

NEW INDY

CONTAINERBOARD

May 11, 2016

Mr. Dan Searcy
Compliance Manager
Ventura County APCD
669 County Square Drive
Ventura, CA 93003

Ventura County

MAY 13 2016

Air Po

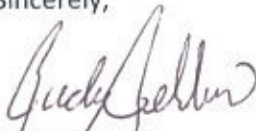
Re: New-Indy Oxnard, LLC
2015-2016 Annual Title V Certification Package (PTO 0157)

Dear Mr. Searcy:

Enclosed, please find a binder containing the 2015-2016 Title V Certification Forms and related documentation for the New-Indy Oxnard facility. The supporting documentation is included after the last APCD form.

If you have any questions, please feel free to contact Robyn Lebrilla at 805.271.7284.

Sincerely,



Rudy Rehbein
Mill Manager

CC: Gerardo Rios
Chief Permit Office (AIR-3)
Office of Air Division, EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

enc: 2015-2016 Annual Title V Compliance Certification Binder

NEW INDY OXNARD, LLC

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



SESPE
CONSULTING, INC.

374 Poli Street, Suite 200 • Ventura, California 93001

Ventura County

MAY 13 2016

Air Pollution Control District

2015 – 2016 TITLE V COMPLIANCE CERTIFICATION

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

VCAPCD PERMIT TO OPERATE 0157

May 14, 2016

Prepared for: New-Indy Oxnard, LLC
P.O. Box 519
Pt. Hueneme, California 93044

Prepared by: Sespe Consulting, Inc.
374 Poli Street, Suite 200
Ventura, California 93001
(805) 275-1515

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- Section 2 Deviation Summary Forms
- Section 3 Source Test Summary Forms
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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
6.e. 74.9N7	Stationary Internal Combustion Engines – Exemption for Emergency Engines
6.f. 40CFR63ZZZN9	Reciprocating Internal Combustion Engines – Existing Spark Ignition Engines
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 Emission Limits
7.h. PO0157PC2	Nebraska Boiler NOx and Oxygen Continuous Monitoring Requirements
7.i. PO0157PC2	Nebraska Boiler Fuel Oil Limitations
7.j. PO0157PC2	Recordkeeping Requirements for the Nebraska Boiler Fuel Oil Limitations
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
8.c. Rule 54.B.2	Sulfur Compounds – SOx at or Beyond Property Line
8.d. Rule 55	Fugitive Dust
8.e. Rule 57.1	Particulate Matter Emissions From Fuel Burning Equipment

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8.h. Rule 74.6	Surface Cleaning and Degreasing
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-60JJJJ	Permit Shield – 40 CFR Part 60, Subpart JJJJ
11c.3. SHIELD-60KKKK	Permit Shield – 40 CFR Part 60, Subpart KKKK
11c.4. SHIELD-63YYYY	Permit Shield – 40 CFR Part 63, Subparts YYYY
11c.5. SHIELD-63JJJJJ	Permit Shield – 40 CFR 63, Subpart JJJJJ
11.c.6. 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, hours of operation, and tune-up document.
6.e. 74.9N7	Emergency engine records.
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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Annual Title V Compliance Certification
New-Indy Oxnard, LLC
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Section 1 Signature Cover Form



Ventura County
Air Pollution
Control District

**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.

<p>Signature and Title of Responsible Official:</p> <p>Title: <i>Gudy Gerdner</i> <i>Mill Manager</i></p>	<p>Date:</p> <p><i>5/11/2016</i></p>
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<p>Time Period Covered by Compliance Certification</p> <p><u>04</u> / <u>01</u> / <u>15</u> (MM/DD/YY) to <u>03</u> / <u>31</u> / <u>16</u> (MM/DD/YY)</p>
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2015 - 2016
Annual Title V Compliance Certification
New-Indy Oxnard, LLC
May 14, 2016

Section 2 Deviation Summary Forms

Deviation Summary Table

Date	Breakdown/Event	Comment
May 19, 2015	Simultaneous operation	Nebraska boiler operated during planned cogen maintenance including shutdown and startup periods.
<i>NOTIFICATION</i> July 18, 2015 <i>BREAKDOWN</i> <i># 100863</i>	Power outage	Cogen shutdown due to power outage that affected the SCE power grid causing CEMS network connectivity failure and loss of data before it could be written to the Pi Server.
<i>NOT A</i> July 31, 2015 <i>BREAKDOWN</i> <i># 100893</i>	Intermittent loss of NH ₃ flow elevated NO _x concentration in exhaust gases.	Moisture at NH ₃ control valve shorted out circuit causing intermitted flow.
September 1, 2015 <i>NOT A</i> <i>BREAKDOWN</i> <i># 100973</i>	Insufficient pressure condition caused shutdown of steam injection system.	Condition caused by increased steam demand due to paper grade change. NH ₃ flow was increased and steam flow was re-established. Facility will investigate conditions that contributed to steam loss and make recommended changes.



ANNUAL COMPLIANCE CERTIFICATION DEVIATION SUMMARY FORM

Period Covered by Compliance Certification: 04 / 01 / 15 (MM/DD/YY) to 03 / 31 / 16 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: 7.f. PO00157PC2</p>	<p>B. Equipment description: Combustion units: Turbine, Nebraska Boiler, Coen Duct Burner, and Maxon Duct Burner.</p>	<p>C. Deviation Period: Date & Time Begin: <u>5/19/15, 5:15 AM</u> End: <u>5/19/15, 1:30 PM</u> When Discovered: Date & Time <u>5/19/15, 5:00 AM</u></p>
<p>D. Parameters monitored: Simultaneous operation</p>	<p>E. Limit: 3 hours during cogen start up or shutdown.</p>	<p>F. Actual: 1.95 hours (shutdown) 0.50 hours (start up)</p>
<p>G. Probable Cause of Deviation: Cogen shutdown for planned maintenance of turbine fuel nozzles and combustor.</p>		<p>H. Corrective actions taken: None.</p> <p style="text-align: right; font-style: italic; font-size: 1.2em;"><u>NOTIFICATION</u></p>

<p>A. Attachment # or Permit Condition #: 6.c. STRMLN157- NOx, CO, NH3</p>	<p>B. Equipment description: Cogeneration Unit</p>	<p>C. Deviation Period: Date & Time Begin: <u>7/18/15, 7:09 PM</u> End: <u>7/20/15, 9:13 AM</u> When Discovered: Date & Time <u>7/18/15, 9:00 PM</u></p>
<p>D. Parameters monitored: Intermittence</p>	<p>E. Limit: 96 hours to fix CEMS breakdown (Rule 32).</p>	<p>F. Actual: 38.1 hours</p>
<p>G. Probable Cause of Deviation: Power outage due to lighting strike on SCE grid causing CEMS network connectivity to fail.</p>		<p>H. Corrective actions taken: Rebooted Pi server and process interfaces.</p>

BARK-
DOWN
#100863

<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>7/31/15, 5:15 AM</u> End: <u>7/31/15, 3:00 PM</u> When Discovered: Date & Time <u>7/31/15, 9:00 AM</u></p>
<p>D. Parameters monitored: Intermittence, NOx, and NH3</p>	<p>E. Limit: Continuous operation of SCR and NOx < 12 ppm (3hr avg.)</p>	<p>F. Actual: 3.0 hours (NH3 flow) 2.0 hours (NOx > 12 ppm)</p>
<p>G. Probable Cause of Deviation: Moisture at NH3 control valve shorted out circuit causing intermittent flow.</p>		<p>H. Corrective actions taken: Dried and cleaned electrical connections on valve and new conduit scheduled to be installed during next planned maintenance shutdown.</p>

#1
100893
NO
BARKDOWN



ANNUAL COMPLIANCE CERTIFICATION DEVIATION SUMMARY FORM

Period Covered by Compliance Certification: 04 / 01 / 15 (MM/DD/YY) to 03 / 31 / 16 (MM/DD/YY)

A. Attachment # or Permit Condition #: 6.c. STRMLN157- NOx, CO, NH3	B. Equipment description: Cogeneration Unit	C. Deviation Period: Date & Time Begin: <u>9/1/15, 8:25 PM</u> End: <u>9/1/15, 9:00 PM</u> When Discovered: Date & Time <u>9/1/15, 8:30 PM</u>
D. Parameters monitored: Intermittence.	E. Limit: Continuous.	F. Actual: 1 hour
G. Probable Cause of Deviation: Increased steam demand due to paper grade change caused insufficient pressure condition		H. Corrective actions taken: Increased NH3 flow and re-established steam flow. Investigate grade changes and steam flow demand that contributed to steam loss and make recommended changes.
A. Attachment # or Permit Condition #: 	B. Equipment description: 	C. Deviation Period: Date & Time Begin: _____ End: _____ When Discovered: Date & Time _____
D. Parameters monitored: 	E. Limit: 	F. Actual:
G. Probable Cause of Deviation: 		H. Corrective actions taken:
A. Attachment # or Permit Condition #: 	B. Equipment description: 	C. Deviation Period: Date & Time Begin: _____ End: _____ When Discovered: Date & Time _____
D. Parameters monitored: 	E. Limit: 	F. Actual:
G. Probable Cause of Deviation: 		H. Corrective actions taken:

100973
NO
BRKODW

2015 - 2016
Annual Title V Compliance Certification
New-Indy Oxnard, LLC
May 14, 2016

Section 3 Source Test Summary Forms



Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION SOURCE TEST SUMMARY FORM

Period Covered by Compliance Certification: 04 / 01 / 15 (MM/DD/YY) to 03 / 31 / 16 (MM/DD/YY)

A. Emission Unit Description: Gas turbine based cogeneration unit			B. Pollutant: NOx
C. Measured Emission Rate: 9.6 ppm @ 15% O2	D. Limited Emission Rate: 12 ppm @ 15% O2	E. Specific Source Test or Monitoring Record Citation: AirX Source Test	F. Test Date: 3/16/2016

A. Emission Unit Description: Gas turbine based cogeneration unit			B. Pollutant: CO
C. Measured Emission Rate: 14.79 lb/hr	D. Limited Emission Rate: 59.65 lbs/hr	E. Specific Source Test or Monitoring Record Citation: AirX Source Test	F. Test Date: 3/16/2016

A. Emission Unit Description: Gas turbine based cogeneration unit			B. Pollutant: NOx
C. Measured Emission Rate: 45.11 tons/yr by CEMS.	D. Limited Emission Rate: 50 tons/yr	E. Specific Source Test or Monitoring Record Citation: AirX RATA Test to confirm CEMS data.	F. Test Date: 3/16/2016

A. Emission Unit Description: Gas turbine based cogeneration unit			B. Pollutant: CO
C. Measured Emission Rate: 63.49 tons/yr by CEMS.	D. Limited Emission Rate: 97.66 tons/yr	E. Specific Source Test or Monitoring Record Citation: AirX RATA Test to confirm CEMS data.	F. Test Date: 3/16/2016

A. Emission Unit Description: Gas turbine based cogeneration unit			B. Pollutant: NH3
C. Measured Emission Rate: 1.1 @ 15% O2	D. Limited Emission Rate: 20 @ 15% O2	E. Specific Source Test or Monitoring Record Citation: AirX Source Test	F. Test Date: 3/16/2016



Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION SOURCE TEST SUMMARY FORM

Period Covered by Compliance Certification: 04 / 01 / 15 (MM/DD/YY) to 03 / 31 / 16 (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:

2015 - 2016
Annual Title V Compliance Certification
New-Indy Oxnard, LLC
May 14, 2016

Section 4 Permit Attachment Forms



ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 04 / 01 / 15 (MM/DD/YY) to 03 / 31 / 16 (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 Boiler operated on 5 days in 2015-2016 compliance year. No tune-up was performed because unit operated less than 10 days/yr.</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>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 1.122% and unit remains exempt from 103.A.2.</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>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></p> <p>G. Compliance Status? (C or I): <u>C</u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>Y</u> *If yes, attach Deviation Summary Form</p>

*4 NOT A BREAKDOWN TO 100893
7/31/16
NO EMISSION EXCEEDANCE*

2015 - 2016
Annual Title V Compliance Certification
New-Indy Oxnard, LLC
May 14, 2016

Section 4 Permit Attachment Forms



Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 04 / 01 / 15 (MM/DD/YY) to 03 / 31 / 16 (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 Boiler operated on 5 days in 2015-2016 compliance year. No tune-up was performed because unit operated less than 10 days/yr.</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>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 1.122% and unit remains 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> <small>*If yes, attach Deviation Summary Form</small></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>C</u> 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

Period Covered by Compliance Certification: 04 / 01 / 15 (MM/DD/YY) to 03 / 31 / 16 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: <u>6.d. STRMLN157-SOx</u></p> <p>B. Description: <u>Gas Turbine Based Cogeneration Unit; SOx Applicable Requirements - Streamlined</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>D. Frequency of monitoring: <u>Continuous</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>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>6.e. 74.9N7</u></p> <p>B. Description: <u>Stationary Internal Combustion Engines - Exemption for Emergency Engines</u></p> <p>C. Method of monitoring: <u>Non-resettable hour meter. Log operating hours and reasons for operation.</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p> <p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</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>6.f. 40CFR63ZZZZN9</u></p> <p>B. Description: <u>Reciprocating Internal Combustion Engine - Existing Emergency Spark Ignited Engines</u></p> <p>C. Method of monitoring: <u>Non-resettable hour meter. Log maintenance activities including oil change and spark plug/belt/hose inspection/changes.</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p> <p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</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 / 15 (MM/DD/YY) to 03 / 31 / 16 (MM/DD/YY)

<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 usage. Maintain Safety Data Sheets showing VOC and HHC content of solvents used.</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.</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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<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 for 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>



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<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> *If yes, attach Deviation Summary Form</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> *If yes, attach Deviation Summary Form</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> *If yes, attach Deviation Summary Form</p>



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<p>A. Attachment # or Permit Condition #: <u>7.j. PO00157PC2</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <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: <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>

<p>A. Attachment # or Permit Condition #: <u>7.k. PO00157PC2</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <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: <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> 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.a. Rule 50</u></p>	<p>D. Frequency of monitoring: <u>Quarterly</u></p>
<p>B. Description: <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: <u>Stack opacity routinely observed. Observations on 5/15/15, 8/07/15, 11/25/15, and 2/26/16 are formally documented.</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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<p>A. Attachment # or Permit Condition #: 8.b. Rule 54.B.1</p>	<p>D. Frequency of monitoring: Continuous</p>
<p>B. Description: Sulfur Compounds - SOx at Point of Discharge</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable n/a</p>
<p>C. Method of monitoring: Follow Rule 64 monitoring requirements. Compliance with Rule 64 ensures compliance with this rule based on District analysis.</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 #: 8.c. Rule 54.B.2</p>	<p>D. Frequency of monitoring: Continuous</p>
<p>B. Description: Sulfur Compounds - SOx at or Beyond Property Line</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable n/a</p>
<p>C. Method of monitoring: Compliance by use of PUC quality natural gas as discussed in District memo (5/23/96)</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 #: 8.d. Rule 55</p>	<p>D. Frequency of monitoring: Continuous</p>
<p>B. Description: Fugitive Dust</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable EPA Methods 9 and 22</p>
<p>C. Method of monitoring: There are no operations, disturbed surface areas or man-made conditions at this stationary source that are subject to Rule</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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<p>A. Attachment # or Permit Condition #: 8.e. Rule 57.1</p>	<p>D. Frequency of monitoring: Continuous</p>
<p>B. Description: Particulate Matter Emissions from Fuel Burning Equipment</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable n/a</p>
<p>C. Method of monitoring: Compliance assured based on District analysis (12/3/97).</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 #: 8.f. Rule 64.B.1</p>	<p>D. Frequency of monitoring: Continuous</p>
<p>B. Description: Sulfur Content of Fuels - Gaseous Fuel Requirements</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable SCAQMD Method 307-94 or ASTM Method D1072-90</p>
<p>C. Method of monitoring: 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> 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 #: 8.g. Rule 64.B.2</p>	<p>D. Frequency of monitoring: Continuous</p>
<p>B. Description: Sulfur Content of Fuels - Liquid Fuel Requirements</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable ASTM Method D4294-83 or D2622-87</p>
<p>C. Method of monitoring: 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> 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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<p>A. Attachment # or Permit Condition #: <u>g.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>g.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>g.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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<p>A. Attachment # or Permit Condition #: <u>9.a. Rule 74.1</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Abrasive Blasting</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>Routine surveillance and visual inspections Abrasive blasting records including date, type of media used (ARB certification, if any), and item/location blasted are on file.</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>9.b. Rule 74.2</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Architectural Coatings</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>Routine surveillance and visual inspections Wyman Painting (VCAPCD PTO 08244) performs architectural coating activities at the facility.</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>9.c. 40CFR61.M</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Asbestos NESHAPS</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 inspection, recordkeeping, and notification procedures from 40CFR61.145.</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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<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> *If yes, attach Deviation Summary Form</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> *If yes, attach Deviation Summary Form</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> *If yes, attach Deviation Summary Form</p>



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<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-60JJJJ</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Permit Shield for 40CFR60 Subpart JJJJ</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 this requirement. 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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<p>A. Attachment # or Permit Condition #: 11.c.3. SHIELD-60KKKK</p>	<p>D. Frequency of monitoring: Continuous</p>
<p>B. Description: 40CFR60 Subpart KKKK, Standards of Performance for Stationary Combustion Turbines</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable n/a</p>
<p>C. Method of monitoring: Facility did not modify or install equipment that would trigger these requirements. Therefore, this permit shield remains in effect.</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 #: 11.c.4 SHIELD-63YYYY</p>	<p>D. Frequency of monitoring: Continuous</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 n/a</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></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 #: 11.c.5 SHIELD-63JJJJJJ</p>	<p>D. Frequency of monitoring: Continuous</p>
<p>B. Description: Permit Shield for 40CFR Part 63, Subpart JJJJJJ</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable n/a</p>
<p>C. Method of monitoring: The boiler is a gas-fired boiler and exempt from this regulation.</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 / 15 (MM/DD/YY) to 03 / 31 / 16 (MM/DD/YY)

<p>A. Attachment # or Permit Condition # <u>11.c.6 SHIELD-40CFR72-78</u></p> <p>B. Description: <u>Permit Shield for 40CFR Parts 72 through 78</u></p> <p>C. Method of monitoring: <u>The facility supplied less than 219,000 MW-hr/yr to any utility power distribution system. Therefore, this permit shield remains in effect.</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p> <p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</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 #:</p> <p>B. Description:</p> <p>C. Method of monitoring:</p>	<p>D. Frequency of monitoring:</p> <p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p> <p>F. Currently in Compliance? (Y or N): _____</p> <p>G. Compliance Status? (C or I): _____</p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): _____ *If yes, attach Deviation Summary Form</p>
<p>A. Attachment # or Permit Condition #:</p> <p>B. Description:</p> <p>C. Method of monitoring:</p>	<p>D. Frequency of monitoring:</p> <p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable <u>n/a</u></p> <p>F. Currently in Compliance? (Y or N): _____</p> <p>G. Compliance Status? (C or I): _____</p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): _____ *If yes, attach Deviation Summary Form</p>

2015 - 2016
Annual Title V Compliance Certification
New-Indy Oxnard, LLC
May 14, 2016

Section 5 Supporting Records



ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 04 / 01 / 15 (MM/DD/YY) to 03 / 31 / 16 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: <u>11.c.6 SHIELD-40CFR72-78</u></p>	<p>D. Frequency of monitoring: <u>Continuous</u></p>
<p>B. Description: <u>Permit Shield for 40CFR Parts 72 through 78</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 supplied less than 219,000 MW-hr/yr to any utility power distribution system. 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>Rule 68</u></p>	<p>D. Frequency of monitoring: <u>n/a</u></p>
<p>B. Description: <u>Compliance with carbon monoxide - not required based on District EPA emission factor analysis.</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>Not required based on District EPA emission factor 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> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #:</p>	<p>D. Frequency of monitoring:</p>
<p>B. Description:</p>	<p>E. Source test reference method, if applicable Attach Source Test Summary Form, if applicable</p>
<p>C. Method of monitoring:</p>	<p>F. Currently in Compliance? (Y or N): _____ G. Compliance Status? (C or I): _____ H. *Excursions, exceedances, or other non-compliance? (Y or N): _____ *If yes, attach Deviation Summary Form</p>

NEW INDY

CONTAINERBOARD

May 21, 2015

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

Subject: Nebraska start-up notification

Dear Mr. Olson:

This letter is a follow up on the notification call made to the VCAPCD Breakdown Center Hotline on May 19, 2015 at about 5:00 AM by Jim Grimme.

On May 19, 2015, the Nebraska boiler was fired from 5:15 AM to 1:30 PM for a scheduled turbine maintenance. The turbine's fuel nozzles were inspected and exchanged. The combustor was inspected as well. The cogen was offline from 7:12 AM to 1:00 PM, a total of 5.8 hours. The Nebraska was online for 8.25 hours without excess emissions.

The Daily Emission Sheet, PI and DCS trends and cogen logs 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

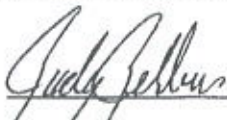
Ventura County APCD Rule 33.9 requires that "any document, including reports, schedule of compliance progress reports and compliance certifications, required by a Part 70 permit shall be certified by a responsible official." Therefore, this form shall be signed by the company's Responsible Official and 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>5/21/2015</u></p>
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DAILY ENVIRONMENTAL REPORT

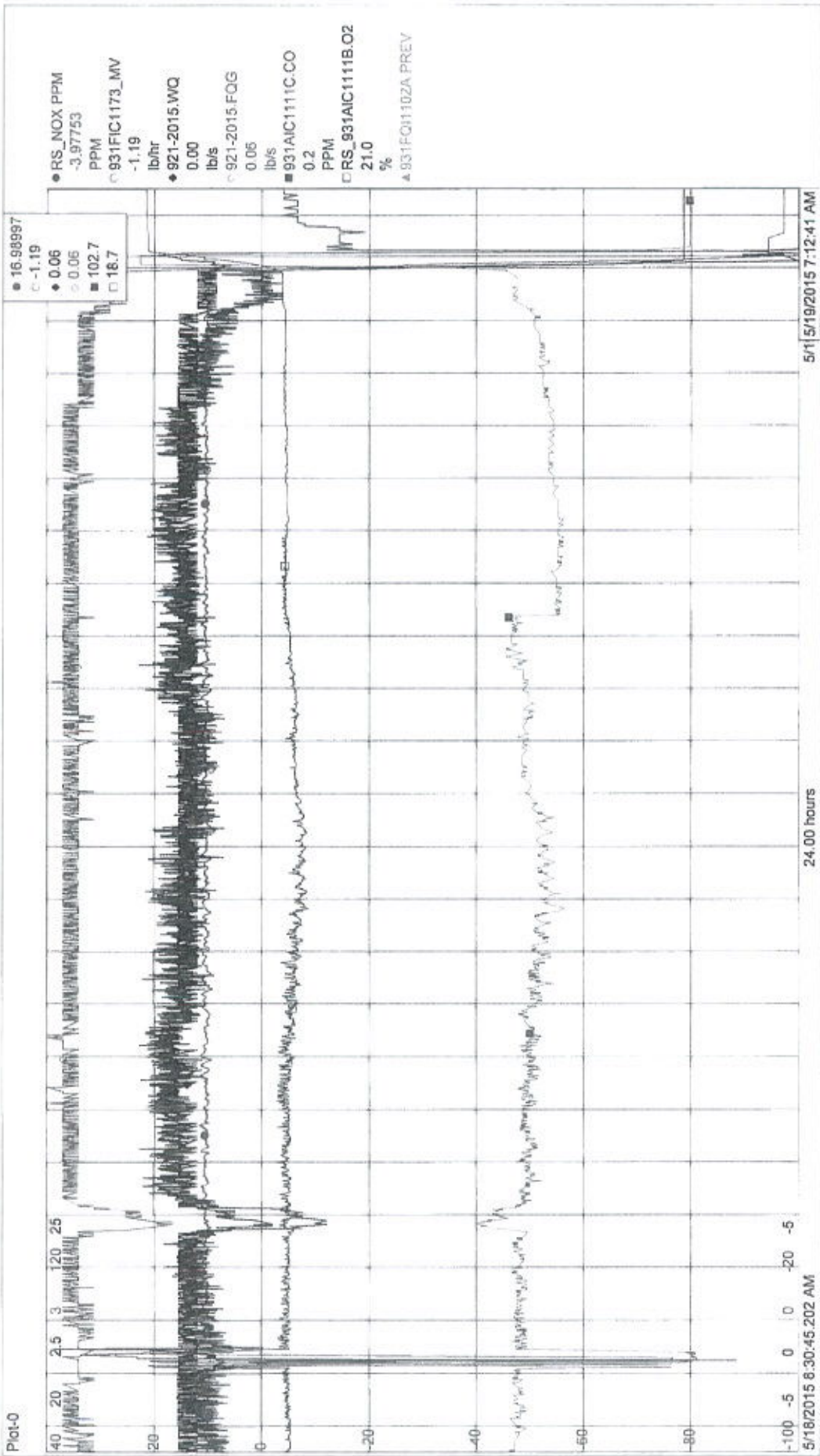
5/18/2015 7:00

5/18/2015 7:00

Time	Duct burner gas flow MSCFH	Turbine gas flow MSCFH	SCR Temperature	SCR exit NOx ppm	Ammonia Usage lb/h	NH3 NOx mole ratio	Injection steam lb/h	Steam to fuel ratio lb/h	NOx lb/h	Stack O2 %	Stack CO ppm	Stack NOx ppm	3h Running Average NOx	Nebraska CO %	Nebraska NOx %	Nebraska Corrected NOx (ppm) (5% O2)	Daily Av Cogen		Daily Av Cogen/Hub	
																	lb/h	lb/h	lb/h	lb/h
8:00	8.51	235.24	613.96	62.44	14.55	0.70	2.03	0.71	8.44	15.26	33.91	18.66	10.58	22.50	-0.03		8.45		10.23	
9:00	11.01	235.14	619.30	62.89	14.56	0.69	2.03	0.71	9.37	15.26	34.26	18.76	10.41	22.53	-0.03					
10:00	8.78	235.96	619.85	63.55	14.82	0.71	2.03	0.71	8.40	15.29	34.41	18.66	10.40	22.50	-0.03					
11:00	8.83	235.61	618.42	63.34	14.72	0.70	2.03	0.71	9.37	15.45	34.50	18.86	10.49	22.63	-0.03					
12:00	8.77	235.65	617.57	63.60	14.92	0.72	2.03	0.71	9.45	15.42	34.38	18.47	10.57	22.62	-0.03					
13:00	11.53	229.31	619.43	61.40	14.01	0.69	1.99	0.71	9.29	15.38	35.70	19.09	10.51	22.59	-0.03					
14:00	10.10	235.42	618.37	64.18	15.11	0.73	2.03	0.71	9.67	15.43	33.90	18.99	10.67	22.62	-0.03					
15:00	8.63	236.82	618.83	65.67	15.80	0.72	2.06	0.71	9.63	15.43	33.13	18.21	10.50	22.65	5.34					
16:00	9.03	239.75	619.87	65.91	15.85	0.71	2.06	0.71	9.48	15.45	32.85	18.14	10.45	22.65	0.09					
17:00	10.75	239.88	621.17	66.14	15.92	0.71	2.07	0.71	9.64	15.31	31.84	17.77	10.51	22.77	0.09					
18:00	18.54	239.33	630.46	65.83	15.54	0.67	2.03	0.71	10.01	15.14	29.97	17.09	10.51	22.99	0.09					
19:00	25.30	239.89	638.74	65.95	15.51	0.66	2.03	0.71	10.19	14.98	27.40	16.11	10.55	22.38	0.09					
20:00	29.87	239.05	644.21	66.06	15.45	0.64	2.03	0.71	10.26	14.85	26.39	15.80	10.47	22.31	0.09					
21:00	27.21	236.59	642.12	65.15	15.15	0.65	2.03	0.71	10.18	14.86	27.44	16.26	10.54	22.29	0.09					
22:00	16.45	236.48	629.27	64.33	15.08	0.69	2.03	0.71	9.84	15.09	31.36	17.62	10.61	22.23	0.09					
23:00	17.43	237.52	628.35	64.61	15.15	0.69	2.04	0.71	9.75	15.09	31.04	17.55	10.62	22.12	0.09					
0:00	9.47	239.50	621.00	64.85	15.53	0.70	2.04	0.71	9.58	15.24	33.58	18.64	10.54	22.08	0.09					
1:00	2.00	236.82	610.16	63.88	15.54	0.74	2.04	0.71	9.34	15.44	30.17	16.16	10.55	22.13	0.09					
2:00	0.08	236.50	606.51	64.13	15.81	0.77	2.03	0.71	9.10	15.49	26.97	14.06	10.53	22.22	0.09					
3:00	0.08	236.66	606.57	64.15	15.77	0.75	2.03	0.71	9.10	15.41	26.76	14.35	10.40	22.25	0.09					
4:00	0.08	236.26	604.66	63.21	15.33	0.76	2.03	0.71	9.05	15.43	26.01	14.70	10.47	22.47	0.09					
5:00	0.08	235.28	603.44	62.75	15.13	0.76	2.03	0.71	8.99	15.50	26.96	15.16	10.54	22.55	0.09					
6:00	0.08	233.03	602.73	61.51	14.80	0.75	2.03	0.71	8.92	15.49	30.58	15.87	10.46	22.47	7.02	13.81				
7:00	0.08	224.28	599.67	57.63	13.12	0.74	1.96	0.71	8.64	15.50	35.71	17.64	10.38	22.48	13.20	15.61				

Comment: Cogen down on 5/18/15 at 7:12 AM to exchange fuel nozzles. Nebraska online from 5:15 AM - 7:00 AM, a total of 1:45 hrs.

Plot-0



● 16.98997
○ -1.19
● 0.06
○ 0.06
■ 102.7
□ 18.7

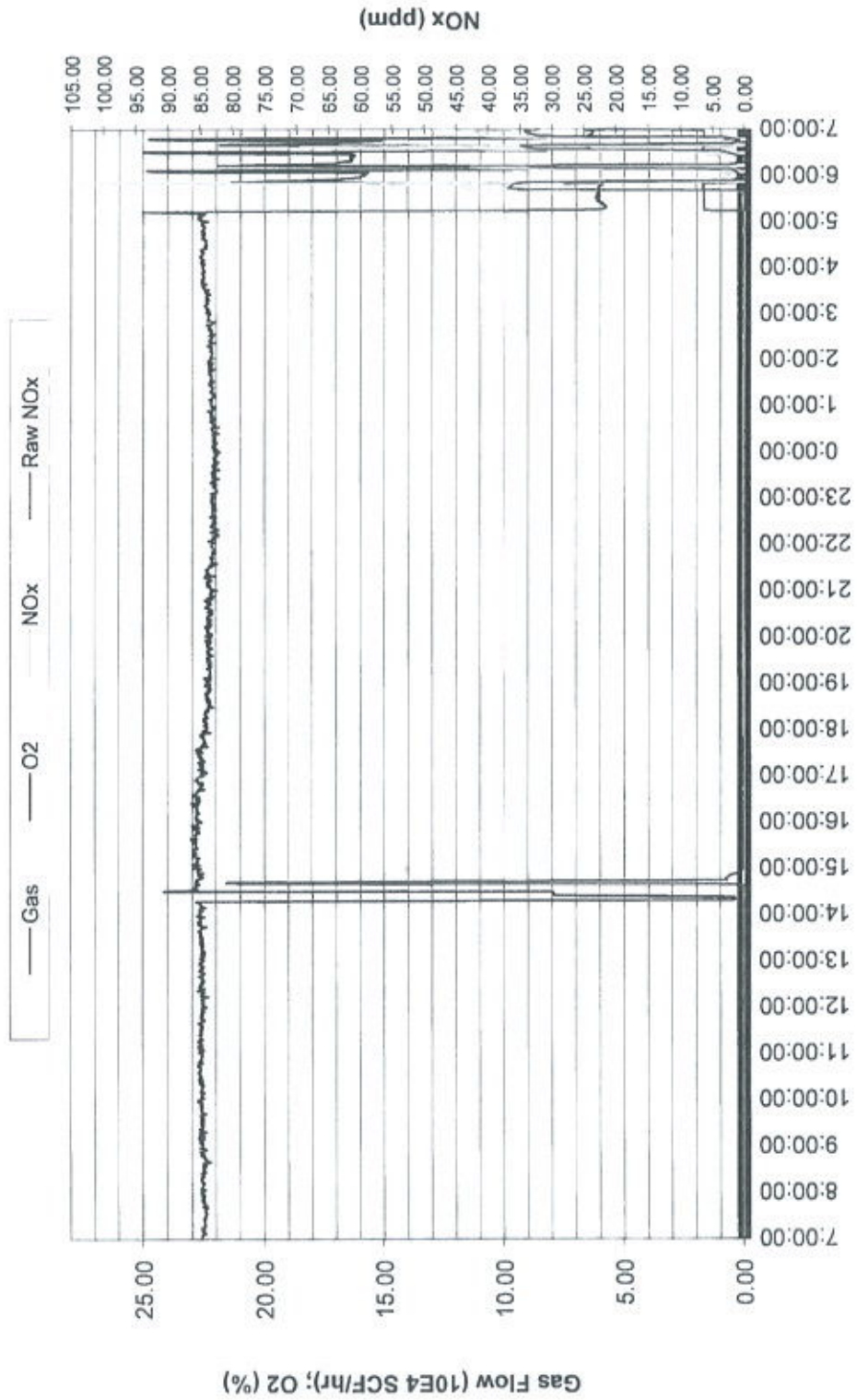
● RS_NOX PPM
-3.97753
PPM
○ 931FIC1173_MV
-1.19
lb/hr
● 921-2015.WQ
0.00
lb/s
○ 921-2015.FOG
0.06
lb/s
■ 931AIC1111C.CO
0.2
PPM
□ RS_931AIC1111B.O2
21.0
%
▲ 931FOI1102A.PREV

5/19/2015 7:12:41 AM

24.00 hours

5/18/2015 8:30:45.202 AM

Nebraska Boiler - Daily Environmental Report



Period: 5/18/2015 - 5/19/2015

PERMATE H ₂ O				STEAM & WATER READINGS				GAS & ELECTRIC READINGS					
CURRENT PREVIOUS	503.4841	2252.016	172.493	CONCENTRATE H ₂ O	LP	HP	SGC LP	TURBINE	MAXON	DUCT BURNER	MEGAWATTS		
	802664	2252.503	175.448			1758	802.550	2207370	81.932	24.1332	18035		
NEW DEMIN TRAILER	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	TANK 1	%	TANK 2	%	CHILLER HOURS	79.16	10.144	9.99384	1360.05	17522		
AMMONIA DELIVERY	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	% PULL	52.0	- Now	85%	FACESETTER ON / OFF	ALARM: RED <input type="checkbox"/> YELLOW <input type="checkbox"/> GREEN <input type="checkbox"/>	BOILER TEST RESULTS					
TURBINE	Flow	40.31	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
	Inlet Temp	57	54	51	40.38	41.84	40	56	58	59	56	58	57
	Humidity	38.2	27	23	21.0	19.1	19	20	20	21	21	21	21
	Vibration (Max)	13	13	13	13	12	11	12	12	12	12	12	12
	Steam Injection	1/SEC	2.0	2.0	2.0	2.0	2	2	2	2	2	2	2
	Turbine L.O. Level	%	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
	T54	%	14.8	14.31	14.2	14.24	14.37	14.32	14.30	14.28	14.28	14.23	14.14
	BATTERIES	135	V HP RECOUPE	FAL	FAR	AB INLET DIFF	HP RECOUPE	PSI HP RECOUPE	W/110 HP RECOUPE	FAR	FAR	10.5	9
	AR INLET DIFF	3.5	HP RECOUPE	FAL	FAR	AB INLET DIFF	HP RECOUPE	PSI HP RECOUPE	W/110 HP RECOUPE	FAR	FAR	10.6	9
	L.O. DIFFERENTIAL	5	PSI HP RECOUPE	FAL	FAR	AB INLET DIFF	HP RECOUPE	PSI HP RECOUPE	W/110 HP RECOUPE	FAR	FAR	14.6	20
DRAIN TURBINE WATER WASH	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	CRANK WASH	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	GALLONS	CONDUCTIVITY	WBS	NO	NO	NO	NO	NO	NO	
7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00		
Gen. Bearing Drain	%	185	155	156	156	156	156	155	155	155	155	155	
L.O. Supply	PSI	122	124	124	124	124	124	122	122	122	122	122	
Gen. Vibration (Max)	IPS	35	37	38	38	38	36	35	35	35	35	35	
The Line	UV	9	9	9	9	9	9	9	9	9	9	9	
Generator Voltage	KV	10.60	10.60	10.60	10.60	10.60	10.60	10.60	10.60	10.60	10.60	10.60	
450 Header Temp	F	709	710	711	711	709	709	708	709	710	710	710	
HP Drum Level	IN	2.2	2.1	1.9	1.9	1.7	1.6	1.6	1.6	1.6	1.6	1.8	
LP Drum Level	IN	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.8	
HP Drum Pressure	PSI	468	468	468	468	468	468	465	465	466	466	468	
LP Drum Pressure	PSI	145	145	145	145	145	145	145	145	146	146	147	
CO	PPM	38	33	33.9	33.5	30	28	28	32	32	32	32	
NOx	PPM	10.4	10.8	10.5	10.3	10.3	10.3	10.5	10.8	10.7	10.5	10.5	
Hot Well Level	%	15.3	15.4	15.4	15.3	15	15.6	15.8	15.8	15.4	15.2	15.2	
450 Header Temp	F	707	711	710	710	706	706	713	713	710	710	706	
HP Drum Level	IN	2.3	2	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	2	
LP Drum Level	IN	1.4	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	
HP Drum Pressure	PSI	468	468	468	468	468	468	468	468	468	468	468	
LP Drum Pressure	PSI	145	145	145	145	145	145	145	145	146	146	147	
CO	PPM	34.3	35	34.7	32	31	28	28	32	30	28	31	
NOx	PPM	10.4	10.4	10.5	10.5	10.4	10.3	10.5	10.8	10.3	10.2	10.1	
Hot Well Level	%	15.2	15.2	15.2	15	15	15.1	15.3	15.3	15.4	15.3	15.3	
1150 SET POINT	44.9	1103 B SET POINT	44.9	1103 B SET POINT	44.9	1103 B SET POINT	44.9	1103 B SET POINT	44.9	1103 B SET POINT	44.9	1103 B SET POINT	
DUCT BURNER	44.2	5/P	44.2	5/P	44.2	5/P	44.2	5/P	44.2	5/P	44.2	5/P	
Filter Separator	PSI	228	228	228	228	228	228	228	228	228	228	228	
Gas Receiver	PSI	425	425	425	425	425	425	425	425	425	425	425	
927 RANS	12"	Frame Oil Pressure (25-50)	PSI	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
711 RANS	12"	Frame Oil Pressure (25-50)	PSI	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
Temp cooling	F	11	12	50.6	11	12	50.6	11	12	50.6	11	12	

DAILY ENVIRONMENTAL REPORT

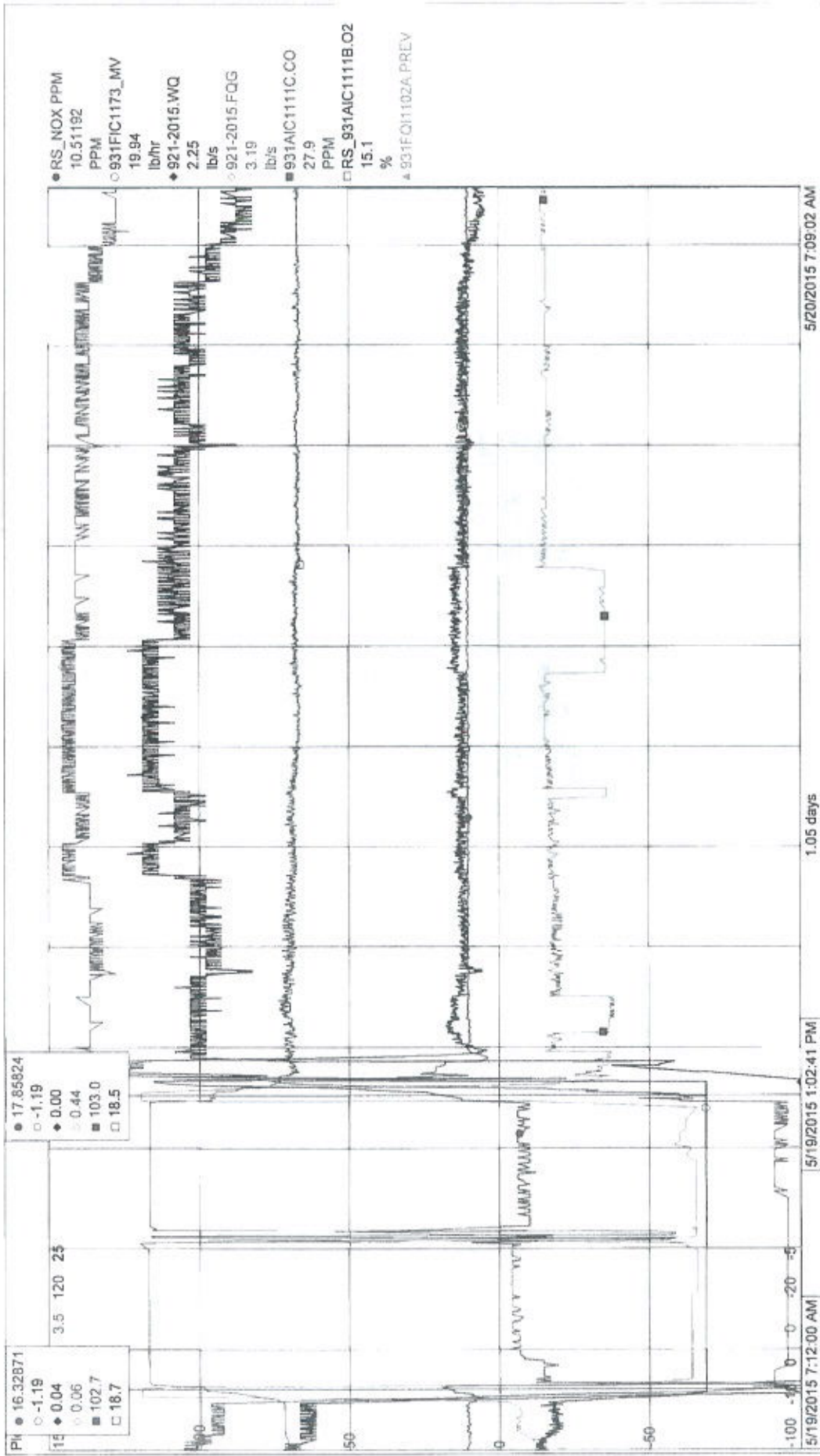
5/19/2015 7:00

5/20/2015 7:00

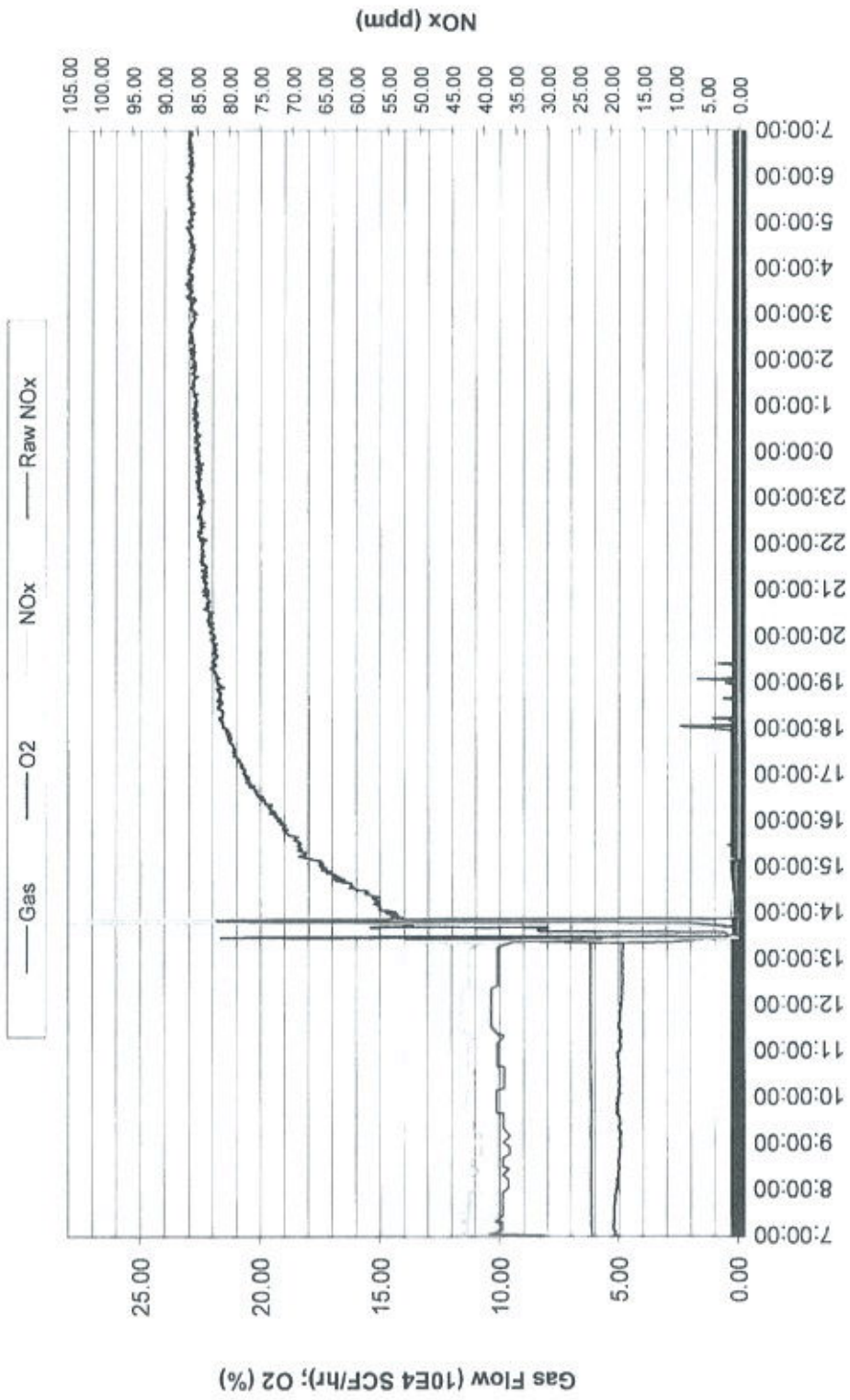
Time	Duct burner gas flow Msc3/H	Turbine gas flow Msc3/H	SCR Temperature °F	SCR inlet NOx ppm	Ammonia Usage lb/h	NH3 NOx mole ratio	Injection steam lb/h	Steam to fuel ratio	NOx lb/h	Stack O2 %	Stack CO ppm	CD lb/h	Stack NOx ppm	3h Average NOx	Nebraska O2 %	Nebraska NOx %	Nebraska NOx (ppm) (2% O2)	Daily Av Cogen NOx lb/h	Daily Av Cog+Hcb NOx lb/h
8:00	0.08	26.03	515.83	7.81	-0.50	-73.78	0.11	0.18	0.55	20.13	-64.53	4.02	-7.53	4.49	5.20	37.24	47.44		
9:00	0.08	5.12	498.20	0.38	-1.18	-450.83	0.00	0.00	-0.18	21.84	-0.11	-0.11	-5.18	-8.81	5.02	36.51	41.15		
10:00	0.05	498.20	498.20	0.38	-1.18	-451.75	0.00	0.00	-0.08	21.84	0.31	0.31	-4.31	-5.71	5.02	37.17	41.90		
11:00	-0.04	5.12	498.20	0.72	-1.18	-234.41	0.00	0.00	-0.17	20.95	40.00	0.45	-8.74	-8.09	5.01	37.39	42.12		
12:00	-0.04	9.08	498.20	0.72	-1.18	-171.91	0.00	0.00	0.25	20.95	17.10	0.25	-8.13	-7.07	4.87	38.32	43.06		
13:00	-0.02	10.48	498.20	1.78	-1.18	-155.48	0.00	0.00	-0.14	20.95	176.19	1.30	-5.88	-7.53	4.88	38.26	42.73		
14:00	2.28	265.51	571.53	78.82	26.10	-10.83	0.81	0.24	26.87	18.05	84.22	15.88	-11.25	4.71	8.49	21.98	31.70		
15:00	1.54	271.47	629.86	76.90	22.13	0.77	2.41	0.73	18.33	15.44	19.85	12.09	19.31	17.50	15.95	0.28	1.01		
16:00	5.87	269.22	628.74	76.22	21.31	0.75	2.37	0.72	18.57	15.40	27.14	16.47	19.51	17.35	18.41	0.28			
17:00	5.85	271.15	629.56	76.80	21.31	0.74	2.39	0.72	18.61	15.35	27.29	16.78	19.48	18.43	19.97	0.28			
18:00	5.71	276.82	631.50	76.35	21.48	0.73	2.51	0.75	18.79	15.24	27.16	17.03	19.48	18.48	21.06	0.28			
19:00	5.38	278.02	633.20	76.35	21.48	0.74	2.48	0.74	18.72	15.24	28.94	16.94	19.39	19.44	21.06	0.28			
20:00	4.74	278.20	631.82	76.28	21.80	0.75	2.58	0.76	18.80	15.16	25.72	16.22	18.42	18.42	21.90	0.28			
21:00	5.63	280.00	633.50	75.97	21.44	0.72	2.58	0.76	18.85	15.01	27.53	17.38	19.39	19.40	22.15	0.28			
22:00	2.85	278.44	630.94	75.93	21.75	0.75	2.59	0.76	18.88	15.09	21.72	13.68	18.46	18.46	22.37	0.28			
23:00	0.05	278.42	625.60	76.21	22.03	0.77	2.51	0.74	18.65	15.14	16.60	10.26	16.52	18.49	22.51	0.28			
0:00	2.52	276.59	628.65	76.04	21.76	0.78	2.51	0.75	18.68	15.09	21.59	13.48	18.47	18.52	22.60	0.28			
1:00	5.81	276.38	629.88	75.88	21.32	0.74	2.48	0.74	18.81	15.04	27.53	17.38	19.48	19.48	22.71	0.28			
2:00	5.62	275.54	629.89	75.96	21.32	0.74	2.48	0.74	18.86	15.04	27.44	17.15	19.48	19.48	22.80	0.28			
3:00	5.49	273.82	629.83	76.03	21.27	0.74	2.45	0.74	18.71	15.09	27.36	17.08	19.48	19.48	22.89	0.28			
4:00	5.59	274.37	629.84	76.15	21.37	0.74	2.46	0.74	18.84	15.06	27.47	17.03	19.48	19.48	22.96	0.28			
5:00	5.80	272.88	629.70	76.21	21.39	0.74	2.45	0.74	18.71	15.04	27.48	16.89	19.48	19.48	22.95	0.28			
6:00	5.68	269.56	629.32	75.53	21.02	0.75	2.38	0.72	18.56	15.06	27.40	16.89	19.48	19.48	22.98	0.28			
7:00	5.62	282.05	626.17	73.79	20.06	0.75	2.29	0.71	18.28	15.08	28.33	16.78	19.47	19.48	22.98	0.28			

Comment: Cogen down on 5/19/15 at 7:12 AM - 1:00 PM to exchange fuel nozzles, a total of 5.8 hrs. Nebraska online from 7:00 AM - 1:30 PM, a total of 6.5 hrs.

Nebraska Gas 377,150

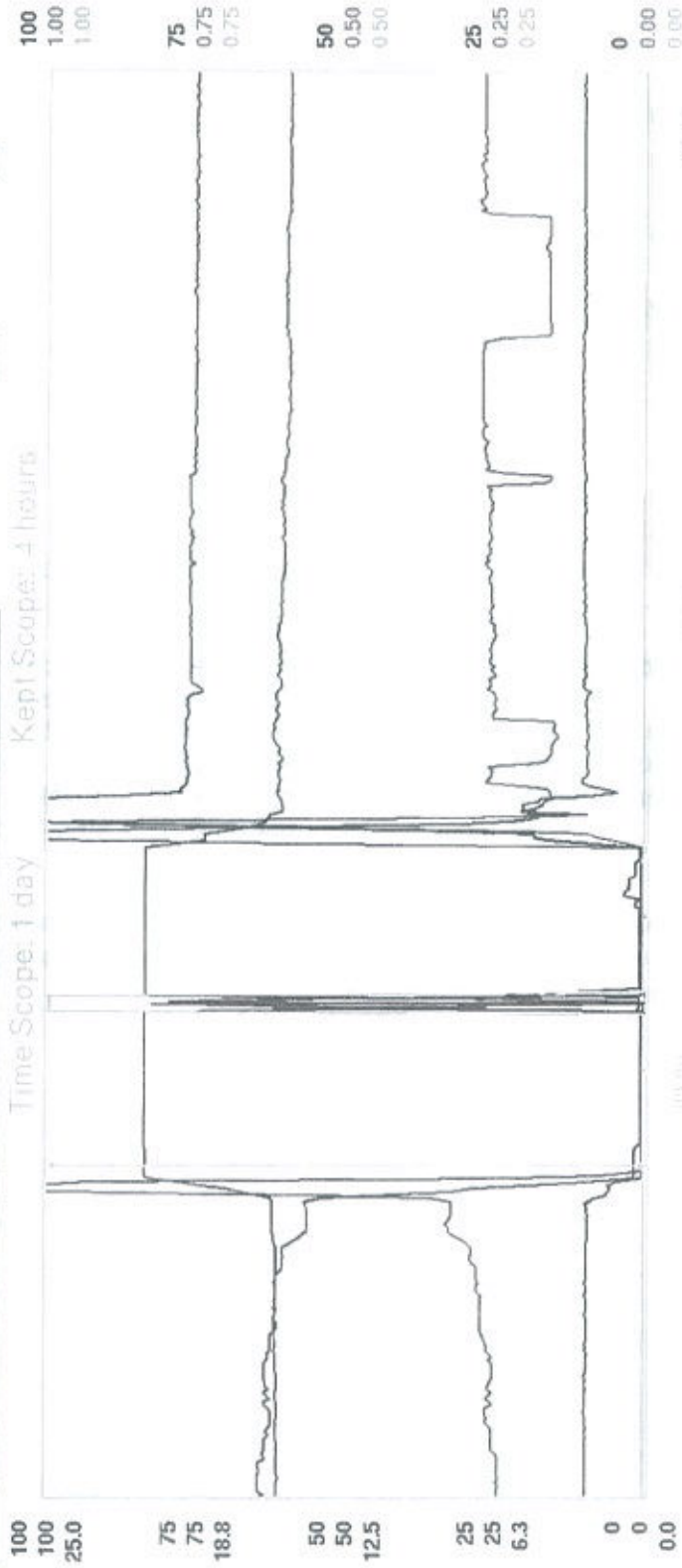


Nebraska Boiler - Daily Environmental Report



Period: 5/19/2015 - 5/20/2015

CURRENT PREVIOUS			PREHEAT H2O				CONCENTRATE H2O				STEAM & WATER READINGS				GAS & ELECTRIC READINGS				BOILER TEST RESULTS				
NEW DEMON TRAILER			YES	NO	TANK 1	TANK 2	%	CHILLER HOURS	ON / OFF	HP	SCG LP	TURBINE	MAXON	DUCT BURNER	MEGAWATTS	DAY SHIFT				NIGHT SHIFT			
5044832 5034861			YES	NO	79.16			79.16	1464	8057150	3498560	123814	80921	18493	204352				18033				
AMMONIA DELIVERY			YES	NO																			
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				pH 8.75 - 9.5					
Inlet Temp			55	57	57	57	58	58	58	58	58	58	58	Conductivity <20mmhos				Conductivity <20mmhos					
Humidity			36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	Sludge <20 ppb				Sludge <20 ppb					
Vibration (Max)			1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	R.O.				R.O.					
Steam Injection			1/SEC	1/SEC	1/SEC	1/SEC	1/SEC	1/SEC	1/SEC	1/SEC	1/SEC	1/SEC	1/SEC	Feed TDS <1000 ppm				Feed TDS <1000 ppm					
Turbine L.O. Level			90	90	90	90	90	90	90	90	90	90	90	Parmaale 10S <10 ppm				Parmaale 10S <10 ppm					
TSA			1307	1307	1307	1307	1307	1307	1307	1307	1307	1307	1307	pH (Feed 7.5)				pH (Feed 7.5)					
CONDENSATE			9	9	9	9	9	9	9	9	9	9	9	CONDENSATE				CONDENSATE					
BATTERIES			175	175	175	175	175	175	175	175	175	175	175	HP-pH 8.5 - 9.5				HP-pH 8.5 - 9.5					
AIR INLET DIFF			135	135	135	135	135	135	135	135	135	135	135	Conductivity <20mmhos				Conductivity <20mmhos					
AIR INLET DIFF			5	5	5	5	5	5	5	5	5	5	5	LP-pH 8.5-9.5				LP-pH 8.5-9.5					
GEN			7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	HP				HP					
Gen. Bearing Drain			153	154	154	154	154	154	154	154	154	154	154	pH 9.5 - 10.5				pH 9.5 - 10.5					
L.O. Supply			121	121	121	121	121	121	121	121	121	121	121	Conductivity 75-150				Conductivity 75-150					
Gen. Vibration (Max)			0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	Phosphate 5-15 ppm				Phosphate 5-15 ppm					
Tie Line			4	4	4	4	4	4	4	4	4	4	4	Silica <5 ppm				Silica <5 ppm					
Generator Voltage			13K	13K	13K	13K	13K	13K	13K	13K	13K	13K	13K	Iron ppm				Iron ppm					
COEN BOILER			7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	LP				LP					
450 Header Temp			703	710	710	710	710	710	710	710	710	710	710	pH 9.5 - 10.5				pH 9.5 - 10.5					
HP Drum Level			1.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	Conductivity 75 - 150				Conductivity 75 - 150					
LP Drum Level			0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	Silica <5 ppm				Silica <5 ppm					
HP Drum Pressure			468	470	470	470	470	470	470	470	470	470	470	Iron ppm				Iron ppm					
LP Drum Pressure			36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	MIXED BED				MIXED BED					
CO			40	40	40	40	40	40	40	40	40	40	40	pH 6.0 - 7.5				pH 6.0 - 7.5					
Hot Well Level			15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	Conductivity <1mmhos				Conductivity <1mmhos					
450 Header Temp			Down	711	710	710	710	710	710	710	710	710	710	HP Steam Test				HP Steam Test					
HP Drum Level			0.716	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	Silica <20 ppb				Silica <20 ppb					
LP Drum Level			0.716	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	SOFTENER				SOFTENER					
HP Drum Pressure			468	470	470	470	470	470	470	470	470	470	470	Hardness <1.0 ppm				Hardness <1.0 ppm					
LP Drum Pressure			426	426	426	426	426	426	426	426	426	426	426	Running (1 of 2)				Running (1 of 2)					
CO			40	40	40	40	40	40	40	40	40	40	40	STEAM TEST				STEAM TEST					
Hot Well Level			15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	SALT				SALT					
COMPRESSORS			7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	NORTH TANK				NORTH TANK					
Filter Separator			226	237	234	234	234	234	234	234	234	234	234	SOUTH TANK				SOUTH TANK					
Gas Receiver			426	426	426	426	426	426	426	426	426	426	426	FLEET				FLEET					
Frame Oil Pressure (25-50) PSI			272	272	272	272	272	272	272	272	272	272	272	TIME				TIME					
Frame Oil Pressure (75-50) PSI			442	442	442	442	442	442	442	442	442	442	442	DAY SHIFT				DAY SHIFT					
Temp. cooling 'F			T1	T1	T1	T1	T1	T1	T1	T1	T1	T1	T1	NOTES				NOTES					
T2			592	592	592	592	592	592	592	592	592	592	592	OFFLINE - 7:16 AM				OFFLINE - 7:16 AM					
T1			442	442	442	442	442	442	442	442	442	442	442	DUAL-AC				DUAL-AC					
T2			442	442	442	442	442	442	442	442	442	442	442	11:27 H2O OFF				11:27 H2O OFF					
T1			442	442	442	442	442	442	442	442	442	442	442	IDM 1994				IDM 1994					
T2			442	442	442	442	442	442	442	442	442	442	442	Run 1306				Run 1306					
T1			442	442	442	442	442	442	442	442	442	442	442	ONLINE 1308				ONLINE 1308					
T2			442	442	442	442	442	442	442	442	442	442	442	NOTES				NOTES					



03.04 07:38 2015-05-19
02.04 07:38 2015-05-19
01.04 07:38 2015-05-19

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	07:38 2015-05-19	1.38	80.90	PPM			
931AIC1111C.CO	B&W BLR STACK RAW CO	MV	Mom	07:38 2015-05-19	0.22	25.97	PPM			
931AIC1111B.O2	B&W BLR RAW O2%	MV	Mean	07:38 2015-05-19	20.88	15.02	%			
931AIC1111D.NOX	B&W BLR STACK NOX	MV	Mean	07:38 2015-05-19	0.20	10.24	PPM			
931-AIC-1111.INCAL	RSMT CEMS IN CAL	MV	Mom	07:38 2015-05-19	0	0				
931-aic-1111.trb	RSMT CEMS TROUBLE	MV	Mom	07:38 2015-05-19	0	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...		



NEW  **INDY**
CONTAINERBOARD

July 21, 2015

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

Subject: PI emission data loss

Dear Mr. Olson:

This letter is a follow up on the call made to the VCAPCD Breakdown Center Hotline on July 18, 2015 by Victor Kumpere.

On July 18, 2015 at 3:08 PM, the mill had power outage due to lightning strike that affected the SCE power grid. Cogen was down from 3:08 PM to 7:08 PM, a total of 4 hrs. After the power was restored and cogen was online, the PI process system was still not collecting data even though PI servers and interfaces to the process system showed as running. The system disconnect was resolved by restarting each interface. There was no PI emission data from July 18, 7:09 PM to July 20, 9:13 AM, a total of 38.1 hours. The ABB DCS data showed that there was no excess emission during this period.

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>Judy Gellman</u> 7/23/15	
Title: <u>Mill Manager</u>	

DAILY ENVIRONMENTAL REPORT

7/19/2015 7:00

7/19/2015 7:00

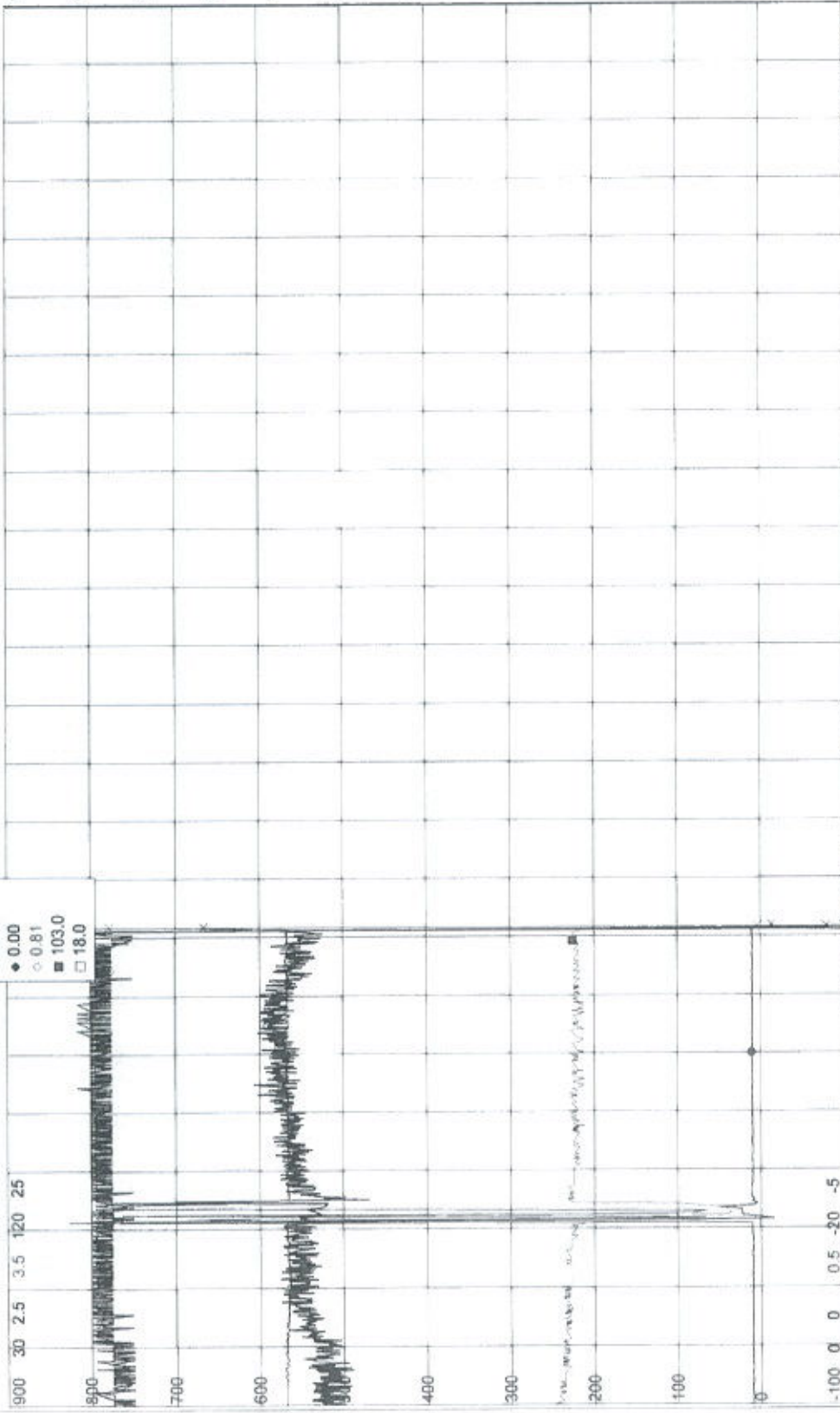
Time	Dust burner gas flow MCOFH	Turbine gas flow MCOFH	SCR Temperature °F	SCR NH3 ppm	SCR NH3 ppm	Ammonia Usage lb/h	NH3/NH4 mole ratio	NH3/NH4 ratio	Steam to boiler ratio	NOx lb/h	SO2 %	SO2 ppm	CO lb/h	Stack 15% O2 ppm	Stack CO ppm	2h Running Average NOx	Nebraska CO2 %	Nebraska NOx %	Nebraska NOx (ppm) (3% O2)	Daily Av. Cogen		Daily Av. Cogen/Net	
																				lb/h	9.82	lb/h	9.82
8:00	5.72	255.76	628.46	70.50	70.50	18.57	0.75	2.16	0.70	10.01	15.07	27.52	16.00	10.46	10.50	24.37	-0.78						
9:00	5.60	258.29	627.50	72.26	72.26	19.29	0.76	2.21	0.70	10.15	15.01	26.44	15.53	10.51	10.52	24.24	-0.78						
10:00	5.70	260.24	628.23	72.56	72.56	19.56	0.74	2.22	0.70	10.11	14.98	26.02	15.42	10.39	10.45	24.17	-0.78						
11:00	5.70	258.82	628.31	72.58	72.58	19.59	0.76	2.21	0.70	10.46	15.01	25.89	15.15	10.49	10.53	24.28	-0.78						
12:00	5.58	260.37	628.38	72.88	72.88	19.88	0.76	2.22	0.70	10.21	15.00	25.31	15.01	10.50	10.53	24.40	-0.78						
13:00	5.61	261.05	629.58	73.40	73.40	20.22	0.76	2.22	0.70	10.37	15.04	25.15	15.01	10.64	10.61	24.39	-0.78						
14:00	5.63	259.21	629.69	73.78	73.78	20.36	0.76	2.22	0.70	10.27	15.04	24.95	14.73	10.56	10.55	24.42	-0.78						
15:00	5.63	259.21	629.39	72.59	72.59	19.87	0.76	2.21	0.70	10.13	15.03	25.51	15.00	10.44	10.53	24.37	-0.78						
16:00	4.16	189.16	625.81	53.97	53.97	14.89	0.54	1.48	0.52	6.70	15.59	50.06	30.11	4.41	8.46	24.52	-0.78						
17:00	Good Data For	Good Data For	Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	7.44	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	
18:00	Good Data For	Good Data For	Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	4.41	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	
19:00	Good Data For	Good Data For	Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No 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	
20:00	Good Data For	Good Data For	Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No 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	
21:00	Good Data For	Good Data For	Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No 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	
22:00	Good Data For	Good Data For	Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No 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	
23:00	Good Data For	Good Data For	Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No 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	
0:00	Good Data For	Good Data For	Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No 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	
1:00	Good Data For	Good Data For	Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No 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	
2:00	Good Data For	Good Data For	Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No 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	
3:00	Good Data For	Good Data For	Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No 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	
4:00	Good Data For	Good Data For	Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No 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	
5:00	Good Data For	Good Data For	Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No 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	
6:00	Good Data For	Good Data For	Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No 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	
7:00	Good Data For	Good Data For	Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No Good Data For	No 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	

Comment: The mill experienced black out due to the lightning strike 15:08 pm. -18:08 pm. The PI server did not come on line. The VC APCO was called and loss of data reported.

Plot-0

-13.00105

- 0.65
- 0.00
- ◆ 0.81
- ◇ 103.0
- 18.0



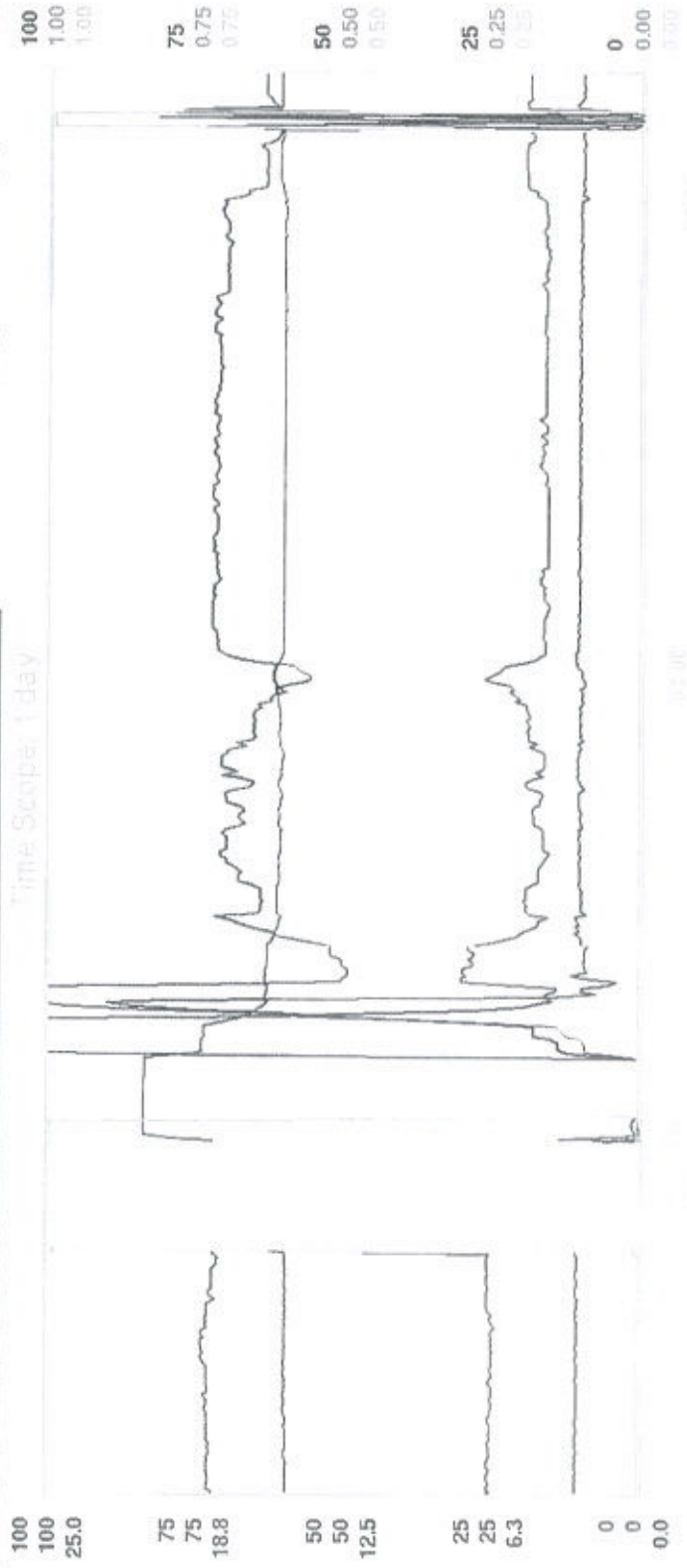
- RS_NOX_PPM
- Calc Failed
- ◆ PPM
- ◇ 931FIC1173_MV
- Bad
- ◆ 921-2015.WQ
- ◇ lb/hr
- ◆ Bad
- ◇ 921-2015.FOG
- ◇ lb/s
- ◆ Bad
- ◇ lb/s
- 931AIC1111C.CO
- ◆ Bad
- ◆ PPM
- ◇ RS_931AIC1111B.O2
- ◆ Bad
- ◆ %
- ◆ 931FIC1102A.PREV

7/19/2015 7:00:00 AM

24.00 hours

7/18/2015 3:05:24 PM

7/18/2015 7:00:00 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	Mem	15:14 2015-07-18	***	57.03	PPM			
931AIC1111C.CO	B&W BLR STACK RAW CO	MV	Mem	15:14 2015-07-18	***	22.18	PPM			
931AIC1111B.O2	B&W BLR RAW O2%	MV	Mean	15:14 2015-07-18	***	15.48	%			
931AIC1111D.NOX	B&W BLR STACK NOX	MV	Mean	15:14 2015-07-18	***	10.80	PPM			
931-AIC-1111.INCAL	RSMT CEMS IN CAL	MV	Mem	15:14 2015-07-18	***	0				
931-aic-1111.trb	RSMT CEMS TROUBLE	MV	Mem	15:14 2015-07-18	***	0				

ABB

D1 30 minutes D2 1 hour D3 8 hours D5 10 days

D6 Positioning... D7 Trace Control... D8 Analyze... D9 Trace Config... D10 Extended Config...

DAILY ENVIRONMENTAL REPORT

7/18/2015 7:00

7/20/2015 7:00

Time	Duct burner gas flow MCF/H	Turbine gas flow MCF/H	SCR Temperature °F	SCR NH ₃ level ppm	Aerosols lb/h	MHI-NH ₃ mole ratio	Inj rate lb/h	Steam to heat rate lb/h	NOx lb/h	Stack CO ppm	Stack SO ₂ ppm	3h Average NOx	Nebraska CO %	Nebraska NOx %	Nebraska Corrected NOx (ppm) (3% O ₂)	Daily Av Cogen NOx lb/h	Daily Av Cogen+Web NOx lb/h
8:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	Daily Av Cogen	Daily Av Cogen+Web
9:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	CO	CO
10:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	lb/h	lb/h
11:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	#N/A!	#N/A!
12:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	Stack NOx analyzer	Stack NOx analyzer
13:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	zero value	No Good Data For
14:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	zero diff %	#VALUE!
15:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	span value	No Good Data For
16:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	span diff %	#VALUE!
17:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	Stack CO Analyzer	Stack CO Analyzer
18:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	zero value	No Good Data For
19:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	zero diff %	#VALUE!
20:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	span value	No Good Data For
21:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	span diff %	#VALUE!
22:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	Stack CO Analyzer	Stack CO Analyzer
23:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	zero value	No Good Data For
0:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	zero diff %	#VALUE!
1:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	span value	No Good Data For
2:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	span diff %	#VALUE!
3:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	Stack CO Analyzer	Stack CO Analyzer
4:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	zero value	No Good Data For
5:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	zero diff %	#VALUE!
6:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	span value	No Good Data For
7:00	Good Data For	Good Data For	No Good Data For	Good Data For	No Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	Good Data For	#N/A!	Good Data For	Good Data For	Good Data For	span diff %	#VALUE!

Comment: No PI data due to mill Stack out on 7/18/15. Under investigation.

Plot-0



900 30 2.5 3.5 120 25

800

700

600

500

400

300

200

100

0

-100

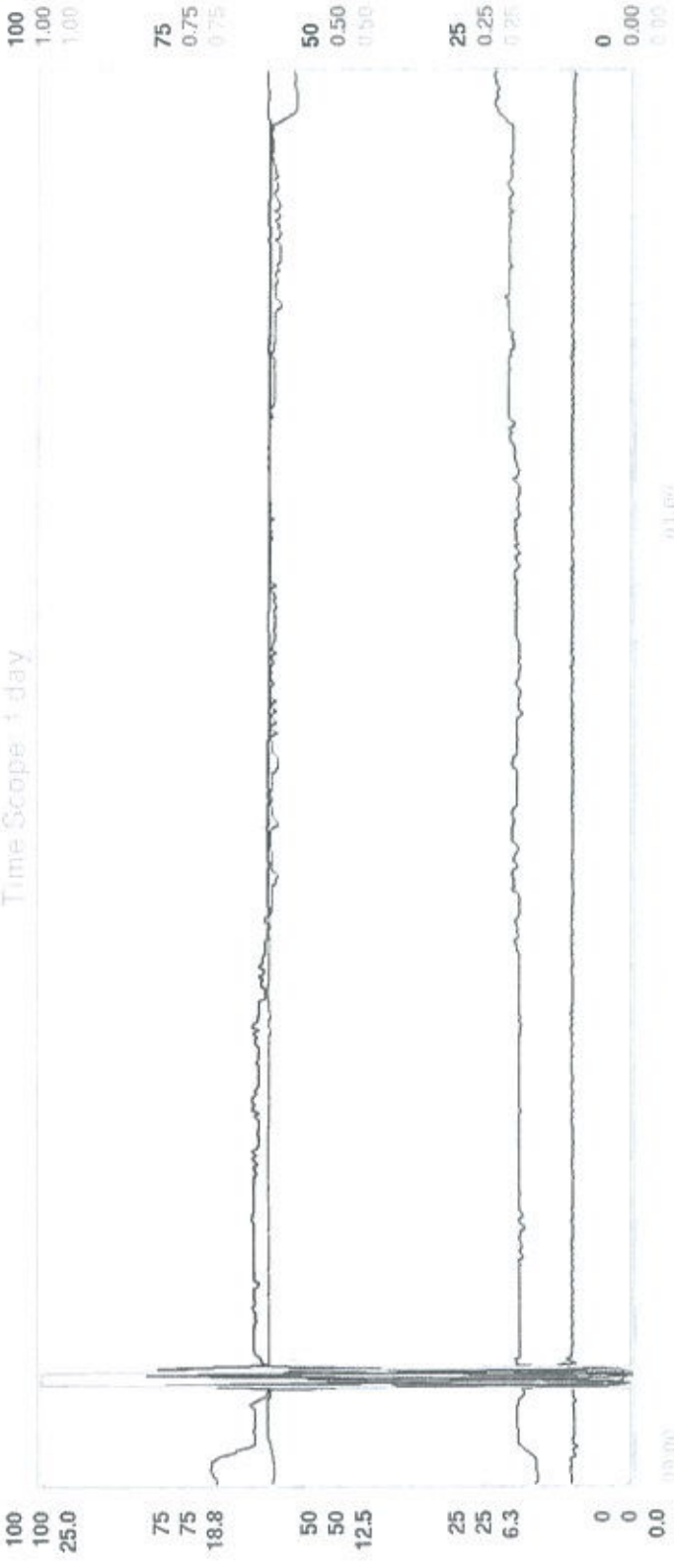
0 0 0.5 -20 -5

7/19/2015 7:00:00 AM

24.00 hours

7/20/2015 7:00:00 AM

Operator 2015-07-21 15:42
 931F1102.BRRRSTP DUCT BURNER STOPPED Value 15:40:10
 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

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	08:30 2015-07-19	70.16	63.53	PPM			Form
931AIC1111C.CO	B&W BLR STACK RAW CO	MV	Mom	08:30 2015-07-19	16.86	19.09	PPM			Form
931AIC1111B.O2	B&W BLR RAW O2%	MV	Mean	08:30 2015-07-19	15.19	15.41	%			Form
931AIC1111D.NOX	B&W BLR STACK NOX	MV	Mean	08:30 2015-07-19	10.12	9.72	PPM			Form
931-AIC-1111.INCAL	RSMT CEMS IN CAL	MV	Mom	08:30 2015-07-19	0	0				Form
931-aic-1111.trb	RSMT CEMS TROUBLE	MV	Mom	08:30 2015-07-19	0	0				Form

01:09
2015-07-20

17:06
2015-07-19

01:09
2015-07-20

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

ABB

DAILY ENVIRONMENTAL REPORT

7/21/2015 7:00

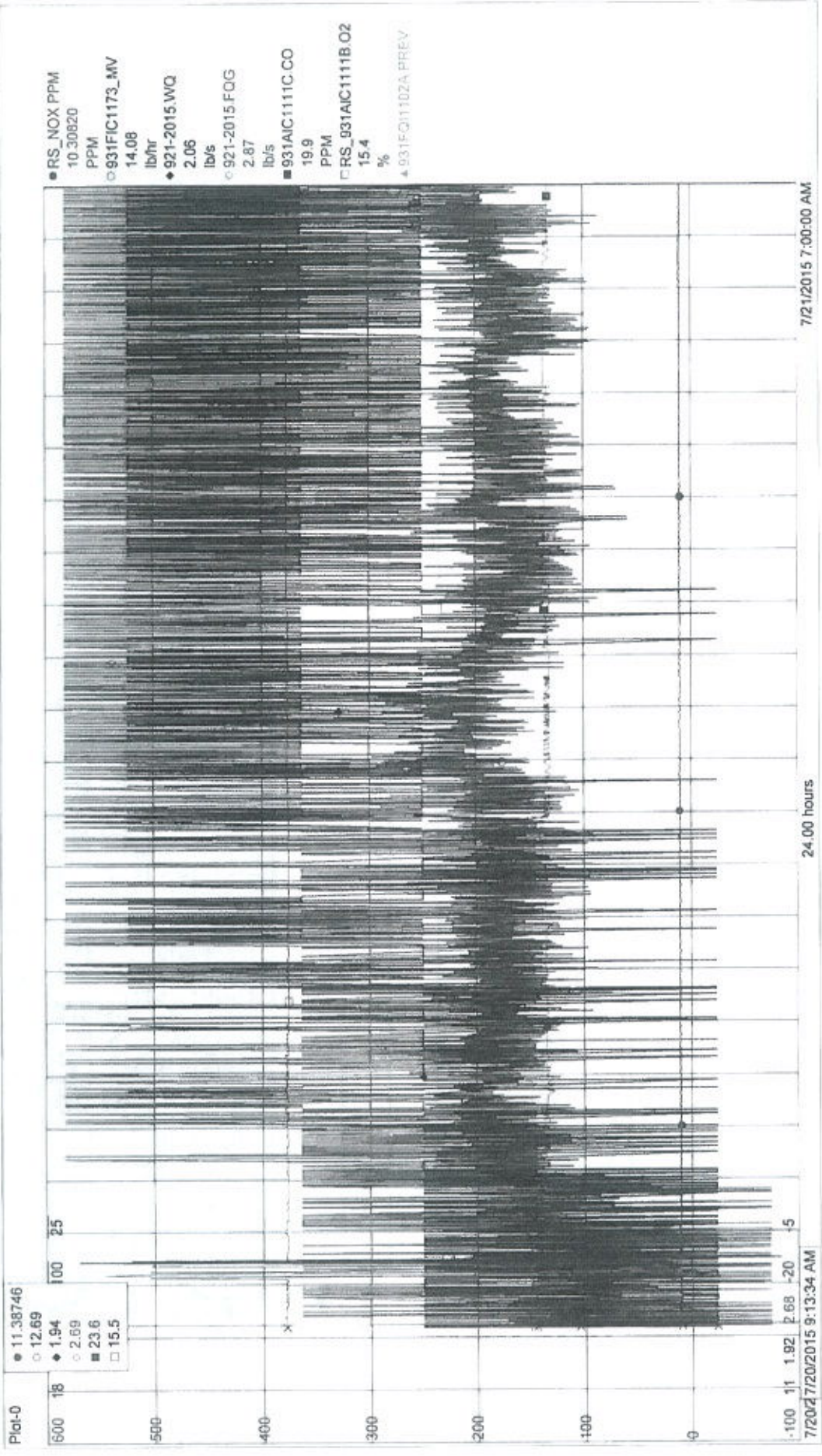
7/21/2015 7:00

7/21/2015 7:00

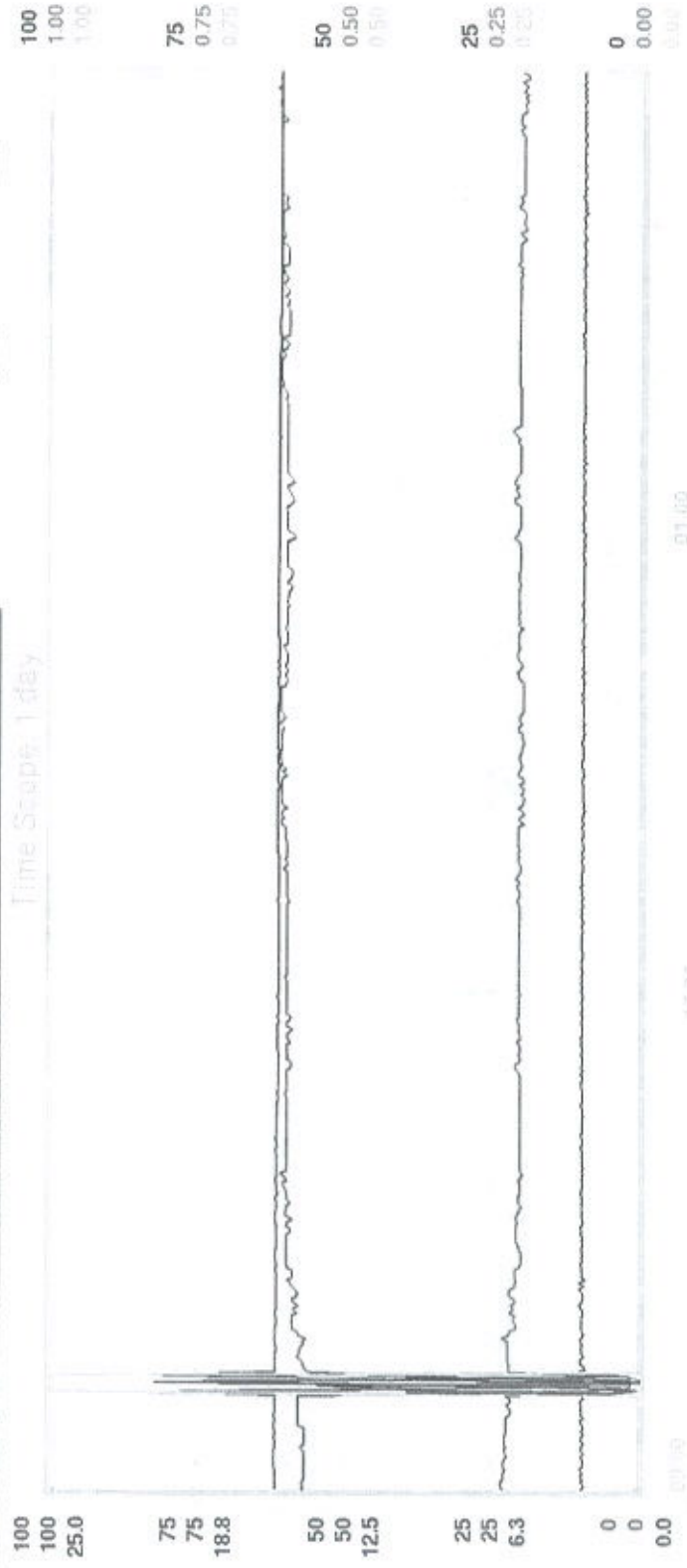
Time	Duct burner gas flow MSCFH	Turbine gas flow MSCFH	SCR inlet Temperature °F	SCR inlet NOx ppm	Amonia Useage lb/h	NOx mole ratio	NOx lb/h	Injection system rate lb/h	Steam to boiler rate lb/h	NOx lb/h	Stack CO %	Stack CO ppm	Stack NOx 15% O2 lb/h	Stack NOx ppm	3m Running Average NOx MW/1000	Nebraska NOx %	Nebraska Corrected NOx (3% O2)	Daily Air Cogen NOx lb/h
8:00	Good Data For Good Data For	225.76	607.64	57.63	12.81	0.73	1.97	0.72	8.74	15.49	24.60	10.68	10.68	10.68	24.60	2.47		Daily Air Cogen NOx lb/h
9:00	Good Data For Good Data For	224.91	607.73	57.16	12.93	0.73	1.97	0.72	8.74	15.45	24.39	10.68	10.68	10.68	24.60	1.20		Daily Air Cogen NOx lb/h
10:00	Good Data For Good Data For	226.81	607.97	58.47	13.22	0.73	1.97	0.72	8.71	15.44	24.12	11.72	10.51	10.51	24.61	-0.03		Daily Air Cogen NOx lb/h
11:00	Good Data For Good Data For	229.64	609.05	59.64	13.69	0.74	2.00	0.71	8.86	15.45	22.22	11.40	10.49	10.49	24.66	0.03		Daily Air Cogen NOx lb/h
12:00	Good Data For Good Data For	229.06	610.43	60.16	13.81	0.74	2.00	0.71	8.81	15.46	21.76	11.35	10.49	10.49	24.72	4.43		Daily Air Cogen NOx lb/h
13:00	Good Data For Good Data For	230.15	611.53	60.09	13.81	0.74	1.99	0.71	8.93	15.44	21.83	11.19	10.63	10.53	24.77	0.13		Daily Air Cogen NOx lb/h
14:00	Good Data For Good Data For	230.27	611.43	59.87	13.75	0.73	2.00	0.71	8.87	15.38	21.75	11.10	10.53	10.54	24.66	-0.28		Daily Air Cogen NOx lb/h
15:00	Good Data For Good Data For	230.55	611.44	59.78	13.72	0.74	2.01	0.71	8.85	15.39	21.83	11.14	10.48	10.54	24.53	-0.17		Daily Air Cogen NOx lb/h
16:00	Good Data For Good Data For	229.96	611.62	60.10	13.74	0.73	2.00	0.71	8.73	15.37	21.82	11.13	10.39	10.49	24.44	-0.06		Daily Air Cogen NOx lb/h
17:00	Good Data For Good Data For	230.44	611.24	60.00	13.77	0.74	2.00	0.71	8.89	15.37	22.14	11.27	10.54	10.48	24.29	0.06		Daily Air Cogen NOx lb/h
18:00	Good Data For Good Data For	231.06	609.93	60.30	13.90	0.74	2.02	0.71	8.92	15.41	21.66	11.32	10.52	10.48	24.24	0.08		Daily Air Cogen NOx lb/h
19:00	Good Data For Good Data For	231.52	610.03	61.01	14.13	0.74	2.03	0.71	8.91	15.40	21.61	11.11	10.52	10.53	24.39	0.72		Daily Air Cogen NOx lb/h
20:00	Good Data For Good Data For	232.54	610.02	61.01	14.10	0.74	2.03	0.71	8.93	15.41	21.44	11.15	10.56	10.51	24.41	0.72		Daily Air Cogen NOx lb/h
21:00	Good Data For Good Data For	230.49	609.98	60.49	13.81	0.73	2.00	0.71	8.77	15.40	21.73	11.18	10.42	10.48	24.36	0.72		Daily Air Cogen NOx lb/h
22:00	Good Data For Good Data For	230.96	609.81	60.04	13.67	0.73	2.02	0.71	8.88	15.43	22.20	11.48	10.56	10.47	24.44	0.72		Daily Air Cogen NOx lb/h
23:00	Good Data For Good Data For	232.99	610.15	60.01	13.72	0.73	2.03	0.71	8.94	15.43	22.25	11.49	10.49	10.47	24.54	-0.06		Daily Air Cogen NOx lb/h
0:00	Good Data For Good Data For	231.16	610.36	59.87	13.64	0.73	2.03	0.71	8.81	15.42	22.51	11.49	10.41	10.47	24.55	-0.28		Daily Air Cogen NOx lb/h
1:00	Good Data For Good Data For	233.00	610.22	60.30	13.79	0.72	2.03	0.71	8.82	15.41	22.49	11.56	10.48	10.45	24.57	-0.28		Daily Air Cogen NOx lb/h
2:00	Good Data For Good Data For	233.28	610.23	60.83	13.89	0.72	2.03	0.71	8.85	15.41	22.11	11.51	10.47	10.45	24.50	1.82		Daily Air Cogen NOx lb/h
3:00	Good Data For Good Data For	231.80	610.32	60.38	13.72	0.73	2.03	0.71	8.80	15.38	21.88	11.33	10.50	10.48	24.48	64.53		Daily Air Cogen NOx lb/h
4:00	Good Data For Good Data For	232.55	610.71	60.77	13.88	0.73	2.03	0.71	8.84	15.37	21.68	11.12	10.49	10.49	24.38	72.50		Daily Air Cogen NOx lb/h
5:00	Good Data For Good Data For	231.74	611.87	61.21	14.05	0.74	2.03	0.71	8.90	15.37	21.34	10.97	10.56	10.50	24.28	74.82		Daily Air Cogen NOx lb/h

Comment: No PI data from 7/16/15 7:00 pm (cogen online after mill black out) to 7/20/15 9:19 AM, a total of 381.1 hrs. Per investigation, PI servers came online but there was still disconnect to process.

PRINT TIME: 7/21/2015 9:42 AM
NOTE: This document is valid for only ONE week after print time



Operator 2015-07-21 15:42 26M
 931F1102.BRRRSTP DUCT BURNER STOPPED Value 15:40:10
 RSMT_4-20MA ROSEMOUNT CEMS VALUES



01:00 17:05 2015-07-21

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	06:32 2015-07-20	57.03	63.53	PPM			
931AIC1111C.CO	B&W BLR STACK RAW CO	MV	Mom	06:32 2015-07-20	23.44	19.03	PPM			
931AIC1111B.O2	B&W BLR RAW O2%	MV	Mean	06:32 2015-07-20	15.48	15.41	%			
931AIC1111D.NOX	B&W BLR STACK NOX	MV	Mean	06:32 2015-07-20	10.03	9.72	PPM			
931-AIC-1111.INCAL	RSMT CEMS IN CAL	MV	Mom	06:32 2015-07-20	0	0				
931-aic-1111.trb	RSMT CEMS TROUBLE	MV	Mom	06:32 2015-07-20	0	0				

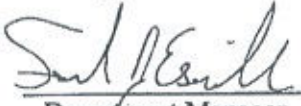
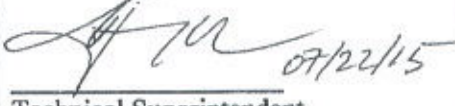

D1 30 minutes D2 1 hour D3 8 hours D5 10 days

D6 Positioning... D7 Trace Control... D8 Analyze... D9 Trace Config... D10 Extended Config...



New-Indy Oxnard Environmental Incident Report

Shaded section to be completed by the EMR

Name of Incident Emission PI data loss		Incident Date 7/18/15	
Exact Location Incident Mill			
Reported By Victor Kumpera	Estimated Start and Stop Times of Incident: 7/18 3:09pm – 7/20 9:13 AM		Possible Cause: power outage
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 type="checkbox"/> Air Emission <input checked="" type="checkbox"/> Other emission data loss _____		Released To <input type="checkbox"/> Storm Water System <input type="checkbox"/> Secondary Containment <input type="checkbox"/> Process Sewer <input 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 Lighting strike affected the power grid and caused the facility to go black. After power was restored, the PI system was not collecting data from the process area. The PI system servers are on an emergency generator and did not see any downtime due to the power interruption. All servers remained running, and the interfaces to the process system showed as running. Upon further evaluation, it was determined that even though the interfaces showed as running, there was still a disconnect to process. To remedy the situation, each interface was stopped and restarted, and then data again began to flow into PI. Data buffering is setup for the PI system, but the PI system disconnect was before the system that does the buffering, so no data was captured during this time.			
Estimated Amount Released		pH	CONSISTENCY (%)
<input type="checkbox"/> _____ Gallons <input type="checkbox"/> _____ Pounds <input checked="" type="checkbox"/> Other X			
List Any External Emergency Clean Up Personnel Contacted N/A		List Any External Agencies Contacted (Agency, person and time of call.) APCD	
List Hueneme Personnel Contacted (Foreman, Mill Manager, etc.) Sandy Robin		Any Acute or Chronic Health Risks (refer to MSDS) N/A	
Describe Any Emergency Response Actions Sent IT help desk ticket; Victor Kumpera contacted Sandy Robin on 7/18/15.			
Suggestions to Prevent Reoccurrence			Estimated Completion Date
1. Check PI interfaces after facility comes back up after power outage			1. ongoing
2. Verify data is current and updating in both the process and PI systems			2. ongoing
3.			3.
4.			4.
Root Cause after investigation Power outage in facility caused a disconnect to the PI interfaces.		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 Sam Escamilla; Sandy Robin		Investigated Date 7/19/15; 7/20/15	
<u>Follow Up</u>		<u>By When</u>	<u>Completion Date</u>
<u>By Whom</u>			
Issued by  Department Manager	Reviewed by  07/22/15 Technical Superintendent	Approved by  7/23/15 Mill Manager	

Print Time: 7/21/2015 12:03:51 PM

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

NEW  INDY
CONTAINERBOARD

August 5, 2015

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

Subject: PI emission data loss

Dear Mr. Olson:

This letter is a follow up on the calls made to the VCAPCD Breakdown Center Hotline on July 31, 2015 by Victor Kumpera at 9:50 AM and by Jim Grimme at 3:50 PM.

On July 31, 2015 daily emission review, it was found that the stack NOX data was above 12 ppm for about 2 hours. During this period, the 3-hr stack NOX running average was below 12 ppm. Based on the investigation, the B&W boiler had intermittent loss of ammonia from 5:15 AM to 6:45 AM. The ammonia supplier (AirGas) was contacted immediately to investigate the ammonia system.

At about 1:30 PM, the ammonia control valve opened with no flow resulting to a spike on stack NOx. During troubleshooting, moisture was discovered in the ammonia control valve which caused valve shorting. The control valve electrical connections were dried out and cleaned immediately. At about 3:00 PM, the issue with ammonia loss was resolved, a total breakdown time of 3 hours. To prevent this incident from recurring, re-running new conduit to control valve was scheduled on the next maintenance shutdown.

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.

<p>Signature and Title of Responsible Official:</p> <p>Signature: <u>Gudy Belter</u></p> <p>Title: <u>Mill Manager</u></p>	<p>Date:</p> <p>8/5/2015</p>
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DAILY ENVIRONMENTAL REPORT

7/31/2015 7:00

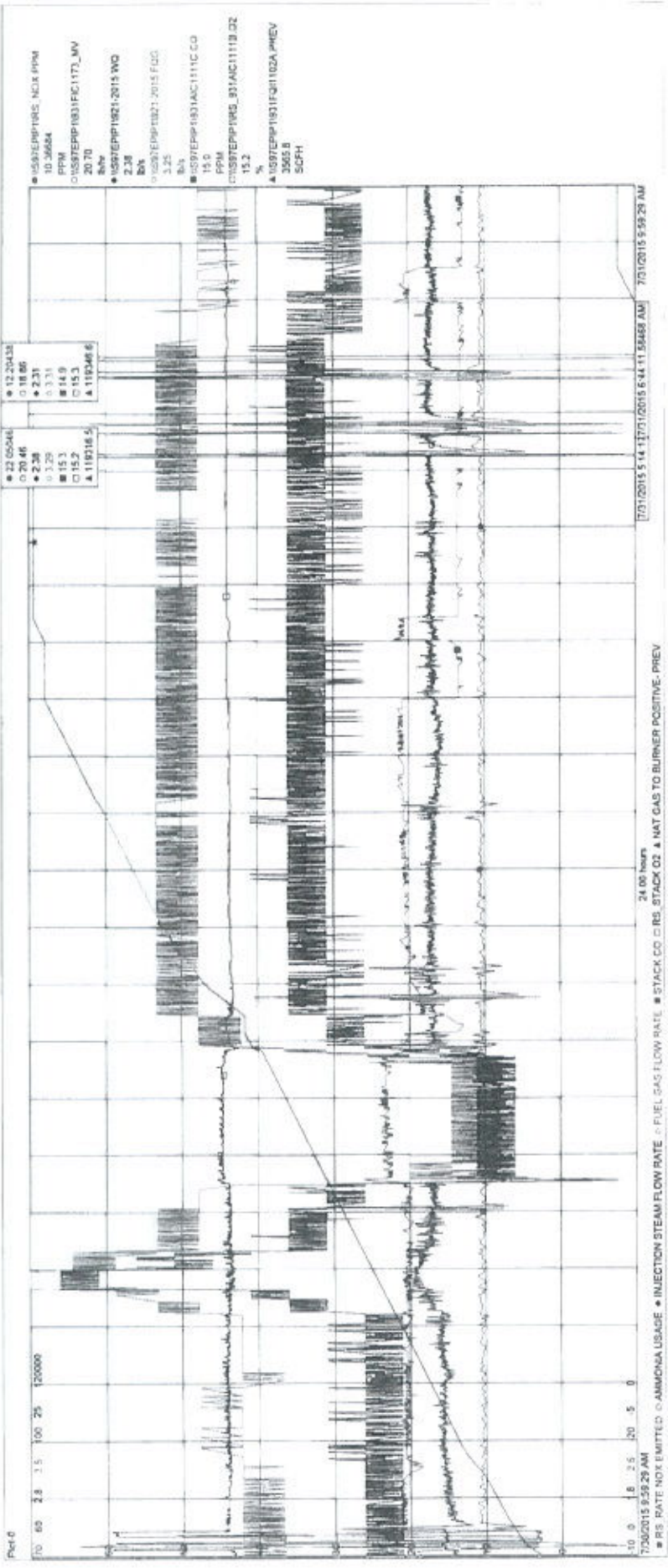
7/31/2015 7:00

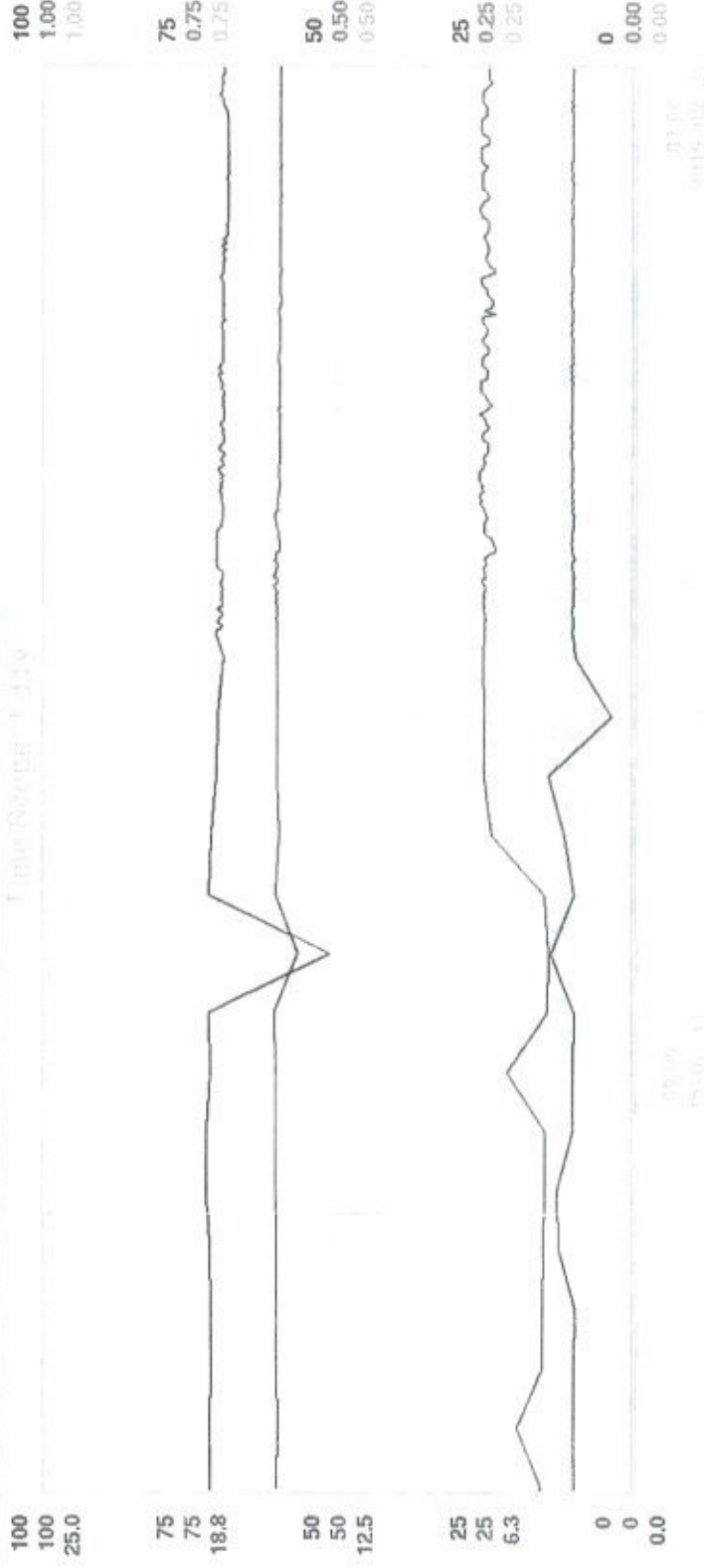
7/31/2015 7:00

Time	Dust burner gas flow MOCFH	Turbine gas flow MOCFH	SCR Temperature °F	SCR Inlet NOx ppm	Ammonia Usage Lbs	NH3/NOx mole ratio	Injection steam rate lb/h	Steam to Sub ratio	NOx lb/h	Stack CO %	Stack CO ppm	Stack CO2 %	Stack CO2 ppm	Stack NOx 15% O2 ppm	Stack NOx Average NOx	3h Flowing NOx	Hebraska O2 %	Hebraska NOx %	Hebraska Connected NOx (ppm) (3% O2)	Daily Air Cogen NOx lb/h	Daily Air Cogen NOx lb/h
8:00	6.57	232.17	614.80	57.06	13.70	0.77	2.91	0.71	9.12	15.69	38.32	20.34	18.50	19.41	19.41	25.13	-2.63				
9:00	8.23	246.80	624.46	69.01	17.09	0.77	2.13	0.71	8.89	15.29	39.45	20.45	19.53	19.45	19.45	25.13	-2.63				
10:00	3.62	257.30	622.27	68.99	18.89	0.76	2.22	0.70	10.02	15.26	20.80	12.26	18.50	18.52	18.52	25.07	-2.63				
11:00	8.60	257.42	629.41	69.26	18.52	0.75	2.22	0.70	10.39	15.24	27.46	16.12	18.58	18.57	18.57	25.05	3.88				
12:00	7.59	261.23	630.74	70.19	19.05	0.74	2.23	0.70	10.31	15.21	26.71	16.15	18.48	18.55	18.55	25.25	-0.88				
13:00	5.66	261.23	629.54	70.69	19.27	0.78	2.23	0.70	10.15	15.20	26.85	15.96	18.40	18.52	18.52	25.32	-0.88				
14:00	5.62	260.88	629.50	70.32	19.23	0.78	2.23	0.70	10.24	15.20	27.04	15.96	18.50	18.46	18.46	25.39	-1.17				
15:00	5.85	273.95	633.02	72.98	20.74	0.77	2.46	0.73	10.76	15.13	26.28	16.32	18.54	18.48	18.48	25.38	-1.88				
16:00	5.73	270.99	635.51	72.90	20.84	0.76	2.41	0.73	10.64	15.13	26.45	16.16	18.48	18.51	18.51	25.39	-1.77				
17:00	5.62	249.90	626.75	65.64	17.51	0.73	2.16	0.71	9.74	15.35	29.47	18.65	18.35	18.44	18.44	25.47	-1.88				
18:00	5.49	274.08	616.41	69.09	13.86	0.73	2.03	0.71	8.19	15.51	32.71	17.47	18.48	18.44	18.44	25.47	-1.88				
19:00	7.10	241.13	615.59	62.00	15.30	0.78	2.08	0.71	8.59	15.29	30.65	16.81	18.60	18.48	18.48	25.43	-1.88				
20:00	6.61	266.01	632.21	72.38	20.95	0.81	2.31	0.71	11.24	15.10	21.41	13.13	11.77	16.75	16.75	25.39	-1.52				
21:00	8.28	267.20	636.49	72.57	20.64	0.76	2.33	0.71	10.44	15.04	25.61	16.58	18.33	18.70	18.70	25.25	-0.81				
22:00	6.12	269.54	633.57	72.73	20.42	0.75	2.35	0.72	10.82	15.12	26.44	18.18	18.56	18.68	18.68	25.10	-0.81				
23:00	5.78	269.76	633.46	72.45	20.26	0.75	2.35	0.72	10.53	15.11	26.64	18.27	18.56	18.48	18.48	25.10	-0.81				
0:00	5.98	270.32	633.26	71.55	19.83	0.74	2.35	0.72	10.58	15.10	26.80	18.49	18.46	18.52	18.52	25.11	-0.81				
1:00	5.64	268.57	632.33	71.62	19.73	0.74	2.34	0.71	10.55	15.12	26.76	18.35	18.52	18.51	18.51	25.10	-0.75				
2:00	-0.02	268.51	629.11	72.39	20.33	0.77	2.34	0.71	10.31	15.22	15.88	9.47	18.48	18.48	18.48	25.18	-0.75				
3:00	2.25	268.45	627.62	72.33	20.27	0.78	2.34	0.72	10.41	15.17	20.24	12.28	18.50	18.50	18.50	25.13	-0.75				
4:00	0.02	266.96	625.55	71.81	20.25	0.78	2.33	0.71	10.19	15.21	15.88	9.44	18.42	18.47	18.47	25.17	-0.75				
5:00	0.02	266.91	625.45	71.89	20.22	0.78	2.33	0.71	10.28	15.23	15.85	9.40	18.53	18.48	18.48	25.33	-0.75				
6:00	0.02	269.34	625.62	72.55	21.39	0.74	2.34	0.71	12.03	15.22	15.89	9.40	18.53	11.07	11.07	25.22	-0.75				
7:00	0.02	269.48	625.73	72.48	20.68	0.74	2.34	0.72	12.55	15.22	15.45	9.39	12.63	11.62	11.62	25.05	-0.75				

Comments: The ammonia addback control went erratic at 6:12 a.m. Call to VCI&PCD was placed 7:56 and incident reported as a break down.

PRINT TIME: 7/31/2015 9:55 AM
NOTE: This document is valid for only ONE week after print time





ONName	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 2015-07-31	72.40	69.94	PPM			...
931AIC1111C.CO	B&W BLR STACK RAW CO	MV	Mom	06:00 2015-07-31	15.24	24.06	PPM			...
931AIC1111B.O2	B&W BLR RAW O2%	MV	Mean	06:00 2015-07-31	15.22	15.11	%			...
931AIC1111D.NOX	B&W BLR STACK NOX	MV	Mean	06:00 2015-07-31	12.72	10.28	PPM			...
931-AIC-1111.INCAL	RSM1 CEMS IN CAL	MV	Mom	06:00 2015-07-31	0	0				...
931-aic-1111.trb	RSM1 CEMS TROUBLE	MV	Mom	06:00 2015-07-31	0	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...



DAILY ENVIRONMENTAL REPORT

8/1/2015 7:30

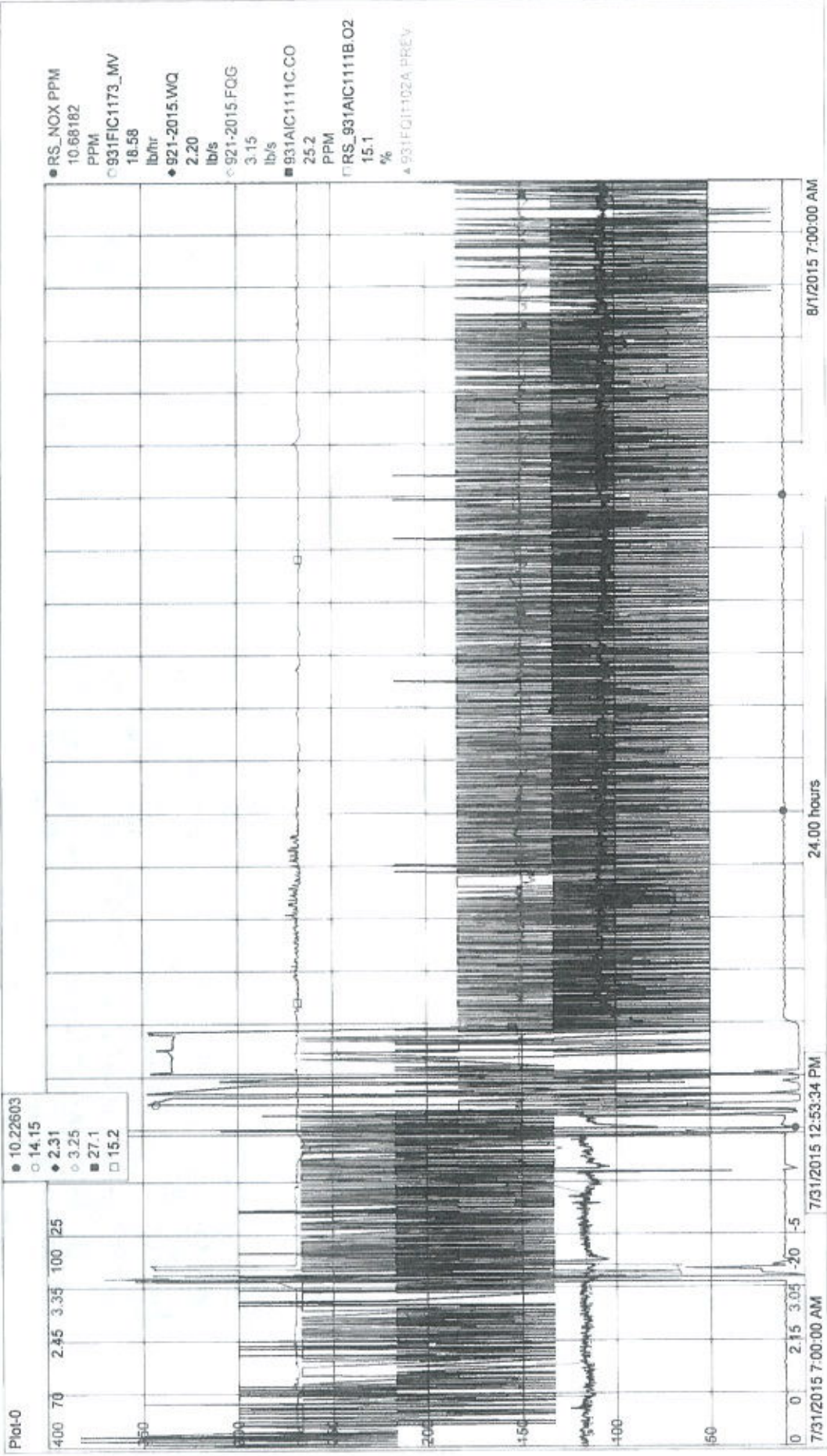
7/31/2015 7:00

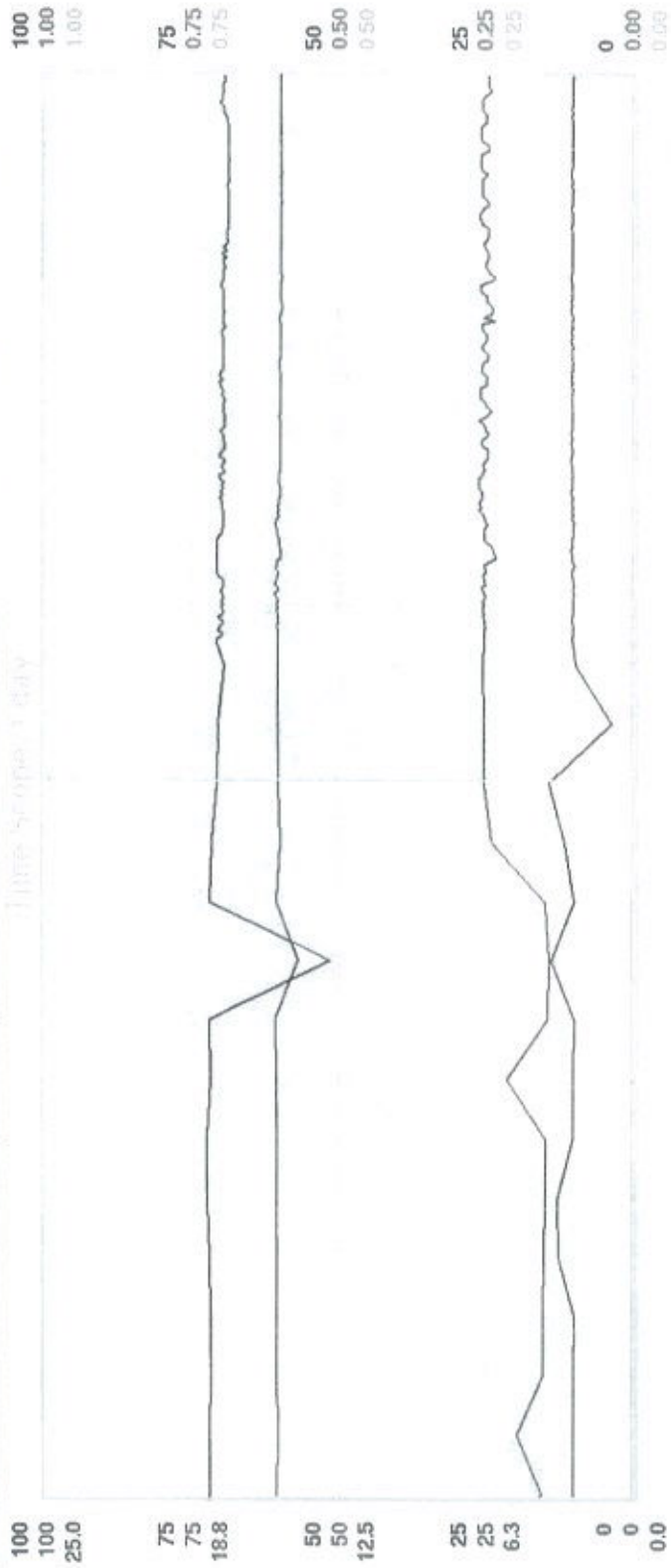
8/1/2015 7:30

Time	Duct burner gas flow MCF/HR	Turbine gas flow MCF/HR	SCR Temperature °F	SCR exit NOx ppm	Ammonia lb/h	NH3 MCH mole ratio	Injection rate lb/h	Steam to NH3 ratio	NOx lb/h	Stack NOx %	Stack CO ppm	Stack CO 19% O2 ppm	Stack CO 15% O2 lb/h	Stack NOx 15% O2 ppm	3h Running Average NOx	Nebraska O2 %	Nebraska NOx %	Nebraska Connected NOx (ppm)	Daily Av Copem NOx lb/h	Daily Av Copem/Hub	
																					Investigation on NH3 loss issue. At 1:30 PM, NH3 valve opened with no flow. Moisture present in control valve caused valve sticking. APCD notified at 3:50 PM by Jim Griesme.
8:00	0.34	287.37	625.69	72.47	20.54	0.78	2.32	0.71	10.26	15.21	16.09	8.45	10.47	11.80	25.14	-0.75					
9:00	3.05	265.35	625.23	72.21	20.31	0.77	2.30	0.71	10.35	15.22	21.26	12.85	10.50	11.22	25.33	-0.75					
10:00	0.04	260.16	625.53	72.38	20.43	0.79	2.29	0.71	10.23	15.29	15.22	8.97	10.50	10.49	25.42	-0.75					
11:00	0.04	260.66	625.44	71.97	20.31	0.79	2.29	0.71	10.44	15.21	15.46	8.17	10.86	10.96	25.49	-0.75					
12:00	0.55	264.81	625.42	72.02	20.40	0.79	2.28	0.71	10.25	15.23	16.48	8.78	10.54	10.97	25.50	-0.75					
13:00	11.84	264.01	624.75	71.85	20.51	0.72	2.28	0.71	13.13	15.09	24.20	14.82	13.46	11.55	25.37	-1.09					
14:00	5.05	261.57	631.33	71.03	35.75	1.38	2.25	0.71	13.99	15.17	26.22	15.82	13.89	13.96	25.55	-1.47					
15:00	5.70	260.93	630.84	70.80	32.82	2.09	2.25	0.71	9.84	15.16	26.74	15.51	10.42	9.41	25.51	-1.55					
16:00	5.60	250.29	630.80	69.99	18.42	0.73	2.22	0.70	10.18	15.17	26.15	15.40	10.50	8.34	25.39	-1.14					
17:00	5.80	259.52	631.02	70.38	18.99	0.75	2.22	0.70	10.33	15.17	25.85	15.33	10.51	10.48	25.29	-0.81					
18:00	7.21	260.71	631.99	70.65	19.07	0.75	2.22	0.70	10.31	15.14	26.19	15.66	10.66	10.52	25.37	-0.96					
19:00	7.02	260.03	633.09	70.26	18.90	0.75	2.22	0.70	10.35	15.14	25.82	15.32	10.53	10.54	25.37	-1.21					
20:00	8.04	260.03	632.50	70.16	18.78	0.74	2.22	0.70	10.30	15.07	25.67	15.23	10.48	10.53	25.35	-0.84					
21:00	8.01	260.25	632.57	70.21	18.78	0.74	2.22	0.70	10.30	15.07	25.67	15.23	10.48	10.53	25.26	-0.84					
22:00	8.54	250.98	632.53	69.87	18.61	0.73	2.22	0.70	10.26	15.05	25.13	15.84	10.46	10.49	25.20	-0.84					
23:00	8.52	260.20	633.07	69.91	18.68	0.72	2.22	0.70	10.29	15.05	25.20	15.85	10.46	10.46	25.12	-0.84					
0:00	8.27	260.25	633.18	69.33	18.41	0.73	2.22	0.71	10.38	15.05	25.64	15.30	10.54	10.48	25.04	-0.84					
1:00	8.09	260.15	632.52	69.01	18.31	0.73	2.22	0.71	10.32	15.05	25.84	15.47	10.54	10.51	25.00	-0.84					
2:00	8.44	259.40	632.02	69.70	18.66	0.73	2.22	0.71	10.37	15.06	25.22	15.19	10.58	10.55	24.83	-0.84					
3:00	8.84	259.35	634.05	69.07	18.64	0.74	2.22	0.70	10.35	15.05	24.62	14.87	10.51	10.54	24.81	-0.84					
4:00	8.89	257.13	632.78	69.68	18.46	0.73	2.22	0.71	10.26	15.03	24.78	14.64	10.50	10.53	24.85	-0.84					
5:00	10.00	256.61	632.77	69.88	18.58	0.73	2.22	0.71	10.21	15.06	24.90	14.81	10.45	10.45	25.12	-0.84					
6:00	9.31	256.44	632.66	70.14	18.78	0.73	2.22	0.71	10.20	15.06	24.87	14.82	10.45	10.41	25.27	-0.84					
7:00	8.86	256.56	632.00	69.65	18.61	0.75	2.21	0.70	10.23	15.09	24.89	14.74	10.51	10.41	25.28	-0.84					

Investigation on NH3 loss issue. At 1:30 PM, NH3 valve opened with no flow. Moisture present in control valve caused valve sticking. APCD notified at 3:50 PM by Jim Griesme.

PRINT TIME: 8/1/2015 9:57 AM
NOTE: This document is valid for only ONE week after print time





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	14:00 2015-07-31	71.08	69.94	PPM			
931AIC1111C.CO	B&W BLR STACK RAW CO	MV	Mom	14:00 2015-07-31	25.50	23.78	PPM			
931AIC1111B.O2	B&W BLR RAW O2%	MV	Mean	14:00 2015-07-31	15.15	15.10	%			
931AIC1111D.NOX	B&W BLR STACK NOX	MV	Mean	14:00 2015-07-31	14.39	10.58	PPM			
931-AIC-1111.INCAL	RSMT CEMS IN CAL	MV	Mom	14:00 2015-07-31	0	0				
931-aic-1111.trb	RSMT CEMS TROUBLE	MV	Mom	14:00 2015-07-31	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...



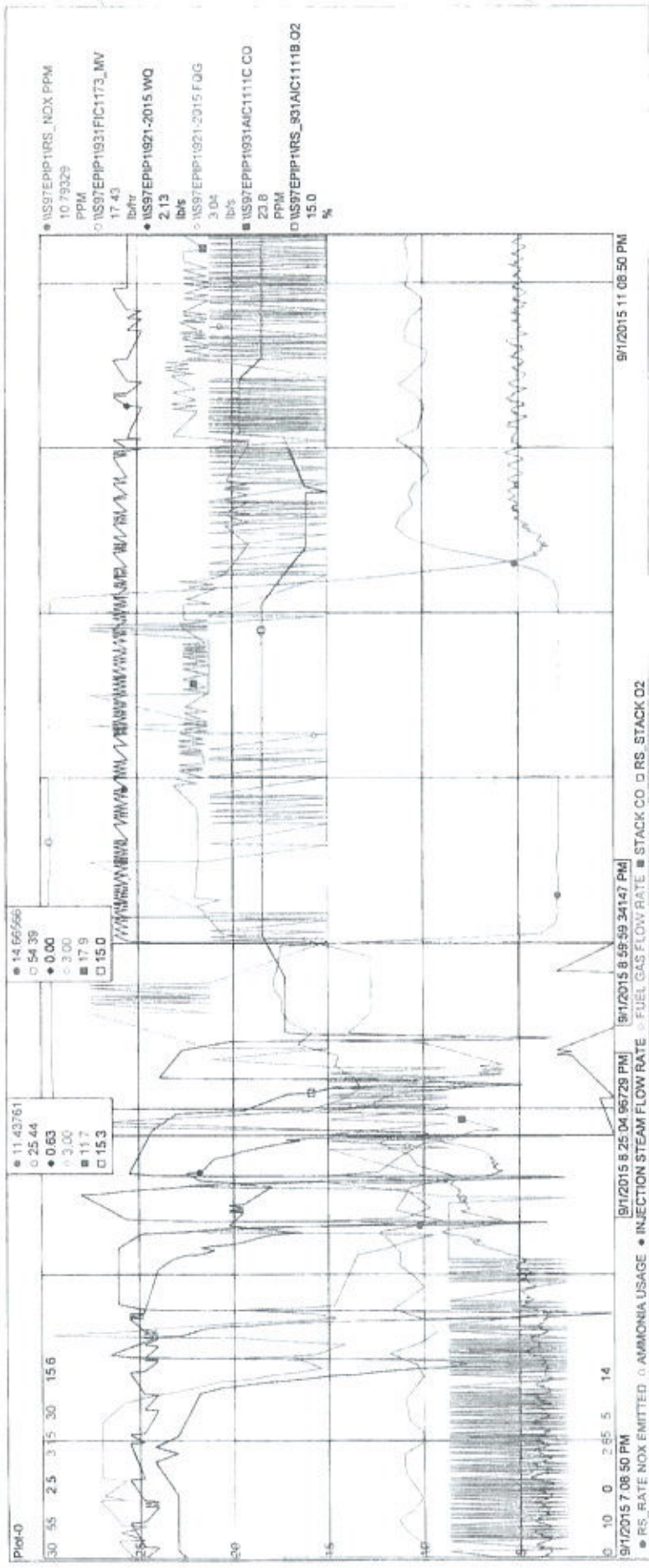
Hueneme Mill Environmental Incident Report

Shaded section to be completed by the EMR

Name of Incident loss of steam injection on LM2500		Incident Date 9/1/15	
Exact Location Incident Cogen Turbine			
Reported By Jim Grimme	Estimated Start and Stop Times of Incident: 20:29-21:04		Possible Cause: excessive steam flow to the paper machine
Incident Type: <input type="checkbox"/> Spill Internal <input type="checkbox"/> Spill External <input checked="" type="checkbox"/> Air Emission <input type="checkbox"/> _____	<input type="checkbox"/> Improper Waste Dispos <input type="checkbox"/> Near miss or below spill release Guidelines	Released To <input type="checkbox"/> Storm Water System <input type="checkbox"/> Process Sewer <input type="checkbox"/> Ground (External) <input type="checkbox"/> Near Mis <input checked="" type="checkbox"/> Secondary Containment <input checked="" type="checkbox"/> Air <input type="checkbox"/> Ground (Inside Mill Property) <input checked="" type="checkbox"/> Other _____	
Detailed Description of Event: During a paper grade change on the paper machine steam flow demand increased for B&W boiler, resulting in a drop in steam header pressure. This drop in pressure fell below the steam injection threshold that the MK V LM monitors to keep superheated steam injected into the hot section. The MK V controller shut off the steam injection to the turbine. The cogen mechanic to compensate loss of steam, increased the NH3 flow to aid in maintaining CNOX emission levels. Cogen mechanic also began to reestablish the steam injection once permissives were met by the MK V controller. The first attempt failed however, the second attempt was successful. The NH3 flow was run on manual for a 1 hour period after steam injection was returned to normal.			
<i>(if required use additional paper and attach)</i>			
Estimated Amount Released	pH	CONSISTENCY (%)	Estimated Monetary Loss
<input type="checkbox"/>			
List Any External Emergency Clean Up Personnel Contacted		List Any External Agencies Contacted (Agency, person and time of call.)	
List Hueneme Personnel Contacted (Foreman, Mill Manager, etc.) Jim Grimme, Charlie Wilson, Rudy Rehbein		Any Acute or Chronic Health Risks (refer to MSDS) N/A	
Describe Any Emergency Response Actions: NH3 was placed in manual and raised to 100%. Tie line was lowered to reduce NOX output.			
Suggestions to Prevent Reoccurrence			Estimated Completion Date
1. Investigate grade changes and steam flows demand- that resulted in bringing 450# header pressure down by Cogen supervisor and Paper Machine manager. Make recommended changes to transition to minimize loss of pressure.			1. 9/11/15
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 Jim Grimme		Investigated Date 9/2/15	
Follow Up	By When	Completion Date	By Whom

Print Time: 9/2/2015 11:54:39 AM

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



DAILY ENVIRONMENTAL REPORT

9/2/2015 7:00

Sheet 1 of 1

9/2/2015 7:00

Sheet 1 of 1

Time	Dust barrel		Turbine		SCR Temperature °F	SCR NOx ppm	Ammonia Usage lb/h	M-D NOx mode code	Injection stream rate lb/h	Steam to heat code	NOx lb/h	Stack CO ppm	Stack CO lb/h	Stack CO ppm	Stack CO lb/h	Stack CO ppm	Stack CO lb/h	3h Running Average NOx	Nebraska CO %	Nebraska NOx %	Nebraska Connected NOx (ppm) (3% O ₂)	Daily Av Cogen		Daily Av Cog-NOx	
	gas flow MSCFH	gas flow MSCFH	gas flow MSCFH	gas flow MSCFH																		lb/h	lb/h	lb/h	lb/h
8:00	12.24	240.22	633.41	606.52	15.85	0.70	2.08	0.71	9.68	15.32	24.61	13.91	16.46	16.46	16.46	16.46	16.46	16.46	25.70	0.38					
9:00	10.98	239.88	630.71	606.30	15.85	0.71	2.09	0.71	9.71	15.15	25.10	14.07	16.59	16.59	16.59	16.59	16.59	16.59	25.70	0.38					
10:00	11.10	240.74	631.19	606.64	15.93	0.71	2.09	0.71	9.66	15.15	25.10	14.07	16.59	16.59	16.59	16.59	16.59	16.59	25.70	0.38					
11:00	7.87	239.71	625.70	605.63	15.55	0.71	2.09	0.71	9.62	15.30	29.14	16.05	16.62	16.62	16.62	16.62	16.62	16.62	25.70	0.38					
12:00	5.74	239.01	625.35	605.29	15.54	0.72	2.06	0.71	9.39	15.31	28.89	15.93	16.48	16.48	16.48	16.48	16.48	16.48	25.70	0.38					
13:00	5.66	240.05	625.46	605.81	15.80	0.71	2.08	0.71	9.49	15.31	28.52	15.87	16.55	16.55	16.55	16.55	16.55	16.55	25.70	0.38					
14:00	5.63	238.57	625.44	605.45	15.65	0.72	2.05	0.71	9.34	15.31	28.81	15.76	16.45	16.45	16.45	16.45	16.45	16.45	25.70	0.38					
15:00	5.02	238.64	625.40	605.53	15.66	0.72	2.06	0.71	9.48	15.29	29.00	15.77	16.52	16.52	16.52	16.52	16.52	16.52	25.70	0.38					
16:00	5.77	240.22	629.93	608.48	16.04	0.73	2.07	0.71	9.48	15.25	28.67	15.67	16.52	16.52	16.52	16.52	16.52	16.52	25.70	0.38					
17:00	5.73	239.37	625.56	608.51	16.04	0.73	2.06	0.71	9.38	15.24	28.02	15.21	16.41	16.41	16.41	16.41	16.41	16.41	25.70	0.38					
18:00	5.68	238.57	625.44	608.20	15.87	0.73	2.06	0.71	9.33	15.24	28.18	15.35	16.45	16.45	16.45	16.45	16.45	16.45	25.70	0.38					
19:00	7.24	239.32	628.55	608.29	15.80	0.71	2.06	0.71	9.50	15.21	27.72	15.34	16.45	16.45	16.45	16.45	16.45	16.45	25.70	0.38					
20:00	10.28	239.18	628.52	608.40	15.80	0.71	2.06	0.71	9.56	15.17	24.84	13.82	16.34	16.34	16.34	16.34	16.34	16.34	25.70	0.38					
21:00	7.35	245.25	619.41	608.40	15.80	0.71	2.06	0.71	9.56	15.17	24.84	13.82	16.34	16.34	16.34	16.34	16.34	16.34	25.70	0.38					
22:00	12.11	250.81	640.61	624.34	39.48	1.26	0.74	0.95	12.95	15.11	14.67	8.46	15.20	15.20	15.20	15.20	15.20	15.20	25.70	0.38					
23:00	15.56	248.81	642.64	624.81	54.37	2.05	2.15	0.70	3.44	14.98	23.10	13.36	3.10	3.10	3.10	3.10	3.10	3.10	25.00	0.38					
0:00	14.32	249.74	639.48	624.81	20.81	0.81	2.14	0.70	8.69	14.95	22.49	13.15	9.23	9.23	9.23	9.23	9.23	9.23	25.68	0.38					
1:00	14.14	248.84	639.54	624.81	17.50	0.70	2.15	0.71	10.13	14.88	23.24	13.65	10.49	10.49	10.49	10.49	10.49	10.49	25.54	0.38					
2:00	14.16	251.44	640.54	624.81	18.22	0.72	2.16	0.70	10.29	14.90	23.32	13.70	10.49	10.49	10.49	10.49	10.49	10.49	25.48	0.38					
3:00	14.20	251.44	640.91	624.81	18.19	0.70	2.16	0.70	10.21	14.95	22.58	13.44	10.58	10.58	10.58	10.58	10.58	10.58	25.49	0.38					
4:00	14.28	251.37	640.87	624.81	18.18	0.71	2.16	0.71	10.18	14.92	22.54	13.34	10.48	10.48	10.48	10.48	10.48	10.48	25.49	0.38					
5:00	12.62	252.12	639.43	624.81	18.31	0.71	2.16	0.70	10.24	14.97	23.34	13.66	10.56	10.56	10.56	10.56	10.56	10.56	25.51	0.38					
6:00	11.83	251.55	638.00	624.81	18.29	0.72	2.16	0.70	10.00	15.00	23.18	13.68	10.35	10.35	10.35	10.35	10.35	10.35	25.62	0.38					
7:00	12.34	251.46	638.91	624.81	18.56	0.72	2.16	0.70	9.99	15.00	22.89	13.58	10.36	10.36	10.36	10.36	10.36	10.36	25.62	0.38					

Comment: Steam injection lost at 6:25 p.m.-7:00 pm for 35 min. The APCD called at 9:00 a.m. 9/2/2015 and reported as an industrial breakdown.

PRINT TIME: 9/2/2015 9:18 AM
NOTE: This document is valid for only ONE week after print time



Ventura County
Air Pollution
Control District

RESPONSIBLE OFFICIAL'S CERTIFICATION FORM

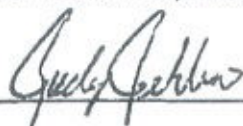
Ventura County APCD Rule 33.9 requires that "any document, including reports, schedule of compliance progress reports and compliance certifications, required by a Part 70 permit shall be certified by a responsible official." Therefore, this form shall be signed by the company's Responsible Official and 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>	9-4-2015
Title: <u>Mill Manager</u>	

NEW INDY
CONTAINERBOARD

September 4, 2015

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

Subject: PI emission data loss

Dear Mr. Olson:

This letter is a follow up on the calls made to the VCAPCD Breakdown Center Hotline on September 2, 2015 by Victor Kumpere at 9:00 AM.

September 1, 2015 at 8:25 p.m., during a paper grade change on the paper machine, the steam flow demand increased for the B&W boiler, resulting in a drop in steam header pressure. This drop in pressure fell below the steam injection threshold that the MK V LM monitors to keep superheated steam injected into the hot section. The MK V controller shut off the steam injection to the turbine. The Cogen mechanic, to compensate loss of steam, increased the NH3 flow to aid in maintaining CNOX emission levels. The Cogen mechanic also began to reestablish the steam injection once permissives were met by the MK V controller. The first attempt failed however, the second attempt was successful. The NH3 flow was run on manual for a 1 hour period after steam injection was returned to normal. There was no excess emission during the event.

The Daily Emission Sheet, PI trends, DCS trend, 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,



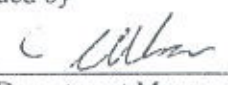
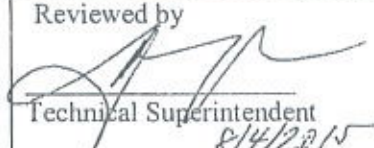
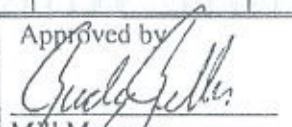
Victor Kumpere
Technical Manager

NEW INDY OXNARD, LLC

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

Hueneme Mill Environmental Incident Report

Shaded section to be completed by the EMR

Name of Incident Ammonia loss to B&W boiler		Incident Date 7/31/15	
Exact Location Incident Cogen Primary Boiler B&W			
Reported By Jim Grimme		Estimated Start and Stop Times of Incident: 0500-0700; 1330-1415	Possible Cause: NH3 loss to HRSG
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"/> _____		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 Other _____	
Detailed Description of Event: Loss of NH3 to B&W boiler caused NOx to spike out of 12.5 PPM in short intervals. Problem started at 5AM . We called Air Gas-NH3 supplier to investigate NH3 system. However, at 1:30 PM NH3 control valve opened with no flow. Our E&I department began to troubleshoot and discovered water in our control valve thus causing a short in the valve. APCD contacted Victor Kumpera- 1 st time – 9:50 AM APCD contacted Jim Grimme- 2 nd time- 3:50 PM (if required use additional paper and attach)			
Estimated Amount Released	pH	CONSISTENCY (%)	Estimated Monetary Loss
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
List Any External Emergency Clean Up Personnel Contacted		List Any External Agencies Contacted (Agency, person and time of call.)	
List Hueneme Personnel Contacted (Foreman, Mill Manager, etc.) Jim Grimme, Charlie Wilson, Rudy Rehbein		Any Acute or Chronic Health Risks (refer to MSDS) N/A	
Describe Any Emergency Response Actions: sand bags placed on perkens road			
Suggestions to Prevent Reoccurrence			Estimated Completion Date
1. re running conduit to control valve – next scheduled shut down.			1. 8/20/15
2. clean and dry out control valve electrical connections			2. 7/31/15
3.			3.
4.			4.
Root Cause after investigation		Severity Level (level 1 and 2 must be tracked through SHIMS)	
water in our control valve caused a short in the valve		<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	
Investigated By Jim Grimme		Investigated Date 7/31/15	
Follow Up	By When	Completion Date	By Whom
Issued by  Department Manager 8/3/15	Reviewed by  Technical Superintendent 8/4/2015	Approved by  Mill Manager 8/3/2015	

Print Time: 8/3/2015 8:29:11 AM

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

NIGHT SHIFT OPERATOR

DAY SHIFT OPERATOR

NAME: RO3

NAME: MY

PARAMETER	STEAM & WATER READINGS								GAS & ELECTRIC READINGS				BOILER TEST RESULTS		
	CONCENTRATE H ₂ O		PERMITS H ₂ O		TANK 1 & 2				HP	SOG LP	TURBINE	MAXON	DUCT BURNER	MEGAWAT	
	7.00	9.00	11.00	13.00	15.00	17.00	19.00	21.00	23.00	25.00	27.00	29.00	31.00	33.00	35.00
CURRENT PERIODS	5.023636	5.811848	2.598848	2.593633	1.76057	1.39153	1.970	1.396	8624780	9631160	806098	119351	87804	54586	
NEW DEMO TRAILER															
CHILLER HOURS: 80, 876, 52, 150 PACSETTER (ON) OFF ALARM: RED GREEN DUCT BURNER: 1900, 2100, 2300, 2500, 2700, 2900, 3100, 3300, 3500 TANK 1 FULL: 73-75 TANK 2 FULL: 75															
TURBINE Inlet Temp: 40, 44, 45.3, 45.6, 41.8, 37.7, 46, 48, 48, 47, 47, 46 Humidity: 60, 60, 61, 60, 60, 59, 61, 60, 60, 60, 60, 59 Vibration (Max): 3.8, 3.6, 3.14, 2.76, 2.34, 2.05, 3.0, 3.5, 3.7, 4.2, 4.4, 4.5 Steam Injection: 12, 12, 12, 11, 12, 11, 11, 11, 11, 11, 11, 11 Turbine L.O. Level: 2.05, 2.22, 2.30, 2.31, 2.57, 2.05, 2.2, 2.3, 2.3, 2.3, 2.3, 2.3 154: 9.8, 9.8, 9.8, 9.8, 9.8, 9.8, 9.8, 9.8, 9.8, 9.8, 9.8, 9.8															
GENERATOR GEN: 935 AMPS GEN VARS: 2.82 MEGA VARS GEN FIELD: 175 AMPS FIELD VOLTS: 153 V FIELD COOLING THW INLET: 70.9, 71.0, 71.0, 71.0, 71.0, 71.0, 71.0, 71.0, 71.0, 71.0, 71.0, 71.0 COOLING THW OUTLET: 70.9, 71.0, 71.0, 71.0, 71.0, 71.0, 71.0, 71.0, 71.0, 71.0, 71.0, 71.0 450 Header Temp: 710, 710, 710, 710, 710, 710, 710, 710, 710, 710, 710, 710 HP Drum Level: 0.6, 0.6, 0.6, 0.6, 0.6, 0.6, 0.6, 0.6, 0.6, 0.6, 0.6, 0.6 LP Drum Level: 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2 HP Drum Pressure: 4.73, 4.73, 4.73, 4.73, 4.73, 4.73, 4.73, 4.73, 4.73, 4.73, 4.73, 4.73 LP Drum Pressure: 1.57, 1.57, 1.57, 1.57, 1.57, 1.57, 1.57, 1.57, 1.57, 1.57, 1.57, 1.57 CO: 2.83, 2.83, 2.83, 2.83, 2.83, 2.83, 2.83, 2.83, 2.83, 2.83, 2.83, 2.83 NOx: 10.45, 10.4, 10.4, 10.4, 10.4, 10.4, 10.4, 10.4, 10.4, 10.4, 10.4, 10.4 O ₂ : 15.65, 15.17, 15.23, 15.13, 15.66, 15.5, 15.5, 15.5, 15.5, 15.5, 15.5, 15.5 H ₂ O Well Level: 12.5, 14.2, 15.4, 15.4, 15.4, 15.4, 15.4, 15.4, 15.4, 15.4, 15.4, 15.4 450 Header Temp: 710, 710, 710, 710, 710, 710, 710, 710, 710, 710, 710, 710 HP Drum Level: 0.6, 0.6, 0.6, 0.6, 0.6, 0.6, 0.6, 0.6, 0.6, 0.6, 0.6, 0.6 LP Drum Level: 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2 HP Drum Pressure: 4.73, 4.73, 4.73, 4.73, 4.73, 4.73, 4.73, 4.73, 4.73, 4.73, 4.73, 4.73 LP Drum Pressure: 1.57, 1.57, 1.57, 1.57, 1.57, 1.57, 1.57, 1.57, 1.57, 1.57, 1.57, 1.57 CO: 2.83, 2.83, 2.83, 2.83, 2.83, 2.83, 2.83, 2.83, 2.83, 2.83, 2.83, 2.83 NOx: 10.45, 10.4, 10.4, 10.4, 10.4, 10.4, 10.4, 10.4, 10.4, 10.4, 10.4, 10.4 O ₂ : 15.65, 15.17, 15.23, 15.13, 15.66, 15.5, 15.5, 15.5, 15.5, 15.5, 15.5, 15.5 H ₂ O Well Level: 12.5, 14.2, 15.4, 15.4, 15.4, 15.4, 15.4, 15.4, 15.4, 15.4, 15.4, 15.4 1150 SET POINT: 449 110.3 B SET POINT 444 DUCT BURNER: S/P 442															
COOLIN BOILER 450 Header Temp: 710, 710, 710, 710, 710, 710, 710, 710, 710, 710, 710, 710 HP Drum Level: 0.6, 0.6, 0.6, 0.6, 0.6, 0.6, 0.6, 0.6, 0.6, 0.6, 0.6, 0.6 LP Drum Level: 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2 HP Drum Pressure: 4.73, 4.73, 4.73, 4.73, 4.73, 4.73, 4.73, 4.73, 4.73, 4.73, 4.73, 4.73 LP Drum Pressure: 1.57, 1.57, 1.57, 1.57, 1.57, 1.57, 1.57, 1.57, 1.57, 1.57, 1.57, 1.57 CO: 2.83, 2.83, 2.83, 2.83, 2.83, 2.83, 2.83, 2.83, 2.83, 2.83, 2.83, 2.83 NOx: 10.45, 10.4, 10.4, 10.4, 10.4, 10.4, 10.4, 10.4, 10.4, 10.4, 10.4, 10.4 O ₂ : 15.65, 15.17, 15.23, 15.13, 15.66, 15.5, 15.5, 15.5, 15.5, 15.5, 15.5, 15.5 H ₂ O Well Level: 12.5, 14.2, 15.4, 15.4, 15.4, 15.4, 15.4, 15.4, 15.4, 15.4, 15.4, 15.4 1150 SET POINT: 449 110.3 B SET POINT 444 DUCT BURNER: S/P 442															
COMPRESSORS Filter Separator: 2.29, 2.29, 2.27, 2.27, 2.25, 2.29 Gas Receiver: 4.25, 4.25, 4.25, 4.25, 4.25, 4.25 Crankcase Oil Level: 1.00, 1.00, 1.00, 1.00, 1.00, 1.00 Frames Oil Pressure (25-50) PSI: 15.89, 12.60, 7 Temp cooling: 71, 71, 71, 71, 71, 71															

8-01 000-311 - 807-1



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 16, 2016**

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

Attn: Daniel Cho

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

Job No.: 23022

Lab No.: 216-021

Ken Kennepohl
Test Team Leader

Reviewed by:
Tom Porter

Submitted
April 5, 2016



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SUMMARY OF SOURCE TEST RESULTS

New Indy
Gas Turbine
Rosemount CEM
3/16/2016

CONSTITUENTS	Run 1	Run 2	Run 3	Average	Allowable
NOx, ppmv:	10.0	10.0	10.3	10.1	-
NOx ppmv @ 15 % O2:	9.5	9.4	9.7	9.6	12 ✓
NOx, lb/hr:	10.23	10.06	10.43	10.24	-
NOx, lb/MMBtu	0.0012	0.0012	0.0012	0.0012	-
CO, ppmv:	24.0	23.8	24.1	24.0	-
CO, ppmv @ 15% O2:	22.8	22.5	22.7	22.7	-
CO, lb/hr:	14.92	14.62	14.82	14.79	59.65 ✓
CO, lb/MMBtu	0.0017	0.0017	0.0017	0.0017	-
O2, %:	14.7	14.7	14.6	14.7	-
NH3, ppmv:	1.1	1.2	1.2	1.2	-
NH3, ppmv @ 15% O2:	1.1	1.2	1.1	1.1	20 ✓
Stack Flow:	142550	140995	140928	141491	-
Ammonia Injection Rate, lb/hr (avg):	17.94	18.84	18.43	18.40	-
Fuel Usage (Turbine & Duct), dscfm:	4627.8	4599.2	4619.2	4615.4	-
Turbine Load, MWh (avg):	23.64	23.78	23.90	23.77	-



New Indy
Turbine
3/16/2015

CEMS RATA
Calculations

Run	AIRx Testing - Reference Method		
	NOx ppmv @ 15% O2	O2 Dry %	CO ppmv @ 15% O2
1	9.5	14.7	23.0
2	9.6	14.7	22.7
3	9.6	14.7	22.9
4	9.5	14.7	22.3
5	9.3	14.7	22.6
6	9.4	14.6	22.6
7	9.8	14.7	22.8
8	9.7	14.6	22.2
9	9.7	14.7	23.2

Run	New Indy	CEMS	
	NOx ppmv @ 15%	O2 Dry %	CO ppmv @ 15%
1	10.5	14.5	24.2
2	10.6	14.5	23.9
3	10.5	14.4	24.2
4	10.4	14.5	23.7
5	10.6	14.6	24.1
6	10.6	14.6	24.3
7	10.5	14.6	24.4
8	10.4	14.6	24.0
9	10.5	14.7	24.7

Run	Reference Method - CEM, Difference		
	NOx ppmv @ 15%	O2 Dry %	CO ppmv @ 15%
1	-1.0	0.2	-1.2
2	-1.0	0.2	-1.3
3	-0.9	0.3	-1.3
4	-0.9	0.2	-1.4
5	-1.2	0.1	-1.5
6	-1.2	0.0	-1.7
7	-0.8	0.0	-1.6
8	-0.7	0.0	-1.8
9	-0.8	0.0	-1.5

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

-1.0	0.1	-1.5
0.2	0.1	0.2
0.1	0.1	0.1
9.6	14.7	22.7
11.4	1.3	7.1

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



<p style="text-align: center;">INTRODUCTION</p>
--



1.0 INTRODUCTION

On March 16, 2016 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 by New Indy personnel was turbine and duct burner fuel usage (mscfh), 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". 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. NO_x, CO and O₂ response times were conducted prior to the start of the testing.

CONTINUOUS MONITORS: NO_x, CO, and O₂ sampling utilized a stainless steel multi-point 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. Triplicate 96 minute 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 50 ppmv scale.

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



1.0 INTRODUCTION (cont)

CONTINUOUS MONITORS cont):

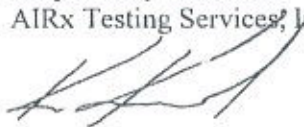
All monitored data was continuously recorded on a 10" analog chart recorder. Chart speed was maintained at 10 cm/hr. Analyzer output was also recorded with a PC based Data Acquisition System (DAS) and imported into spreadsheets for determination of average run concentrations.

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

AMMONIA: 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 (2) 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 a steel sampling probe. Analysis of the collected ammonia samples was performed by the AIRx Testing Services laboratory.

All reporting and calculations have been performed using 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 : 3/16/2016
 Job# : 23022
 Lab# : 216-021

FIELD DATA

Test Length 96 mins. Points 1 Minute

Standard Temperature: 68 ° F

Drift Corrected Emissions Data

	<i>Run #1</i>		<i>Run #2</i>		<i>Run #3</i>
Outlet					
NOx	10.0 ppm		10.0 ppm		10.3 ppm
O2	14.7 %		14.7 %		14.6 %
CO	24.0 ppm		23.8 ppm		24.1 ppm

Process Data

Exhaust Flow	142550 dscfm	140995 dscfm	140928 dscfm
F-Factor	8710 dscf/MMBtu	8710 dscf/MMBtu	8710 dscf/MMBtu

Equations used;

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

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

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

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

$$MW NO_x = 46; CO = 28$$

CALCULATED EMISSIONS

NOx	9.5 ppm @ 15% O2	9.4 ppm @ 15% O2	9.7 ppm @ 15% O2
	10.23 lb/hr	10.06 lb/hr	10.43 lb/hr
	0.0012 lb/MMBtu	0.0012 lb/MMBtu	0.0012 lb/MMBtu
CO	22.8 ppm @ 15% O2	22.5 ppm @ 15% O2	22.7 ppm @ 15% O2
	14.92 lb/hr	14.62 lb/hr	14.82 lb/hr
	0.0017 lb/MMBtu	0.0017 lb/MMBtu	0.0017 lb/MMBtu

Compliance Bias Adjustment

Facility: International Paper
 Source: Turbine
 Date: 03/16/16

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	10.0	11.9	0.0	-0.2	-0.1	11.9	12.0	11.9	10.0
O2	14.6	12.1	0.0	0.0	0.0	12.0	12.0	12.0	14.7
CO	24.0	20.0	0.0	0.0	0.0	20.0	19.9	20.0	24.0

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	10.0	11.9	-0.2	0.0	-0.1	12.0	11.9	11.9	10.0
O2	14.6	12.1	0.0	0.0	0.0	12.0	12.1	12.0	14.7
CO	23.7	20.0	0.0	0.0	0.0	19.9	19.9	19.9	23.8

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	10.3	11.9	0.0	0.0	0.0	11.9	11.9	11.9	10.3
O2	14.5	12.1	0.0	0.0	0.0	12.1	11.9	12.0	14.6
CO	24.2	20.0	0.0	0.0	0.0	19.9	20.2	20.0	24.1

RATA Bias Adjustment

Facility: New Indy
 Source: Turbine
 Date: 03/16/16

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	9.9	11.9	0.0	-0.2	-0.1	11.9	12.0	11.9	9.9
O2	14.6	12.1	0.0	0.0	0.0	12.0	12.0	12.0	14.7
CO	24.0	20.0	0.0	0.0	0.0	20.0	19.9	20.0	24.1

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	10.1	11.9	0.0	-0.2	-0.1	11.9	12.0	11.9	10.1
O2	14.6	12.1	0.0	0.0	0.0	12.0	12.0	12.0	14.7
CO	23.8	20.0	0.0	0.0	0.0	20.0	19.9	20.0	23.9

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	10.1	11.9	0.0	-0.2	-0.1	11.9	12.0	11.9	10.1
O2	14.6	12.1	0.0	0.0	0.0	12.0	12.0	12.0	14.7
CO	24.0	20.0	0.0	0.0	0.0	20.0	19.9	20.0	24.1

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	10.1	11.9	-0.2	0.0	-0.1	12.0	11.9	11.9	10.0
O2	14.6	12.1	0.0	0.0	0.0	12.0	12.1	12.0	14.7
CO	23.4	20.0	0.0	0.0	0.0	19.9	19.9	19.9	23.6

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	9.9	11.9	0.0	0.0	0.0	12.0	11.9	11.9	9.9
O2	14.6	12.1	0.0	0.0	0.0	12.0	12.1	12.0	14.7
CO	23.7	20.0	0.0	0.0	0.0	19.9	19.9	19.9	23.8

RATA Bias Adjustment

Facility: New Indy
 Source: Turbine
 Date: 03/16/16

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	10.0	11.9	0.0	0.0	0.0	12.0	11.9	11.9	9.9
O2	14.6	12.1	0.0	0.0	0.0	12.0	12.1	12.0	14.6
CO	23.9	20.0	0.0	0.0	0.0	19.9	19.9	19.9	24.0

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	10.3	11.9	0.0	0.0	0.0	11.9	11.9	11.9	10.3
O2	14.6	12.1	0.0	0.0	0.0	12.1	11.9	12.0	14.7
CO	24.2	20.0	0.0	0.0	0.0	19.9	20.2	20.0	24.1

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	10.4	11.9	0.0	0.0	0.0	11.9	11.9	11.9	10.4
O2	14.5	12.1	0.0	0.0	0.0	12.1	11.9	12.0	14.6
CO	23.8	20.0	0.0	0.0	0.0	19.9	20.2	20.0	23.8

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	11.9	0.0	0.0	0.0	11.9	12.0	11.9	10.2
O2	14.6	12.1	0.0	0.0	0.0	12.1	11.9	12.0	14.7
CO	24.6	20.0	0.0	0.0	0.0	19.9	20.2	20.0	24.5

FIELD DATA & CALCULATIONS SUMMARY

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

Date: **3/16/2016**
 Type: **T std = 68 °F**
 Run: **1-NH3**

Vm	Metered Sample Gas Volume	72.861	dcf		
Lp	Avg. Leak Rate	0.005	cf		
Vn	Leak Corrected Sample Gas Volume	72.861	dcf		
Y	Dry Gas Meter Calibration Factor	1.0104			
Pbar	Barometric Pressure	29.95	in. Hg		
del H	Dry Gas Meter Press. Differential, Average	1.7	in. H2O		
Tm	Dry Gas Meter Temperature, Average	70.5	°F	530.5	°R
Vm(std)	Sample Gas Volume	73.6366	dscf		
O2	Oxygen, Dry	14.7	%		
Theta	Sampling Time	96	min.		

CALCULATED EMISSION RESULTS

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

Date: **3/16/2016**
 Type: **T std = 68 °F**
 Run: **1-NH3**

AMMONIA AS NH3

Ws	Ammonia Weight	0.00172	g
Cs	Ammonia Emissions	0.00036	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: 3/25/2014
 Type: *T std = 68 °F*
 Run: 2-NH3

Vm	Metered Sample Gas Volume	74.953	dcf		
<i>Lp</i>	Avg. Leak Rate	0.002	cf		
<i>Vn</i>	Leak Corrected Sample Gas Volume	74.953	dcf		
Y	Dry Gas Meter Calibration Factor	1.0104			
Pbar	Barometric Pressure	29.97	in. Hg		
del H	Dry Gas Meter Press. Differential, Average	1.7	in. H2O		
Tm	Dry Gas Meter Temperature, Average	76.3	°F	536.3	°R
Vm(std)	Sample Gas Volume	74.9944	dscf		
O2	Oxygen, Dry	14.7	%		
Theta	Sampling Time	96	min.		

CALCULATED EMISSION RESULTS

Client: New Indy
 Site: Oxnard
 Unit: Turbine

Date: 3/25/2014
 Type: *T std = 68 °F*
 Run: 2-NH3

AMMONIA AS NH3

Ws	Ammonia Weight	0.00189	g
Cs	Ammonia Emissions	0.00039	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: **3/25/2014**
 Type: **T std = 68 °F**
 Run: **3-NH3**

Vm	Metered Sample Gas Volume	73.978	dcf		
Lp	Avg. Leak Rate	0.001	cf		
Vn	Leak Corrected Sample Gas Volume	73.978	dcf		
Y	Dry Gas Meter Calibration Factor	1.0104			
Pbar	Barometric Pressure	29.96	in. Hg		
del H	Dry Gas Meter Press. Differential, Average	1.7	in. H2O		
Tm	Dry Gas Meter Temperature, Average	80.3	°F	540.3	°R
Vm(std)	Sample Gas Volume	73.4407	dscf		
O2	Oxygen, Dry	14.6	%		
Theta	Sampling Time	96	min.		

CALCULATED EMISSION RESULTS

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

Date: **3/25/2014**
 Type: **T std = 68 °F**
 Run: **3-NH3**

AMMONIA AS NH3

Ws	Ammonia Weight	0.00181	g
Cs	Ammonia Emissions	0.00038	grain/dscf
	Ammonia Concentration	1.2	ppmv
	Ammonia Concentration	1.1	ppmv @ 15% O2

"F" FACTOR EXHAUST GAS FLOWRATE CALCULATION

Client : New Indy
Site : Oxnard
Unit : Turbine

Date : 3/16/2016
Job# : 23022
Lab# : 216-021

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

Standard Temperature, T std: 68 deg. F

	<i>Run 1</i>	<i>Run 2</i>	<i>Run 3</i>
Oxygen, % (avg)	14.7	14.7	14.6
Fuel Usage, dscfm (avg)	4627.8	4599.2	4619.2
MMBTU/min	4.8592	4.8292	4.8502
Flowrate ("F" Factor), dscfm	142550	140995	140928

formulae:

MMBTU/min = (Fuel Usage * 1050 Btu/ft³)/10⁶

Flowrate ("F" Factor) = "F" Factor * MMBTU/min * (20.0/(20.9-O₂))

LABORATORY ANALYSIS



AMMONIA ANALYSIS
BAAQMD Method ST-1B

Client: New Indy
Site: Oxnard
Unit: Turbine

Analysis Date: 3/16/2016
Lab: 216-021

Run#:	Sample Volume (ml)	Aliquot Volume (ml)	Reading ug/ml	Dilution
<u>R1</u>	<u>332</u>	<u>49</u>	<u>4.87</u>	<u>1</u>
	Total NH3 mg/sample		<u>1.72</u>	
<u>R-2</u>	<u>326</u>	<u>49</u>	<u>5.39</u>	<u>1</u>
	Total NH3 mg/sample		<u>1.89</u>	
<u>R-3</u>	<u>326</u>	<u>49</u>	<u>5.18</u>	<u>1</u>
	Total NH3 mg/sample		<u>1.81</u>	
<u>Run # R1 (Duplicate)</u>	<u>332</u>	<u>49</u>	<u>4.95</u>	<u>1</u>
	Total NH3 mg/sample		<u>1.75</u>	
<u>0.1 N HCL Blank</u>	<u>500</u>	<u>49</u>	<u>0.70</u>	<u>1</u>
<u>Run #: R-1</u>	<u>332</u>	<u>48</u>	<u>5.70</u>	<u>1</u>
Spike (1 ug/ml)	Theoretical Value =		<u>5.77</u>	(ug/ml)
% Recovery			<u>98.8</u>	%
Total NH3 mg/sample = (ug/ml-HCl blank)*60.71*Dilution*Sample Vol/(Aliquot*1000)				
Analyst:	<u>Wesley Hart</u>			



BAAQMD METHOD ST-1B
AMMONIA

Client: NEW INDY
Site: OXNARD, CA
Unit: TURBINE

Date: 03-18-16
Lab: 216-021

Run#:	Sample Volume (ml)	Aliquot Volume (ml)	Reading ug/ml	Dilution
<u>NH3-1</u>	<u>332</u>	<u>49</u>	<u>4.87</u>	<u>1</u>
	Sample Volume (ml)	Aliquot Volume (ml)	Reading ug/ml	
Run#: <u>NH3-2</u>	<u>376</u>	<u>49</u>	<u>5.39</u>	<u>1</u>
	Sample Volume (ml)	Aliquot Volume (ml)	Reading ug/ml	
Run#: <u>NH3-3</u>	<u>376</u>	<u>49</u>	<u>5.10</u>	<u>1</u>
	Sample Volume (ml)	Aliquot Volume (ml)	Reading ug/ml	
Run #: <u>NH3-1</u> Duplicate	<u>332</u>	<u>49</u>	<u>4.95</u>	<u>1</u>
	Sample Volume (ml)	Aliquot Volume (ml)	Reading ug/ml	
0.1 N HCl Blank	<u>500</u>	<u>49</u>	<u>0.70</u>	<u>1</u>
	Sample Volume (ml)	Aliquot Volume (ml)	Reading ug/ml	
Run #: <u>NH3-1</u>	<u>332</u>	<u>48</u>	<u>5.70</u>	<u>1</u>
	Sample Volume (ml)	Aliquot Volume (ml)	Reading ug/ml	
Spike (1 ug/ml)	Theoretical =	<u>5.77</u>	(ug/ml)	
Analyst: <u>[Signature]</u>			Date: <u>03-18-16</u>	

FIELD DATA & STRIP CHARTS

EMISSIONS TEST - CARB 100

Date: 3/16/2016

**** Test Information ****

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

**** Personnel ****

AIRx: KK/JT
 Client: RL
 APCD: DC

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:	7:00 AM	29.95	68		Clear	
Depart:	3:30 PM	29.97	71		Clear	

**** Instrument Information ****

Instrument	"On"	Unit#	Make/Model
O2:	1	10	Servomex
CO:	1	3	API 300EM
NOx:	1	1	API 200EH

Recorder: Soltech 10 cm/hr

**** Calibration Information ****

	Units	Zero	Span	Range	Gas Cyl.#	Gas Flow
O2:	%	0	12.1	25	CC90061	0.8
O2:	%	0	19.9	25	ALM025184	0.8
CO:	ppmv	0	20.0	50	CC99308	1
CO:	ppmv	0	39.7	50	CC15628	1
NOx:	ppmv	0	11.9	25	CC30477	1
NOx:	ppmv	0	19.9	25	CC78730	1
NO2:	ppmv	0	19.8	25	CC322086	1

**** Recorder Information ****

		Chanl.	Pen Type	Color
O2:	%	2	Cont.	Green
CO:	ppmv	1	Cont.	Blue
NOx:	ppmv	3	Cont.	Brown

CLIENT:
PLANT:
DATE:
ENGINEER:

New Indv
Oxnard
3/16/2016
KK/JT

JOB#
RUN#
RUN START:

216-021
Compliance R1
8:46 AM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
10.0	24.0	14.6	9.4	22.4	Averages
10.1	23.6	14.6	9.5	22.2	8:46
10.2	23.6	14.6	9.6	22.0	8:47
10.1	23.4	14.6	9.4	21.9	8:48
9.9	23.5	14.6	9.2	22.0	8:49
9.8	23.6	14.6	9.2	22.1	8:50
9.9	23.8	14.6	9.3	22.4	8:51
9.9	23.6	14.6	9.2	22.1	8:52
10.1	23.6	14.6	9.5	22.2	8:53
9.6	24.1	14.7	9.1	22.8	8:54
9.7	24.3	14.6	9.1	22.9	8:55
9.9	24.2	14.6	9.3	22.9	8:56
9.8	24.3	14.6	9.2	22.9	8:57
9.9	23.9	14.6	9.3	22.4	8:58
9.9	23.7	14.6	9.2	22.2	8:59
9.9	23.7	14.6	9.2	22.1	9:00
9.9	23.6	14.6	9.2	22.1	9:01
9.8	23.9	14.6	9.2	22.4	9:02
10.0	23.9	14.6	9.3	22.4	9:03
10.2	24.0	14.6	9.6	22.5	9:04
9.9	24.3	14.6	9.3	22.9	9:05
9.9	24.6	14.6	9.3	23.2	9:06
10.0	24.4	14.6	9.4	23.0	9:07
9.8	24.4	14.6	9.2	23.0	9:08
10.0	24.5	14.6	9.4	23.1	9:09
10.0	24.4	14.6	9.4	23.0	9:10
9.7	24.5	14.6	9.2	23.0	9:11
10.0	24.3	14.6	9.4	22.8	9:12
10.0	24.1	14.6	9.4	22.7	9:13
9.7	24.2	14.6	9.1	22.7	9:14
10.1	24.1	14.6	9.4	22.6	9:15
9.8	24.1	14.6	9.2	22.6	9:16
9.9	24.0	14.6	9.3	22.4	9:17
9.9	23.9	14.6	9.3	22.3	9:18
9.9	23.9	14.6	9.3	22.3	9:19
9.8	23.7	14.6	9.2	22.1	9:20
10.0	23.4	14.5	9.2	21.7	9:21
10.1	23.5	14.6	9.4	21.8	9:22
10.0	23.5	14.6	9.3	21.8	9:23
10.2	23.5	14.6	9.5	21.8	9:24
10.1	23.4	14.5	9.4	21.7	9:25
10.2	23.4	14.5	9.5	21.7	9:26
10.0	23.7	14.6	9.3	22.0	9:27
10.1	23.9	14.6	9.4	22.4	9:28
10.0	24.0	14.6	9.3	22.4	9:29
10.2	24.0	14.6	9.6	22.5	9:30
10.0	24.1	14.6	9.3	22.4	9:31
10.2	23.8	14.6	9.5	22.2	9:32
9.8	24.0	14.6	9.2	22.5	9:33
10.2	24.4	14.6	9.6	22.9	9:34
9.8	24.4	14.6	9.2	22.9	9:35
10.4	24.0	14.6	9.6	22.4	9:36
10.2	24.4	14.6	9.6	22.9	9:37
9.9	23.7	14.6	9.2	22.0	9:38
10.1	23.5	14.6	9.4	21.8	9:39
10.1	23.5	14.5	9.4	21.8	9:40
10.0	23.5	14.6	9.3	21.8	9:41
10.2	23.6	14.6	9.5	21.9	9:42
10.3	23.7	14.6	9.6	22.0	9:43
10.4	23.8	14.6	9.7	22.2	9:44
10.1	24.0	14.6	9.5	22.4	9:45
10.2	24.3	14.6	9.6	22.9	9:46
10.2	24.4	14.6	9.6	22.9	9:47
9.9	24.4	14.6	9.3	22.9	9:48
10.2	24.1	14.6	9.5	22.4	9:49
10.2	23.6	14.6	9.6	22.1	9:50
9.9	24.1	14.6	9.2	22.5	9:51
10.3	24.1	14.6	9.6	22.5	9:52
9.9	23.8	14.6	9.2	22.2	9:53
10.2	23.7	14.6	9.5	22.1	9:54
10.1	23.8	14.6	9.4	22.1	9:55
10.2	24.0	14.6	9.5	22.4	9:56
10.2	24.3	14.6	9.5	22.7	9:57
9.9	24.3	14.6	9.2	22.8	9:58
10.3	24.1	14.6	9.6	22.5	9:59
10.1	24.0	14.6	9.4	22.3	10:00
10.0	24.0	14.6	9.4	22.4	10:01
10.2	24.1	14.6	9.5	22.6	10:02
9.9	23.9	14.6	9.2	22.2	10:03
10.0	23.7	14.6	9.4	22.1	10:04
10.0	24.0	14.6	9.4	22.5	10:05
10.2	24.3	14.6	9.5	22.7	10:06
9.8	24.2	14.6	9.2	22.7	10:07
10.0	24.3	14.6	9.3	22.7	10:08
10.0	24.1	14.6	9.4	22.5	10:09
9.8	24.1	14.6	9.2	22.6	10:10
10.2	24.1	14.6	9.6	22.6	10:11
9.9	23.9	14.6	9.3	22.3	10:12
10.2	23.9	14.6	9.5	22.3	10:13
10.1	23.8	14.6	9.4	22.1	10:14
10.0	23.8	14.6	9.3	22.1	10:15
10.1	23.9	14.6	9.4	22.3	10:16
10.0	24.0	14.6	9.3	22.4	10:17
10.1	24.4	14.6	9.5	22.9	10:18
10.2	24.5	14.6	9.6	23.0	10:19
9.9	24.4	14.6	9.3	22.9	10:20
9.9	24.4	14.6	9.3	22.9	10:21

CLIENT:
PLANT:
DATE:
ENGINEER:

New Ind
Oxnard
3/16/2016
KK/JT

JOB#
RUN#
RUN START:

216-021
Compliance R2
10:46 AM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	Averages
10.0	23.7	14.6	9.3	22.1	
10.2	23.4	14.6	9.5	21.8	10:46
10.1	23.5	14.6	9.4	21.8	10:47
10.1	23.4	14.6	9.4	21.8	10:48
10.0	23.6	14.6	9.4	22.0	10:49
10.0	23.9	14.6	9.4	22.4	10:50
10.4	23.8	14.6	9.7	22.3	10:51
10.2	23.7	14.6	9.5	22.2	10:52
10.0	23.6	14.6	9.4	22.0	10:53
10.1	23.9	14.6	9.5	22.5	10:54
10.3	24.1	14.6	9.6	22.6	10:55
10.2	23.8	14.6	9.6	22.2	10:56
10.1	23.3	14.6	9.5	21.8	10:57
10.1	23.2	14.6	9.5	21.6	10:58
10.1	23.3	14.6	9.4	21.8	10:59
10.2	23.1	14.6	9.5	21.6	11:00
10.1	23.0	14.6	9.5	21.5	11:01
10.2	23.0	14.6	9.5	21.5	11:02
10.3	22.9	14.6	9.6	21.4	11:03
10.2	23.1	14.6	9.5	21.6	11:04
10.2	23.1	14.6	9.6	21.6	11:05
10.1	23.4	14.6	9.4	21.9	11:06
10.1	23.5	14.6	9.5	22.0	11:07
10.1	23.5	14.6	9.5	22.0	11:08
9.8	23.3	14.6	9.2	21.9	11:09
9.8	23.5	14.6	9.2	22.1	11:10
9.9	23.8	14.6	9.3	22.3	11:11
9.7	23.6	14.6	9.1	22.0	11:12
9.7	23.4	14.6	9.1	21.8	11:13
9.8	23.4	14.6	9.1	21.8	11:14
9.9	23.4	14.6	9.3	21.7	11:15
10.1	23.3	14.6	9.4	21.7	11:16
9.9	23.4	14.6	9.2	21.7	11:17
10.0	23.5	14.6	9.4	21.9	11:18
10.0	23.5	14.6	9.3	21.9	11:19
10.1	23.4	14.6	9.4	21.8	11:20
9.8	23.4	14.6	9.1	21.8	11:21
10.0	23.7	14.6	9.3	22.2	11:22
9.7	23.8	14.6	9.1	22.2	11:23
9.9	23.6	14.6	9.3	22.1	11:24
9.9	23.9	14.6	9.3	22.4	11:25
10.0	24.0	14.6	9.4	22.5	11:26
10.0	23.8	14.6	9.3	22.3	11:27
9.9	23.8	14.6	9.3	22.3	11:28
9.7	23.8	14.6	9.1	22.3	11:29
10.0	23.8	14.6	9.4	22.4	11:30
10.0	23.9	14.6	9.4	22.5	11:31
9.7	23.9	14.6	9.1	22.5	11:32
9.8	23.9	14.6	9.2	22.4	11:33
9.8	23.7	14.6	9.2	22.2	11:34
9.9	23.7	14.6	9.3	22.1	11:35
10.0	23.7	14.6	9.3	22.2	11:36
10.0	23.7	14.6	9.3	22.2	11:37
10.0	23.7	14.6	9.3	22.2	11:38
9.9	23.8	14.6	9.2	22.2	11:39
9.9	23.7	14.6	9.2	22.1	11:40
10.0	23.7	14.6	9.3	22.1	11:41
9.7	23.6	14.6	9.1	22.1	11:42
10.0	23.7	14.6	9.3	22.0	11:43
9.8	23.4	14.6	9.1	21.7	11:44
10.0	23.6	14.6	9.3	21.9	11:45
9.6	23.7	14.6	8.9	22.0	11:46
10.1	23.6	14.6	9.4	21.9	11:47
9.9	23.8	14.6	9.2	22.1	11:48
9.8	23.9	14.6	9.1	22.3	11:49
9.9	24.0	14.6	9.3	22.3	11:50
9.8	24.0	14.6	9.1	22.3	11:51
9.9	24.0	14.6	9.3	22.4	11:52
9.9	24.0	14.6	9.3	22.4	11:53
9.8	24.0	14.6	9.1	22.4	11:54
9.9	24.0	14.6	9.2	22.3	11:55
9.8	24.0	14.6	9.2	22.4	11:56
9.6	24.0	14.6	9.0	22.3	11:57
9.8	24.1	14.6	9.2	22.5	11:58
9.6	24.2	14.6	9.0	22.6	11:59
9.8	24.1	14.6	9.2	22.5	12:00
9.8	24.0	14.6	9.2	22.4	12:01
9.7	24.0	14.6	9.0	22.4	12:02
9.9	23.8	14.6	9.2	22.2	12:03
9.8	23.8	14.6	9.1	22.1	12:04
9.8	23.8	14.6	9.1	22.1	12:05
10.1	23.8	14.6	9.4	22.2	12:06
10.1	23.8	14.5	9.4	22.1	12:07
10.1	23.7	14.5	9.4	22.0	12:08
10.1	23.6	14.5	9.4	21.9	12:09
10.0	23.5	14.5	9.3	21.8	12:10
10.2	23.5	14.5	9.4	21.8	12:11
10.1	23.6	14.5	9.4	21.8	12:12
10.1	23.7	14.5	9.4	21.9	12:13
10.3	24.1	14.6	9.6	22.4	12:14
10.4	24.1	14.5	9.7	22.3	12:15
10.4	23.9	14.6	9.6	22.2	12:16
10.1	23.9	14.5	9.4	22.1	12:17
10.2	23.7	14.5	9.5	21.9	12:18
10.2	23.7	14.6	9.5	22.0	12:19
10.1	24.0	14.6	9.4	22.3	12:20
10.1	24.2	14.6	9.4	22.5	12:21
10.0	24.2	14.6	9.3	22.6	12:22

CLIENT:
PLANT:
DATE:
ENGINEER:

New Indv
Oxnard
3/16/2016
KK/JT

JOB#
RUN#
RUN START:

216-021
Compliance R3
12:36 PM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	Averages
10.3	24.2	14.5	9.6	22.4	
10.3	24.0	14.6	9.6	22.3	12:36
10.5	24.1	14.6	9.8	22.4	12:37
10.4	24.2	14.6	9.6	22.5	12:38
10.4	24.2	14.6	9.6	22.5	12:39
10.1	24.1	14.6	9.4	22.4	12:40
10.3	24.0	14.6	9.6	22.4	12:41
10.3	24.2	14.6	9.6	22.5	12:42
10.2	24.3	14.6	9.5	22.6	12:43
10.5	24.3	14.6	9.8	22.6	12:44
10.5	24.4	14.6	9.7	22.6	12:45
10.6	24.2	14.5	9.8	22.5	12:46
10.5	24.2	14.6	9.8	22.5	12:47
10.2	24.3	14.6	9.5	22.6	12:48
10.2	24.4	14.6	9.5	22.8	12:49
10.2	24.4	14.6	9.6	22.8	12:50
10.3	24.3	14.6	9.6	22.7	12:51
10.4	24.3	14.6	9.7	22.7	12:52
10.5	24.2	14.6	9.8	22.6	12:53
10.5	23.9	14.6	9.7	22.2	12:54
10.3	23.9	14.6	9.5	22.2	12:55
10.2	24.0	14.6	9.5	22.2	12:56
10.4	24.2	14.5	9.6	22.5	12:57
10.4	24.1	14.5	9.7	22.3	12:58
10.3	24.1	14.5	9.5	22.3	12:59
10.4	24.0	14.5	9.6	22.3	13:00
10.4	24.1	14.5	9.7	22.3	13:01
10.5	24.1	14.5	9.7	22.3	13:02
10.3	24.1	14.5	9.5	22.4	13:03
10.4	24.2	14.5	9.6	22.5	13:04
10.3	24.2	14.5	9.6	22.4	13:05
10.3	24.2	14.5	9.5	22.4	13:06
10.3	24.2	14.5	9.6	22.4	13:07
10.4	24.2	14.5	9.6	22.4	13:08
10.3	24.2	14.6	9.6	22.5	13:09
10.2	24.2	14.5	9.5	22.4	13:10
10.4	24.2	14.5	9.7	22.4	13:11
10.3	24.2	14.5	9.6	22.5	13:12
10.5	24.1	14.5	9.7	22.3	13:13
10.6	23.8	14.5	9.8	22.0	13:14
10.4	23.8	14.5	9.6	22.0	13:15
10.4	23.8	14.5	9.5	21.9	13:16
10.5	23.6	14.5	9.7	21.7	13:17
10.5	23.5	14.5	9.6	21.6	13:18
10.4	23.3	14.5	9.6	21.3	13:19
10.6	23.2	14.4	9.6	21.1	13:20
10.6	23.0	14.4	9.7	21.0	13:21
10.4	22.8	14.4	9.4	20.8	13:22
10.9	22.8	14.4	9.9	20.7	13:23
10.5	22.8	14.4	9.5	20.7	13:24
10.6	22.8	14.4	9.6	20.7	13:25
10.3	23.3	14.5	9.5	21.3	13:26
10.6	23.5	14.5	9.7	21.5	13:27
10.5	23.7	14.5	9.6	21.7	13:28
10.5	23.7	14.5	9.6	21.7	13:29
10.6	23.7	14.5	9.8	21.8	13:30
10.3	24.0	14.5	9.5	22.1	13:31
10.4	24.0	14.5	9.6	22.1	13:32
10.5	24.0	14.5	9.7	22.2	13:33
10.2	24.3	14.5	9.5	22.5	13:34
10.3	24.5	14.5	9.6	22.7	13:35
10.2	24.3	14.5	9.5	22.5	13:36
10.2	24.3	14.5	9.5	22.5	13:37
10.4	24.5	14.5	9.5	22.6	13:38
10.3	24.3	14.5	9.7	22.7	13:39
10.2	24.3	14.5	9.5	22.5	13:40
10.4	24.3	14.5	9.4	22.6	13:41
10.4	24.6	14.6	9.6	22.8	13:42
10.2	24.7	14.6	9.5	23.0	13:43
10.4	24.7	14.6	9.7	22.9	13:44
10.3	24.7	14.6	9.6	23.1	13:45
10.4	24.8	14.6	9.7	23.1	13:46
10.2	24.7	14.6	9.5	23.0	13:47
10.1	24.6	14.6	9.4	22.9	13:48
10.3	24.4	14.6	9.6	22.7	13:49
10.2	24.4	14.6	9.5	22.7	13:50
10.4	24.5	14.6	9.7	22.8	13:51
10.4	24.5	14.6	9.7	22.8	13:52
10.3	24.6	14.6	9.6	23.0	13:53
10.3	24.3	14.6	9.6	22.8	13:54
10.5	24.6	14.6	9.8	22.9	13:55
10.4	24.5	14.6	9.7	22.9	13:56
10.3	24.7	14.6	9.7	23.1	13:57
10.3	24.8	14.6	9.7	23.2	13:58
10.2	24.7	14.6	9.5	23.0	13:59
10.1	24.3	14.6	9.4	22.6	14:00
10.3	24.6	14.6	9.6	23.0	14:01
10.1	25.7	14.6	9.4	24.0	14:02
10.6	24.8	14.6	9.9	23.7	14:03
9.8	24.5	14.6	9.2	22.9	14:04
10.2	24.5	14.6	9.5	22.8	14:05
10.3	24.4	14.6	9.5	22.8	14:06
10.3	24.4	14.6	9.6	22.7	14:07
10.3	24.4	14.6	9.6	22.7	14:08
10.4	24.3	14.5	9.6	22.5	14:09
10.3	24.2	14.5	9.5	22.4	14:10
10.0	24.3	14.5	9.3	22.5	14:11
10.4	24.2	14.5	9.6	22.4	14:12

CLIENT:	New Indy	JOB#	216-021
PLANT:	Oxnard, CA	RUN#	RATA 1
DATE:	3/16/2016	UNIT ID:	Turbine
ENGINEER:	KK/JT	RUN START:	8:46 AM

NOx, ppm	CO, ppm	O2, %	NOx, ppm (@ 15% O2)	CO, ppm (@ 15% O2)	TIME
10.1	23.6	14.6	9.5	22.2	8:46
10.2	23.6	14.6	9.6	22.0	8:47
10.1	23.4	14.6	9.4	21.9	8:48
9.9	23.5	14.6	9.2	22.0	8:49
9.8	23.6	14.6	9.2	22.1	8:50
9.9	23.8	14.6	9.3	22.4	8:51
9.9	23.6	14.6	9.2	22.1	8:52
10.1	23.6	14.6	9.5	22.2	8:53
9.6	24.1	14.7	9.1	22.8	8:54
9.7	24.3	14.6	9.1	22.9	8:55
9.9	24.2	14.6	9.3	22.9	8:56
9.8	24.3	14.6	9.2	22.9	8:57
9.9	23.9	14.6	9.3	22.4	8:58
9.9	23.7	14.6	9.2	22.2	8:59
9.9	23.7	14.6	9.2	22.1	9:00
9.9	23.6	14.6	9.2	22.1	9:01
9.8	23.9	14.6	9.2	22.4	9:02
10.0	23.9	14.6	9.3	22.4	9:03
10.2	24.0	14.6	9.6	22.5	9:04
9.9	24.3	14.6	9.3	22.9	9:05
9.9	24.6	14.6	9.3	23.2	9:06
10.0	24.4	14.6	9.4	23.0	9:07
9.8	24.4	14.6	9.2	23.0	9:08
10.0	24.5	14.6	9.4	23.1	9:09
10.0	24.4	14.6	9.4	23.0	9:10
9.7	24.5	14.6	9.2	23.0	9:11
10.0	24.3	14.6	9.4	22.8	9:12
10.0	24.1	14.6	9.4	22.7	9:13
9.7	24.2	14.6	9.1	22.7	9:14
10.1	24.1	14.6	9.4	22.6	9:15
9.8	24.1	14.6	9.2	22.6	9:16
9.9	24.0	14.6	9.3	22.4	9:17
9.9	24.0	14.6	9.3	22.5	Averages

CLIENT:	New Indy	JOB#	216-021
PLANT:	Oxnard, CA	RUN#	RATA 2
DATE:	3/16/2016	UNIT ID:	Turbine
ENGINEER:	KK/JT	RUN START:	9:17 AM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
9.9	24.0	14.6	9.3	22.4	9:17
9.9	23.9	14.6	9.3	22.3	9:18
9.9	23.9	14.6	9.3	22.3	9:19
9.9	23.7	14.6	9.2	22.1	9:20
10.0	23.4	14.5	9.2	21.7	9:21
10.1	23.5	14.6	9.4	21.8	9:22
10.0	23.5	14.6	9.3	21.8	9:23
10.2	23.5	14.6	9.5	21.8	9:24
10.1	23.4	14.5	9.4	21.7	9:25
10.2	23.4	14.5	9.5	21.7	9:26
10.0	23.7	14.6	9.3	22.0	9:27
10.1	23.9	14.6	9.4	22.4	9:28
10.0	24.0	14.6	9.3	22.4	9:29
10.2	24.0	14.6	9.6	22.5	9:30
10.0	24.1	14.6	9.3	22.4	9:31
10.2	23.8	14.6	9.5	22.2	9:32
9.8	24.0	14.6	9.2	22.5	9:33
10.2	24.4	14.6	9.6	22.9	9:34
9.8	24.4	14.6	9.2	22.9	9:35
10.4	24.0	14.6	9.6	22.4	9:36
9.9	23.7	14.6	9.2	22.0	9:38
10.1	23.5	14.6	9.4	21.8	9:39
10.1	23.5	14.5	9.4	21.8	9:40
10.0	23.5	14.6	9.3	21.8	9:41
10.2	23.6	14.6	9.5	21.9	9:42
10.3	23.7	14.6	9.6	22.0	9:43
10.4	23.8	14.6	9.7	22.2	9:44
10.1	24.0	14.6	9.5	22.4	9:45
10.2	24.3	14.6	9.6	22.9	9:46
10.2	24.4	14.6	9.6	22.9	9:47
9.9	24.4	14.6	9.3	22.9	9:48
10.2	24.1	14.6	9.5	22.4	9:49
10.1	23.8	14.6	9.4	22.2	Averages

CLIENT:	New Indy	JOB#	216-021
PLANT:	Oxnard, CA	RUN#	RATA 3
DATE:	3/16/2016	UNIT ID:	Turbine
ENGINEER:	KK/JT	RUN START:	9:49 AM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	Time
10.2	24.1	14.6	9.5	22.4	9:49
10.2	23.6	14.6	9.6	22.1	9:50
9.9	24.1	14.6	9.2	22.5	9:51
10.3	24.1	14.6	9.6	22.5	9:52
9.9	23.8	14.6	9.2	22.2	9:53
10.2	23.7	14.6	9.5	22.1	9:54
10.1	23.8	14.6	9.4	22.1	9:55
10.2	24.0	14.6	9.5	22.4	9:56
10.2	24.3	14.6	9.5	22.7	9:57
9.9	24.3	14.6	9.2	22.8	9:58
10.3	24.1	14.6	9.6	22.5	9:59
10.1	24.0	14.6	9.4	22.3	10:00
10.0	24.0	14.6	9.4	22.4	10:01
10.2	24.1	14.6	9.5	22.6	10:02
9.9	23.9	14.6	9.2	22.2	10:03
10.0	23.7	14.6	9.4	22.1	10:04
10.0	24.0	14.6	9.4	22.5	10:05
10.2	24.3	14.6	9.5	22.7	10:06
9.8	24.2	14.6	9.2	22.7	10:07
10.0	24.3	14.6	9.3	22.7	10:08
10.0	24.1	14.6	9.4	22.5	10:09
9.8	24.1	14.6	9.2	22.6	10:10
10.2	24.1	14.6	9.6	22.6	10:11
9.9	23.9	14.6	9.3	22.3	10:12
10.2	23.9	14.6	9.5	22.3	10:13
10.1	23.8	14.6	9.4	22.1	10:14
10.0	23.8	14.6	9.3	22.1	10:15
10.1	23.9	14.6	9.4	22.3	10:16
10.0	24.0	14.6	9.3	22.4	10:17
10.1	24.4	14.6	9.5	22.9	10:18
10.2	24.5	14.6	9.6	23.0	10:19
9.9	24.4	14.6	9.3	22.9	10:20
10.1	24.0	14.6	9.4	22.4	Averages

CLIENT:	New Indy	JOB#	216-021
PLANT:	Oxnard, CA	RUN#	RATA 4
DATE:	3/16/2016	UNIT ID:	Turbine
ENGINEER:	KK/JT	RUN START:	10:46 AM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm (@ 15% O2)	TIME
10.2	23.4	14.6	9.5	21.8	10:46
10.1	23.5	14.6	9.4	21.8	10:47
10.1	23.4	14.6	9.4	21.8	10:48
10.0	23.6	14.6	9.4	22.0	10:49
10.0	23.9	14.6	9.4	22.4	10:50
10.4	23.8	14.6	9.7	22.3	10:51
10.2	23.7	14.6	9.5	22.2	10:52
10.0	23.6	14.6	9.4	22.0	10:53
10.1	23.9	14.6	9.5	22.5	10:54
10.3	24.1	14.6	9.6	22.6	10:55
10.2	23.8	14.6	9.6	22.2	10:56
10.1	23.3	14.6	9.5	21.8	10:57
10.1	23.2	14.6	9.5	21.6	10:58
10.1	23.3	14.6	9.4	21.8	10:59
10.2	23.1	14.6	9.5	21.6	11:00
10.1	23.0	14.6	9.5	21.5	11:01
10.2	23.0	14.6	9.5	21.5	11:02
10.3	22.9	14.6	9.6	21.4	11:03
10.2	23.1	14.6	9.5	21.6	11:04
10.2	23.1	14.6	9.6	21.6	11:05
10.1	23.4	14.6	9.4	21.9	11:06
10.1	23.5	14.6	9.5	22.0	11:07
10.1	23.5	14.6	9.5	22.0	11:08
9.8	23.3	14.6	9.2	21.9	11:09
9.8	23.5	14.6	9.2	22.1	11:10
9.9	23.8	14.6	9.3	22.3	11:11
9.7	23.6	14.6	9.1	22.0	11:12
9.7	23.4	14.6	9.1	21.8	11:13
9.8	23.4	14.6	9.1	21.8	11:14
9.9	23.4	14.6	9.3	21.7	11:15
10.1	23.3	14.6	9.4	21.7	11:16
9.9	23.4	14.6	9.2	21.7	11:17
10.1	23.4	14.6	9.4	21.9	Averages

CLIENT:	New Indy	JOB#	216-021
PLANT:	Oxnard, CA	RUN#	RATA 5
DATE:	3/16/2016	UNIT ID:	Turbine
ENGINEER:	KK/JT	RUN START:	11:17 AM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
9.9	23.4	14.6	9.2	21.7	11:17
10.0	23.5	14.6	9.4	21.9	11:18
10.0	23.5	14.6	9.3	21.9	11:19
10.1	23.4	14.6	9.4	21.8	11:20
9.8	23.4	14.6	9.1	21.8	11:21
10.0	23.7	14.6	9.3	22.2	11:22
9.7	23.8	14.6	9.1	22.2	11:23
9.9	23.6	14.6	9.3	22.1	11:24
9.9	23.9	14.6	9.3	22.4	11:25
10.0	24.0	14.6	9.4	22.5	11:26
10.0	23.8	14.6	9.3	22.3	11:27
9.9	23.8	14.6	9.3	22.3	11:28
9.7	23.8	14.6	9.1	22.3	11:29
10.0	23.8	14.6	9.4	22.4	11:30
10.0	23.9	14.6	9.4	22.5	11:31
9.7	23.9	14.6	9.1	22.5	11:32
9.8	23.9	14.6	9.2	22.4	11:33
9.8	23.7	14.6	9.2	22.2	11:34
9.9	23.7	14.6	9.3	22.1	11:35
10.0	23.7	14.6	9.3	22.2	11:36
10.0	23.7	14.6	9.3	22.2	11:37
10.0	23.7	14.6	9.3	22.2	11:38
9.9	23.8	14.6	9.2	22.2	11:39
9.9	23.7	14.6	9.2	22.1	11:40
10.0	23.7	14.6	9.3	22.1	11:41
9.7	23.6	14.6	9.1	22.1	11:42
10.0	23.7	14.6	9.3	22.0	11:43
9.8	23.4	14.6	9.1	21.7	11:44
10.0	23.6	14.6	9.3	21.9	11:45
9.6	23.7	14.6	8.9	22.0	11:46
10.1	23.6	14.6	9.4	21.9	11:47
9.9	23.8	14.6	9.2	22.1	11:48
9.8	23.9	14.6	9.1	22.3	11:49
9.9	23.7	14.6	9.2	22.1	Averages

CLIENT:	New Indy	JOB#	216-021
PLANT:	Oxnard, CA	RUN#	RATA 6
DATE:	3/16/2016	UNIT ID:	Turbine
ENGINEER:	KK/JT	RUN START:	11:49 AM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
9.8	23.9	14.6	9.1	22.3	11:49
9.9	24.0	14.6	9.3	22.3	11:50
9.8	24.0	14.6	9.1	22.3	11:51
9.9	24.0	14.6	9.3	22.4	11:53
9.8	24.0	14.6	9.1	22.4	11:54
9.9	24.0	14.6	9.2	22.3	11:55
9.8	24.0	14.6	9.2	22.4	11:56
9.6	24.0	14.6	9.0	22.3	11:57
9.8	24.1	14.6	9.2	22.5	11:58
9.6	24.2	14.6	9.0	22.6	11:59
9.8	24.1	14.6	9.2	22.5	12:00
9.8	24.0	14.6	9.2	22.4	12:01
9.7	24.0	14.6	9.0	22.4	12:02
9.9	23.8	14.6	9.2	22.2	12:03
9.8	23.8	14.6	9.1	22.1	12:04
9.8	23.8	14.6	9.1	22.1	12:05
10.1	23.8	14.6	9.4	22.2	12:06
10.1	23.8	14.5	9.4	22.1	12:07
10.1	23.7	14.5	9.4	22.0	12:08
10.1	23.6	14.5	9.4	21.9	12:09
10.0	23.5	14.5	9.3	21.8	12:10
10.2	23.5	14.5	9.4	21.8	12:11
10.1	23.6	14.5	9.4	21.8	12:12
10.1	23.7	14.5	9.4	21.9	12:13
10.3	24.1	14.6	9.6	22.4	12:14
10.4	24.1	14.5	9.7	22.3	12:15
10.4	23.9	14.6	9.6	22.2	12:16
10.1	23.9	14.5	9.4	22.1	12:17
10.2	23.7	14.5	9.5	21.9	12:18
10.2	23.7	14.6	9.5	22.0	12:19
10.1	24.0	14.6	9.4	22.3	12:20
10.1	24.2	14.6	9.4	22.5	12:21
10.0	24.2	14.6	9.3	22.6	12:22
10.0	23.9	14.6	9.3	22.2	Averages

CLIENT:	New Indy	JOB#	216-021
PLANT:	Oxnard, CA	RUN#	RATA 7
DATE:	3/16/2016	UNIT ID:	Turbine
ENGINEER:	KK/JT	RUN START:	12:36 PM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
10.3	24.0	14.6	9.6	22.3	12:36
10.5	24.1	14.6	9.8	22.4	12:37
10.4	24.2	14.6	9.6	22.5	12:38
10.4	24.2	14.6	9.6	22.5	12:39
10.1	24.1	14.6	9.4	22.4	12:40
10.3	24.0	14.6	9.6	22.4	12:41
10.3	24.2	14.6	9.6	22.5	12:42
10.2	24.3	14.6	9.5	22.6	12:43
10.5	24.3	14.6	9.8	22.6	12:44
10.5	24.4	14.6	9.7	22.6	12:45
10.6	24.2	14.5	9.8	22.5	12:46
10.5	24.2	14.6	9.8	22.5	12:47
10.2	24.3	14.6	9.5	22.6	12:48
10.2	24.4	14.6	9.5	22.8	12:49
10.2	24.4	14.6	9.6	22.8	12:50
10.3	24.3	14.6	9.6	22.7	12:51
10.4	24.3	14.6	9.7	22.7	12:52
10.5	24.2	14.6	9.8	22.6	12:53
10.5	23.9	14.6	9.7	22.2	12:54
10.3	23.9	14.6	9.5	22.2	12:55
10.2	24.0	14.6	9.5	22.2	12:56
10.4	24.2	14.5	9.6	22.5	12:57
10.4	24.1	14.5	9.7	22.3	12:58
10.3	24.1	14.5	9.5	22.3	12:59
10.4	24.0	14.5	9.6	22.3	13:00
10.4	24.1	14.5	9.7	22.3	13:01
10.5	24.1	14.5	9.7	22.3	13:02
10.3	24.1	14.5	9.5	22.4	13:03
10.4	24.2	14.5	9.6	22.5	13:04
10.3	24.2	14.5	9.6	22.4	13:05
10.3	24.2	14.5	9.5	22.4	13:06
10.3	24.2	14.5	9.6	22.4	13:07
10.4	24.2	14.5	9.6	22.4	13:08
10.3	24.2	14.6	9.6	22.5	Averages

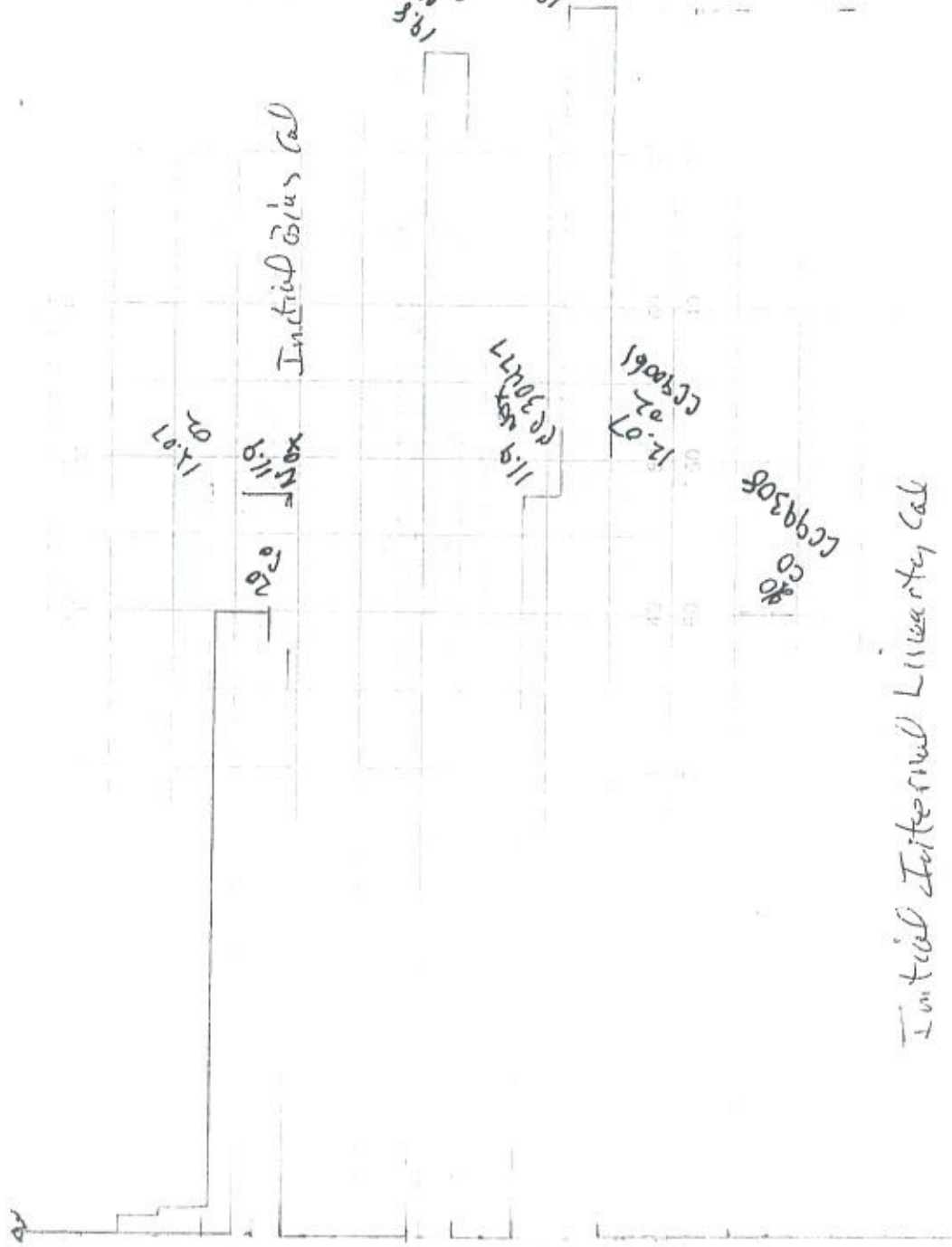
CLIENT:	New Indy	JOB#	216-021
PLANT:	Oxnard, CA	RUN#	RATA 8
DATE:	3/16/2016	UNIT ID:	Turbine
ENGINEER:	KK/JT	RUN START:	1:07 PM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
10.3	24.2	14.5	9.6	22.4	13:07
10.4	24.2	14.5	9.6	22.4	13:08
10.3	24.2	14.6	9.6	22.5	13:09
10.2	24.2	14.5	9.5	22.4	13:10
10.4	24.2	14.5	9.7	22.4	13:11
10.3	24.2	14.5	9.6	22.5	13:12
10.5	24.1	14.5	9.7	22.3	13:13
10.6	23.8	14.5	9.8	22.0	13:14
10.4	23.8	14.5	9.6	22.0	13:15
10.4	23.8	14.5	9.5	21.9	13:16
10.5	23.6	14.5	9.7	21.7	13:17
10.5	23.5	14.5	9.6	21.6	13:18
10.4	23.3	14.5	9.6	21.3	13:19
10.6	23.2	14.4	9.6	21.1	13:20
10.6	23.0	14.4	9.7	21.0	13:21
10.4	22.8	14.4	9.4	20.8	13:22
10.9	22.8	14.4	9.9	20.7	13:23
10.5	22.8	14.4	9.5	20.7	13:24
10.6	22.8	14.4	9.6	20.7	13:25
10.3	23.3	14.5	9.5	21.3	13:26
10.6	23.5	14.5	9.7	21.5	13:27
10.5	23.7	14.5	9.6	21.7	13:28
10.6	23.7	14.5	9.8	21.8	13:30
10.3	24.0	14.5	9.5	22.1	13:31
10.4	24.0	14.5	9.6	22.1	13:32
10.5	24.0	14.5	9.7	22.2	13:33
10.2	24.3	14.5	9.5	22.5	13:34
10.3	24.5	14.5	9.6	22.7	13:35
10.2	24.3	14.5	9.5	22.5	13:36
10.2	24.3	14.5	9.5	22.5	13:37
10.2	24.3	14.5	9.5	22.6	13:38
10.4	24.5	14.5	9.7	22.7	13:39
10.3	24.3	14.5	9.5	22.5	13:40
10.4	23.8	14.5	9.6	21.9	Averages

CLIENT:	New Indy	JOB#	216-021
PLANT:	Oxnard, CA	RUN#	RATA 9
DATE:	3/16/2016	UNIT ID:	Turbine
ENGINEER:	KK/JT	RUN START:	1:41 PM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
10.2	24.3	14.5	9.4	22.6	13:41
10.4	24.6	14.6	9.6	22.8	13:42
10.2	24.7	14.6	9.5	23.0	13:43
10.4	24.7	14.6	9.7	22.9	13:44
10.3	24.7	14.6	9.6	23.1	13:45
10.4	24.8	14.6	9.7	23.1	13:46
10.2	24.7	14.6	9.5	23.0	13:47
10.1	24.6	14.6	9.4	22.9	13:48
10.3	24.4	14.6	9.6	22.7	13:49
10.2	24.4	14.6	9.5	22.7	13:50
10.4	24.5	14.6	9.7	22.8	13:51
10.4	24.5	14.6	9.7	22.8	13:52
10.3	24.6	14.6	9.6	23.0	13:53
10.3	24.5	14.6	9.6	22.8	13:54
10.5	24.6	14.6	9.8	22.9	13:55
10.4	24.5	14.6	9.7	22.9	13:56
10.3	24.7	14.6	9.7	23.1	13:57
10.3	24.8	14.6	9.7	23.2	13:58
10.2	24.7	14.6	9.5	23.0	13:59
10.1	24.3	14.6	9.4	22.6	14:00
10.3	24.6	14.6	9.6	23.0	14:01
10.1	25.7	14.6	9.4	24.0	14:02
10.6	24.8	14.6	9.9	23.2	14:03
9.8	24.5	14.6	9.2	22.9	14:04
10.2	24.5	14.6	9.5	22.8	14:05
10.3	24.4	14.6	9.6	22.7	14:06
10.3	24.4	14.6	9.6	22.7	14:07
10.3	24.4	14.6	9.6	22.7	14:08
10.4	24.3	14.5	9.6	22.5	14:09
10.3	24.2	14.5	9.5	22.4	14:10
10.0	24.3	14.5	9.3	22.5	14:11
10.4	24.2	14.5	9.6	22.4	14:12
10.3	24.6	14.6	9.6	22.9	Averages

New Entry
216-021 3-16-76
10 emhr. Leak/Vok
KK 0-25
Nox
CO 0-50
O₂ 0-25



19.07
Nox
CO 0-50
O₂ 0-25

19.07
Nox
CO 0-50
O₂ 0-25

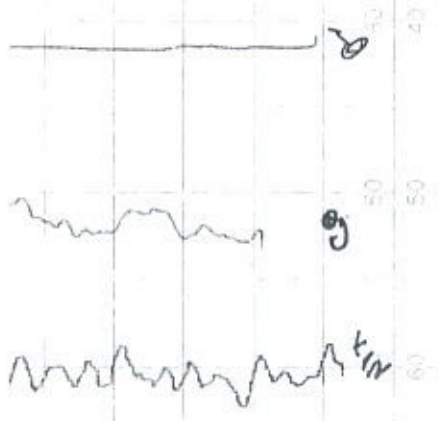
19.07
Nox
CO 0-50
O₂ 0-25

19.07
Nox
CO 0-50
O₂ 0-25

Initial Intermed Liberty Cal

Start 12:45

680
2995



13:01

834m
05hr

4558m

13:10 not

Response Times

sec 15
0hr

18hr

1995m

Down 4hr

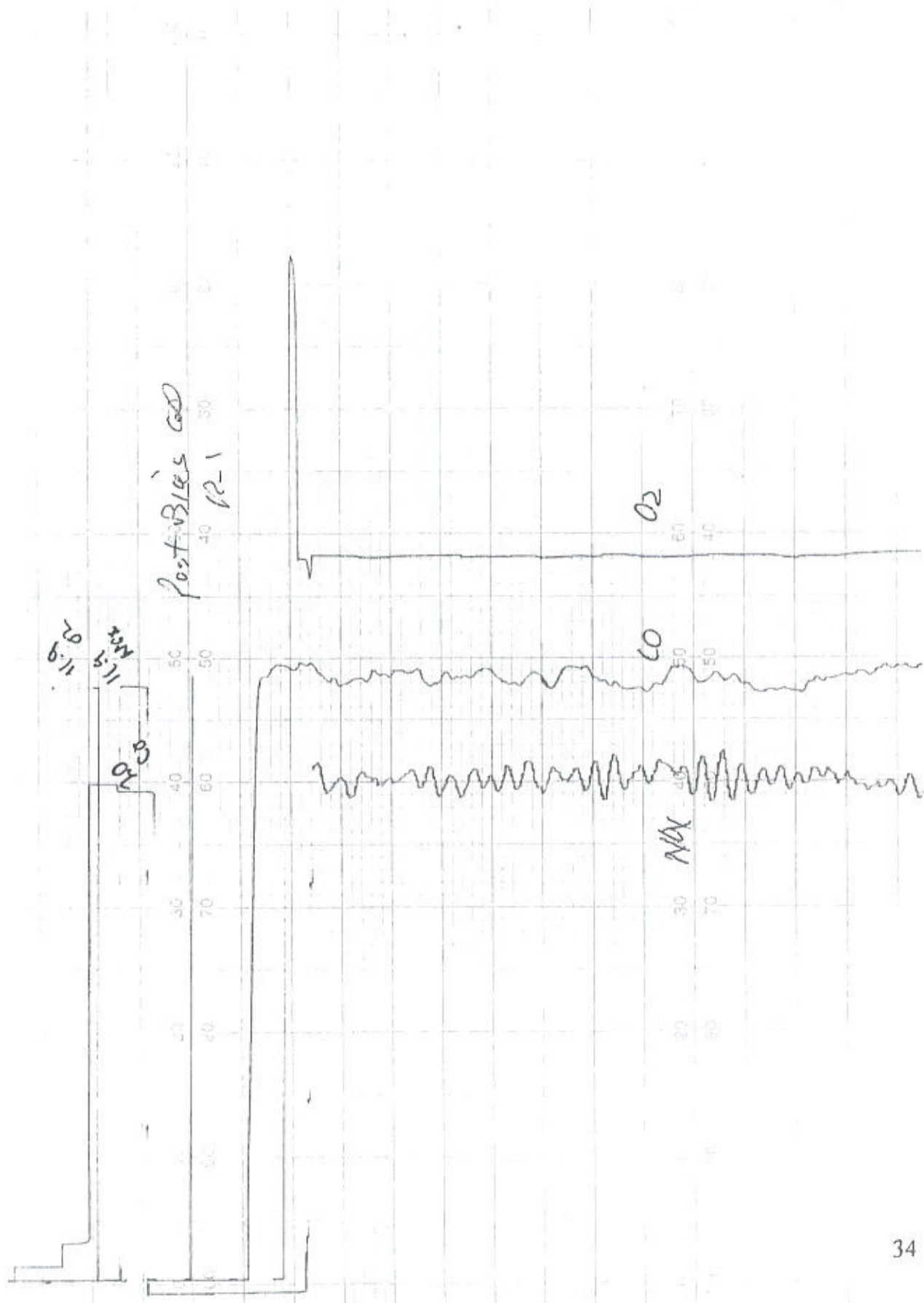
Down 5hr

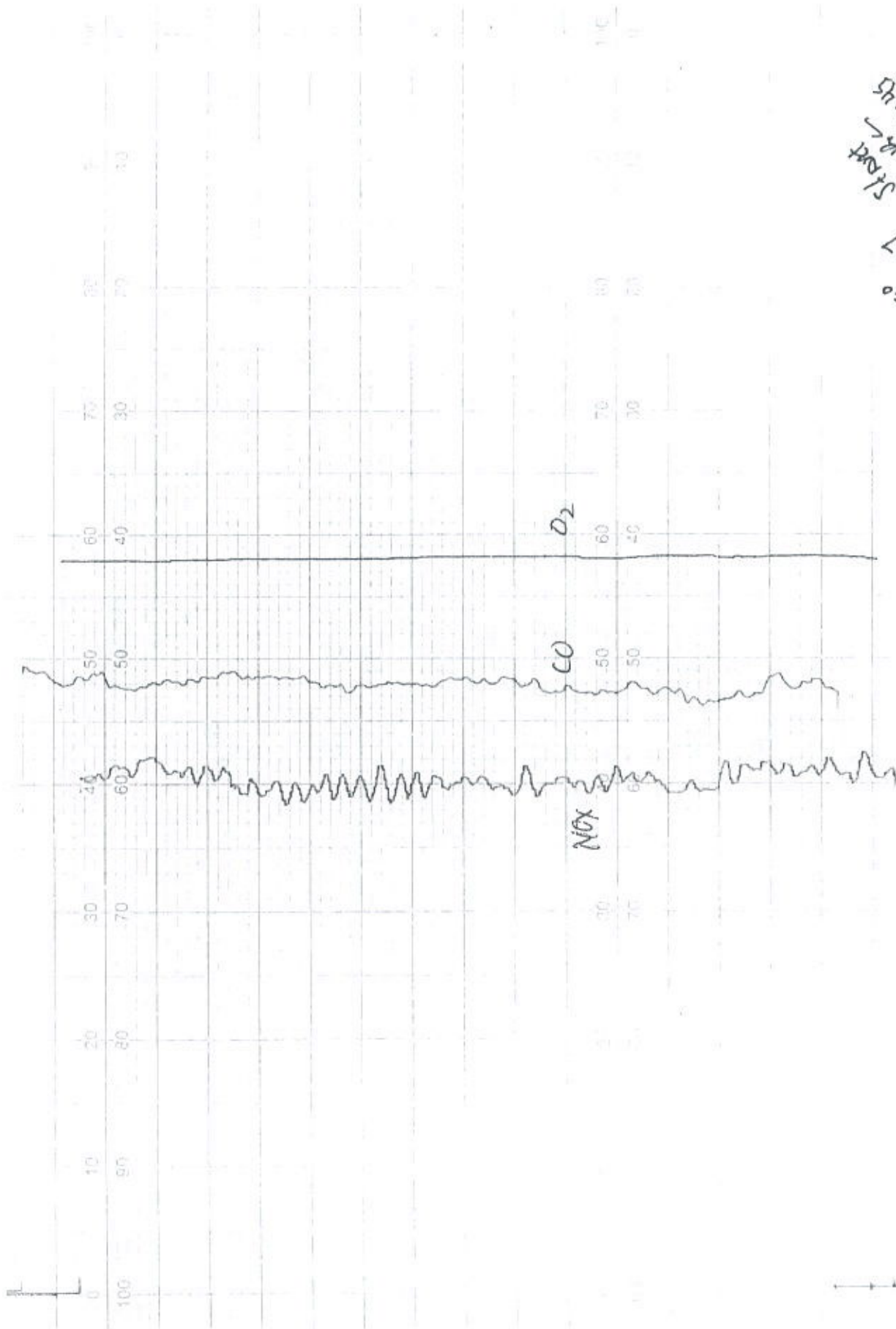
Down 4hr

Down 5hr

Down 5hr

Down 5hr



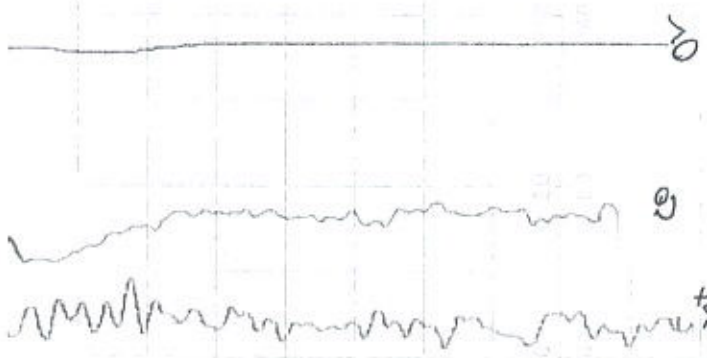


79.97
 Start
 10:45

Start R3
12:35

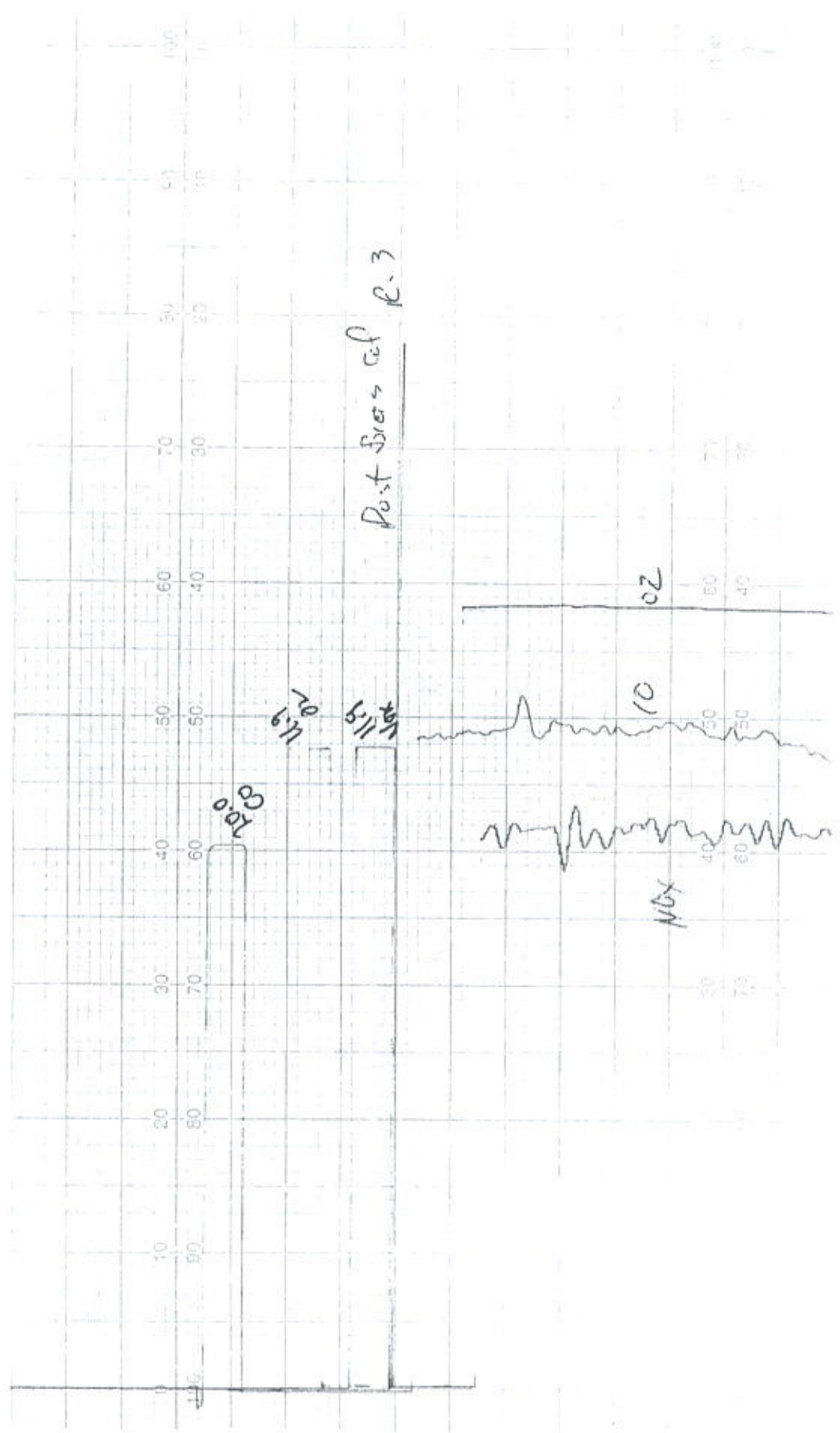
71
29.96

Point B's call
R.Z



11.9
12.07
OL

8.16



Post Stress ECG p. 3

70.0

4.9

5.1

20

10

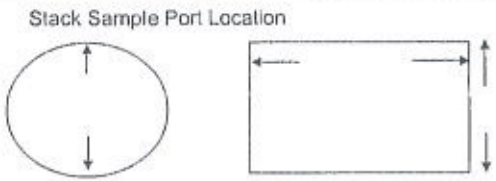
10x



TESTING

Plant: <u>NEW INDI</u>	Amb. Temp: <u>60°F</u>	Nozzel: <u>3/8</u>
Location: <u>OXNARD, CA</u>	Pbar: <u>29.95</u>	Prob Heat: <u>NA</u>
Unit: <u>TURBINE</u>	Pilot: <u>NA</u>	Wind Vel.: _____
Date: <u>03/16/10</u>	Pyro: <u>NA</u>	Static Press.: _____
Run #: <u>1 NH3</u>	Mag Δ P: <u>NA</u>	O2: _____
Cold Box: <u>FF</u>	Mag Δ H: <u>T</u>	CO2: _____
Meter #: <u>J</u>	% H2O: <u>NA</u>	Engineer: <u>KK</u>
Meter Factor: <u>1.0104</u>	Box Heat: <u>NA</u>	Technician: <u>JT</u>

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



Imp.	Gross	Tare	Total
1		168.3	
2		50.0	
3		226.8	
4		308.3	

Filter 1: _____
 Filter 2: _____

START TIME: 845 END TIME: _____ "K" FACTOR: _____

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				798.359	1.65	65	62	52	9.0		
		8				804.9	1.65	71	67	51	9.5		
		16				810.1	1.65	71	67	52	10.0		
		24				816.2	1.65	71	68	52	10.0		
		32				822.3	1.65	72	68	52	10.0		
		40				829.1	1.65	72	70	52	10.0		
		48				834.9	1.65	73	70	52	10.0		
		56				840.6	1.65	73	70	52	10.0		
		64				847.2	1.65	74	71	53	10.5		
		72				853.4	1.65	74	71	53	10.5		
		80				859.0	1.65	74	72	53	10.5		
		88				865.1	1.65	75	72	52	10.5		
		96				871.250	—	—	—	—	—		

Average: _____ 72.861 _____

Leak Checks: Pitots

Pre	Top	Bottom
ΔP		

Post	Top	Bottom
ΔP		

Sample Train Leak Check

CFM:	<u>0.010</u>	In. HG:	<u>15</u>
CFM:	<u>0.005</u>	In. HG:	<u>10.5</u>

X TESTING

Plant: <u>NEW INDY</u>	Amb. Temp: <u>71.68</u>	Nozzel: <u>3/8</u>
Location: <u>OXYARD</u>	Pbar: <u>29.97</u>	Prob Heat: <u>NA</u>
Unit: <u>TURBINE</u>	Pilot: <u>NA</u>	Wind Vel: _____
Date: <u>03/16/16</u>	Pyro: <u>NA</u>	Static Press.: _____
Run #: <u>4 NH3</u>	Mag Δ P: <u>NA</u>	O2: _____
Cold Box: <u>✓</u>	Mag Δ H: <u>✓</u>	CO2: _____
Meter #: <u>J</u>	% H2O: <u>✓</u>	Engineer: <u>KK</u>
Meter Factor: <u>1.0104</u>	Box Heat: <u>NA</u>	Technician: <u>JT</u>

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

Stack Sample Port Location



Imp.	Gross	Tare	To
1		522.0	
2		561.1	
3		522.0	
4		724.5	

Filter 1: _____

START TIME: 10:45 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	C. Fik
		0				871.542	1.65	74	72	53	9.5		
		8				878.1	1.65	76	73	52	9.5		
		16				883.8	1.65	76	73	52	9.5		
		24				889.9	1.65	77	74	52	9.5		
		32				896.0	1.65	77	74	52	9.5		
		40				902.1	1.65	77	75	51	9.5		
		48				908.4	1.65	78	78	51	9.5		
		56				914.6	1.65	78	75	51	9.5		
		64				920.6	1.65	78	76	51	9.5		
		72				927.6	1.65	78	76	52	9.5		
		80				933.5	1.65	80	77	52	9.5		
		88				940.0	1.65	81	77	51	9.5		
		96				946.495	1.65						

Average: _____ 74.953 1.65 _____ 9.5

Leak Checks: Pitots

Pre	Top	Bottom
ΔP		

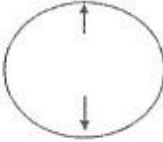
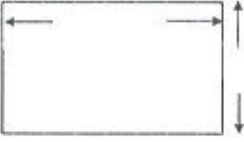
Post	Top	Bottom
ΔP		

Sample Train Leak Check

CFM:	0.010	In. HG:	13.0
CFM:	0.005	In. HG:	9.5

X TESTING

Plant: <u>NEW INDY</u>	Amb. Temp: <u>71</u>	Nozzel: <u>3/8</u>
Location: <u>OXNARD</u>	Pbar: <u>29.96</u>	Prob Heat: <u>NA</u>
Unit: <u>TURBINE</u>	Pilot: <u>NA</u>	Wind Vel: _____
Date: <u>3.16.16</u>	Pyro: <u>NA</u>	Static Press: _____
Run #: <u>3 NH3</u>	Mag Δ P: <u>-</u>	O2: _____
Cold Box: <u>7</u>	Mag Δ H: <u>J</u>	CO2: _____
Meter #: <u>J</u>	% H2O: _____	Engineer: <u>KK</u>
Meter Factor: <u>1.0104</u>	Box Heat: <u>NA</u>	Technician: <u>JT</u>

Stack Dia: _____	Stack Sample Port Location	Imp. 1	Gross	Tare	Total
"A": _____		2			
"B": _____		3			
Port Size: _____		4			
Offset: _____					
M/F: _____					

START TIME: 1235 END TIME: _____ "K" FACTOR: _____ Filter 1: _____ 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				946.632	1.65	79	78	54	11.0		
		8				952.8	1.65	79	78	53	11.0		
		16				959.0	1.65	80	78	53	11.0		
		24				965.1	1.65	80	79	52	11.0		
		32				971.2	1.65	81	79	53	11.0		
		40				977.7	1.65	81	80	52	11.0		
		48				983.6	1.65	81	79	52	11.0		
		56				989.5	1.65	82	80	52	11.0		
		64				995.8	1.65	82	80	51	12.0		
		72				1002.1	1.65	83	80	52	12.0		
		80				1008.2	1.65	83	81	52	12.0		
		88				1014.3	1.65	83	81	53	12.0		
		96				1020.610	—	—	—	—	—		

Average: _____ 1.65 _____

Leak Checks: Pitots			Sample Train Leak Check		
Pre ΔP	Top	Bottom	Post ΔP	Top	Bottom

CFM: 0.010 In. HG: 15
 CFM: 0.007 In. HG: 12

Rata Runt

New-Inch Onnard, LLC
ROSEMOUNT CEMS SOURCE TEST - March 16, 2016

Stack NOx	Stack CO	Stack O2	Duct Burner Gas Flow	Turbine Gas Flow	Steam Injection	Ammonia Injection	Turbine Load
10.50	23.99	14.48	261.23	261.23	2.26	18.86	23.56
10.43	23.54	14.49	261.23	261.23	2.26	18.86	23.51
10.38	23.72	14.49	261.23	261.23	2.26	18.86	23.55
10.20	23.07	14.49	261.23	261.23	2.26	18.86	23.58
10.33	24.22	14.49	261.23	261.23	2.26	18.86	23.55
10.22	24.00	14.49	261.23	261.23	2.26	18.86	23.51
10.07	23.81	14.49	261.23	261.23	2.26	18.86	23.49
10.37	23.82	14.49	261.23	261.23	2.26	18.86	23.49
9.75	24.30	14.49	261.23	261.23	2.26	18.86	23.56
9.86	24.09	14.49	261.23	261.23	2.27	18.86	23.55
10.16	23.82	14.49	261.23	261.23	2.26	18.86	23.57
10.43	23.88	14.49	261.23	261.23	2.26	18.86	23.47
10.66	22.49	14.51	261.23	261.23	2.26	18.86	23.45
10.80	23.06	14.51	261.23	261.23	2.26	18.86	23.61
10.80	23.68	14.52	261.23	261.23	2.26	18.86	23.61
10.90	23.60	14.52	261.23	261.23	2.27	18.86	23.60
10.87	23.60	14.53	261.23	261.23	2.27	18.86	23.60
10.79	24.02	14.53	261.23	261.23	2.26	18.86	23.56
10.88	23.79	14.54	261.23	261.23	2.26	18.86	23.63
11.05	22.07	14.54	261.23	261.23	2.26	18.86	23.41
10.96	24.74	14.54	261.23	261.23	2.26	18.86	23.51
10.81	24.80	14.55	261.23	261.23	2.26	18.86	23.50
10.68	24.88	14.55	261.23	261.23	2.24	18.86	23.53
10.53	24.79	14.55	261.23	261.23	2.22	18.86	23.51
10.48	25.37	14.55	261.23	261.23	2.20	18.86	23.45
10.49	24.49	14.55	261.23	261.23	2.22	18.86	23.53
10.61	24.00	14.55	261.23	261.23	2.26	18.86	23.68
10.78	24.84	14.55	261.23	261.23	2.26	18.86	23.68
10.68	24.49	14.55	261.23	261.23	2.27	18.86	23.58
10.40	24.75	14.56	261.23	261.23	2.26	18.86	23.58
10.29	24.96	14.55	261.23	261.23	2.26	18.86	23.52
10.27	24.14	14.55	261.23	261.23	2.25	18.86	23.53
10.20	24.12	14.55	261.23	261.23	2.25	18.86	23.51
10.26	24.12	14.55	261.23	261.23	2.25	18.86	23.51
10.28	24.12	14.55	261.23	261.23	2.25	18.86	23.53
Average Stack NOx, ppm (15% O2)	Average Stack CO, ppm (15% O2)	Average Stack O2 (%)	Average Duct Burner Gas Flow (MBCFPH)	Average Turbine Gas Flow (MBCFPH)	Ave. Steam Injection Rate (lbs/hr)	Ave. Ammonia Injection (lb/hr)	Ave. Turbine Load (MWh)
10.50	24.15	14.53	16.46	261.23	2.27	18.86	23.55

(277,69 x 1000) / 60 = 4628.2 dscfm

Rate

New-Indy Oxnard, LLC
ROSEMOUNT CEMS SOURCE TEST - March 16, 2016

Stack NOx	Stack CO	Stack O2	Duct Burner Gas Flow	Turbine Gas Flow	Steam Injection	Ammonia Injection	Turbine Load
15-Mar-16 08:15:00	23.95	14.51	17.10	261.23	2.27	17.80	23.48
15-Mar-16 08:16:00	23.80	14.50	17.97	261.23	2.30	17.86	23.46
15-Mar-16 08:17:00	23.73	14.45	18.01	261.23	2.26	17.75	23.43
15-Mar-16 08:18:00	24.15	14.48	18.12	261.23	2.28	17.83	23.68
15-Mar-16 08:19:00	23.15	14.45	18.21	261.23	2.27	17.84	23.56
15-Mar-16 08:20:00	23.47	14.45	18.09	261.23	2.28	17.79	23.52
15-Mar-16 08:21:00	23.25	14.45	18.20	261.23	2.27	17.87	23.70
15-Mar-16 08:22:00	23.29	14.49	18.30	261.23	2.27	18.00	23.63
15-Mar-16 08:23:00	23.88	14.49	18.25	261.23	2.28	17.84	23.74
15-Mar-16 08:24:00	24.05	14.49	18.57	261.23	2.27	18.01	23.64
15-Mar-16 08:25:00	24.61	14.49	18.26	261.23	2.28	17.81	23.64
15-Mar-16 08:26:00	24.44	14.48	18.30	261.23	2.28	17.99	23.72
15-Mar-16 08:27:00	24.19	14.48	18.89	261.23	2.27	17.82	23.72
15-Mar-16 08:28:00	23.88	14.48	18.31	261.23	2.28	18.00	23.85
15-Mar-16 08:29:00	24.47	14.47	18.58	261.23	2.28	17.74	23.74
15-Mar-16 08:30:00	24.81	14.40	18.20	261.23	2.28	18.12	23.60
15-Mar-16 08:31:00	24.43	14.44	18.56	261.23	2.27	17.79	23.67
15-Mar-16 08:32:00	24.41	14.43	17.87	261.23	2.28	17.93	23.80
15-Mar-16 08:33:00	23.55	14.42	18.37	261.23	2.28	18.02	23.62
15-Mar-16 08:34:00	23.19	14.40	18.46	261.23	2.29	17.44	23.79
15-Mar-16 08:35:00	23.53	14.28	18.48	261.23	2.27	18.13	23.70
15-Mar-16 08:36:00	23.63	14.37	18.49	261.23	2.29	17.52	23.69
15-Mar-16 08:37:00	23.71	14.40	18.37	261.23	2.27	17.68	23.67
15-Mar-16 08:38:00	23.70	14.42	18.24	261.23	2.29	17.71	23.70
15-Mar-16 08:39:00	23.87	14.28	17.27	261.23	2.28	17.67	23.50
15-Mar-16 08:40:00	23.77	14.41	18.50	261.23	2.28	18.08	23.71
15-Mar-16 08:41:00	24.51	14.42	18.11	261.23	2.28	18.08	23.70
15-Mar-16 08:42:00	24.52	14.40	18.42	261.23	2.29	18.11	23.62
15-Mar-16 08:43:00	24.12	14.29	18.51	261.23	2.28	18.00	23.61
15-Mar-16 08:44:00	23.70	14.28	17.70	261.23	2.29	17.68	23.60
15-Mar-16 08:45:00	23.75	14.29	18.79	261.23	2.28	18.13	23.67
15-Mar-16 08:46:00	23.89	14.43	18.08	261.23	2.28	17.65	23.67
15-Mar-16 08:47:00	23.84	14.43	18.03	261.23	2.28	18.12	23.58
Average Stack NOx, ppm (15% O2)	Average Stack CO, ppm (15% O2)	Average Stack O2 (%)	Average Duct Burner Gas Flow (MBCFH)	Average Turbine Gas Flow (MBCFH)	Average Steam Injection Rate (t/hr)	Average Ammonia Injection (t/hr)	Average Turbine Load (MWh)
10.60	23.92	14.45	17.24	261.23	2.28	17.84	23.68

(278.57 x 1000) / 60
= 4642.8 dscf/min

Rata Run 3

Newby Onward, LLC
ROSEMOUNT CEMS SOURCE TEST - March 16, 2016

Stack NOx lb _s /hour ppm	Stack CO lb _s /hour (11% O ₂)	Stack O ₂ %	Duct Burner Gas Flow gpm (11% O ₂)	Turbine Gas Flow gpm (11% O ₂)	Steam Injection gpm (11% O ₂)	Ammonia Injection lb/hr (11% O ₂)	Turbine Load MW
10.82	23.73	14.38	15.02	261.23	2.27	17.79	23.70
10.20	23.75	14.38	17.36	261.23	2.28	17.79	23.74
10.98	23.63	14.42	15.58	261.23	2.29	17.82	23.72
10.85	23.86	14.42	14.27	261.23	2.27	17.89	23.67
10.97	23.97	14.42	15.54	261.23	2.29	17.89	23.71
10.67	24.43	14.42	14.43	261.23	2.29	17.82	23.67
10.83	23.97	14.40	15.54	261.23	2.28	17.82	23.67
10.65	23.82	14.38	15.52	261.23	2.28	17.82	23.75
10.31	24.18	14.40	14.80	261.23	2.29	17.71	23.75
10.24	24.18	14.42	15.13	261.23	2.29	17.71	23.83
10.26	24.24	14.42	15.58	261.23	2.29	17.84	23.82
10.39	23.87	14.38	15.34	261.23	2.28	17.82	23.64
10.28	24.32	14.42	14.78	261.23	2.28	17.74	23.64
10.24	24.75	14.44	14.36	261.23	2.28	18.24	23.80
10.21	24.31	14.44	14.50	261.23	2.28	18.10	23.86
10.30	24.49	14.42	15.05	261.23	2.27	17.75	23.64
10.44	24.20	14.42	15.58	261.23	2.29	17.89	23.58
10.82	24.15	14.41	16.76	261.23	2.27	17.75	23.91
10.81	24.58	14.36	15.31	261.23	2.28	17.46	23.83
10.74	23.98	14.30	16.20	261.23	2.29	17.86	23.51
10.53	23.87	14.36	16.48	261.23	2.28	17.46	23.51
10.45	24.06	14.40	16.85	261.23	2.28	17.46	23.89
10.31	24.31	14.41	17.51	261.23	2.28	17.81	23.71
10.41	24.45	14.42	17.25	261.23	2.28	17.71	23.84
10.60	23.82	14.42	16.57	261.23	2.29	17.86	23.67
10.75	24.48	14.44	15.27	261.23	2.26	17.82	23.64
10.87	24.80	14.44	13.72	261.23	2.30	17.66	23.64
10.82	24.84	14.42	13.21	261.23	2.27	17.66	23.62
10.69	24.24	14.42	13.93	261.23	2.28	18.02	23.94
10.82	24.78	14.41	13.74	261.23	2.29	17.95	23.67
10.26	24.58	14.40	13.30	261.23	2.27	18.33	23.80
10.88	24.14	14.36	14.41	261.23	2.28	17.64	23.75
10.84	23.78	14.38	15.24	261.23	2.26	18.22	23.83
Average Stack NOx, ppm (15% O ₂)	Average Stack CO, ppm (15% O ₂)	Average Stack O ₂ (%)	Average Duct Burner Gas Flow (MBCFH)	Average Turbine Gas Flow (MBCFH)	Average Steam Injection Rate (gpm)	Ave. Ammonia Injection (lb/hr)	Ave. Turbine Load (MW)
10.51	24.23	14.41	15.51	261.23	2.28	17.89	23.68

(276.74 x 1000) / 60
= 4612.3 dscfm

Kater Run 4

New-Judy Onnord, LLC
ROSEMOUNT CEMS SOURCE TEST - March 16, 2016

3/16/2016 10:00 AM

Stack NOx	Stack CO	Stack O2	Duct Burner Gas Flow	Turbine Gas Flow	Steam Injection	Ammonia Injection	Turbine Load
10.67	23.20	14.47	16.48	261.23	2.28	18.93	23.66
10.25	23.97	14.40	16.77	261.23	2.30	18.56	23.65
10.32	24.10	14.40	16.88	261.23	2.28	18.78	23.72
10.58	24.19	14.30	16.87	261.23	2.28	18.23	23.81
10.36	23.92	14.51	16.87	261.23	2.27	18.42	23.86
10.37	23.70	14.51	16.87	261.23	2.29	18.56	23.72
10.44	23.68	14.51	16.87	261.23	2.28	18.56	23.78
10.63	24.10	14.51	16.87	261.23	2.28	18.56	23.71
10.77	23.77	14.51	16.87	261.23	2.28	18.67	23.63
10.75	23.26	14.54	16.87	261.23	2.28	18.19	23.66
10.88	23.79	14.54	16.87	261.23	2.28	18.19	23.50
10.32	23.90	14.56	16.87	261.23	2.28	18.09	23.75
9.83	23.97	14.27	16.87	261.23	2.28	18.09	23.78
9.87	23.34	14.56	16.87	261.23	2.28	18.09	23.62
10.24	23.54	14.56	16.87	261.23	2.27	18.09	23.96
10.13	23.54	14.56	16.87	261.23	2.28	18.09	23.68
10.28	23.81	14.56	16.87	261.23	2.28	18.09	23.68
9.90	23.51	14.56	16.87	261.23	2.28	18.09	23.68
10.21	23.27	14.56	16.87	261.23	2.28	18.09	23.65
10.24	23.97	14.56	16.87	261.23	2.28	18.09	23.70
10.41	23.90	14.56	16.87	261.23	2.27	18.09	23.70
10.54	23.86	14.51	16.87	261.23	2.27	18.09	23.73
10.56	23.86	14.51	16.87	261.23	2.28	18.09	23.81
10.59	23.86	14.51	16.87	261.23	2.23	18.09	23.83
Average Stack NOx, ppm (15% O2)	23.70	14.52	16.92	261.23	2.28	18.92	23.71

(27.55 x 1000) / 60
= 462.58 dscfm

Rata Rata

New-Irby Ornard, LLC
ROSEMOUNT CEMS SOURCE TEST - March 16, 2016

Stack NOx	Stack CO	Stack O ₂	Duct Burner Gas Flow	Turbine Gas Flow	GT Gas Flow	Steam Injection	Ammonia Injection	Turbine Load
15-Mar-16 11:18:00	24.00	14.57	14.11	201.23	14.11	2.30	18.80	23.68
15-Mar-16 11:19:00	23.56	14.57	14.33	201.23	14.33	2.28	18.80	23.68
15-Mar-16 11:20:00	23.67	14.57	13.77	201.23	13.77	2.27	18.80	23.68
15-Mar-16 11:21:00	24.18	14.57	12.86	201.23	12.86	2.28	18.80	23.68
15-Mar-16 11:22:00	24.18	14.57	12.80	201.23	12.80	2.27	18.80	23.68
15-Mar-16 11:23:00	24.15	14.57	13.19	201.23	13.19	2.29	18.80	23.72
15-Mar-16 11:24:00	24.18	14.57	12.98	201.23	12.98	2.29	18.80	23.75
15-Mar-16 11:25:00	24.18	14.57	12.97	201.23	12.97	2.28	18.80	23.75
15-Mar-16 11:26:00	24.18	14.57	12.34	201.23	12.34	2.29	18.80	23.78
15-Mar-16 11:27:00	24.19	14.57	12.33	201.23	12.33	2.27	18.80	23.82
15-Mar-16 11:28:00	24.18	14.57	12.40	201.23	12.40	2.29	18.80	23.71
15-Mar-16 11:29:00	24.18	14.57	12.70	201.23	12.70	2.29	18.80	23.70
15-Mar-16 11:30:00	24.18	14.57	12.86	201.23	12.86	2.28	18.80	23.66
15-Mar-16 11:31:00	24.18	14.57	12.45	201.23	12.45	2.28	18.80	23.64
15-Mar-16 11:32:00	24.18	14.57	12.97	201.23	12.97	2.28	18.80	23.72
15-Mar-16 11:33:00	24.18	14.57	13.75	201.23	13.75	2.28	18.80	23.68
15-Mar-16 11:34:00	24.18	14.57	13.00	201.23	13.00	2.28	18.80	23.82
15-Mar-16 11:35:00	24.18	14.57	13.45	201.23	13.45	2.28	18.80	23.66
15-Mar-16 11:36:00	24.16	14.57	13.25	201.23	13.25	2.29	18.80	23.63
15-Mar-16 11:37:00	24.18	14.57	13.04	201.23	13.04	2.28	18.80	23.71
15-Mar-16 11:38:00	24.18	14.57	13.45	201.23	13.45	2.28	18.80	23.67
15-Mar-16 11:39:00	24.15	14.57	13.45	201.23	13.45	2.29	18.80	23.76
15-Mar-16 11:40:00	24.17	14.57	13.73	201.23	13.73	2.27	18.80	23.84
15-Mar-16 11:41:00	23.64	14.57	13.12	201.26	13.12	2.28	18.80	23.83
15-Mar-16 11:42:00	23.81	14.57	13.26	203.02	13.26	2.28	18.80	23.93
15-Mar-16 11:43:00	23.42	14.57	13.81	202.46	13.81	2.28	18.80	24.01
15-Mar-16 11:44:00	23.64	14.57	13.76	204.56	13.76	2.28	18.80	23.97
15-Mar-16 11:45:00	23.66	14.57	13.47	203.02	13.47	2.29	18.80	23.80
15-Mar-16 11:46:00	24.19	14.57	13.88	203.02	13.88	2.29	18.80	23.96
15-Mar-16 11:47:00	24.20	14.57	14.64	202.46	14.64	2.27	18.80	23.83
15-Mar-16 11:48:00	24.20	14.57	14.24	204.55	14.24	2.26	18.80	23.82
15-Mar-16 11:49:00	24.20	14.56	13.66	203.04	13.66	2.27	18.80	23.79
15-Mar-16 11:50:00	24.34	14.60	13.25	201.23	13.25	2.29	18.80	23.72
Average Stack NOx, ppm (15% O₂)	24.06	14.57	13.33	201.85	13.33	2.28	18.80	23.76

(275.05 x 1000) / 60
= 4584.17 dscfm

Rata Rata

New-Judy Onward, LLC
ROSEMOUNT CEMS SOURCE TEST - March 16, 2016

REPORT NO. 16-0301

Stack NOx	Stack CO	Stack O2	Duct Burner Gas Flow	Turbine Gas Flow	Steam Injection	Ammonia Injection	Turbine Load
10.36	24.26	14.61	13.19	261.23	2.27	18.73	23.70
10.54	24.43	14.63	13.26	261.23	2.28	18.98	23.78
10.27	24.13	14.63	13.12	261.23	2.29	18.71	23.82
10.20	24.41	14.63	13.21	261.23	2.29	18.67	23.74
10.09	24.30	14.63	13.25	261.23	2.29	18.75	23.80
9.99	24.19	14.63	13.28	261.23	2.27	18.54	23.83
10.07	24.07	14.63	13.22	261.46	2.29	18.85	23.83
10.29	23.86	14.63	13.25	261.46	2.28	18.79	23.85
10.00	23.84	14.63	13.25	261.46	2.28	18.82	23.87
10.09	23.74	14.63	13.26	261.23	2.28	18.87	23.84
10.08	23.67	14.63	13.26	261.23	2.28	18.82	23.90
10.67	23.74	14.61	13.41	261.23	2.28	18.54	23.81
10.45	24.45	14.60	13.65	261.23	2.29	19.06	23.72
11.02	24.45	14.59	13.43	261.23	2.29	18.70	23.80
11.07	24.36	14.58	13.43	261.23	2.27	18.70	23.81
11.09	24.33	14.58	13.26	261.23	2.28	18.70	23.81
10.96	23.72	14.57	13.51	261.23	2.28	18.50	23.86
10.87	23.72	14.57	13.51	261.23	2.28	18.50	23.86
10.80	23.36	14.57	13.42	261.23	2.28	18.85	23.87
10.84	24.03	14.57	13.37	261.23	2.28	18.82	23.82
10.49	23.68	14.57	13.49	261.46	2.28	18.79	23.90
10.56	23.82	14.57	13.28	261.46	2.28	18.70	23.88
10.79	24.24	14.57	13.58	261.46	2.28	18.01	23.96
10.83	24.28	14.57	13.11	261.46	2.28	18.00	23.90
10.31	24.23	14.57	13.22	261.46	2.28	18.12	23.84
10.32	24.23	14.57	13.22	261.46	2.28	18.12	23.84
10.49	24.36	14.57	13.46	261.46	2.28	18.25	23.90
10.49	24.43	14.57	13.46	261.46	2.28	18.25	23.90
10.54	24.43	14.57	13.46	261.46	2.28	18.25	23.90
10.53	24.43	14.57	13.46	261.46	2.28	18.25	23.90
10.55	24.07	14.57	13.46	261.46	2.28	18.25	23.90
10.66	24.23	14.57	13.46	261.46	2.28	18.25	23.90
10.66	24.23	14.57	13.46	261.46	2.28	18.25	23.90
10.81	24.03	14.57	13.46	261.46	2.28	18.25	23.90
Average Stack NOx, ppm (15% O2)	Average Stack CO, ppm (15% O2)	Average Stack O2 (%)	Average Duct Burner Gas Flow (MBCFH)	Average Turbine Gas Flow (MBCFH)	Average Steam Injection Rate (lbs)	Average Ammonia Injection (lb/hr)	Ave. Turbine Load (MWh)
10.56	24.29	14.61	13.07	262.16	2.28	18.80	23.86

(275.23 x 1000) / 60
= 4587.2 cfs

Rata Rata

New-Indy Oxnard, LLC
ROSEMOUNT CEMS SOURCE TEST - March 16, 2016

Stack NOx	Stack CO	Stack O2	Duct Burner Gas Flow	Turbine Gas Flow	Steam Injection	Ammonia Injection	Turbine Load
REL_NTHACT1118.CO	REL_NTHACT1118.CO	REL_NTHACT1118.CO	DISCFLOW_A	DISCFLOW	321-214.LWD	321-PC1173.MF	321-214.LWATT
Average Stack NOx, ppm (15% O2)	Average Stack CO, ppm (15% O2)	Average Stack O2 (%)	Average Duct Burner Gas Flow (Mscf/h)	Average Turbine Gas Flow (Mscf/h)	Average Steam Injection Rate (t/h)	Average Ammonia Injection (t/h)	Ave. Turbine Load (MWh)
10.54	24.38	14.63	263.30	263.30	2.29	18.45	23.89
15-Mar-16 12:25:00	23.86	14.63	12.89	262.04	2.28	18.45	23.78
15-Mar-16 12:30:00	24.27	14.63	12.76	261.23	2.29	18.45	23.90
15-Mar-16 12:35:00	24.23	14.63	12.96	261.23	2.29	18.45	23.82
15-Mar-16 12:40:00	24.01	14.63	12.90	261.23	2.28	18.45	23.87
15-Mar-16 12:45:00	23.86	14.63	12.94	261.23	2.27	18.45	23.87
15-Mar-16 12:50:00	23.86	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 12:55:00	23.86	14.63	12.70	261.23	2.28	18.45	23.84
15-Mar-16 13:00:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 13:05:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 13:10:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 13:15:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 13:20:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 13:25:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 13:30:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 13:35:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 13:40:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 13:45:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 13:50:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 13:55:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 14:00:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 14:05:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 14:10:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 14:15:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 14:20:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 14:25:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 14:30:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 14:35:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 14:40:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 14:45:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 14:50:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 14:55:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 15:00:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 15:05:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 15:10:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 15:15:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 15:20:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 15:25:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 15:30:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 15:35:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 15:40:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 15:45:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 15:50:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 15:55:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83
15-Mar-16 16:00:00	24.48	14.63	12.86	261.23	2.28	18.45	23.83

$(27536 \times 100) / 600 = 4589.3 \text{ dscfm}$

Rate Run 8

New-July Oxnard, LLC
ROSEMOUNT CEMS SOURCE TEST - March 16, 2016

3/23/2016 1:19 PM NCH7471000 1.48

Stack NOx	Stack CO	Stack O2	Duct Burner Gas Flow	Turbine Gas Flow	Steam Injection	Ammonia Injection	Turbine Load
10.53	24.48	14.83	13.70	299.35	2.37	18.47	23.88
10.56	24.48	14.83	13.26	299.35	2.36	18.32	23.83
10.62	24.48	14.62	13.26	299.35	2.36	18.64	23.87
10.67	24.48	14.61	12.97	299.35	2.38	18.38	24.02
10.69	24.48	14.58	13.22	299.35	2.38	18.57	24.08
10.70	24.48	14.58	13.72	299.35	2.37	18.57	24.03
10.45	24.48	14.56	14.26	299.35	2.37	18.26	24.03
10.41	24.48	14.56	15.06	299.35	2.33	18.26	24.03
10.51	24.48	14.56	15.26	299.35	2.36	18.64	24.04
10.52	24.48	14.54	17.25	299.35	2.27	18.56	24.12
10.49	24.48	14.53	15.88	299.35	2.27	18.26	24.24
10.48	24.48	14.53	15.83	299.35	2.28	18.26	24.13
10.49	24.48	14.51	17.08	299.35	2.23	18.50	24.13
10.79	24.48	14.42	18.01	299.35	2.24	18.50	24.02
10.13	24.48	14.53	18.10	299.35	2.36	18.60	23.88
10.15	24.48	14.54	18.53	299.35	2.34	18.64	24.11
10.15	24.48	14.56	18.43	299.35	2.22	18.24	23.97
10.16	24.48	14.56	18.91	299.35	2.24	18.24	23.85
10.16	24.48	14.57	15.96	299.35	2.24	18.62	24.06
10.25	24.48	14.57	15.61	299.35	2.25	18.83	24.11
10.26	24.48	14.58	15.15	299.35	2.26	18.83	24.07
10.26	24.48	14.60	14.60	299.35	2.29	18.41	24.06
10.11	24.48	14.61	14.81	299.35	2.27	18.77	23.86
10.19	24.48	14.61	15.28	299.35	2.27	18.54	23.91
10.28	24.48	14.63	14.97	299.35	2.29	18.45	23.82
10.45	24.48	14.63	14.91	299.35	2.28	18.42	23.84
10.45	24.48	14.63	13.23	299.35	2.28	18.53	23.91
10.42	24.48	14.63	13.02	299.35	2.25	18.24	23.85
10.46	24.48	14.63	13.46	299.35	2.26	18.36	23.83
10.21	24.48	14.63	13.60	299.35	2.25	18.07	23.83
10.52	24.48	14.63	13.63	299.35	2.27	18.28	23.90
10.51	24.48	14.63	11.71	299.35	2.28	18.83	23.90
10.50	24.48	14.63	11.43	299.35	2.28	18.83	23.82

(282.93 x 1000) / 60
= 4715.5 dscfm

Kata Kru 9

New-Indy Oxnard, LLC
ROSEMOUNT CEMS SOURCE TEST - March 16, 2016

MSL 0313.P

File No	Stack NOx	Stack CO	Stack O2	Duct Burner Gas Flow	Turbine Gas Flow	Steam Injection	Ammonia Injection	Turbine Load
15-Mar-16 13:41:00	10.26	24.91	14.63	10.90	260.24	921.2015.MQ	921.2015.MW	23.86
15-Mar-16 13:42:00	10.29	25.00	14.63	10.86	261.23	15-Mar-16 13:41:00	15-Mar-16 13:41:00	23.86
15-Mar-16 13:43:00	10.40	25.13	14.63	11.47	261.23	15-Mar-16 13:42:00	15-Mar-16 13:42:00	23.81
15-Mar-16 13:44:00	10.27	25.14	14.66	11.46	261.25	15-Mar-16 13:43:00	15-Mar-16 13:43:00	23.86
15-Mar-16 13:45:00	10.32	25.13	14.66	11.81	261.26	15-Mar-16 13:44:00	15-Mar-16 13:44:00	23.83
15-Mar-16 13:46:00	10.42	25.13	14.67	11.99	260.02	15-Mar-16 13:45:00	15-Mar-16 13:45:00	23.70
15-Mar-16 13:47:00	10.47	25.13	14.67	12.21	260.48	15-Mar-16 13:46:00	15-Mar-16 13:46:00	23.92
15-Mar-16 13:48:00	10.50	25.04	14.64	12.09	260.25	15-Mar-16 13:47:00	15-Mar-16 13:47:00	23.92
15-Mar-16 13:49:00	10.52	24.82	14.64	12.07	262.10	15-Mar-16 13:48:00	15-Mar-16 13:48:00	23.87
15-Mar-16 13:50:00	10.56	24.40	14.62	12.01	262.10	15-Mar-16 13:49:00	15-Mar-16 13:49:00	23.87
15-Mar-16 13:51:00	10.79	24.83	14.66	12.04	264.58	15-Mar-16 13:50:00	15-Mar-16 13:50:00	23.99
15-Mar-16 13:52:00	10.93	24.25	14.68	12.37	264.58	15-Mar-16 13:51:00	15-Mar-16 13:51:00	23.86
15-Mar-16 13:53:00	10.85	24.72	14.68	12.16	260.04	15-Mar-16 13:52:00	15-Mar-16 13:52:00	23.86
15-Mar-16 13:54:00	10.83	24.58	14.66	12.04	260.23	15-Mar-16 13:53:00	15-Mar-16 13:53:00	23.81
15-Mar-16 13:55:00	10.86	24.26	14.66	12.37	260.23	15-Mar-16 13:54:00	15-Mar-16 13:54:00	23.70
15-Mar-16 13:56:00	10.76	24.06	14.67	12.17	261.23	15-Mar-16 13:55:00	15-Mar-16 13:55:00	23.86
15-Mar-16 13:57:00	10.83	24.02	14.65	11.78	261.23	15-Mar-16 13:56:00	15-Mar-16 13:56:00	23.81
15-Mar-16 13:58:00	10.89	24.58	14.65	11.98	261.23	15-Mar-16 13:57:00	15-Mar-16 13:57:00	23.82
15-Mar-16 13:59:00	10.90	24.58	14.64	12.01	261.23	15-Mar-16 13:58:00	15-Mar-16 13:58:00	23.82
15-Mar-16 14:00:00	10.88	24.26	14.66	12.04	260.23	15-Mar-16 13:59:00	15-Mar-16 13:59:00	23.74
15-Mar-16 14:01:00	10.76	24.06	14.66	12.37	260.23	15-Mar-16 14:00:00	15-Mar-16 14:00:00	23.79
15-Mar-16 14:02:00	10.83	24.02	14.67	12.17	261.23	15-Mar-16 14:01:00	15-Mar-16 14:01:00	23.84
15-Mar-16 14:03:00	10.79	24.75	14.69	12.04	261.23	15-Mar-16 14:02:00	15-Mar-16 14:02:00	23.86
15-Mar-16 14:04:00	10.85	24.46	14.69	11.14	261.23	15-Mar-16 14:03:00	15-Mar-16 14:03:00	23.82
15-Mar-16 14:05:00	10.97	24.08	14.67	11.33	261.23	15-Mar-16 14:04:00	15-Mar-16 14:04:00	23.84
15-Mar-16 14:06:00	10.46	24.08	14.67	11.80	261.23	15-Mar-16 14:05:00	15-Mar-16 14:05:00	23.84
15-Mar-16 14:07:00	10.38	24.46	14.63	12.01	261.23	15-Mar-16 14:06:00	15-Mar-16 14:06:00	23.76
15-Mar-16 14:08:00	10.22	24.22	14.63	12.01	261.23	15-Mar-16 14:07:00	15-Mar-16 14:07:00	23.77
15-Mar-16 14:09:00	10.54	24.02	14.63	12.01	261.23	15-Mar-16 14:08:00	15-Mar-16 14:08:00	23.79
15-Mar-16 14:10:00	10.25	24.02	14.63	12.01	261.23	15-Mar-16 14:09:00	15-Mar-16 14:09:00	23.81
15-Mar-16 14:11:00	10.15	24.02	14.63	12.01	261.23	15-Mar-16 14:10:00	15-Mar-16 14:10:00	23.81
15-Mar-16 14:12:00	10.18	23.98	14.63	12.01	261.23	15-Mar-16 14:11:00	15-Mar-16 14:11:00	23.81
15-Mar-16 14:13:00	10.18	23.98	14.63	12.01	261.23	15-Mar-16 14:12:00	15-Mar-16 14:12:00	23.81
15-Mar-16 14:14:00	10.18	23.98	14.63	12.01	261.23	15-Mar-16 14:13:00	15-Mar-16 14:13:00	23.96
Average Stack NOx ppm (15% O2)	10.49	24.73	14.65	11.29	261.87	Ave. Steam Injection Rate (lbs)	Ave. Ammonia Injection (lbs/hr)	Ave. Turbine Load (MWh)
						2.28	18.26	23.81

(273.16 x 1000) / 60
= 4552.7 dscfm

EPA METHOD 20 MEASUREMENT
SYSTEM PERFORMANCE TIME

RESPONSE TIME

DATE OF TEST: 3/16/16

PROBE LOCATION: Stack

ANALYZER TYPE & MODEL #

NOx: API 200EH

CO: NA

O2: SERVOMEX 1400

Span Gas Concentration/Analyzer Full Scale Setting:

NOx; Gas, ppmv: 19.9

Full Scale setting, ppmv 25

CO; Gas, ppmv: N/A

Full Scale setting, ppmv N/A

O2; Gas, %: 19.9

Full Scale setting, % 25

UPSCALE TIME - Analyzer + Sampling System:

Trial #	Nox	CO	O2
1	<u>56</u>	<u>NA</u>	<u>48</u> seconds
2	<u>57</u>	<u>NA</u>	<u>50</u> seconds
3	<u>57</u>	<u>NA</u>	<u>50</u> seconds
Average Response	<u>57</u>	<u>NA</u>	<u>49</u> seconds

DOWNSCALE - Analyzer + Sampling System:

Trial #	Nox	CO	O2
1	<u>55</u>	<u>NA</u>	<u>48</u> seconds
2	<u>56</u>	<u>NA</u>	<u>50</u> seconds
3	<u>54</u>	<u>NA</u>	<u>48</u> seconds
Average Response	<u>55</u>	<u>NA</u>	<u>49</u> seconds

Slower
Average

57

NA

49 seconds

INSTRUMENT INFORMATION

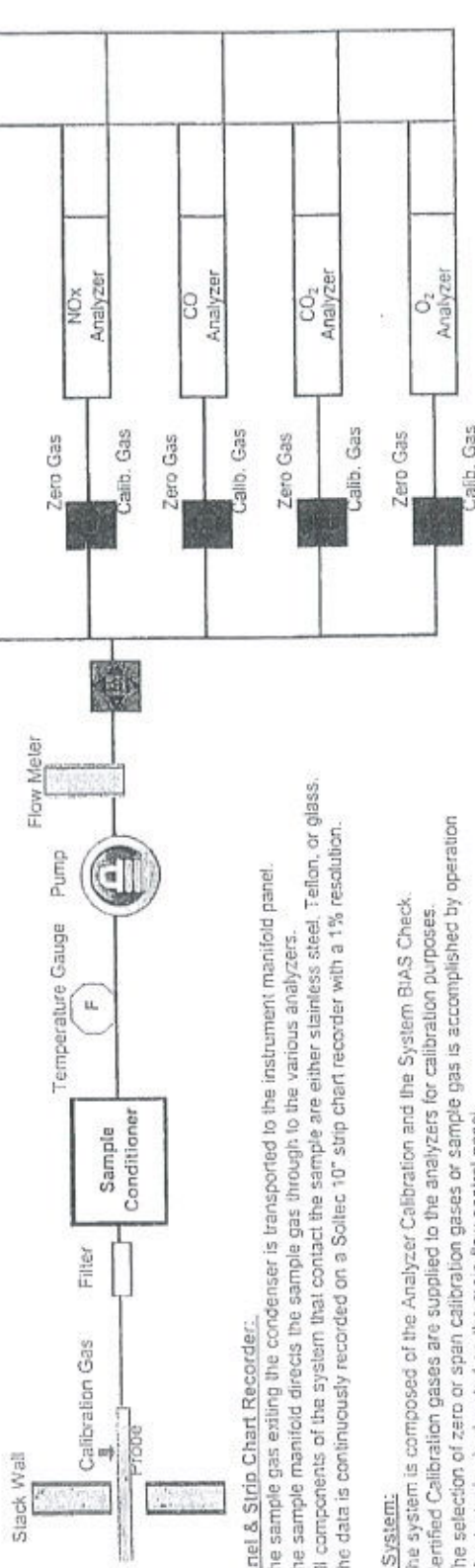
Method 100 – Sample Train Assembly

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.



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 infrared energy absorbed from energy beams passed 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
2/16/2015

OXIDES OF NITROGEN

<p>Unit No. - 1: Manufacturer: API Model No.: 200 EH Serial No.: 233 Method: Chemiluminescence Range (ppmv) 0-5000</p>	<p>Unit No. - 6: Manufacturer: API Model No.: 200 A Serial No.: 1013 Method: Chemiluminescence Range (ppmv) 0-50</p>
<p>Unit No. - 2: Manufacturer: API Model No.: 200 EH 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 EH 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: API Model No.: 200 EH Serial No.: 442 Method: Chemiluminescence Range (ppmv) 0-5000</p>	
<p>Unit No. - 5: Manufacturer: API Model No.: 200 EII Serial No.: 441 Method: Chemiluminescence Range (ppmv) 0-5000</p>	



SOURCE EMISSION INSTRUMENTATION LIST
2/16/2015

OXYGEN

Unit No. - 5: Manufacturer: Teledyne Model No.: 320-AX Serial No.: 108743 Method: Electrochemical Range (%): 0-5, 10, 25	Unit No. - 13: Manufacturer: Servomex Model No.: 1400 Serial No.: X1420/B707 Method: Paramagnetic Range (%): 0-25
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/B701/730 Method: Paramagnetic Range (%): 0-25, 100	
Unit No. - 10: Manufacturer: Servomex Model No.: 1400 Serial No.: 01420/B308 Method: Paramagnetic Range (%): 0-25	
Unit No. - 11: Manufacturer: Teledyne Model No.: 320-A Serial No.: 111211 Method: Electrochemical Range (%): 0-5, 10, 25	
Unit No. - 12: Manufacturer: Servomex Model No.: 1400 Serial No.: 01420/B7103 Method: Paramagnetic Range (%): 0-25, 100	

X AIR TESTING X

**SOURCE EMISSION INSTRUMENTATION
LIST
2/16/2015**

CARBON MONOXIDE

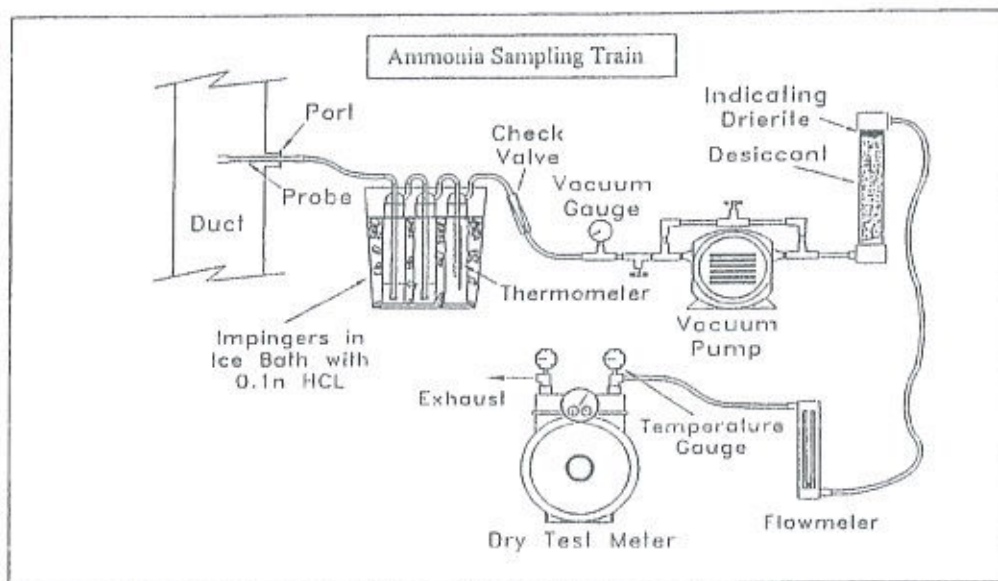
Unit No. - 1: Manufacturer: API Model No.: 300 EM Serial No.: 239 Method: NDIR/GFC Range (ppmv) 0-5, 10, 25, 50, 100, 250, 500, 1000, 2500, 5000	Unit No. - 2: Manufacturer: API Model No.: 300 EM Serial No.: 240 Method: NDIR/GFC Range (ppmv) 0-5, 10, 25, 50, 100, 250, 500, 1000, 2500, 5000
Unit No. - 3: Manufacturer: API Model No.: 300 EM Serial No.: 104 Method: NDIR/GFC Range (ppmv) 0-5, 10, 25, 50, 100, 250, 500, 1000, 2500, 5000	Unit No - 5: Manufacturer: Thermo Environmental (TECO) Model No.: 48H Serial No.: 25184-219 Method: NDIR/GFC Range (ppmv) 0-50, 100, 200, 500, 1000, 2000, 5000, 10000, 20000, 50000
Unit No. - 6: Manufacturer: Thermo Environmental (TECO) Model No.: 48H Serial No.: 29031-233 Method: NDIR/GFC Range (ppmv) 0-50, 100, 200, 500, 1000, 2000, 5000, 10000, 20000, 50000	Unit No. - 7: Manufacturer: Siemens Model No.: Ultramat 21p Serial No.: AO4-254 Method: NDIR Range (ppmv) 0-300
Unit No. - 10: Manufacturer: Thermo Environmental (TECO) Model No.: 48H Serial No.: 38391-257 Method: NDIR/GFC Range (ppmv) 0-50, 100, 200, 500, 1000, 2000, 5000, 10000, 20000, 50000	Unit No. - 11: Manufacturer: Thermo Environmental (TECO) Model No.: 48H Serial No.: 35226-249 Method: NDIR/GFC Range (ppmv) 0-50, 100, 200, 500, 1000, 2000, 5000, 10000, 20000, 50000
Unit No - 13: Manufacturer: Thermo Environmental (TECO) Model No.: 48 Serial No.: 48-15970-159 Method: NDIR/GFC Range (ppmv) 0-1, 2, 5, 10, 20, 50, 100, 200, 500, 1000	Unit No - 14: Manufacturer: Thermo Environmental (TECO) Model No.: 48 Serial No.: 48-23925-213 Method: NDIR/GFC Range (ppmv) 0-1, 2, 5, 10, 20, 50, 100, 200, 500, 1000

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
$V_0 = (17.71)V_m P_b / T_m$ <p>Where: V_0 = 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>	$C = 5.02 \times 10^4 W / V_0$ <p>Where: C = Ammonia concentration, ppmv on a dry basis; W = Total weight of ammonia in the impinger catch, for each run, (g); 5.02×10^4 = Constant derived from the MW and correcting to standard conditions.</p>

QUALITY ASSURANCE



AIR LIQUIDE

Air Liquide America
Specialty Gases LLC



RATA CLASS

Guaranteed +/- 1% Accuracy

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: A52014

AIR LIQUIDE AMERICA SPECIALTY GASES LLC P.O. No.:

8832 DICE ROAD
SANTA FE SPRINGS, CA 90670-2516

Document #: 59741570-001

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, EPA/600/R-12/531; May 2012. Do not use this standard if pressure is less than 100 psig.

Cylinder Number: CC30477 Certification Date: 22Dec2014 Exp. Date: 23Dec2017
Cylinder Pressure: 2000 PSIG Batch No: SBO0109718

COMPONENT	CERTIFIED CONCENTRATION (Moles)	ACCURACY (ABSOLUTE / RELATIVE)
NITRIC OXIDE	11.8 PPM	0.16 PPM / 1.4 %
NITROGEN - OXYGEN FREE	BALANCE	
TOTAL OXIDES OF NITROGEN	11.9 PPM	Reference Value Only

TRACEABILITY

REFERENCE STANDARD

COMPONENT	CONCENTRATION	UNCERTAINTY	CYLINDER	TYPE/SRM SAMPLE	EXP. DATE
NITRIC OXIDE	20.3400 PPM	0.2500 PPM	KAL004237	NTRM 2829	31May2016

ANALYTICAL METHOD

1st Analysis: 15Dec2014

COMPONENT	INSTRUMENT	ANALYTICAL/PRINCIPLE	CALIBRATED	CONCENTRATION
NITRIC OXIDE	ECOPHYSICS/CLD 84 M/84M0405	CHEMILUMINESCENCE	05Dec2014	11.76 PPM

2nd Analysis: 22Dec2014

COMPONENT	INSTRUMENT	ANALYTICAL/PRINCIPLE	CALIBRATED	CONCENTRATION
NITRIC OXIDE	ECOPHYSICS/CLD 84 M/84M0405	CHEMILUMINESCENCE	05Dec2014	11.80 PPM

APPROVED BY:

MT



AIR LIQUIDE

Air Liquide America
Specialty Gases LLC



Intertek

RATA CLASS

Guaranteed +/- 1% Accuracy

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: A52015

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

P.O. No.: VEN-12/30/14-BR-2901
Document #: 58419071-002

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. EPA/600/R-12/531, May 2012. Do not use this standard if pressure is less than 100 psig.

Cylinder Number: CC78730 Certification Date: 21Jan2015 Exp. Date: 22Jan2018
Cylinder Pressure: 2000 PSIG Batch No: SBO0104316

COMPONENT	CERTIFIED CONCENTRATION (Moles)		ACCURACY (ABSOLUTE / RELATIVE)		
NITRIC OXIDE	19.8	PPM	0.3	PPM	1.3 %
NITROGEN - OXYGEN FREE		BALANCE			
TOTAL OXIDES OF NITROGEN	19.9	PPM	Reference Value Only		

TRACEABILITY

REFERENCE STANDARD

COMPONENT	CONCENTRATION	UNCERTAINTY	CYLINDER	TYPE/SRM SAMPLE	EXP. DATE
NITRIC OXIDE	20.3400 PPM	0.2500 PPM	KAL004237	NTRM 2629	31May2016

ANALYTICAL METHOD

1st Analysis: 14Jan2015

COMPONENT	INSTRUMENT	ANALYTICAL/PRINCIPLE	CALIBRATED	CONCENTRATION
NITRIC OXIDE	ECOPHYSICS/CLD 84 M/B4M0405	CHEMILUMINESCENCE	31Dec2014	19.81 PPM

2nd Analysis: 21Jan2015

COMPONENT	INSTRUMENT	ANALYTICAL/PRINCIPLE	CALIBRATED	CONCENTRATION
NITRIC OXIDE	ECOPHYSICS/CLD 84 M/B4M0405	CHEMILUMINESCENCE	31Dec2014	19.78 PPM

APPROVED BY: _____

MT



Praxair
 5700 South Alameda Street
 Los Angeles, CA 90058
 Tel: (323) 585-2154 Fax: (714) 542-6689
 PGVPID: F22015

DocNumber: 000085685

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

PRAXAIR WHESE OXNARD CA
 455 E WOOLEY RD
 OXNARD CA 930300

Praxair Order Number: 32797732
 Customer P. O. Number: 05782328
 Customer Reference Number:

Fill Date: 10/16/2015
 Part Number: EV NIDDOXE90-AS
 Lot Number: 109528907
 Cylinder Size & Gutter: AS CGA 590
 Cylinder Pressure & Volume: 2000 psig 140 cu ft

Certified Concentration:

Expiration Date:	10/20/2023	NIST Traceable
Cylinder Number:	CC90061	Analytical Uncertainty:
3.99 %	CARBON DIOXIDE	± 0.5 %
12.07 %	OXYGEN	± 0.3 %
Balance	NITROGEN	

Certification Information: Certification Date: 10/20/2015 Term: 96 Months Expiration Date: 10/20/2023

This cylinder was certified according to the 2012 EPA Traceability Protocol, Document #EPA-600/R-12/531, using Procedure G1. Do Not Use this Standard if Pressure is less than 100 PSIG.

O2 responses have been corrected for CO2 interference

Analytical Data:

(R=Reference Standard Z=Zero Gas C=Gas Candidate)

1. Component: CARBON DIOXIDE

Requested Concentration: 4 %
 Certified Concentration: 3.99 %
 Instrument Used: HANNA VIA-S10 SiN 2807014
 Analytical Method: NDIR
 Last Multipoint Calibration: 10/10/2015

First Analysis Date: Date: 10/20/2015

Z: 0	R: 4.95	C: 3.99	Conc: 3.99
R: 4.95	Z: 0	C: 3.98	Conc: 3.98
Z: 0	C: 3.99	R: 3.95	Conc: 3.99

UOM: % Mean Test Assay: 3.987 %

2. Component: OXYGEN

Requested Concentration: 12 %
 Certified Concentration: 12.07 %
 Instrument Used: OXYMAT 5E
 Analytical Method: PARAMAGNETIC
 Last Multipoint Calibration: 10/9/2015

First Analysis Date: Date: 10/20/2015

Z: 0	R: 14.96	C: 12.07	Conc: 12.07
R: 14.96	Z: 0	C: 12.07	Conc: 12.07
Z: 0	C: 12.07	R: 14.96	Conc: 12.07

UOM: % Mean Test Assay: 12.07 %

Analyzed by:

Jacquelyne Field

Reference Standard Type:

GMS
 Ref Std. Cylinder #: CC237433
 Ref Std. Conc: 4.95 %
 Ref Std. Traceable to SRM #: 1674a
 SRM Sample #: 7-H-07
 SRM Cylinder #: FF10631

Second Analysis Date:

Date:
 Z: 0 R: 0 C: 0 Conc: 0
 R: 0 Z: 0 C: 0 Conc: 0
 Z: 0 C: 0 R: 0 Conc: 0
 UOM: % Mean Test Assay: 0 %

Reference Standard Type:

GMS
 Ref Std. Cylinder #: CC81686
 Ref Std. Conc: 14.96 %
 Ref Std. Traceable to SRM #: 2659a
 SRM Sample #: 71-E-15
 SRM Cylinder #: FF22331

Second Analysis Date:

Date:
 Z: 0 R: 0 C: 0 Conc: 0
 R: 0 Z: 0 C: 0 Conc: 0
 Z: 0 C: 0 R: 0 Conc: 0
 UOM: % Mean Test Assay: 0 %

Certified by:

Jack Fu

Information contained herein has been prepared at your request by qualified experts within Praxair Distribution, Inc. While we believe that the information is accurate within the limits of the analytical methods employed and is complete to the extent of the specific analyses performed, we make no warranty or representation as to the suitability of the use of the information for any purpose. The information is offered with the understanding that any use of the information is at the sole discretion and risk of the user. In no event shall the liability of Praxair Distribution, Inc., arising out of the use of the information contained herein exceed the fee established for providing such information.



Specialty Gases LLC



NATA CLASS

Guaranteed +/- 1% Accuracy

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 90670-2516P.O. No.: VEN-04/09/2015-RY
Document #: 59602042-004

Customer

AIRX TESTING SERVICES, INC.
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. EPA/600/R-12/531; May 2012. Do not use this standard if pressure is less than 100 psig.

Cylinder Number: ALM025184 Certification Date: 16Sep2013 Exp. Date: 17Sep2021
Cylinder Pressure: 2000 PSIG Batch No: SBO0109072

COMPONENT	CERTIFIED CONCENTRATION (Moles)		ACCURACY (ABSOLUTE / RELATIVE)			
CARBON DIOXIDE	8.15	%	0.06	%	/	1. %
OXYGEN	19.9	%	0.15	%	/	1. %
NITROGEN	BALANCE					

TRACEABILITY**REFERENCE STANDARD**

COMPONENT	CONCENTRATION	UNCERTAINTY	CYLINDER	TYPE/SRM SAMPLE	EXP. DATE
CARBON DIOXIDE	7.0160 %	0.0350 %	K012688	NTRM 1674/102505	03Feb2016
OXYGEN	10.0300 %	0.0700 %	K019295	NTRM 2658	01Feb2016

ANALYTICAL METHOD

1st Analysis: 16Sep2013

COMPONENT	INSTRUMENT	ANALYTICAL/PRINCIPLE	CALIBRATED	CONCENTRATION
CARBON DIOXIDE	VARIAN 8/3400/2808	FID & TCD	16Sep2013	8.149 %
OXYGEN	VARIAN 8/3400/2808	FID & TCD	11Sep2013	19.88 %

APPROVED BY:


 JMU



Air Liquide America
Specialty Gases LLC



RATA CLASS
Guaranteed +/- 1% Accuracy

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.: VEN-8/23/13-RY
Document #: 52033438-002

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

ANALYTICAL INFORMATION Gas Type : CO,BALN

This certification was performed according to EPA Traceability Protocol For Assay & Certification of Gaseous Calibration Standards; Procedure G-1. EPA/600/R-12/531; May 2012. Do not use this standard if pressure is less than 100 psig.

Cylinder Number: CC99308 Certification Date: 16Sep2013 Exp. Date: 17Sep2021
Cylinder Pressure: 2000 PSIG Batch No: SBO0077849

COMPONENT	CERTIFIED CONCENTRATION (Moles)	ACCURACY (ABSOLUTE / RELATIVE)
CARBON MONOXIDE	20.0 PPM	0.18 PPM / 0.9 %
NITROGEN	BALANCE	

TRACEABILITY

REFERENCE STANDARD

COMPONENT	CONCENTRATION	UNCERTAINTY	CYLINDER	TYPE/SRM SAMPLE	EXP. DATE
CARBON MONOXIDE	25.5400 PPM	0.1800 PPM	AAL073293	NTRM 2635/100809	01Jun2016

ANALYTICAL METHOD

1st Analysis: 16Sep2013

COMPONENT	INSTRUMENT	ANALYTICAL/PRINCIPLE	CALIBRATED	CONCENTRATION
CARBON MONOXIDE	LOW CO/APMA-360CE/42898860031	NDIR	12Sep2013	19.97 PPM

APPROVED BY: _____

MT



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
Cylinder Pressure***: 2000 PSIG

Certification Date: 24Jan2012

Exp. Date: 25Jan2020
Batch No: SBO0064442

COMPONENT
CARBON MONOXIDE
NITROGEN

CERTIFIED CONCENTRATION (Moles)
39.7 PPM
BALANCE

ACCURACY**
+/- 1%

TRACEABILITY
Direct NIST and VSL

*** 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#
LOW CO ANALY/APMA-360CE/42898860031

DATE LAST CALIBRATED
13Jan2012

ANALYTICAL PRINCIPLE
NDIR

ANALYZER READINGS

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

First Triad Analysis	Second Triad Analysis	Calibration Curve
<p>CARBON MONOXIDE</p> <p>Date: 16Jan2012 Response Unit: PPM</p> <p>Z1 = 0.00000 R1 = 49.93000 T1 = 38.84000</p> <p>R2 = 49.88000 Z2 = 0.00000 T2 = 38.85000</p> <p>Z3 = 0.00000 T3 = 38.86000 R3 = 49.99000</p> <p>Avg. Concentration: 39.73 PPM</p>	<p>Date: 24Jan2012 Response Unit: PPM</p> <p>Z1 = 0.00000 R1 = 49.98000 T1 = 38.86000</p> <p>R2 = 49.95000 Z2 = 0.00000 T2 = 38.85000</p> <p>Z3 = 0.00000 T3 = 38.86000 R3 = 49.97000</p> <p>Avg. Concentration: 39.72 PPM</p>	<p>Concentration = A + Bx + Cx² + Dx³ + Ex⁴</p> <p>r = 0.9999638</p> <p>Constants: A = -0.217003</p> <p>B = 1.023442 C = 0</p> <p>D = 0 E = 0</p>

APPROVED BY:

ZHUAN TRAN

DRY GAS METER CALIBRATION

Standard Pressure 29.92 in. hg.
 Standard Temperature 60 F
 Ambient pressure 29.98 in. hg.
 Ambient temperature 63 F

Unit Number J
 Date: 1/6/2016

ΔH in. H2O	TIME min.	WET GAS VOL. cf	DRY GAS VOL. in/out cf	W.G. AVG F	Temperature			*Y	†ΔH@ in. H2O
					D.G. IN F	D.G. OUT F	D.G. AVG. F		
0.75	9.67	5.000	946.038	66.0	69.0	67.0	67.0	1.0059	1.5671
			951.009		68.0	64.0			
0.75	9.68	5.000	963.992	66.0	71.0	69.0	70.0	1.0082	1.5614
			968.980		71.0	69.0			
0.75	9.62	5.000	963.992	66.0	72.0	69.0	70.3	1.0086	1.5414
			968.980		72.0	70.0			
1.50	7.05	5.000	974.567	66.0	72.0	70.0	71.0	1.0107	1.6534
			974.567		73.0	70.0			
1.50	7.07	5.000	979.544	65.0	73.0	71.0	71.8	1.0138	1.6541
			979.544		74.0	71.0			
1.50	7.07	5.000	984.516	65.0	72.0	71.0	72.0	1.0153	1.6533
			985.140		72.0	71.0			
2.25	5.82	5.000	990.104	65.0	73.0	72.0	72.0	1.0151	1.6806
			990.104		73.0	72.0			
2.25	5.82	5.000	995.062	65.0	72.0	71.0	72.0	1.0163	1.6806
			995.062		72.0	72.0			
2.25	5.73	5.000	1000.028	65.0	72.0	71.0	71.8	1.0142	1.6298
			1004.038		73.0	71.0			
3.0	5.12	5.000	1009.024	65.0	72.0	71.0	71.8	1.0083	1.7350
			1015.811		72.0	71.0			
3.0	5.07	5.000	1020.794	65.0	74.0	71.0	72.0	1.0094	1.7004
			1020.794		74.0	72.0			
3.0	5.10	5.000	1025.779	65.0	79.0	78.0	72.0	1.0090	1.7206
			951.911		68.0	68.0			
3.75	4.52	5.000	956.863	65.0	68.0	69.0	68.3	1.0057	1.7014
			1026.115		74.0	73.0			
3.75	4.53	5.000	1031.045	65.0	74.0	72.0	73.3	1.0207	1.6929
			1037.320		73.0	72.0			
3.75	4.55	5.000	1042.375	65.0	73.0	73.0	72.8	0.9946	1.7095
AVERAGE								1.0104	1.6526

Validity checks:

Meter Factor: 1.0104

* Y(max - min) ≤ .02 ?

ΔH@ : 1.6526

† |ΔH@ - ΔH@ avg. | ≤ .20 in. H2O ?

Calibration by: FT

Reviewed by: KK

EQUATIONS USED:

$$Y = (VWG * PBAR * (TDGavg + 460)) / ((VDG * (PBAR + (\Delta H / 13.6)) * (TWGavg + 460)))$$

$$\Delta H@ = ((0.0319 * \Delta H) / (PBAR * (TDGavg + 460))) * (((TWG + 460) * T) / VWG) ^ 2$$

Attachment to 6.a. 74.15N3-0157 (Nebraska Boiler)

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 tuned during this compliance period because it operated greater than 10 days 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		Cogen Emissions		Total Emissions		Rolling 12 Months	
						NOx (tons)	CO (tons)	NOx (tons)	CO (tons)	NOx (tons)	CO (tons)	NOx (tons)	CO (tons)
May-14	0	0	3,133,301	58	0.339%	0	0	4.04	5.13	4.04	5.13	45.30	63.91
June-14	0	0	3,133,301	58	0.339%	0	0	3.86	4.97	3.86	4.97	45.15	63.73
July-14	0	0	3,133,301	58	0.339%	0	0	3.97	5.04	3.97	5.04	45.22	62.68
August-14	0	0	3,133,301	58	0.339%	0	0	3.74	4.81	3.74	4.81	45.06	62.19
September-14	0	0	3,133,301	58	0.339%	0	0	3.26	4.64	3.26	4.64	44.39	60.29
October-14	0	0	129,180	5	0.014%	0	0	3.90	4.58	3.90	4.58	44.17	59.51
November-14	0	0	0	0	0.000%	0	0	3.63	4.33	3.63	4.33	43.99	57.85
December-14	0	0	0	0	0.000%	0	0	3.66	5.13	3.66	5.13	44.01	57.84
January-15	3,112,762	64.02	3,112,762	64	0.337%	0.31	0.038	3.86	4.71	4.17	4.75	44.93	58.15
February-15	0	0	3,112,762	64	0.337%	0	0	3.52	4.93	3.52	4.93	45.00	58.65
March-15	3,164,476	68.1	6,277,238	132	0.680%	0.33	0.041	3.96	5.45	4.29	5.49	45.86	58.86
April-15	0	0	6,277,238	132	0.680%	0.00	0.000	3.71	5.33	3.71	5.33	45.74	59.13
May-15	395,739	8.25	6,672,977	140	0.723%	0.04	0.010	3.72	6.18	3.76	6.19	45.46	60.19
June-15	0	0	6,672,977	140	0.723%	0.00	0.000	3.76	4.88	3.76	4.88	45.36	60.10
July-15	0	0	6,672,977	140	0.723%	0.00	0.000	3.73	5.08	3.73	5.08	45.12	60.14
August-15	0	0	6,672,977	140	0.723%	0.00	0.000	3.66	5.21	3.66	5.21	45.04	60.54
September-15	0	0	6,672,977	140	0.723%	0.00	0.000	3.41	5.08	3.41	5.08	45.19	60.98
October-15	3,683,829	88	10,356,806	228	1.122%	0.43	0.050	3.02	3.91	3.45	3.96	44.74	60.56
November-15	0	0	10,356,806	228	1.122%	0.00	0.000	3.75	5.72	3.75	5.72	44.86	61.75
December-15	0	0	10,356,806	228	1.122%	0.00	0.000	3.74	5.54	3.74	5.54	44.94	62.16
January-16	0	0	7,244,044	164	0.785%	0.00	0.000	3.81	5.63	3.81	5.63	44.59	63.04
February-16	0	0	7,244,044	164	0.785%	0.00	0.000	3.45	5.16	3.45	5.16	44.52	63.27
March-16	0	0	4,079,568	96	0.442%	0.00	0.000	3.84	5.77	3.84	5.77	44.07	63.55
Maximums:	3,683,829	88.00	10,356,806	228	1.122%	0.430	0.050	3.84	6.18	3.84	6.19	45.74	63.55

Sample Calculation:

Capacity Factor = Annual Fuel Usage * HHV natural gas / (Equipment rating * Hours/year)

Capacity Factor = (10 MMcf/yr) * (1,030 BTU/cf) / ((108 MMbtu/hr) * (8,760 hr/yr))

Capacity Factor = 1.09%

Tune-up: No, not during compliance year 2015 - 2016. However, ATC application submitted in November 2015 to address 10 day/yr exceedance last compliance year.

Nebraska Boiler Operation

Compliance Year: 4/1/2015 to 3/31/2016

(Unit was not operated during first quarter of 2016).

Operating days	Date	Time Online	Operating Hours	Fuel Usage (SCF)
	January			
1	1/14/2015	5:51 AM - 12:00 AM	6.15	58,724
1	1/18/2015	9:00 AM - 11:45 Am & 4:10 PM - 4:53 PM	3.47	22,754
1	1/19/2015	9:52 AM – 11:25 AM ; 5:00 AM - 7:00 AM	3.55	80,090
1	1/20/2015	7:00 AM - 7:00 AM	24	1,399,243
1	1/21/2015	7:00 AM - 7:00 AM	24	1,388,171
1	1/22/2015	7:00 AM - 9:51 AM	2.85	162,780
	February	0	0	0
	March			
1	3/3/2015	5:49 AM to 6:13 AM; 6:32 AM to 7:09 AM	1	8,968
1	3/17/2015	6:05 AM - 11:00 PM	16.92	803,008
1	3/23/2015	5:10 AM - 7:00 AM	1.83	15,414
1	3/24/2015	7:00 AM-12:05; 3:05PM-7:00 AM	21	755,667
1	3/25/2015	7:00 AM - 7:00 AM	24	1,383,747
1	3/26/2015	7:00 AM - 10:21 AM	3.35	197,610
12	1Q2015	Quarter total	132.12	6,277,176
	April	0	0	0
	May			
1	5/19/2015	5:15 AM-1:30 PM	8.25	395,739
	June	0	0	0
1	2Q2015	Quarter total	8.25	395,739
	July	0	0	0
	August	0	0	0
	Sept	0	0	0
0	3Q2015	Quarter total	0	0
	Oct			
1	10/7/2015	1:00 PM - 7:00 AM	18	94,654
1	10/8/2015	7:00 AM - 7:00 AM	24	976,158
1	10/9/2015	7:00 AM - 7:00 AM	24	1,424,612
1	10/10/2015	7:00 AM - 5:00 AM	22	1,188,405
	Nov	0	0	0
	Dec	0	0	0
4	4Q2015	Quarter total	88	3,693,829
2015 Total Fuel Usage (SCF)				10,356,744

NEW INDY
CONTAINERBOARD

January 4, 2016

County of Ventura
Air Pollution Control District
669 County Square Drive, 2nd Floor
Ventura, CA 93003

Attention: Mr. Daniel Cho

Subject: 2015 Annual Report for Emergency Generator

Dear Mr. Cho:

In compliance with Rule 74.9(F)(2) reporting requirement, New-Indy Oxnard mill is submitting the following information for the stationary internal combustion engine(s) rated at >50 HP maintained at the facility:

Unit	2015 Hours of Operation	2015 Maintenance Hours
Admin Emergency Generator WINCO PSS35000 88 HP	0	25.5 ✓

The above engine also operates in compliance with 40 CFR Part 63, Subpart ZZZZ. If you have any questions, please do not hesitate to contact 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

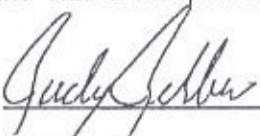
Ventura County APCD Rule 33.9 requires that "any document, including reports, schedule of compliance progress reports and compliance certifications, required by a Part 70 permit shall be certified by a responsible official." Therefore, this form shall be signed by the company's Responsible Official and 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>	<u>12/23/2015</u>
Title: <u>Mill Manager</u>	

Attachment to 7.b. PO0157PC1

Material Name:	Power Back **		3M Stainless Steel Polish		Electron LVC Aerosol		Sprayon All-Purpose Silicone Lube		TKX All Purpose Penetrant, Lubricant,		WD-40 Aerosol		Brakleen Brake Parts Cleaner-aerosol		Chain & Wire Rope Aerosol		LST Penetrant (LPS) Aerosol	
Container size (gal):	1		1		0.141		0.125		0.125		0.086		0.109		0.086		0.086	
VOC content (lb/gal) *:	0		2.8		0.818		5.1		4.9		2.6		5.5		2.04		0	
HHC content (lb/gal) *:	0		0		0		0		0		0		0		0		0	
	(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)	(containers/mo)	(gal/yr)
May-14	0	41	0	0	0	3.38	1	1.50	4	3.63	3	5.50	0.5	0.66	0	1.29	7	6.62
Jun-14	6	40	0	0	1	3.52	2	1.75	0	3.50	10	6.27	0.5	0.66	0	0.95	5	6.96
Jul-14	6	40	0	0	4	4.08	0	1.50	4	4.00	4	5.50	0.5	0.66	0	0.86	9	7.22
Aug-14	4	39	0	0	0	2.95	1	1.63	0	2.63	5	5.24	0.5	0.66	4	0.86	3	7.22
Sep-14	6	45	1	1	0	2.95	1	1.75	3	2.63	0	4.98	0.5	0.66	2	0.86	7	7.56
Oct-14	6	48	0	1	1	2.67	1	1.88	3	2.63	2	4.21	0.5	0.66	0	0.52	4	7.22
Nov-14	0	44	0	1	0	2.67	3	1.88	1	2.63	5	4.38	0.5	0.66	2	0.69	7	7.22
Dec-14	5	45	0	1	0	2.53	0	1.50	3	2.75	5	4.21	0.5	0.66	1	0.77	8	7.30
Jan-15	6	47	0	1	0	2.39	3	1.75	2	2.88	8	4.64	0.5	0.66	0	0.77	5	6.88
Feb-15	0	43	0	1	0	1.69	3	2.13	2	3.13	9	5.33	0.5	0.66	5	1.20	2	6.79
Mar-15	2	41	0	1	0	1.69	2	2.25	1	3.00	7	5.33	0.5	0.66	2	1.38	4	6.02
Apr-15	0	41	0	1	0	0.84	2	2.38	3	3.25	4	5.33	0.0	0.60	2	1.55	5	5.6
May-15	0	41	0	1	0	0.84	3	2.63	4	3.25	3	5.33	0.0	0.55	1	1.63	5	5.5
Jun-15	10	45	0	1	0	0.70	5	3.00	4	3.75	11	5.41	0.0	0.49	2	1.80	2	5.24
Jul-15	3	42	0	1	0	0.14	8	4.00	1	3.38	13	6.19	0.0	0.44	1	1.89	3	4.73
Aug-15	0	38	0	1	0	0.14	7	4.75	3	3.75	2	5.93	0.0	0.38	4	1.89	6	4.98
Sep-15	0	32	0	0	0	0.14	2	4.88	0	3.38	4	6.27	0.0	0.33	0	1.72	3	4.64
Oct-15	0	26	0	0	0	0.00	4	5.25	0	3.00	17	7.56	0.0	0.27	2	1.89	7	4.90
Nov-15	14	40	0	0	0	0.00	4	5.38	2	3.13	9	7.91	0.0	0.22	4	2.06	2	4.47
Dec-15	9	44	0	0	0	0.00	1	5.50	2	3.00	8	8.16	0.0	0.16	0	1.98	12	4.81
Jan-16	20	58	0	0	0	0.00	2	5.38	4	3.25	13	8.59	0.0	0.11	0	1.98	4	4.73
Feb-16	0	58	0	0	0	0.00	2	5.25	1	3.13	13	8.94	0.0	0.05	2	1.72	11	5.50
Mar-16	6	62	0	0	0	0.00	0	5.00	5	3.63	3	8.59	0.0	0.00	0	1.55	3	5.41
Rolling 12-Month Max.:	20	62	0	1	0	0.84	8	5.50	5	3.75	17	8.94	0.0	0.60	4	2.06	12	5.67
VOC Emissions (tpy):	0.0000		0.0014		0.0003		0.0140		0.009		0.0115		0.0017		0.0021		0.0000	
HHC Emissions (tpy):	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. ** Power Black safety data sheet updated this compliance period to show zero VOC.

Attachment to 7.c. P000157PC2


DATE	GAS TURBINE				COEN DUCT BURNER			MAXON BURNER				CEMS				
	Monthly (therms)	HHV	Monthly (scf)	Rolling 12-month (MMcf)	Monthly (therms)	Monthly (scf)	Rolling 12-month (MMcf)	Monthly (therms)	Monthly (scf)	Rolling 12-month (MMcf)	NOx (tons)	NOx, Rolling 12-month (tons)	Monthly CO (tons)	Monthly NOx (tons)	Rolling 12-Months CO (tons)	Rolling 12-Months NOx (tons)
May-14	1,991,566	1,022	194,869,472	2,212	28,113	2,750,783	28	4,541	442,988	11.3	0.020	0.52	5.13	4.04	63.9	44.8
Jun-14	1,969,600	1,010	195,009,901	2,217	23,791	2,355,545	29	15,834	1,544,655	12.1	0.071	0.56	4.97	3.86	63.7	44.9
Jul-14	2,048,549	1,011	202,626,014	2,223	26,728	2,643,719	31	9,512	927,925	11.8	0.043	0.54	5.04	3.97	62.6	44.9
Aug-14	2,038,714	1,019	200,070,069	2,227	27,774	2,725,613	32	10,397	1,014,259	12.1	0.047	0.56	4.81	3.74	62.2	44.8
Sep-14	1,894,562	1,004	188,701,394	2,219	31,226	3,110,159	34	7,379	719,844	11.9	0.033	0.55	4.64	3.26	60.3	44.1
Oct-14	1,953,455	1,028	190,024,805	2,232	33,148	3,224,514	34	10,467	1,021,088	12.1	0.047	0.56	4.58	3.90	59.5	44.2
Nov-14	1,896,642	1,027	184,677,897	2,232	32,092	3,124,830	33	12,570	1,226,242	12.5	0.057	0.58	4.33	3.63	57.9	44.0
Dec-14	1,891,722	1,031	183,484,190	2,235	57,992	5,624,830	37	13,932	1,359,109	13.7	0.063	0.63	5.13	3.66	57.8	44.0
Jan-15	1,865,159	1,035	180,208,599	2,254	36,451	3,521,836	37	15,402	1,502,512	14.5	0.069	0.67	4.71	3.86	58.1	44.6
Feb-15	1,803,120	1,034	174,382,979	2,251	38,012	3,676,209	39	12,856	1,254,142	14.0	0.058	0.64	4.93	3.52	58.6	44.7
Mar-15	1,815,019	1,021	177,768,756	2,260	47,994	4,700,686	41	13,897	1,355,695	13.3	0.063	0.61	5.45	3.96	58.8	45.2
Apr-15	1,849,458	1,022	180,964,579	2,253	66,501	6,506,927	44	12,894	1,261,605	13.6	0.06	0.63	5.33	3.71	59.1	45.1
May-15	1,837,028	1,029	178,525,559	2,236	73,807	7,172,714	48	12,059	1,171,875	14.4	0.05	0.66	6.18	3.72	60.1	44.8
Jun-15	1,922,179	1,026	187,346,881	2,229	29,234	2,849,286	49	20,792	2,026,483	14.8	0.09	0.68	4.88	3.76	60.0	44.7
Jul-15	1,860,598	1,025	181,521,756	2,208	32,164	3,137,997	49	11,421	1,114,208	15.0	0.05	0.69	5.08	3.73	60.1	44.5
Aug-15	1,856,862	1,027	180,804,479	2,188	40,032	3,897,928	51	21,199	2,064,149	16.1	0.10	0.74	5.21	3.66	60.5	44.4
Sep-15	1,731,315	1,024	169,073,730	2,169	53,754	5,249,443	53	5,845	570,759	15.9	0.03	0.74	5.08	3.41	60.9	44.5
Oct-15	1,246,301	1,045	119,263,254	2,098	98,040	9,381,836	59	20,002	1,914,089	16.8	0.09	0.78	3.91	3.02	60.2	43.6
Nov-15	1,837,115	1,031	178,187,682	2,092	109,096	10,581,582	66	10,537	1,022,048	16.6	0.05	0.77	5.72	3.75	61.6	43.8
Dec-15	1,843,961	1,037	177,816,876	2,086	79,816	7,696,859	68	14,316	1,380,566	16.6	0.06	0.77	5.54	3.74	62.0	43.8
Jan-16	1,890,917	1,031	183,406,111	2,089	93,391	9,058,279	74	10,683	1,036,149	16.2	0.05	0.75	5.63	3.81	62.9	43.8
Feb-16	1,775,737	1,036	171,403,185	2,086	73,767	7,120,409	77	14,768	1,425,470	16.3	0.07	0.76	5.16	3.45	63.2	43.7
Mar-16	1,910,204	1,032	185,097,287	2,093	96,722	9,372,287	82	23,896	2,315,504	17.3	0.11	0.80	5.77	3.84	63.5	43.6
Max. Rolling 12 Months				2,253	-	-	82	-	-	17.3	-	0.80	-	-	63.49	45.11
Permit Limit				2,847	-	-	854	-	-	36.5	-	1.90	-	-	97.66	50.0
Exceeds Permit Limit?				NO	-	-	NO	-	-	NO	-	NO	-	-	NO	NO
Excess Emissions [Max. Rolling 12 Months]				-594	-	-	-772	-	-	-19.2	-	-1.10	-	-	-34.17	-4.89
Excess Emissions [Compliance Year]				-897	-	-	-795	-	-	-29.4	-	-1.57	-	-	-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 pppv@15% O2) * (hourly fuel throughput) *Permit Limit = 854.1 MMcf/yr*
 ton/yr = Sum of hourly emissions for each month and evaluate annual limits based on rolling 12-month average. 2000 lb/ton. *Permit Limit = 36.5 MMcf/yr*

where $X = (8,740 \text{ dscf/MMBtu}) * ((\text{NOx or CO}) \text{ lb/lb-mole}) * (20.9/(20.9-15)) * (\text{lb-mole}/387 \text{ scf}) * 1E-6 * \text{HHV}$
 HHV = 1,025 btu/cf (average HHV of fuel analyses over compliance year)
 NOx = 46 lb/lb-mole
 CO = 28 lb/lb-mole

Stack Opacity Observation Protocol

Object:	Cogen Stack	
Date of Observation:	05/15/15	
Time of Observation:	10:00 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/Paper Drying	
Date of Observation:	05/15/15	
Time of Observation:	10:00 AM	
Fuel burned:	N/A	
Name of the observing person:	R. Lebrilla	
Signature		
Was Visible Emission Other Than Steam Present ?	No	

Object:	Maxon Burner	
Date of Observation:	05/15/15	
Time of Observation:	10:00 AM	
Fuel burned:	Natural Gas	
Name of the observing person:	R. Lebrilla	
Signature		
Was Visible Emission Other Than Steam Present ?	No	

Tod Neilan

From: Robyn Lebrilla <robyn.lebrilla@new-indycb.com>
Sent: Thursday, June 16, 2016 9:29 AM
To: Tod Neilan
Subject: New-Indy Oxnard - Web welder glue usage

Hi Tod,

As requested, below is the mill's usage information for the web welder glue during April 2015 to March 2016 certification period:

H.B. Fuller A1940
710 gal

Robyn Lebrilla

New-Indy Oxnard

5936 Perkins Road

Oxnard, CA, 93033

ph: 805.271.7284

fax: 805.488.5186

Robyn.Lebrilla@new-indycb.com



Stack Opacity Observation Protocol

Object:	Cogen Stack
Date of Observation:	08/07/15
Time of Observation:	9:00 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
<hr/>	
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:	08/07/15
Time of Observation:	9:00 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:	Maxon Burner
Date of Observation:	08/07/15
Time of Observation:	9:00 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

Stack Opacity Observation Protocol

Object:	Cogen Stack
Date of Observation:	11/25/15
Time of Observation:	9:35 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/Paper Drying
Date of Observation:	11/25/15
Time of Observation:	9:35 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:	Maxon Burner
Date of Observation:	11/25/15
Time of Observation:	9:35 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

Stack Opacity Observation Protocol

Object:	Cogen Stack
Date of Observation:	02/26/16
Time of Observation:	2:30 PM
Fuel burned:	Natural Gas
Name of the observing person:	O. Torres
Signature	<i>O. Torres</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:	02/26/16
Time of Observation:	2:30 PM
Fuel burned:	N/A
Name of the observing person:	O. Torres
Signature	<i>O. Torres</i>
Was Visible Emission Other Than Steam Present ?	no

Object:	Maxon Burner
Date of Observation:	02/26/16
Time of Observation:	2:30 PM
Fuel burned:	Natural Gas
Name of the observing person:	O. Torres
Signature	<i>O. Torres</i>
Was Visible Emission Other Than Steam Present ?	no

**VENTURA COUNTY
AIR POLLUTION CONTROL DISTRICT**
Memorandum

TO: Karl Krause

DATE: May 23, 1996

FROM: Terri Thomas

SUBJECT: Rule 54.B.2 Compliance

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.

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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