposal. Empty aerosol containers may be recycled.

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

Section 14: Transport Information

US DOT (ground): Consumer Commodity, ORM-D
ICAO/IATA (air): Consumer Commodity, ID8000, 9
IMO/IMDG (water): Aerosols, UN1950, 2.1, Limited Quantity
Special Provisions: None

Product Name: Brakleen® Brake Parts Cleaner – Non-Chlorinated (aerosol)

Product Number (s): 05088, 75088

Section 15: Regulatory Information

U.S. Federal Regulations:

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: Acetone (5000 lbs), Toluene (1000 lbs),
Methanol (5000 lbs)

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:	Fire Hazard	Yes
	Reactive Hazard	No
	Release of Pressure	Yes
	Acute Health Hazard	Yes
	Chronic Health Hazard	No

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
Toluene (< 20%), Methanol (< 46%)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): Toluene, Methanol

Occupational Safety and Health Administration:

This product is regulated by the Hazard Communications Standard.

U.S. State Regulations:

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: Toluene

Consumer Products VOC Regulations:

This product does not comply with Consumer Products VOC regulations and cannot be used in California, Connecticut, Delaware, The District of Columbia, Illinois, Indiana, Maine, Maryland, Massachusetts, Michigan, New Jersey, New Hampshire, New York, Ohio, Pennsylvania, Rhode Island, and parts of Virginia.

State Right to Know:

New Jersey:	67-64-1, 108-88-3, 67-56-1, 124-38-9, 142-82-5
Pennsylvania:	67-64-1, 108-88-3, 67-56-1, 124-38-9, 142-82-5
Massachusetts:	67-64-1, 108-88-3, 67-56-1, 124-38-9, 142-82-5
Rhode Island :	67-64-1, 108-88-3, 67-56-1, 124-38-9 142-82-5

Canadian Regulations:

Controlled Products Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Hazard Class: A, B5, D1A, D2A, D2B

Product Name: Brakleen® Brake Parts Cleaner – Non-Chlorinated (aerosol)
Product Number (s): 05088, 75088

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

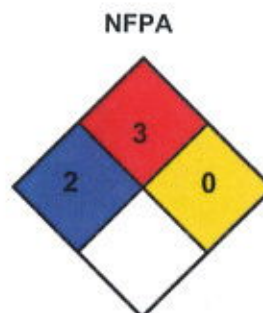
European Union Regulations:

RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

Additional Regulatory Information: None

Section 16: Other Information

HMIS® (II)	
Health:	2
Flammability:	3
Reactivity:	0
PPE:	B



Ratings range from 0 (no hazard) to 4 (severe hazard)

Prepared By: Michelle Rudnick
CRC #: 483A
Revision Date: 10/06/2011

Changes since last revision: formula change

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

- | | |
|--|---|
| ACGIH: American Conference of Governmental Industrial Hygienists | NA: Not Applicable |
| CAS: Chemical Abstract Service | ND: Not Determined |
| CFR: Code of Federal Regulations | NIOSH: National Institute of Occupational Safety & Health |
| DOT: Department of Transportation | NFPA: National Fire Protection Association |
| DSL: Domestic Substance List | NTP: National Toxicology Program |
| g/L: grams per Liter | OSHA: Occupational Safety and Health Administration |
| HMIS: Hazardous Materials Identification System | PMCC: Pensky-Martens Closed Cup |
| IARC: International Agency for Research on Cancer | PPE: Personal Protection Equipment |
| IATA: International Air Transport Association | ppm: Parts per Million |
| ICAO: International Civil Aviation Organization | RoHS: Restriction of Hazardous Substances |
| IMDG: International Maritime Dangerous Goods | STEL: Short Term Exposure Limit |
| IMO: International Maritime Organization | TCC: Tag Closed Cup |
| lbs./gal: pounds per gallon | TWA: Time Weighted Average |
| LC: Lethal Concentration | WHMIS: Workplace Hazardous Materials Information System |
| LD: Lethal Dose | |

Attachment to 7.c. PO00157PC2

GAS USE AND EMISSIONS BY MONTH

DATE	GAS TURBINE			COEN DUCT BURNER			MAXON BURNER				CEMS				
	Monthly (therms)	HHV	Rolling 12-month (MMcf)	Monthly (therms)	Monthly (scf)	Rolling 12-month (MMcf)	Monthly (therms)	Monthly (scf)	Rolling 12-month (MMcf)	NOx (lbs)	Rolling 12-month (MMcf)	Monthly CO (tons)	Monthly NOx (tons)	Rolling 12-Months CO (tons)	Rolling 12-Months NOx (tons)
Apr-11	1,922,511	1,008	190,725,298	28,988	2,876,786	35	333	32,440	15.4	0.001	0.71	4.07	3.68	47.7	41.7
May-11	1,980,516	1,021	193,978,061	1,894	35,544	3,481,293	35	7,242	705,504	13.6	0.033	0.63	4.45	3.77	47.0
Jun-11	1,962,695	1,025	191,482,439	1,901	29,554	2,853,317	37	2,355	229,420	11.0	0.011	0.51	4.08	3.76	47.1
Jul-11	1,659,908	1,024	162,100,391	1,872	41,565	4,059,082	39	2,057	200,390	8.8	0.009	0.41	3.83	3.23	46.4
Aug-11	1,923,686	1,019	188,781,943	1,866	43,504	4,269,284	41	4,756	463,322	7.5	0.021	0.35	4.18	3.75	45.6
Sep-11	1,510,534	1,032	146,369,574	1,824	41,790	4,049,419	44	2,742	267,121	7.0	0.012	0.32	3.27	2.99	45.5
Oct-11	1,557,708	1,030	151,233,786	1,836	45,426	4,410,291	45	3,269	318,461	6.3	0.015	0.29	3.34	3.11	45.9
Nov-11	1,423,597	1,026	138,752,144	1,812	55,616	5,470,663	48	7,392	720,117	6.5	0.033	0.30	3.44	2.86	45.7
Dec-11	706,716	1,017	69,490,265	1,750	36,603	3,599,115	50	12,627	1,230,102	7.1	0.057	0.33	1.60	1.54	44.1
Jan-12	1,756,635	1,014	173,395,464	1,761	75,944	7,489,546	52	13,514	1,316,512	6.6	0.061	0.31	4.27	3.86	44.4
Feb-12	1,850,635	1,023	180,902,737	1,803	99,095	9,696,706	58	4,781	465,757	6.0	0.022	0.26	4.82	3.72	45.6
Mar-12	1,679,570	1,034	162,434,236	1,950	68,612	6,635,590	59	11,819	1,151,388	7.1	0.053	0.33	4.29	3.34	45.6
Apr-12	1,979,071	1,017	176,889,803	1,936	46,597	4,581,809	61	14,337	1,396,888	8.5	0.065	0.39	7.03	3.65	48.8
May-12	2,000,575	1,015	197,100,985	1,939	59,041	5,816,847	63	2,542	247,638	8.0	0.011	0.37	9.00	3.91	53.2
Jun-12	1,973,691	1,025	192,555,220	1,940	29,147	2,843,610	63	18,368	1,789,381	9.6	0.053	0.44	5.46	3.82	54.5
Jul-12	2,080,220	1,031	202,640,155	1,981	22,319	2,164,791	61	8,639	841,598	10.2	0.039	0.47	3.99	4.02	54.7
Aug-12	2,046,680	1,021	200,654,261	1,992	26,782	2,623,115	59	8,566	839,649	10.4	0.030	0.48	4.29	4.00	54.8
Sep-12	1,983,602	1,013	195,814,610	2,042	24,738	2,442,053	58	4,304	467,998	10.6	0.022	0.49	4.40	3.97	55.9
Oct-12	1,993,708	1,036	192,628,792	2,083	26,366	2,547,440	56	5,588	544,374	10.8	0.025	0.50	4.24	3.92	56.8
Nov-12	1,757,585	1,027	171,137,780	2,116	23,749	2,312,463	53	5,553	540,964	10.6	0.025	0.49	3.69	3.75	57.1
Dec-12	1,893,663	1,034	183,139,555	2,229	76,973	7,444,197	57	8,056	784,803	10.2	0.036	0.47	5.91	3.90	61.4
Jan-13	1,934,972	1,032	187,497,287	2,243	53,526	5,186,628	54	419	40,818	8.9	0.002	0.41	5.26	3.86	62.4
Feb-13	1,371,871	1,031	133,062,173	2,196	22,905	2,271,629	47	110	10,716	8.5	0.000	0.39	3.69	2.75	61.3
Mar-13	2,005,639	1,037	193,407,811	2,227	35,600	3,432,980	44	695	67,706	7.4	0.003	0.34	5.13	4.02	62.1
Max. Rolling 12 Months				2,243			63			10.8				62.38	45.86
Permit Limit				2,847			854			36.5				97.66	50.0
Exceeds Permit Limit?				NO			NO			NO				NO	NO
Excess Emissions (Max. Rolling 12 Months)				-604			-791			-25.7				-35.28	-4.14
Excess Emissions (Compliance Year)				-897			-795			-29.4				-52.02	-10.39

*CEMS data columns calculate monthly emissions by summing the pounds per hour emissions for every hour during the month that the turbine was operating, including start-ups, shut-downs, and upsets. The CEMS uses the following methodology to estimate emissions as presented in this condition of the permit.

lb/hr = X * (hourly ppmv @ 15% O2) * (hourly fuel throughput)

ton/yr = Sum of hourly emissions for each month and evaluate annual limits based on rolling 12-month average, 2000 lb/ton.

where

$X = (8.740 \text{ dscf/MMBtu}) * (\text{NOx or CO}) / (\text{lb-lb-mole}) * (20.9 / (20.9 - 15)) * (\text{lb-mole}/387 \text{ scf}) * 1E-6 * \text{HHV}$

(average HHV of fuel analyses over compliance year)

HHV = 1,027 btu/cf
NOx = 46 lb/lb-mole
CO = 28 lb/lb-mole

Stack Opacity Observation Protocol

Object:	Cogen Stack
Date of Observation:	02/28/13
Time of Observation:	1:00 PM
Fuel burned:	Natural Gas
Name of the observing person:	R. Lebrilla
Signature	<i>RL</i>
Was Visible Emission Other Than Steam Present ?	NO
Object:	Nebraska Boiler
Date of Observation:	n/a
Time of Observation:	n/a
Fuel burned:	n/a
Name of the observing person:	n/a
Signature	n/a
Was Visible Emission Other Than Steam Present ?	n/a

Object:	Paper Forming/Paper Drying
Date of Observation:	02/28/13
Time of Observation:	1:00 PM
Fuel burned:	N/A
Name of the observing person:	R. Lebrilla
Signature	<i>RL</i>
Was Visible Emission Other Than Steam Present ?	NO

Object:	Maxon Burner
Date of Observation:	02/28/13
Time of Observation:	1:00 PM
Fuel burned:	Natural Gas
Name of the observing person:	R. Lebrilla
Signature	<i>RL</i>
Was Visible Emission Other Than Steam Present ?	NO

Stack Opacity Observation Protocol


Object:	Cogen Stack
Date of Observation:	11/05/12
Time of Observation:	10:40 AM
Fuel burned:	Natural Gas
Name of the observing person:	R. Lebrilla
Signature	<i>R. Lebrilla</i>
Was Visible Emission Other Than Steam Present ?	NO

Object:	Nebraska Boiler
Date of Observation:	n/a
Time of Observation:	n/a
Fuel burned:	n/a
Name of the observing person:	n/a
Signature	n/a
Was Visible Emission Other Than Steam Present ?	n/a

Object:	Paper Forming
Date of Observation:	11/05/12
Time of Observation:	10:40 AM
Fuel burned:	N/A
Name of the observing person:	R. Lebrilla
Signature	<i>R. Lebrilla</i>
Was Visible Emission Other Than Steam Present ?	NO

Object:	Paper Drying: Maxon Burner
Date of Observation:	11/05/12
Time of Observation:	10:40 AM
Fuel burned:	N/A
Name of the observing person:	R. Lebrilla
Signature	<i>R. Lebrilla</i>
Was Visible Emission Other Than Steam Present ?	NO

Stack Opacity Observation Protocol

Object:	Cogen Stack
Date of Observation:	08/14/12
Time of Observation:	9:30 AM
Fuel burned:	Natural Gas
Name of the observing person:	R. Lebrilla
Signature	
Was Visible Emission Other Than Steam Present ?	NO
Object:	Nebraska Boiler
Date of Observation:	n/a
Time of Observation:	n/a
Fuel burned:	n/a
Name of the observing person:	n/a
Signature	n/a
Was Visible Emission Other Than Steam Present ?	n/a

Object:	Paper Forming
Date of Observation:	08/14/12
Time of Observation:	9:30 AM
Fuel burned:	N/A
Name of the observing person:	R. Lebrilla
Signature	
Was Visible Emission Other Than Steam Present ?	No

Object:	Paper Drying; Maxon Burner
Date of Observation:	08/14/12
Time of Observation:	9:30 AM
Fuel burned:	N/A
Name of the observing person:	R. Lebrilla
Signature	
Was Visible Emission Other Than Steam Present ?	NO

Stack Opacity Observation Protocol

Object:	Cogen Stack
Date of Observation:	05/15/12
Time of Observation:	8:00 AM
Fuel burned:	Natural Gas
Name of the observing person:	R. Lebrilla
Signature	<i>[Signature]</i>
Was Visible Emission Other Than Steam Present ?	<i>NO</i>
Object:	Nebraska Boiler
Date of Observation:	n/a
Time of Observation:	n/a
Fuel burned:	n/a
Name of the observing person:	n/a
Signature	n/a
Was Visible Emission Other Than Steam Present ?	n/a

Object:	Paper Forming
Date of Observation:	05/15/12
Time of Observation:	8:00 AM
Fuel burned:	N/A
Name of the observing person:	R. Lebrilla
Signature	<i>[Signature]</i>
Was Visible Emission Other Than Steam Present ?	<i>NO</i>

Object:	Paper Drying; Maxon Burner
Date of Observation:	05/15/12
Time of Observation:	8:00 AM
Fuel burned:	N/A
Name of the observing person:	R. Lebrilla
Signature	<i>[Signature]</i>
Was Visible Emission Other Than Steam Present ?	<i>NO</i>

VENTURA COUNTY
AIR POLLUTION CONTROL DISTRICT
Memorandum

TO: Karl Krause
FROM: Terri Thomas
SUBJECT: Rule 54.B.2 Compliance

DATE: May 23, 1996

Per your request, I ran some screening level dispersion modeling tests to determine equipment parameters that would comply with Rule 54.B.2. Rule 54.B.2 limits ground level property line SO₂ concentrations to 0.25 ppm_v for 1 hour and 0.04 ppm_v for 24 hours.

I assume that the most common SO₂ emission source is diesel combustion in IC engines. Therefore, that was the focus of my analysis.

To determine appropriate stack parameters, I reviewed 4 source test reports for diesel ICEs prepared for AB 2588. For screening purposes, the most conservative value was chosen from the test data for each stack parameter. The following summarizes stack data from these reports:

Parameter	# tests reporting parameter value	range of values	screening value
Stack velocity	3	1,812-11,343 ft/min	1,812 ft/min 9.2 m/s
Stack diameter	3	2-6 inches	2 inches 0.05 meters
Stack temperature	4	192-785°F	192°F 362 K
Stack height	0	NA	2 meters

SO₂ emissions were based on 300 ppm_v in the stack, which is the limit in Rule 54.B.1.a. This limit cannot be exceeded if the diesel fuel meets the 0.5% sulfur limit in Rule 64.B.2.

Other assumptions used in modeling were that the stack was vertical and has no raincap, and the property line was at least 100 meters from the stack.

Using the parameters and assumptions listed above, screening modeling showed that the limits in Rule 54.B.2 would not be exceeded.

Use of the minimum stack diameter, and thus, the minimum flow rate and emission rate is not the most conservative case. In order to determine the maximum emission rate that could be shown to meet the Rule under the conditions described above, modeling was performed by increasing the emissions and flow rate (to maintain the 300 ppm_v SO₂ stack concentration), but increasing the stack diameter to maintain the minimum velocity. Modeling results are summarized below.

Emission rate (g/s)	Emission rate (lb/hr) and (lb/day)	1 hour max concentration (ppm _v) (limit=0.25)	24 hour max concentration (ppm _v) (limit=0.04)
0.0145	0.12 2.76	0.04	0.01
0.029	0.23 5.52	0.06	0.03
0.058	0.46 11.04	0.11	0.04
0.116	0.92 22.08	0.17	0.07
0.232	1.84 44.15	0.23	0.05

From the above, if SO₂ emissions do not exceed 1.84 lb/hr, the 1-hour limit of Rule 54.B.2 will be met. This is equivalent to burning 26 gallons of diesel at 0.5% sulfur per hour.

If SO₂ emissions do not exceed 11.04 lb/day, the 24-hour limit of Rule 54.B.2 will be met. This is equivalent to burning 155 gallons of diesel at 0.5% sulfur per day.

If the sulfur content of the fuel is lower than 0.5%, the allowable amount of fuel would, of course, be greater.

Let me know if the above information meets your needs. If so, another scenario that is probably common is a nonvertical stack (or stack with raincap). I can develop similar information for this case if you want.

**VENTURA COUNTY
AIR POLLUTION CONTROL DISTRICT**
Memorandum

TO: Interested Parties DATE: December 3, 1997

FROM: John Harader

SUBJECT: Rule 57.B / AP-42 Emission Factor Comparison

Section B of District Rule 57, "Combustion Contaminants - Specific", limits the combustion contaminant emission concentration from any fuel burning equipment. Combustion contaminants are defined in District Rule 2 as particulate matter discharged into the atmosphere from the burning of any kind of material containing carbon in a free or combined state. The emission concentration limit is 0.1 grain per cubic foot of gas calculated to 12 percent of carbon dioxide at standard conditions (0.1 gr/scf @ 12% CO₂). This limit can be converted to a lb/MMBTU emission factor by the following equation from 40 CFR Part 60, Appendix A, Method 19:

$$E = C F_c (100/\%CO_2)(lb/7000gr)$$

E = lb/MMBTU emission factor
 C = Pollutant concentration (lb/DSCF)
 F_c = CO₂ F-factor
 = 1430 dscf CO₂/MMBTU for liquid fuels
 = 1040 dscf CO₂/MMBTU for natural gas

The pollutant concentration, C, and the %CO₂ values can be wet or dry as long as they are consistent. The %CO₂ of 12 may be used in the equation if the pollutant concentration has been corrected to 12% CO₂:

$$C_{@12\%CO_2} = C(12/\%CO_2)$$

The Rule 57.B emission limit is a limit at 12% CO₂; therefore the emission rate equation can be written:

$$E = (0.1 \text{ gr/scf}) F_c (100/12)(lb/7000gr)$$

For Natural Gas: $E = 0.12 \text{ lb PM/MMBTU}$
 For Liquid Fuels: $E = 0.17 \text{ lb PM/MMBTU}$

Based on EPA AP-42 emission factors and source test data, all natural gas fired or fuel oil fired boilers, process heaters, and turbines; and natural gas fired or diesel fired engines

operate below this emission factor or emission limit. The particulate matter emission factors for these units are:

Natural Gas Fired Units	Rule 57.B Factor = 0.12 lb PM / MMBTU	
Boiler > 100 MMBTU/Hr	3 lb/mmcf	0.00286 lb / MMBTU
Boiler 10 - 100 MMBTU/Hr	13.7 lb/mmcf	0.0131 lb / MMBTU
Boiler < 10 MMBTU/Hr	12 lb/mmcf	0.0114 lb / MMBTU
Turbine		0.0419 lb / MMBTU
Lean Burn Engine		0.046 lb / MMBTU
Rich Burn Engine		0.0007 lb / MMBTU

Fuel Oil or Diesel Fired Units	Rule 57.B Factor = 0.17 lb PM / MMBTU	
Fuel Oil Fired Boiler	2 lb / Mgal	0.014 lb / MMBTU
Fuel Oil Fired Turbine		0.061 lb / MMBTU
Diesel Engine > 600 HP		0.062 lb / MMBTU

Compliance with the emission limit for diesel engines < 600 HP has been shown through the conducting of a source test on an engine within Ventura County. This source test was conducted for the purpose of generating an emission factor to be used for Air Toxic "Hot Spots" emission estimations. The measured particulate concentration for this engine was 0.1 gr/dscf at 12 percent CO₂. The engine source test was a Cummins NTA engine rated at 335 horsepower at 2100 rpm. The source test was conducted July 29, 1992.

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