NEW INDY CONTAINERBOARD

May 14, 2020

Mr. Keith Macias
Compliance Manager
Ventura County APCD
669 County Square Drive
Ventura, CA 93003

Re: New-Indy Oxnard, LLC
2019-2020 Annual Title V Certification (PTO 0157)

Dear Mr. Macias:

Enclosed, please find a binder containing the 2019-2020 Annual Title V Certification Forms and related documentation for New-Indy Oxnard facility. The supporting documentation is included in Section 5.

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: 2019-2020 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

NEW INDY

CONTAINERBOARD

2019-2020 TITLE V COMPLIANCE CERTIFICATION

PERMIT TO OPERATE 0157

May 14, 2020

Prepared for: **New-Indy Oxnard, LLC**
5936 Perkins Road
Oxnard, California 93033

Prepared by: **Sespe Consulting, Inc.**
374 Poli Street, Suite 200
Ventura, California 93001

TABLE OF CONTENTS

2019 - 2020
Annual Title V Compliance Certification
New-Indy Oxnard, LLC
May 14, 2020

TABLE OF CONTENTS

2019 - 2020
Annual Title V Compliance Certification
New-Indy Oxnard, LLC
May 14, 2020

2019 - 2020
Annual Title V Compliance Certification
New-Indy Oxnard, LLC
May 14, 2020

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.

Signature and Title of Responsible Official:	Date:
Title: Mill Manager	5/14/2026

Time Period Covered by Compliance Certification

04 / 01 / 19 (MM/DD/YY) to 03 / 31 / 20 (MM/DD/YY)

2019 - 2020
Annual Title V Compliance Certification
New-Indy Oxnard, LLC
May 14, 2020

Section 2 Deviation Summary Forms

2019-2020
Annual Title V Compliance Certification
New-Indy Oxnard, LLC
May 14, 2020

Deviation Summary Table

Letter Date	Breakdown/Event	Comment
5/8/2019	CEMS – Invalid Data	During preventative maintenance the initial calibration of new O_2 probe drifted more than 5%. Unit recalibrated.
5/24/2019	Pi Data Loss	During scheduled maintenance moving virtual servers from separate hosts to a single host resulted in dropped network connections. Corrupted network card software reinstalled.
6/17/2019	CEMS – Sample Handling Failure	Stack gas flow restricted from meter. Adjusted controls and sample line. Installed new stack and calibration gas control valves.
7/19/2019	CEMS – Calibration Failure	Power disruption affected PLC microprocessor causing loss of calibration parameters. Manual calibration and direct parameter input to PLC by vendor technician.
8/13/2019	Cogen Excess NOx Emissions	Electrical control fluctuations disrupted ammonia dilution fan operating causing the ammonia automatic control valve to close and resulting in excess NOx emissions. Re-stablished fan and control valve operation.
11/14/2019	CEMS – Invalid Data	Faulty equipment installed during CEMS preventative maintenance caused poor gas flow resulting in invalid data. Faulty equipment was replaced.
12/31/2019	CEMS – Invalid Inlet NOx Data	Inlet NOx chemiluminescence detector damaged during power surge and replacement required configuration by vendor technician.
12/31/2019	CEMS – Invalid O_2 Data	Corrupted calibration software caused invalid O_2 data. Reinstalled software and recalibrated unit.
1/16/2020	CEMS – Invalid Inlet NOx Data	Damaged hose causing sample pump failure resulting in invalid NOx data. Replaced filter, hose, and pump.
3/19/2020	CEMS – Data Loss	Uninterruptable power supply (UPS) lost power causing CEMS to stop operating resulting in data loss. Power restored and UPS secured to prevent recurrence.
3/30/2020	CEMS – Data Loss	Inadvertent change of month in the distributed control system (DCS) caused Pi to error because it could not record data in the future. Correct month entered in DCS.

Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION
DEVIATION SUMMARY FORM

Period Covered by Compliance Certification: 04 / 01 / 19 (MM/DD/YY) to 03 / 31 / 20 (MM/DD/YY)

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time
STRMLN157-NOx, CO, NH3-rev241	CEMS - Invalid Data	Begin: 5/2/2019 10:31AM End: 5/2/2019, 1:14PM When Discovered: Date & Time 5/2/2019, 12:30PM
D. Parameters monitored:	**E. Limit:**	**F. Actual:**
Oxygen emissions	Continuous monitoring.	Intermittent due to preventative maintenance.
G. Probable Cause of Deviation:	**H. Corrective actions taken:**	
New probe drifted after initial calibration.	Recalibrated probe.	

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time
STRMLN157-NOx,CO, NH3-rev241	Pi Data Loss	Begin: 5/21/2019, 8:51AM End: 5/22/2019, 7:15AM When Discovered: Date & Time 5/21/2019, 11:16AM
D. Parameters monitored:	**E. Limit:**	**F. Actual:**
All Parameters	Continuous monitoring.	Intermittent
G. Probable Cause of Deviation:	**H. Corrective actions taken:**	
Network interface card software driver corruption.	Reinstalled driver.	

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time
STRMLN157-NOx,CO, NH3-rev241	CEMS - Sample Handling Failure	Begin: 6/13/2019, 8:10AM End: 6/13/2019, 9:57AM When Discovered: Date & Time 6/13/2019, 8:10AM
D. Parameters monitored:	**E. Limit:**	**F. Actual:**
All Parameters	Continuous monitoring.	Intermittent
G. Probable Cause of Deviation:	**H. Corrective actions taken:**	
Sample train not transmitting sufficient stack gas to CEMS	Stack and calibration gas control valves replaced.	

Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION
DEVIATION SUMMARY FORM

Period Covered by Compliance Certification: 04 / 01 / 19 (MM/DD/YY) to 03 / 31 / 20 (MM/DD/YY)

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time
STRMLN157-NOx,CO, NH3-rev241	CEMS - Calibration Failure	Begin: 7/15/19, 9:04PM End: 7/16/19, 3:24PM When Discovered: Date & Time 7/15/19, 9:04PM
D. Parameters monitored: All Parameters	E. Limit: Continuous monitoring	F. Actual: Intermittent due to damage from power disruption.
G. Probable Cause of Deviation: PLC microprocessor calibration parameters corrupted.	H. Corrective actions taken: Manual calibration and direct programming of parameters to PLC microprocessor by vendor technician.	

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time
STRMLN157-NOx,CO, NH3-rev241	CEMS - Excess NOx Emissions	Begin: 8/12/19, 1:55AM End: 8/12/19, 2:45AM When Discovered: Date & Time 8/12/19, 1:55AM
D. Parameters monitored: NOx	E. Limit: 12 ppmvd at 15%O2	F. Actual: 17.17 lb excess over 50 minute period.
G. Probable Cause of Deviation: Electric fluctuations stopped ammonia dilution fan causing ammonia control valve to close.	H. Corrective actions taken: Reestablished power to fan and opened ammonia control valve.	

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time
STRMLN157-NOx,CO, NH3-rev241	CEMS - Invalid Data	Begin: 11/12/19, 1:26PM End: 11/12/19, 5:28PM When Discovered: Date & Time 11/13/19, 9:00AM
D. Parameters monitored: All Parameters	E. Limit: Continuous Monitoring	F. Actual: Intermittent due to poor stack gas flow.
G. Probable Cause of Deviation: Replacement ammonia scrubber installed during preventative maintenance not working properly.	H. Corrective actions taken: Replaced ammonia scrubber.	

Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION
DEVIATION SUMMARY FORM

Period Covered by Compliance Certification: 04 / 01 / 19 (MM/DD/YY) to 03 / 31 / 20 (MM/DD/YY)

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time
STRMLN157-NOx,CO, NH3-rev241	CEMS - Invalid Inlet NOx Data	Begin: 12/25/19, 3:08PM End: 12/27/19, 4:40PM When Discovered: Date & Time 12/25/19,3:08PM
D. Parameters monitored:	**E. Limit:**	**F. Actual:**
NOx	Continuous monitoring	Intermittent
G. Probable Cause of Deviation:	**H. Corrective actions taken:**	
Inlet NOx chemiluminescence detector damaged during power surge.	Detector replaced by vendor technician.	

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time
STRMLN157-NOx,CO, NH3-rev241	CEMS - Invalid Oxygen Data	Begin: 12/27/19, 4:40PM End: 12/28/19, 10:25AM When Discovered: Date & Time 12/27/19, 4:40PM
D. Parameters monitored:	**E. Limit:**	**F. Actual:**
Oxygen	Continuous monitoring	Intermittent due to electric control fluctuations.
G. Probable Cause of Deviation:	**H. Corrective actions taken:**	
Electric control fluctuations caused corruption of calibration program.	Reinstalled calibration program.	

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time
STRMLN157-NOx,CO, NH3-rev241	CEMS - Invalid Inlet NOx Data	Begin: 1/14/20, 8:43AM End: 1/14/20, 3:43PM When Discovered: Date & Time 1/14/20, 8:43AM
D. Parameters monitored:	**E. Limit:**	**F. Actual:**
NOx	Continuous monitoring	Intermittent
G. Probable Cause of Deviation:	**H. Corrective actions taken:**	
Damaged hose caused sample pump failure.	Replaced filter, pump and tubing.	

Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION
DEVIATION SUMMARY FORM

Period Covered by Compliance Certification: 04 / 01 / 19 (MM/DD/YY) to 03 / 31 / 20 (MM/DD/YY)

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time
STRMLN157-NOx, CO, NH3-rev241	CEMS - Data Loss	Begin: 3/16/20, 3:30PM End: 3/16/20, 4:13PM When Discovered: Date & Time 3/16/20, 3:30PM
D. Parameters monitored:	**E. Limit:**	**F. Actual:**
All	Continuous monitoring	Intermittent
G. Probable Cause of Deviation:	**H. Corrective actions taken:**	
Uninterruptable power supply (UPS) lost power causing CEMS to stop operating resulting in data loss.	Power restored and UPS secured to prevent recurrence.	

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time
STRMLN157-NOx, CO, NH3-rev241	CEMS - Pi Data Loss	Begin: 3/26/20, 8:18AM End: 3/26/19, 11:51AM When Discovered: Date & Time 3/26/20, 10:40AM
D. Parameters monitored:	**E. Limit:**	**F. Actual:**
All	Continuous recording	Intermittent
G. Probable Cause of Deviation:	**H. Corrective actions taken:**	
Inadvertent change of month to a future month in the distributed control system (DCS) caused Pi to error.	Correct month entered in DCS.	

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time
INTENTIONALLY LEFT BLANK		Begin: End: When Discovered: Date & Time
D. Parameters monitored:	**E. Limit:**	**F. Actual:**
G. Probable Cause of Deviation:	**H. Corrective actions taken:**	

2019 - 2020
Annual Title V Compliance Certification
New-Indy Oxnard, LLC
May 14, 2020

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 / 19 (MM/DD/YY) to 03 / 31 / 20 (MM/DD/YY)

A. Emission Unit Description:			B. Pollutant:
Gas turbine based cogeneration unit			NOx
C. Measured Emission Rate:	**D. Limited Emission Rate:**	**E. Specific Source Test or Monitoring Record Citation:**	**F. Test Date:**
10.4 ppm @ 15% O2	12 ppm @ 15% O2	AirX Source Test	3/3/2020

A. Emission Unit Description:			B. Pollutant:
Gas turbine based cogeneration unit			CO
C. Measured Emission Rate:	**D. Limited Emission Rate:**	**E. Specific Source Test or Monitoring Record Citation:**	**F. Test Date:**
14.09 lb/hr	59.65 lbs/hr	AirX Source Test	3/3/2020

A. Emission Unit Description:			B. Pollutant:
Gas turbine based cogeneration unit & Nebraska Boiler			NOx
C. Measured Emission Rate:	**D. Limited Emission Rate:**	**E. Specific Source Test or Monitoring Record Citation:**	**F. Test Date:**
44.42 tons/yr by CEMS.	50 tons/yr	CEMS data	3/3/2020

A. Emission Unit Description:			B. Pollutant:
Gas turbine based cogeneration unit & Nebraska Boiler			CO
C. Measured Emission Rate:	**D. Limited Emission Rate:**	**E. Specific Source Test or Monitoring Record Citation:**	**F. Test Date:**
92.62 tons/yr by CEMS & calc.	97.66 tons/yr	CEMS data (cogen) Fuel use (boiler)	3/3/2020

A. Emission Unit Description:			B. Pollutant:
Gas turbine based cogeneration unit			NH3
C. Measured Emission Rate:	**D. Limited Emission Rate:**	**E. Specific Source Test or Monitoring Record Citation:**	**F. Test Date:**
1.4 @ 15% O2	20 @ 15% O2	AirX Source Test	3/3/2020

Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION

SOURCE TEST SUMMARY FORM

Period Covered by Compliance Certification: 04 / 01 / 19 (MM/DD/YY) to 03 / 31 / 20 (MM/DD/YY)

A. Emission Unit Description:			B. Pollutant:
Nebraska Boiler (RATA)			NOx
C. Measured Emission Rate:	**D. Limited Emission Rate:**	**E. Specific Source Test or Monitoring Record Citation:**	**F. Test Date:**
Relative Accuracy 8.6%	20%	AIRx Testing Services, Inc.	11/06/18

A. Emission Unit Description:			B. Pollutant:
Nebraska Boiler (RATA)			O2
C. Measured Emission Rate:	**D. Limited Emission Rate:**	**E. Specific Source Test or Monitoring Record Citation:**	**F. Test Date:**
Relative Accuracy 16.5%	20%	AIRx Testing Services, Inc.	11/06/18

A. Emission Unit Description:			B. Pollutant:
Nebraska Boiler compliance emissions testing			NOx
C. Measured Emission Rate:	**D. Limited Emission Rate:**	**E. Specific Source Test or Monitoring Record Citation:**	**F. Test Date:**
29.9 ppmv @ 3% O2	40 ppm @ 3% O2	AirX Testing Services, Inc.	10/17/2018

A. Emission Unit Description:			B. Pollutant:
Nebraska Boiler compliance emissions testing			CO
C. Measured Emission Rate:	**D. Limited Emission Rate:**	**E. Specific Source Test or Monitoring Record Citation:**	**F. Test Date:**
0.2 ppmv @ 3% O2	400 ppm @ 3% O2	AirX Testing Services, Inc.	10/17/2018

A. Emission Unit Description:			B. Pollutant:
Nebraska Boiler (initial compliance test - mid fire)			NOx
C. Measured Emission Rate:	**D. Limited Emission Rate:**	**E. Specific Source Test or Monitoring Record Citation:**	**F. Test Date:**
31.95 ppm @ 3% O2	40 ppm @ 3% O2	Energy Environmental Solutions, Inc.	10/20/16

Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION

SOURCE TEST SUMMARY FORM

Period Covered by Compliance Certification: 04 / 01 / 18 (MM/DD/YY) to 03 / 31 / 19 (MM/DD/YY)

A. Emission Unit Description:			B. Pollutant:
Nebraska Boiler (initial compliance test - mid fire)			CO
C. Measured Emission Rate:	**D. Limited Emission Rate:**	**E. Specific Source Test or Monitoring Record Citation:**	**F. Test Date:**
1.47 ppm @ 3% O2	400 ppm @ 3% O2	Energy Environmental Solutions, Inc.	10/20/16

A. Emission Unit Description:			B. Pollutant:
Nebraska Boiler (initial RATA)			NOx
C. Measured Emission Rate:	**D. Limited Emission Rate:**	**E. Specific Source Test or Monitoring Record Citation:**	**F. Test Date:**
Relative Accuracy 9.4%	20%	AirX Testing Services, Inc.	11/1/16

A. Emission Unit Description:			B. Pollutant:
Nebraska Boiler (initial RATA)			O2
C. Measured Emission Rate:	**D. Limited Emission Rate:**	**E. Specific Source Test or Monitoring Record Citation:**	**F. Test Date:**
Relative Accuracy 16.6%	20%	AirX Testing Services, Inc.	11/1/16

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

2019 - 2020
Annual Title V Compliance Certification
New-Indy Oxnard, LLC
May 14, 2020

Section 4 Permit Attachment Forms

Ventura County Air Pollution Control District

ANNUAL COMPLIANCE CERTIFICATION
PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 04 / 01 / 19 (MM/DD/YY) to 03 / 31 / 20 (MM/DD/YY)

A. Attachment # or Permit Condition #: 74.15N1-00157	D. Frequency of monitoring: Continuous
B. Description: Pursuant to Rule 74.15.B.1, the boiler shall be source tested not less than once every 24 months for NOx, CO, and Stack Gas Oxygen using ARB Method 100.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable: n/a
C. Method of monitoring: CEMS and biennial source test. Source test completed on 10/17/2018 and 11/06/2018.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): I H. *Excursions, exceedances, or other non-compliance? (Y or N): Y *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: 6.b.103N5-0157	D. Frequency of monitoring: Continuous
B. Description: Rule 103, Stack Monitoring - Nebraska Boiler	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable: n/a
C. Method of monitoring: Fuel meter and CEMS. Maximum rolling 12-month capacity factor is 4.304% and unit remains exempt from 103.A.2.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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

Ventura County Air Pollution Control District

ANNUAL COMPLIANCE CERTIFICATION
PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 04 / 01 / 19 (MM/DD/YY) to 03 / 31 / 20 (MM/DD/YY)

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

A. Attachment # or Permit Condition #: 6.e. 74.9N7	D. Frequency of monitoring: Continuous
B. Description: Stationary Internal Combustion Engines - Exemption for Emergency Engines	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable: n/a
C. Method of monitoring: Non-resettable hour meter. Log operating hours and reasons for operation.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: 6.f. 40CFR63ZZZZN9	D. Frequency of monitoring: Continuous
B. Description: Reciprocating Internal Combustion Engine - Existing Emergency Spark Ignited Engines	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable: n/a
C. Method of monitoring: Non-resettable hour meter. Log maintenance activities including oil change and spark plug/belt/hose inspection/changes.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION
PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 04 / 01 / 19 (MM/DD/YY) to 03 / 31 / 20 (MM/DD/YY)

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

A. Attachment # or Permit Condition #: 7.b. PO00157PC1	D. Frequency of monitoring: Continuous
B. Description: Solvent Cleaning Additional Requirements	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable: n/a
C. Method of monitoring: Monthly records of solvent usage. Maintain Safety Data Sheets showing VOC and HHC content of non-exempt solvents used.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: 7.c. PO00157PC1	D. Frequency of monitoring: continuous
B. Description: Stationary Gas Turbine Gas Path Cleaning Solvent Use	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable: n/a
C. Method of monitoring: Maintain solvent information.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

Ventura County Air Pollution Control District

ANNUAL COMPLIANCE CERTIFICATION
PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 04 / 01 / 19 (MM/DD/YY) to 03 / 31 / 20 (MM/DD/YY)

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

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

A. Attachment # or Permit Condition #: 7.f. PO00157PC2	D. Frequency of monitoring: Continuous
B. Description: Nebraska Boiler Flue Gas Recirculation(FGR) Requirements	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable: n/a
C. Method of monitoring: Record FGR variable frequency drive (VFD) percentage and speed (Hz) daily when unit is in operation.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

Ventura County Air Pollution Control District

ANNUAL COMPLIANCE CERTIFICATION
PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 04 / 01 / 19 (MM/DD/YY) to 03 / 31 / 20 (MM/DD/YY)

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

A. Attachment # or Permit Condition #: 7.h. PO00157PC2	D. Frequency of monitoring: Continuous, Daily
B. Description: Recordkeeping for Maxon duct burner.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable: n/a
C. Method of monitoring: Continuously record time and duration of burner operation and fuel consumption rate.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: 8.a. Rule 50	D. Frequency of monitoring: Quarterly
B. Description: Opacity	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable: EPA Method 22
C. Method of monitoring: Stack opacity routinely observed. Observations on 6/18/19, 9/6/19, 12/19/19,and 2/26/20 are formally documented.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION
PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 04 / 01 /19 (MM/DD/YY) to 03 / 31 /20 (MM/DD/YY)

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

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

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

Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION
PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 04 / 01 / 19 (MM/DD/YY) to 03 / 31 / 20 (MM/DD/YY)

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

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

A. Attachment # or Permit Condition #:	D. Frequency of monitoring:
B. Description: INTENTIONALLY BLANK	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring:	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

Ventura County Air Pollution Control District

ANNUAL COMPLIANCE CERTIFICATION
PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 04 / 01 / 19 (MM/DD/YY) to 03 / 31 / 20 (MM/DD/YY)

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

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

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

Ventura County Air Pollution Control District

ANNUAL COMPLIANCE CERTIFICATION
PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 04 / 01 / 19 (MM/DD/YY) to 03 / 31 / 20 (MM/DD/YY)

A. Attachment # or Permit Condition #: 9.a. Rule 74.1	D. Frequency of monitoring: Continuous
B. Description: Abrasive Blasting	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable: n/a
C. Method of monitoring: 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.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: 9.b. Rule 74.2	D. Frequency of monitoring: Continuous
B. Description: Architectural Coatings	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable: n/a
C. Method of monitoring: Routine surveillance and visual inspections. Vital Coatings (VCAPCD PTO 08244) performs architectural coating activities at the facility.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: 9.c. 40CFR61.M	D. Frequency of monitoring: Continuous
B. Description: Asbestos NESHAPS	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable: n/a
C. Method of monitoring: Follow inspection, recordkeeping, and notification procedures from 40CFR61.145. No asbestos-related activities during compliance period.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

Ventura County Air Pollution Control District

ANNUAL COMPLIANCE CERTIFICATION
PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 04 / 01 / 19 (MM/DD/YY) to 03 / 31 / 20 (MM/DD/YY)

A. Attachment # or Permit Condition #: 10.a. Part 70 General	D. Frequency of monitoring: Continuous
B. Description: Part 70 Permit General Conditions, Rule 32	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable: n/a
C. Method of monitoring: Throughput and emissions limits; other requirements of the permit; notification; permit modification and renewal; and reporting requirements.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): I H. *Excursions, exceedances, or other non-compliance? (Y or N): Y *If yes, attach Deviation Summary Form

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

A. Attachment # or Permit Condition #: 11.a 40CFR68RMP-157	D. Frequency of monitoring: Continuous
B. Description: Accidental Release Prevention and Risk Management Plans	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable: n/a
C. Method of monitoring: The facility is exempt from federal regulation based on quantity stored. State plan was updated in 2016 in coordination with Oxnard Fire Dept.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

Ventura County Air Pollution Control District

ANNUAL COMPLIANCE CERTIFICATION
PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 04 / 01 / 19 (MM/DD/YY) to 03 / 31 / 20 (MM/DD/YY)

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

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

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

Ventura County Air Pollution Control District

ANNUAL COMPLIANCE CERTIFICATION
PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 04 / 01 / 19 (MM/DD/YY) to 03 / 31 / 20 (MM/DD/YY)

A. Attachment # or Permit Condition #: 11.c.3. SHIELD-60KKKK	D. Frequency of monitoring: Continuous
B. Description: 40CFR60 Subpart KKKK, Standards of Performance for Stationary Combustion Turbines	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable: n/a
C. Method of monitoring: Facility did not modify or install equipment that would trigger these requirements. Therefore, this permit shield remains in effect.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: 11.c.4 SHIELD-63YYYY	D. Frequency of monitoring: Continuous
B. Description: National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable: n/a
C. Method of monitoring: Emissions of Hazardous Air Pollutants remain less than major source thresholds (10 tpy single HAP, 25 tpy combined HAPs).	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: 11.c.5 SHIELD-63JJJJJJ	D. Frequency of monitoring: Continuous
B. Description: Permit Shield for 40CFR Part 63, Subpart JJJJJJ	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable: n/a
C. Method of monitoring: The boiler is a gas-fired boiler and exempt from this regulation.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

Ventura County Air Pollution Control District

ANNUAL COMPLIANCE CERTIFICATION
PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 04 / 01 / 18 (MM/DD/YY) to 03 / 31 / 19 (MM/DD/YY)

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

A. Attachment # or Permit Condition #: 103N5-0157	D. Frequency of monitoring: Continuous
B. Description: Annual heat input capacity factor calculation.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable: n/a
C. Method of monitoring: Fuel meter and CEMS. Maximum rolling 12-month capacity factor is 4.302% and unit remains exempt from 103.A.2 (because the capacity factor is less than 30%).	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #:	D. Frequency of monitoring:
B. Description: INTENTIONALLY LEFT BLANK	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable: n/a
C. Method of monitoring:	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

2019 - 2020
Annual Title V Compliance Certification
New-Indy Oxnard, LLC
May 14, 2020

Section 5 Supporting Records

NEW INDY
CONTAINERBOARD

January 16, 2020

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

Attention: Ed Swede
Subject: Continuous Emission Monitoring System (CEMS) - Invalid Inlet NOx data

Dear Mr. Swede:

New-Indy Oxnard is submitting this follow-up report for the call made to VCAPCD Hotline by Robyn Lebrilla on January 14, 2020 at 11:05 AM.

On January 14 at 8:45 AM, Cogen Operator observed CEMS inlet NOx fault. During troubleshooting, E&I Technician found a damaged hose which caused the sample pump failure. Filter, pump and tubing were replaced, and system was dried out. A successful calibration was completed and CEMS was back online at 3:43 PM. Inlet NOx data was lost on January 14 from 8:43 AM to 3:43 PM, a total of 7 hours.

The Daily Emission Sheets, PI trends, ABB trends, Cogen Daily Log, 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) 271-7271.

Sincerely,

Zhen Han
Process Engineer

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:

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: [signature]	1/16/2020
Title: Mill Manager	

End Time 1/15/2020 7:00 Start Time 1/14/2020 7:00

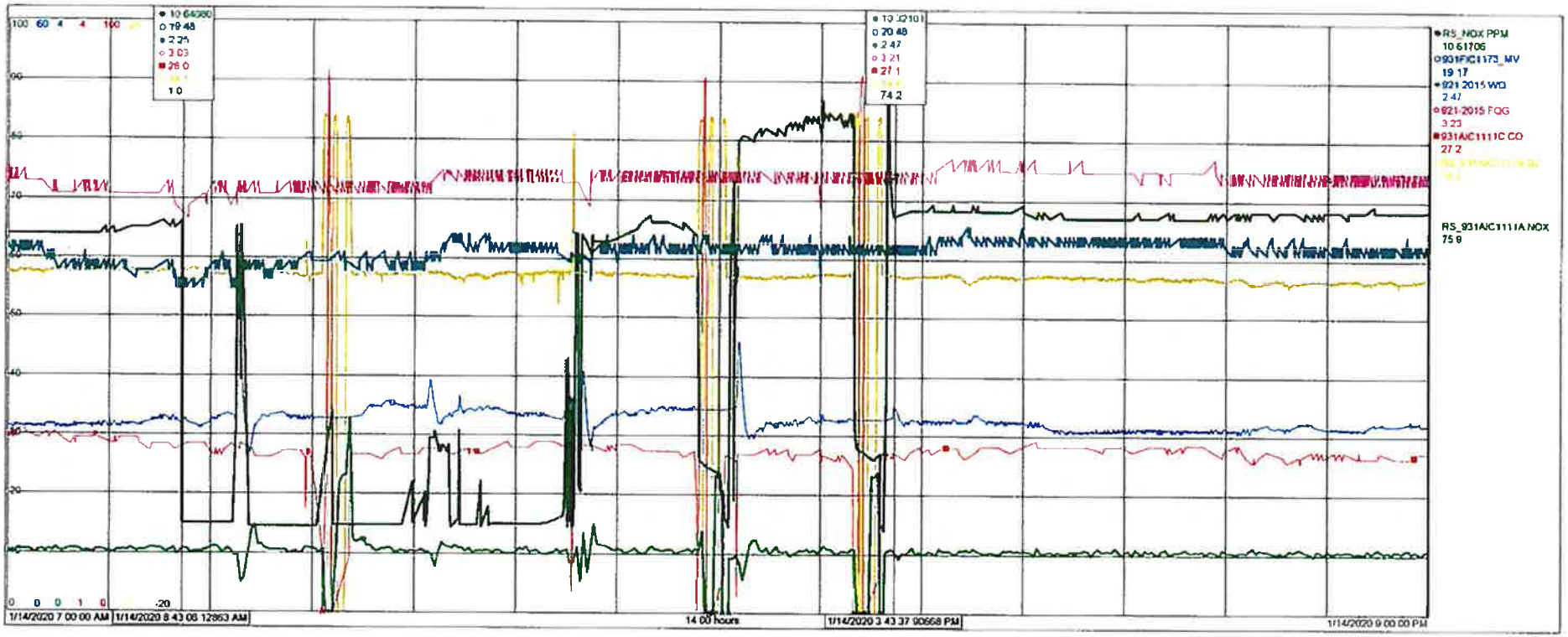
DAILY ENVIRONMENTAL REPORT

Time	Duct burner gas flow MSCFH	Turbine gas flow MSCFH	Mason Burner gas flow MMBTU/hr	Mason Burner gas flow SCFH	SCR Temperature °F	SCR inlet NOx ppm	Ammonia Usage lb/h	NH3 NOx mole ratio	Injection steam rate lb/s	Steam to fuel ratio lb/lb	NOx lb/h	Stack O2 %	Stack CO 15% O2 ppm	CO lb/h	Stack NOx 15% O2 ppm	3h Running Average NOx	Nebraska O2 %	Nebraska NOx ppm	Nebraska Corrected NOx (ppm) (3% O2)	Daily Av Cogen NOx lb/h	Daily Av Cog+Neb NOx lb/h
8 00	27 57	259 27	3 85	3736 68	714 85	59 68	18 89	0 66	2 39	0 76	11.32	14 42	27 11	17.67	10.48	10.49	20 84	0 00	0 00	11 05	11 05
9 00	28 27	254 40	3 91	2849 64	715 87	50 99	19 23	12 35	2 29	0 74	11.17	14 43	26 07	18.72	10.51	10.50	20 81	0 00	0 00	Daily Av Cogen	Daily Av Cog+Neb
10 00	29 83	257 03	3 58	3539 87	717 44	6 63	20 12	105 29	2 34	0 74	11.18	14 30	24 51	15.95	10.47	10.49	20 75	0 00	0 00	CO	CO
11 00	25 03	259 65	3 86	3739 69	718 49	4 03	20 93	80 76	2 38	0 75	11.06	14 32	24 06	15.55	10.39	10.46	20 73	0 00	0 00	lb/h	lb/h
12 00	25 11	262 93	3 88	3783 16	720 26	5 75	20 59	86 63	2 46	0 77	11.37	14 29	24 46	15.09	10.48	10.43	20 71	0 00	0 00	18 24	18 24
13 00	19 66	262 25	3 89	3789 98	709 78	29 50	20 21	27 19	2 45	0 76	11.14	14 43	25 76	15.35	10.51	10.46	20 71	0 00	0 00	Stack NOx analyzer	
14 00	17 24	264 38	3 88	3784 50	708 13	59 79	20 58	1 13	2 46	0 77	9.99	13 28	20 51	13.12	9.83	10.27	20 71	0 00	0 00	zero value	-0 13
15 00	17 12	265 15	3 87	3750 85	706 72	83 20	19 83	1 04	2 46	0 77	5.65	14 34	21 24	21.06	4.84	8.29	20 72	0 00	0 00	zero drift %	-0 13
16 00	18 66	265 32	3 87	3751 68	708 13	64 82	19 68	1 19	2 47	0 77	9.81	13 33	19 56	12.75	8 98	7.84	20 74	0 00	0 00	span value	82 18
17 00	19 06	266 60	3 87	3780 64	710 31	75 77	19 56	0 65	2 53	0 78	11.29	14 25	24 49	16.03	10.52	8.11	20 76	0 00	0 00	span drift %	0 60
18 00	17 23	266 44	3 89	3774 78	707 34	74 25	18 73	0 64	2 53	0 78	11.22	14 28	25 23	16.43	10.49	9 99	20 87	0 00	0 00		
19 00	19 15	266 35	3 92	3784 62	709 76	74 27	18 66	0 64	2 53	0 78	11.25	14 22	24 69	16.10	10.49	10.50	20 78	0 00	0 00	Stack CO Analyzer	
20 00	25 06	265 78	3 90	3765 48	720 10	74 92	18 95	0 63	2 48	0 77	11.48	14 10	23 24	15.46	10.48	10.49	20 78	0 00	0 00	zero value	0 03
21 00	25 56	264 38	3 91	3766 55	721 43	75 43	19 05	0 63	2 47	0 77	11.44	14 10	23 25	15.54	10.50	10.49	20 78	0 00	0 00	zero drift %	0 03
22 00	25 26	265 63	3 90	3781 37	720 32	76 12	19 33	0 63	2 49	0 77	11.57	14 12	23 46	15.80	10.56	10.51	20 72	0 00	0 00	span value	81 78
23 00	25 74	266 35	3 89	3781 98	719 38	74 38	18 59	0 61	2 53	0 76	11.52	14 13	24 79	16.56	10.47	10.51	20 78	0 00	0 00	span drift %	0 68
0 00	30 00	266 35	3 68	3760 29	723 29	74 22	18 42	0 60	2 53	0 78	11.09	14 08	24 64	16.77	10.49	10.51	20 79	0 00	0 00		
1 00	29 70	265 42	3 87	3749 99	723 99	75 47	18 64	0 60	2 50	0 77	11.70	14 08	24 58	16.59	10.54	10.50	20 80	0 00	0 00	Stack O2 Analyzer	
2 00	30 23	266 01	3 88	3782 78	724 69	75 57	18 65	0 60	2 51	0 77	11.72	14 08	24 84	16.64	10.50	10.51	20 79	0 00	0 00	span value	21 02
3 00	30 25	265 23	3 90	3771 08	724 84	77 00	19 17	0 61	2 48	0 77	11.72	14 08	24 44	16.50	10.55	10.53	20 81	0 00	0 00	span drift %	0 48
4 00	30 53	263 37	3 90	3770 86	724 54	77 35	19 37	0 61	2 47	0 77	11.57	14 10	24 45	16.41	10.44	10.50	20 82	0 00	0 00	zero value	-0 20
5 00	30 95	262 25	3 89	3764 97	724 37	77 31	19 40	0 62	2 48	0 77	11.61	14 10	24 44	16.44	10 53	10 51	20 83	0 00	0 00	zero drift %	-0 20
6 00	30 87	262 93	3 89	3763 97	724 45	77 46	19 47	0 62	2 47	0 77	11.64	14 10	24 57	16.56	10.53	10.50	20 84	0 00	0 00		
7 00	31 00	260 68	3 89	3764 48	722 28	78 19	19 63	0 62	2 49	0 76	11.57	14 12	24 61	16.45	10.53	10.53	20 83	0 00	0 00	Nebraska Gas	0

Comments CEMS inlet NOx lost data on 1/14/20 from 8 43 AM to 3 43 PM VCAPCD was notified on 1/14/20 at 11 05 AM

PRINT TIME: 1/16/2020 2:07 PM

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


RS_NOX PPM
10 61706
931FIC1173_MV
19 17
921 2015 WD
2 47
921-2015 FOG
3 23
931AIC1111C CO
27 2
RS_931AIC1111A.NOX
75 9
1/14/2020 7 00 00 AM
1/14/2020 8 43 06 12863 AM
14 00 hours
1/14/2020 3 43 37 90668 PM
1/14/2020 9 00 00 PM


2020-01-15 14:33
33MF
RSMT_4-20MA_ROSEMOUNT CEMS VALUES
Time Scope: 8 hours
150
100
25.0
113
75
18.8
75
50
12.5
38
25
6.3
0
0
0.0
100
75
50
25
0
10:00
2020-01-14
12:00
14:00
16:00
ON Name Description Attribute Treatment Ruler Time Ruler Value Current Value Unit Filter Time Offset Form
931AIC1111A.NOX B&W SCR INLET NOX MV Mom 15:44 2020-01-14 74.95 75.80 PPM
931AIC1111C.CO B&W BLR STACK RAW CO MV Mom 15:44 2020-01-14 28.98 28.10 PPM
931AIC1111B.O2 B&W BLR RAW O2% MV Mean 15:44 2020-01-14 14.32 14.46 %
931AIC1111D.NOX B&W BLR STACK NOX MV Mean 15:44 2020-01-14 11.52 10.97 PPM
931-AIC-1111.INCAL RSMT CEMS IN CAL MV Mom --- 0
931-aic-1111.trb RSMT CEMS TROUBLE MV Mom --- 1
Current Time
Save Trend...
Hide Table
D1 30 minutes
D2 1 hour
D4 1 day
D5 10 days
D6 Positioning...
D7 Trace Control...
D8 Analyze...
D9 Trace Config...
D10 Extended Config...
ABB

OFFICIAL DAILY COGENERATION LOG

NEW-INDY CONTAINERBOARD OXNARD MILL

DATE: 14 JAN 20

NIGHT SHIFT OPERATOR NAME: BENAVIDES

DAY SHIFT OPERATOR NAME: [illegible]

STEAM & WATER READINGS

	PERMEATE H_2O	CONCENTRATE H_2O	LP	HP
CURRENT	1889049	9803421	228655	2187
PREVIOUS	1825152	9797129	225010	2119

NEW DEMIN TRAILER YES ☐ NO ☐ TANK 1 % TANK 2 %

AMMONIA DELIVERY YES ☐ NO ☐ % FULL

CHILLER HOURS:

PACESETTER ⊘ / OFF ALARM: RED ☐ YELLOW ☐ GREEN ☒

TURBINE

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
FMV	%	53.19	46.73	49.80	52.51	51.00	58.12	53.62	51.81	53.75	52.75	52.38	52.25
Inlet Temp	°F	51	56	62	64	65	61	62	60	56	56	55	53
Humidity	%	7.1	5.1	2.1	3.1	3.1	4.1	11.2	10.2	13.2	10.2	7.2	6.2
Vibration (Max)	MILS	.26	.38	.24	.20	.23	.24	.24	.22	.25	.26	.26	.24
Steam Injection	#/SEC	2.50	2.19	2.38	2.44	2.47	2.56	2.50	2.44	2.50	2.50	2.50	2.44
Turbine L.O. Level	%	100	100	100	100	100	100	100	100	100	100	100	100
T54	°F	1431	1421	1453	1465	1463	1456	1460	1455	1451	1446	1440	1439

BATTERIES V HP RECOUPE FAL

AIR INLET DIFF IN/H20 HP RECOUPE FAR

L.O. DIFFERENTIAL PSI HP RECOUPE AFT

ONLINE TURBINE WATER WASH YES ☐ NO ☐ CRANK WASH YES ☐ NO ☐ > GALLONS CONDUCTIVITY MMOS

BATTERIES 128.7 V HP RECOUPE FAL

AIR INLET DIFF 2.3 IN/H20 HP RECOUPE FAR

L.O. DIFFERENTIAL 6 PSI HP RECOUPE AFT

BOILER FEED WATER PUMP OPERATION NO.1 PUMP YES ☒ NO ☐ NO.2 PUMP YES ☐ NO ☒

GENERATOR

		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	°F	152	151	153	154	154	154	153	152	152	151	150	150
L.O. Supply	°F	120	120	122	123	123	123	123	122	122	121	120	119 V
Gen. Vibration (Max)	IPS	.33	.32	.30	.32	.33	.32	.31	.32	.31	.32	.32	.32 F
Tie Line	MW	11.38	11.48	11.58	11.56	11.55	11.34	11.55	11.45	11.53	11.45	11.44	11.59
Generator Voltage	KV	12.80	12.81	12.82	12.82	12.81	12.81	12.99	12.99	12.99	13.00	13.00	13.00

GEN. 1150 AMPS GEN.VARS 5.53 MEGA VARS

FIELD 200 AMPS FIELD VOLTS 175 V

COOLING TWR INLET F COOLING TWR OUTLET F

GEN. 1150 AMPS GEN VARS 5.16 MEGA VARS

FIELD 195 AMPS FIELD VOLTS 175

COOLING TWR INLET F COOLING TWR OUTLET F

COGEN BOILER

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
450 Header Temp	°F	710	709	710	710	710	709	711	711	710	710	710	710
HP Drum Level	IN	-0.1	1.1	0.7	0.5	0.6	2.7	1.2	1.2	0.8	0.3	0.7	1.1
LP Drum Level	IN	-0.1	0.2	0.1	0.0	0.1	0.3	0.1	0.0	0.1	-0.2	0.1	0.1
HP Drum Pressure	PSI	474	474	474	474	474	474	474	474	474	474	474	467
LP Drum Pressure	PSI	154	154	154	154	154	154	154	154	154	154	154	152
CO	PPM	28.0	26.3	24.1	24.4	28.9	25.1	23.9	23.2	25.4	24.9	24.5	23.7
NOx	PPM	10.2	10.9	10.8	10.8	10.4	10.7	10.7	10.1	10.4	10.0	10.4	10.4
O_2	%	14.49	14.53	14.36	14.28	14.27	14.24	14.11	14.02	14.12	14.03	14.09	14.08
Hot Well Level	%	158	148	140	160	156	145	152	158	143	116	141	150

		8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	2:00	4:00	6:00
450 Header Temp	°F	710	711	710	710	709	710	710	709	710	710	710	710
HP Drum Level	IN	0.3	0.4	1.8	1.0	0.5	1.1	1.0	0.7	2.7	1.1	1.2	1.3
LP Drum Level	IN	0.1	0.2	0.2	0.3	0.1	0.1	0.1	-0.1	0.2	0.1	0.1	0.1
HP Drum Pressure	PSI	474	474	481	474	474	474	474	474	474	474	467	474
LP Drum Pressure	PSI	154	154	154	154	154	154	154	154	152	154	140	150
CO	PPM	27.0	24.0	26.3	IN DA	24.3	25.0	22.9	25.4	24.9	25.4	24.5	24.8
NOx	PPM	10.9	10.4	10.1	IN DA	10.6	10.2	10.9	10.5	10.6	10.4	10.1	10.8
O_2	%	14.45	14.21	14.42	IN DA	14.31	14.30	14.04	14.15	14.06	14.10	14.11	14.22
Hot Well Level	%	153	140	144	142	149	140	159	154	118	132	159	144

AUTO / ON / OFF

1150 SET POINT 451 1103 B SET POINT 446

DUCT BURNER 445 S/P

1150 SET POINT 451 1103 B SET POINT 446

DUCT BURNER MANUAL S.P. 445

COMPRESSORS

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
Filter Separator	PSI	217	221	221	223	223	221	221	221	221	221	221	221
Gas Receiver	PSI	405	405	406	405	405	405	406	405	406	405	406	406
Crankcase Oil Level %												FULL	
Frame Oil Pressure (25-50) PSI												28.39	
Temp. cooling °F T1												T2	61.3

GAS & ELECTRIC READINGS

	SCG LP	TURBINE	MAXON	DUCT BURNER	MEGAWATTS
CURRENT	0957620	2651190	3144866	606427	37165
PREVIOUS	0919870	2274410	3135725	541391	36555

BOILER TEST RESULTS

	DAY SHIFT	NIGHT SHIFT
BOILER FEEDWATER		
pH 8.75 - 9.5	9.01	9.11
Conductivity <5mmhos	7.23	7.38
Silica <20 ppb		
R.O.		
Feed TDS<1000 ppm		
Permeate TDS<10 ppm		
pH (Feed 7.5)	7.47	7.51
CONDENSATE		
HP-pH 8.5 -9.5	8.07	8.17
Conductivity <20mmhos	2.57	2.64
LP-pH 8.5-9.5	NO FLOW	
Conductivity <20mmhos	NO FLOW	
HP		
pH 9.5 - 10.5	10.23	10.17
Conductivity 75-150	171.2	172.4
Phosphate 5-15 ppm		
Silica <5 ppm		
Iron ppm		
LP		
pH 9.5 - 10.5		
Conductivity 75 - 150	NO FLOW	
Phosphate 5-15 ppm		
Silica <5 ppm		
Iron ppm		
MIXED BED		
pH 6.0 - 7.5	7.37	7.40
Conductivity <1mmhos	.41	.39
Silica <10 ppb		
HP Steam Test		
Silica <20 ppb		
SOFTENER		
Hardness <1.0 ppm		
Running (1 or 2)		(1)
STEAM TEST	7.85	7.79
Silica <20 ppb		
PV NO.2		
HP BLOW DOWN	DAY SHIFT:	
TIME:	9:00	
	NORTH TANK	SOUTH TANK
SALT	FEET	FEET

NOTES:

CHANGE SP PIC 160 TO 20 FROM 18

CHANGE SP PIC 350 TO 18 FROM 16.5

PER RUDY

New-Indy Oxnard Environmental Incident Report

Shaded section to be completed by the EMR

Name of Incident Invalid Inlet NOx Data	Incident Date 1/14/20
Exact Location Incident Cogen	

Reported By: Robyn Lebrilla	Estimated Start and Stop Times of Incident: 1/14 8:43 AM – 3:43 PM	Possible Cause: Water in sample handler

Incident Type: ☐ Spill Internal ☐ Improper Waste Disposal ☐ Spill External ☐ Near miss or below spill release guidelines X Air Emission ☐ Other________________	Released To ☐ Storm Water System ☐ Secondary Containment ☐ Process Sewer X Air ☐ Ground (External) ☐ Ground (Inside Mill Property) ☐ Near Miss ☐ Other________________

Detailed Description of Event:

1/14 8:45am Cogen Operator contacted E&I to resolve NOx inlet fault. Technician found damaged hose which caused the sample pump to fail. Filter, pump and tubing was replaced, and system dried out. CEM's was calibrated, calibration accuracy was verified, and unit was back online at 3:43 pm.

(if required use additional paper and attach)

Estimated Amount Released	pH	CONSISTENCY (%)	Estimated Monetary Loss	No. of Emergency Sandbags used	After event, Sandbags Removed/Disposed
☐ _____ Gallons ☐ _____Pounds ☐ Other________________				☐_____ Bags ☐ N/A	☐ Yes ☐ No

List Any External Emergency Clean Up Personnel Contacted N/A	List Any External Agencies Contacted *(Agency, person and time of call.)* *VCAPCD on 1/14/20 at 11:05 AM*
List Hueneme Personnel Contacted *(Foreman, Mill Manager, etc.)* Robyn Lebrilla	Any Acute or Chronic Health Risks *(refer to MSDS)* N/A

Describe Any Emergency Response Actions
Filter, pump and tubing was replaced, and system dried out.

Suggestions to Prevent Reoccurrence	Estimated Completion Date
1. Continue 3-month PM for system maintenance. This PM includes tubing inspection and replacement.	1. 1/15/2020
2. After major repairs are conducted, conduct 3-month PM to verify system is in proper condition.	2. 1/15/2020
3.	3.
4.	4.

Root Cause after investigation Damaged hose	Severity Level *(level 1 and 2 must be tracked through SHIMS)* ☐ 1 ☐ 2 ☐ 3 ☐ 4
Investigated By: Mark Wilder	Investigated Date: 1/14/2020

Follow Up	By When	Completion Date	By Whom

Issued by	Reviewed by	Approved by
1/16/20 Department Manager	for VKumpern Technical Superintendent 1/16/2020	1/16/2020 Mill Manager

Print Time: 1/15/2020 1:43:04 PM

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

NEW INDY
CONTAINERBOARD

March 19, 2020

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

Attention: Ed Swede
Subject: Continuous Emission Monitoring System (CEMS) – Data Loss

Dear Mr. Swede:

New-Indy Oxnard is submitting this follow-up report for the call made to VCAPCD Hotline by Zhen Han on March 16, 2020 at 4:30 PM.

On March 16 at 3:30 PM, Cogen operator noticed emission data loss. Appropriate personnel were notified immediately. During troubleshooting, E&I Technician found that the UPS (Uninterruptible Power Supply) for CEMS analyzer had lost power. UPS was restored and will be secured to prevent this incident from happening again. CEMS was back online at 4:13 PM. CEMS lost emission data on March 16 from 3:30 PM to 4:13 PM, a total of 0.72 hour. There were no excess emissions during this event.

The Daily Emission Sheets, PI trends, ABB trends, Cogen Daily Log, 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) 271-7271.

Sincerely,

Zhen Han
Process 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:

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: [signature]	3/19/2020
Title: Mill Manager	

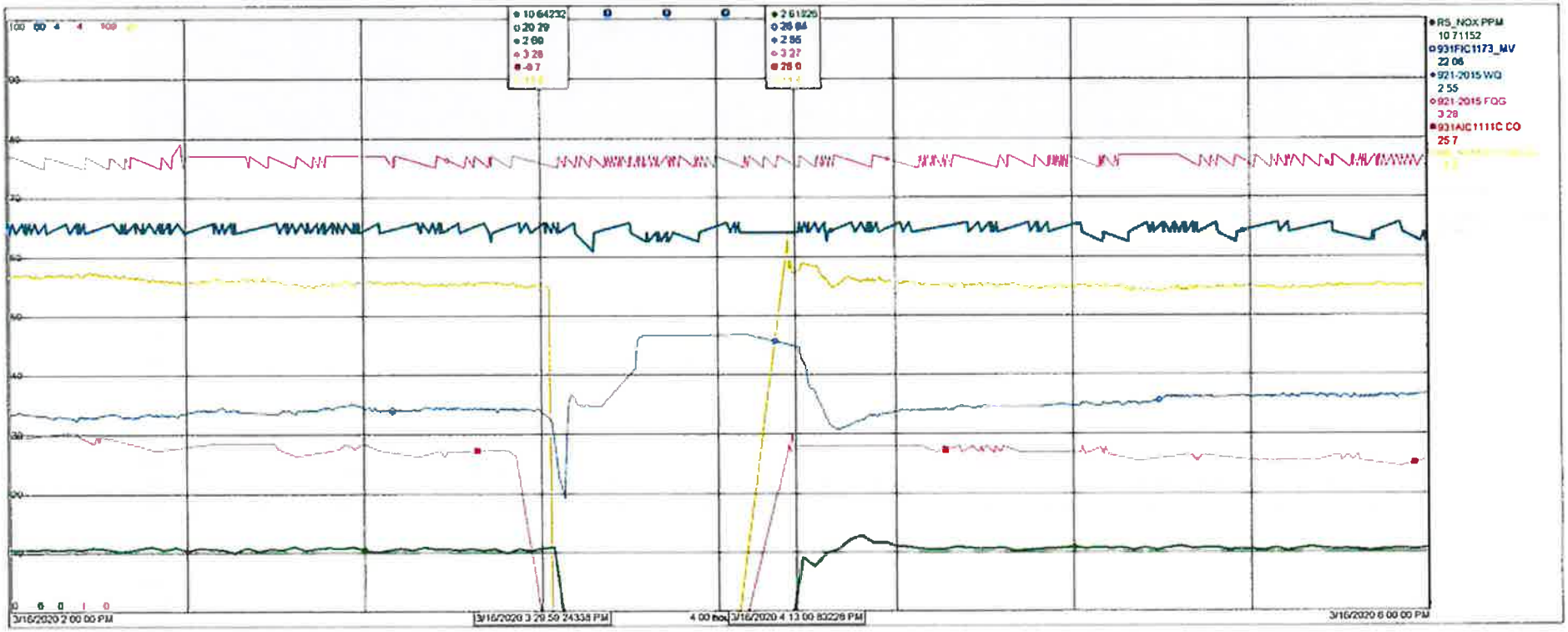
End Time 3/17/2020 7:00 Start Time 3/16/2020 7:00

DAILY ENVIRONMENTAL REPORT

Time	Duct burner gas flow MSCFH	Turbine gas flow MSCFH	Mixon Burner gas flow MMBTU/hr	Mixon Burner gas flow SCFH	SCR Temperature °F	SCR inlet NOx ppm	Ammonia Usage lb/h	NH3 NOx mole ratio	Injection steam rate lb/h	Steam to fuel ratio lb/lb	NOx lb/h	Stack O2 %	Stack CO 15% O2 ppm	CO lb/h	Stack NOx 15% O2 ppm	3h Running Average NOx	Nebraska O2 %	Nebraska NOx ppm	Nebraska Corrected NOx (ppm) (3% O_2)	Daily Av Cogen NOx lb/h	Daily Av Cog+Heb NOx lb/h
8 00	11 06	266 69	3 69	3549 47	699 34	76 24	20 96	0 70	2 52	0 77	11.13	14 25	24 00	15.41	10.49	10.56	20 88	0 00	0 00	11 18	11 18
9 00	13 57	266 69	2 36	2259 70	705 74	75 51	20 95	0 70	2 52	0 77	11.17	14 21	24 01	15.80	10,44	10,49	20 89	0 00	0 00	Daily Av Cogen	Daily Av Cog+Heb
10 00	8 62	267 03	3 71	3569 65	697 48	75 64	20 75	0 70	2 53	0 77	11.02	14 30	23 31	14.96	10.47	10,47	20 89	0 00	0 00	CO	CO
11 00	23 74	266 35	3 74	3598 98	721 12	75 70	21 75	0 70	2 52	0 77	11.65	14 00	22 15	15.18	10.61	10.51	20 68	0 00	0 00	lb/h	lb/h
12 00	24 29	270 27	3 75	3598 68	726 72	75 60	21 97	0 70	2 58	0 78	11.82	13 95	21 96	15.05	10.51	10.53	20 89	0 00	0 00	15 47	15 47
13 00	25 50	270 18	3 62	3672 62	728 13	73 03	21 87	0 66	2 56	0 78	11.53	13 99	23 24	15.64	10.64	10.58	20 90	0 00	0 00	Stack NOx analyzer	
14 00	15 61	269 50	2 50	2404 25	710 23	73 50	20 07	0 55	2 55	0 76	11.42	14 17	24 67	16.31	10.46	10,53	20 90	0 00	0 00	zero value	0 09
15 00	17 25	271 47	3 76	3613 61	711 13	73 61	20 16	0 68	2 59	0 78	11.65	14 00	24 80	16.52	10.56	10.56	20 77	0 00	0 00	zero drift %	0 09
16 00	26 70	270 79	3 86	3703 80	729 26	26 83	22 25	-0 85	2 58	0 76	5.51	5 84	10 60	7 77	4.40	8.48	20 84	0 00	0 00	span value	82 39
17 00	26 92	270 98	3 84	3673 59	730 89	58 95	22 15	-0 40	2 59	0 76	8.14	12 18	21 21	12.46	7.62	7.54	20 70	0 00	0 00	span drift %	0 09
18 00	26 39	270 20	3 79	3639 10	729 82	78 46	21 59	0 87	2 57	0 76	11.92	13 74	21 41	14.80	10.52	7.51	20 78	0 00	0 00		
19 00	25 30	270 52	3 79	3648 42	728 34	76 87	22 01	0 69	2 58	0 76	11 94	13 92	21 61	14.85	10.57	9.57	20 75	0 00	0 00	Stack CO Analyzer	
20 00	24 37	267 54	3 81	3660 56	725 39	76 69	21 82	0 69	2 52	0 77	11.83	13 96	21 89	14.85	10.45	10.51	20 75	0 00	0 00	zero value	-0 63
21 00	24 17	269 85	3 80	3645 10	724 93	76 55	21 82	0 68	2 54	0 78	11 79	13 99	22 02	15.07	10.47	10.50	20 75	0 00	0 00	zero drift %	-0 63
22 00	24 84	271 21	3 80	3642 01	726 83	76 83	21 84	0 68	2 59	0 78	11.87	13 97	22 00	15.20	10.51	10.48	20 75	0 00	0 00	span value	91 34
23 00	24 32	270 54	3 54	3299 77	725 68	78 82	21 69	0 68	2 58	0 78	11.80	14 00	22 21	15.23	10.47	10.48	20 78	0 00	0 00	span drift %	0 20
0 00	10 58	270 69	2 74	2731 42	700 21	75 86	20 82	0 69	2 58	0 78	11.22	14 30	24 18	15.74	10.46	10.48	20 77	0 00	0 00		
1 00	18 71	270 96	3 72	3564 71	710 29	73 63	19 92	0 66	2 59	0 79	11.56	14 14	25 11	16.95	10.45	10.46	20 85	0 00	0 00	Stack O2 Analyzer	
2 00	24 71	269 85	3 73	3583 24	719 89	72 87	19 68	0 65	2 57	0 78	11.81	14 06	24 62	16.68	10.60	10.50	20 86	0 00	0 00	span value	20 92
3 00	25 70	270 69	3 74	3594 73	722 08	72 75	19 72	0 65	2 58	0 78	11.86	14 02	24 46	16.79	10.48	10.51	20 87	0 00	0 00	span drift %	-0 02
4 00	27 06	267 46	3 75	3603 70	722 67	72 54	19 63	0 65	2 54	0 78	11.74	14 02	24 45	16.65	10.45	10.51	20 89	0 00	0 00	zero value	-0 10
5 00	14 09	267 20	2 72	2584 22	699 50	72 15	18 99	0 66	2 53	0 77	11.26	14 32	27 60	17.91	10.47	10.48	20 88	0 00	0 00	zero drift %	-0 10
6 00	13 70	268 65	1 41	1403 85	696 15	72 63	19 12	0 67	2 56	0 78	11.28	14 31	26 69	17.50	10.47	10.46	20 85	0 00	0 00		
7 00	13 95	271 30	3 73	3577 66	700 06	73 07	19 42	0 66	2 58	0 78	11.45	14 27	26 89	17.97	10.51	10.48	20 83	0 00	0 00	Nebraska Gas	0

Comments Emission data was lost due to power loss on 3/16/20 from 3.30 PM to 4 13 PM, a total of 0.72 hour VCAPCD was notified on 3/16/20 at 4 30 PM

PRINT TIME: 3/17/2020 10:57 AM
NOTE: This document is valid for ONE week after print time


RS_NOX PPM
10 71152
931FIC1173_MV
22 06
921-2015 WQ
2 55
921-2015 FQG
3 28
931AIC1111C CO
25 7
3/16/2020 2 00 00 PM
3/16/2020 3 29 59 24338 PM
3/16/2020 4 13 00 83226 PM
3/16/2020 6 00 00 PM


2020-03-17 16:02
36M
L2 782FI109.FT 2PLPR ROTOR FLSH WTR Lim L2 16:01:52
RSMT 4-20MA ROSEMOUNT CEMS VALUES
Time Scope: 8 hours
150
100
25.0
113
75
18.8
75
50
12.5
38
25
6.3
0
0
0.0
100
75
50
25
0
15:00
2020-03-16
17 00
19:00
21 00
ON Name Description Attribute Treatment Ruler Time Ruler Value Current Value Unit Filter Time Offset Form
931AIC1111A.NOX B&W SCR INLET NOX MV Mom 15:34 2020-03-16 --- 81.28 PPM
931AIC1111C.CO B&W BLR STACK RAW CO MV Mom 15:34 2020-03-16 --- 24.38 PPM
931AIC1111B.O2 B&W BLR RAW O2% MV Mean 15:34 2020-03-16 --- 14.05 %
931AIC1111D.NOX B&W BLR STACK NOX MV Mean 15:34 2020-03-16 --- 12.28 PPM
931-AIC-1111.INCAL RSMT CEMS IN CAL MV Mom --- 0
931-aic-1111.trb RSMT CEMS TROUBLE MV Mom --- 1
< >
<< >>
Current Time
Save Trend...
Hide Table
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...
ABB

OFFICIAL DAILY COGENERATION LOG

NEW-INDY CONTAINERBOARD OXNARD MILL

DATE: 16 MAR 20

DAY SHIFT OPERATOR — NAME: BENAVIDES

NIGHT SHIFT OPERATOR — NAME: MK

STEAM & WATER READINGS / GAS & ELECTRIC READINGS

	PERMEATE H_2O	CONCENTRATE H_2O	LP	HP	SCG LP	TURBINE	MAXON	DUCT BURNER	MEGAWATT
CURRENT	2737614	1586625	227217	2162	2387410	4906820	3499346	488339	73374
PREVIOUS	2724089	1527224	222525	1938	2345980	4520070	34411506	273772	72747

NEW DEMIN TRAILER YES [ ] NO [X] TANK 1 ___ % TANK 2 ___ % CHILLER HOURS: 104,877:31

AMMONIA DELIVERY YES [ ] NO [X] % FULL 83.7 PACESETTER (ON) / OFF ALARM: RED [ ] YELLOW [X] GREEN [ ]

TURBINE

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
FMV	%	52.81	53.12	54.56	52.38	55.62	54.38	53.5	53.7	51.1	56.2	53.2	52.6
Inlet Temp	°F	62	67	61	58	58	58	59	58	58	53	51	50
Humidity	%	—	—	—	—	—	—	0	0	0	0	0	0
Vibration (Max)	MILS	.30	.45	.46	.41	.49	.44	.21	.28	.26	.34	.32	.33
Steam Injection	#/SEC	2.50	2.50	2.56	2.50	2.62	2.56	2.56	2.56	2.50	2.62	2.56	2.50
Turbine L.O. Level	%	100	100	100	100	100	100	100	100	100	100	100	100
T54	°F	1482	1483	1483	1468	1481	1477	1473	1475	1469	1462	1454	1451

Day: BATTERIES 127.0 V; AIR INLET DIFF 2.2 IN/H2O; L.O. DIFFERENTIAL 6 PSI; HP RECOUPE FAL / FAR / AFT; CRANK WASH YES [ ] NO [X] > ___ GALLONS; CONDUCTIVITY MHOS ___

Night: BATTERIES 127.7 V; AIR INLET DIFF 2.3 IN/H2O; L.O. DIFFERENTIAL 6 PSI; HP RECOUPE FAL / FAR / AFT; BOILER FEED WATER PUMP OPERATION: NO.1 PUMP YES [X] NO [ ]; NO.2 PUMP YES [ ] NO [ ]

ONLINE TURBINE WATER WASH YES [ ] NO [X]

GENERATOR

		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	°F	152	152	150	147	147	147	147	148	150	150	150	149
L.O. Supply	°F	121	121	120	116	116	116	116	117	118	119	119	116
Gen. Vibration (Max)	IPS	.32	.33	.31	.31	.28	.29	.31	.33	.34	.33	.34	.34
Tie Line	MW	11.53	11.55	11.98	11.89	11.64	11.77	11.78	11.83	11.89	11.92	11.80	11.78
Generator Voltage	KV	12.99	13.00	12.99	12.99	13.00	13.00						

Day: GEN. 1150 AMPS; GEN.VARS 5.23 MEGA VARS; FIELD 200 AMPS; FIELD VOLTS 180 V; COOLING TWR INLET 82 °F; COOLING TWR OUTLET 74 °F

Night: GEN. 1152 AMPS; GEN.VARS 5.23 MEGA VARS; FIELD 198 AMPS; FIELD VOLTS 174 V; COOLING TWR INLET 80 °F; COOLING TWR OUTLET 74 °F

COGEN BOILER

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
450 Header Temp	°F	720	719	719	718	718	719	719	719	716	720	719	719
HP Drum Level	IN	0.5	2.5	1.3	-0.7	0.4	0.6	2	-0.4	2.4	0.3	1.6	1.1
LP Drum Level	IN	0.3	-1.4	0.8	-0.6	-0.6	0.8	0.7	-0.1	0	0.6	0.9	0.4
HP Drum Pressure	PSI	468	475	475	475	475	475	475	475	475	475	475	475
LP Drum Pressure	PSI	154	154	154	156	154	154	154	154	157	154	154	156
CO	PPM	24.8	19.0	22.1	23.8	24.3	22.3	21.6	22.8	25	24.8	24.2	28.5
NOx	PPM	10.7	10.8	10.6	10.3	10.1	10.6	10.3	10.9	10.5	10.7	10.5	9.9
O_2	%	14.19	14.51	13.98	14.05	13.99	13.84	13.89	14.03	14.26	14.13	14.00	14.37
Hot Well Level	%	138	149	154	150	147	141	163	171	152	161	159	142

		8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	2:00	4:00	6:00
450 Header Temp	°F	718	719	720	720	719	718	720	718	719	718	720	722
HP Drum Level	IN	1.4	3.6	0.3	2.8	0.8	2.4	0	3.6	2.1	0.9	1.2	2.1
LP Drum Level	IN	0.5	0.0	0.7	-0.9	0.3	0.7	-0.1	-0.1	0.9	0.2	0.3	6.5
HP Drum Pressure	PSI	475	475	475	475	475	475	475	475	475	475	475	468
LP Drum Pressure	PSI	154	154	154	154	154	154	154	154	154	154	154	150
CO	PPM	24.7	C	21.1	21.0	X	21.7	21.4	22.7	26.4	24.3	24.2	23.1
NOx	PPM	10.4	A	10.8	10.8	X	10.2	10.9	10.5	10.6	10.8	10.9	10.5
O_2	%	14.15	L	13.87	14.82	X	13.93	13.95	13.96	14.28	14.01	13.98	13.94
Hot Well Level	%	149	151	149	139	140	148	141	156	146	151	153	142

AUTO / ON / OFF

Day: 1150 SET POINT 451; 1103 B SET POINT 446; DUCT BURNER MANUAL; S/P 445

Night: 1150 SET POINT 451; 1103 B SET POINT 444; DUCT BURNER; S.P. 445

COMPRESSORS

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
Filter Separator	PSI	223	223	223	219	219	219	215	219	223	223	221	221
Gas Receiver	PSI	411	409	409	410	410	409	411	410	409	410	410	411

Day: Crankcase Oil Level % FULL; Frame Oil Pressure (25-50) PSI 26.14; Temp cooling °F T1 ___ T2 61.5

Night: Crankcase Oil Level % 100; Frame Oil Pressure (25-50) PSI 28.72; Temp. cooling °F T1 ___ T2 58.6

BOILER TEST RESULTS

	DAY SHIFT	NIGHT SHIFT
BOILER FEEDWATER		
pH 8.75 - 9.5	9.10	9.2
Conductivity <5mmhos	8.12	8.0
Silica <20 ppb		
R.O.		
Feed TDS<1000 ppm	934.7	
Permeate TDS<10 ppm	55.09	
pH (Feed 7.5)	6.47	6.9
CONDENSATE		
HP-pH 8.5 - 9.5	8.56	
Conductivity <20mmhos	2.00	
LP-pH 8.5-9.5	8.58	
Conductivity <20mmhos	4.09	
HP		
pH 9.5 - 10.5	10.40	10.2
Conductivity 75-150	138.7	136
Phosphate 5-15 ppm		
Silica <5 ppm		
Iron ppm		
LP		
pH 9.5 - 10.5		
Conductivity 75 - 150		
Phosphate 5-15 ppm		
Silica <5 ppm		
Iron ppm		
MIXED BED		
pH 6.0 - 7.5	8.06	7.8
Conductivity <1mmhos	.99	.36
Silica <10 ppb		
HP Steam Test	pH: 8.06	
Silica <20 ppb		PH 8.1
SOFTENER		
Hardness <1.0 ppm		
Running (1 or 2)		1
STEAM TEST pH	8.51	
Silica <20 ppb		
PV NO.2	pH: 8.72 cond: 7.39	
HP BLOW DOWN	DAY SHIFT: @ 1004	
TIME:		

	NORTH TANK	SOUTH TANK
SALT	FEET	FEET

NOTES: 3.3 MF 5/8: HTT — MK

New-Indy Oxnard Environmental Incident Report

Shaded section to be completed by the EMR

Name of Incident Emission Data Loss	Incident Date 3/16/20
Exact Location Incident Cogen	

Reported By: Zhen Han	Estimated Start and Stop Times of Incident: 3/16 3:30 PM – 4:13 PM	Possible Cause: Lost control power to Analyzer

Incident Type: ف Spill Internal ف Spill External ف Improper Waste Disposal ف Near miss or below spill release guidelines X Air Emission ف Other_____	Released To ف Storm Water System ف Process Sewer ف Ground (External) ف Near Miss ف Other_____ ف Secondary Containment X Air ف Ground (Inside Mill Property)

Detailed Description of Event: Operator quickly noticed loss of signal to DCS and set ammonia valve to a position greater than operation prior to loss of power. E&I contacted, and cause resolved. UPS lost power.

(if required use additional paper and attach)

Estimated Amount Released	pH	CONSISTENCY (%)	Estimated Monetary Loss	No. of Emergency Sandbags used	After event, Sandbags Removed/Disposed
ف _____ Gallons ف _____Pounds ف Other_____				ف_____ Bags ف N/A	ف Yes ف No

List Any External Emergency Clean Up Personnel Contacted N/A	List Any External Agencies Contacted *(Agency, person and time of call.)* *VCAPCD on 3/16/20 at 4:30PM*
List Hueneme Personnel Contacted *(Foreman, Mill Manager, etc.)* Robyn Lebrilla, James West and Lars Gustavson	Any Acute or Chronic Health Risks *(refer to MSDS)* N/A

Describe Any Emergency Response Actions: Power was restored

Suggestions to Prevent Reoccurrence	Estimated Completion Date
1. Secure power source.	1. 3/27/20
2.	2.
3.	3.
4.	4.

Root Cause after investigation: Loss of power.	Severity Level *(level 1 and 2 must be tracked through SHIMS)* ف 1 ف 2 ف 3 ف 4
Investigated By: Lars Gustavson	Investigated Date: 3/16/20

Follow Up	By When	Completion Date	By Whom

Issued by 3/17/20 Department Manager	Reviewed by 3/17/20 Technical Superintendent	Approved by 3/19/2020 Mill Manager

Print Time: 3/17/2020 3:56:48 PM

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

NEW INDY
CONTAINERBOARD

March 30, 2020

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

Attention: Ed Swede
Subject: Continuous Emission Monitoring System (CEMS) – Data Loss

Dear Mr. Swede:

New-Indy Oxnard is submitting this follow-up report for the call made to VCAPCD Hotline by Zhen Han on March 26, 2020 at 10:40 AM.

On March 26 at 8:18 AM, all data from PI data collection system (PI) flatlined. While troubleshooting, it was discovered that a wrong month (5/26 rather than 3/26) was inadvertently entered to correct the time on DCS (Distributed Control System), which was off by a few minutes. *NOTE: CEMS data are collected in the DCS and saved for a maximum of 10 days. Real-time data from DCS are transferred and stored in PI.*

The forward leap of two months caused PI to error as it could not record data in the future. Once the date on DCS was corrected, both DCS and PI started recording valid data. Emission data was lost on March 26 from 8:18 AM to 11:51 AM, a total of 3.55 hours. To prevent this incident from recurring, a SOP for updating/changing date and time parameters in DCS will be developed.

The Daily Emission Sheets, PI trends, ABB trends, Cogen Daily Log, 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) 271-7271.

Sincerely,

Zhen Han
Process Engineer

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:

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: [signature]	3/31/2020
Title: Mill Manager	

End Time 3/27/2020 7:00 Start Time 3/26/2020 7:00

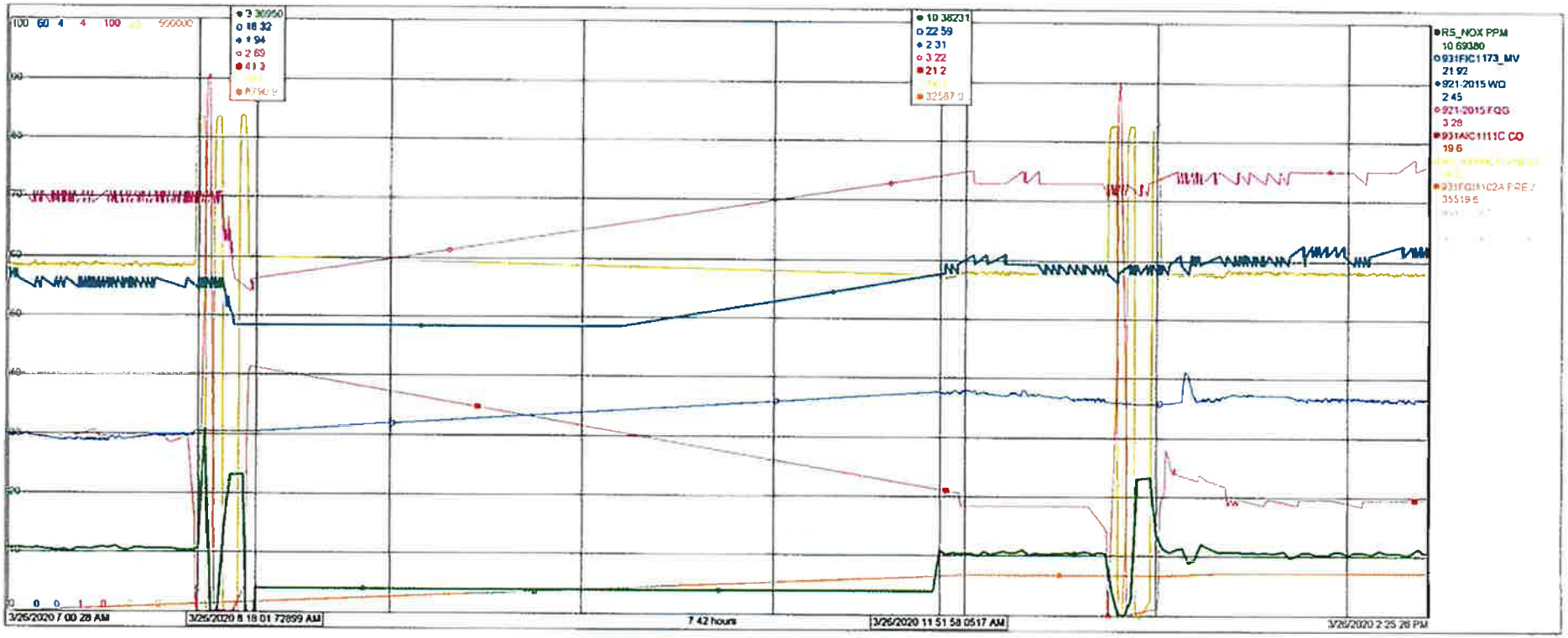
DAILY ENVIRONMENTAL REPORT

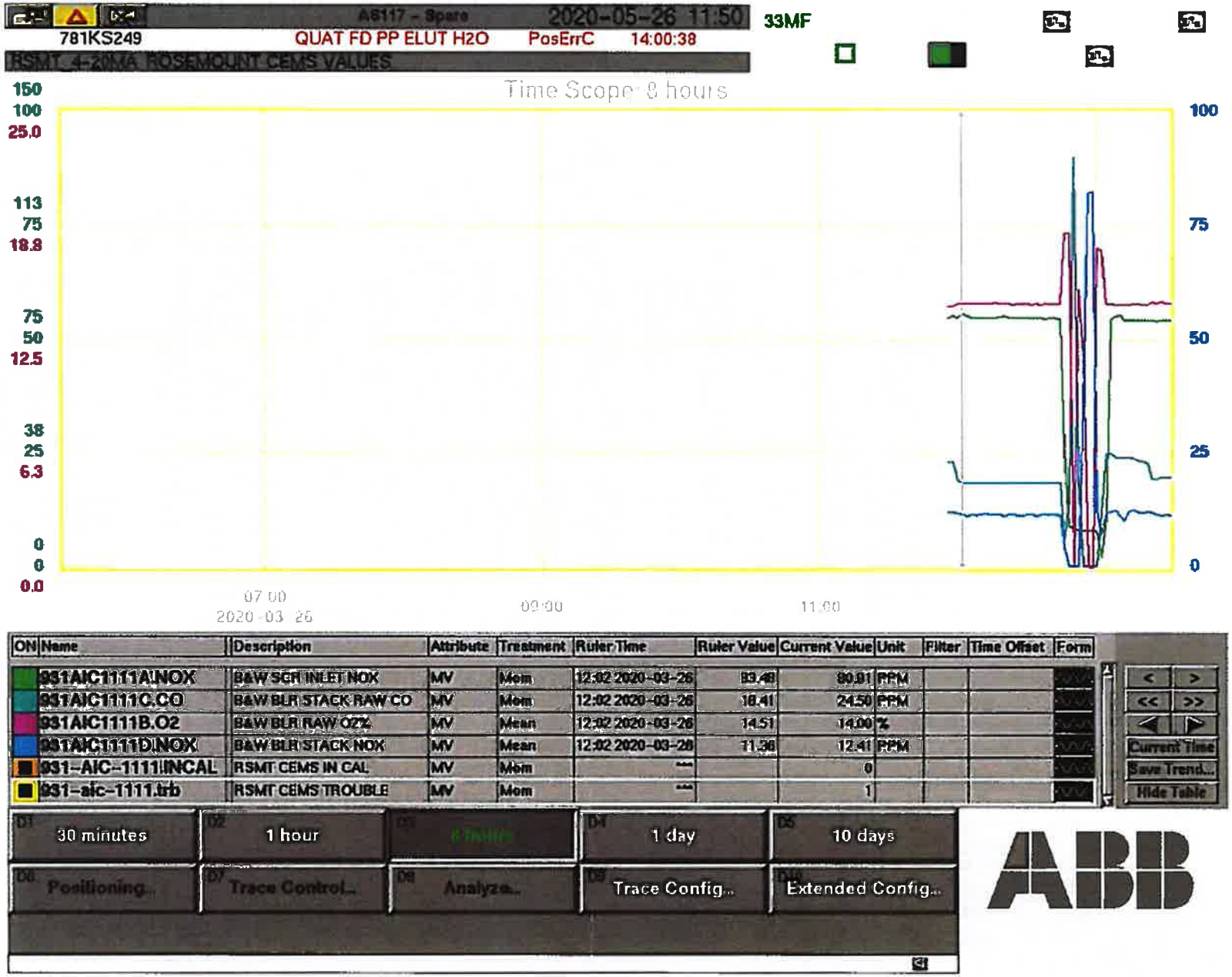
Time	Duct burner gas flow MSCFH	Turbine gas flow MSCFH	Mixed Burner gas flow MMBTU/hr	Mixed Burner gas flow SCFH	SCR Temperature °F	SCR Inlet NOx ppm	Ammonia Usage lb/h	NH3:NOx mole ratio	Injection steam rate lb/s	Steam to fuel ratio lb/lb	NOx lb/h	Stack O2 %	Stack CO 15% O2 ppm	CO lbm	Stack NOx 15% O2 ppm	3h Running Average NOx	Nebraska O2 %	Nebraska NOx ppm	Nebraska Corrected NOx (ppm) (3% O_2)	Daily Av Cogen NOx lb/h	Daily Av Cog+Heb NOx lb/h
8:00	6.76	253.54	0.00	0.00	674.89	69.42	17.72	0.68	2.22	0.72	10.47	14.75	27.62	18.85	10.53	10.50	20.86	0.00	0.00		9.68
9:00	6.83	225.65	0.00	86.60	664.27	11.17	18.79	67.75	1.98	0.72	3.46	14.95	39.13	21.96	2.99	6.33	20.87	0.00	0.00	Daily Av Cogen	Daily Av Cog+Heb
10:00	6.83	220.25	0.00	304.88	668.81	28.98	19.74	67.75	1.94	0.73	3.46	14.81	34.51	21.96	2.99	6.11	20.87	0.00	0.00	CO	CO
11:00	6.83	220.25	0.00	647.78	680.94	60.64	21.45	67.75	2.10	0.73	3.46	14.66	26.22	21.96	2.99	5.99	20.87	0.00	0.00	lb/h	lb/h
12:00	6.53	220.25	0.25	923.45	685.89	73.86	22.14	68.28	2.23	0.74	4.09	14.45	22.72	20.29	4.64	6.30	20.86	0.00	0.00	16.29	16.29
13:00	0.07	256.95	1.19	1040.67	676.55	62.10	22.05	0.76	2.36	0.74	10.15	14.48	18.92	10.03	10.39	6.47	20.87	0.00	0.00	Stack NOx analyzer	
14:00	2.05	265.06	0.00	0.00	683.55	76.35	22.13	0.72	2.42	0.75	10.58	14.53	18.16	11.20	10.40	8.58	20.85	0.00	0.00	zero value	8.09
15:00	0.05	266.35	0.00	0.00	680.87	77.27	21.87	0.75	2.46	0.75	10.51	14.17	17.58	11.09	10.15	10.31	20.71	0.00	0.00	zero drift %	0.09
16:00	0.88	266.35	0.00	0.00	693.13	80.03	21.48	0.74	2.48	0.75	11.03	14.37	21.82	13.86	10.77	10.44	20.86	0.00	0.00	span value	82.72
17:00	0.65	266.35	0.00	0.00	693.06	79.96	21.56	0.76	2.45	0.75	10.95	14.37	22.00	13.95	10.51	10.48	20.90	0.00	0.00	span drift %	0.50
18:00	6.76	264.81	0.00	0.00	692.48	78.99	21.16	0.89	2.42	0.75	10.88	14.40	22.41	14.15	10.46	10.58	20.89	0.00	0.00		
19:00	5.69	264.47	1.29	1251.51	690.31	79.23	21.03	0.70	2.40	0.75	10.82	14.41	22.01	13.89	10.46	10.48	20.89	0.00	0.00	Stack CO Analyzer	
20:00	5.32	261.49	0.33	298.17	684.31	79.63	21.05	0.70	2.36	0.74	10.66	14.46	21.03	13.09	10.48	10.47	20.84	0.00	0.00	zero value	-0.38
21:00	11.22	261.23	0.00	0.00	697.26	79.04	21.00	0.69	2.36	0.74	10.89	14.34	24.17	15.34	10.46	10.47	20.82	0.00	0.00	zero drift %	-0.38
22:00	6.06	261.40	0.00	0.00	689.35	76.29	20.58	0.69	2.37	0.74	10.84	14.42	24.10	15.00	10.53	10.49	20.81	0.00	0.00	span value	80.47
23:00	6.64	261.99	0.00	0.00	687.59	77.48	20.21	0.68	2.39	0.74	10.68	14.46	24.30	15.14	10.40	10.46	20.80	0.00	0.00	span drift %	-0.76
0:00	6.75	266.18	0.00	0.00	685.25	74.74	19.20	0.67	2.45	0.75	10.86	14.48	25.64	16.19	10.42	10.45	20.86	0.00	0.00		
1:00	7.36	265.49	0.00	0.00	685.14	74.49	18.98	0.66	2.42	0.75	10.95	14.48	26.40	16.79	10.92	10.45	20.84	0.00	0.00	Stack O2 Analyzer	
2:00	6.66	266.18	0.00	0.00	685.68	73.33	18.72	0.65	2.42	0.75	10.96	14.45	27.52	17.70	10.43	10.46	20.88	0.00	0.00	span value	20.93
3:00	9.40	265.84	0.00	0.00	686.35	72.19	18.10	0.64	2.43	0.75	11.04	14.47	28.07	18.46	10.52	10.49	20.90	0.00	0.00	span drift %	0.07
4:00	9.68	265.60	0.00	0.00	685.20	72.11	18.09	0.65	2.41	0.75	10.95	14.49	28.00	18.23	10.45	10.46	20.90	0.00	0.00	zero value	-0.03
5:00	14.98	266.18	3.62	3503.92	685.38	72.34	18.29	0.64	2.46	0.76	11.31	14.33	28.41	18.50	10.54	10.50	20.90	0.00	0.00	zero drift %	-0.03
6:00	25.09	266.18	3.75	3565.09	711.39	72.11	18.57	0.63	2.47	0.76	11.69	14.14	26.73	18.17	10.53	10.50	20.90	0.00	0.00		
7:00	28.20	263.54	3.73	3565.56	721.02	73.68	18.37	0.64	2.43	0.75	11.77	14.06	25.60	17.28	10.57	10.55	20.86	0.00	0.00	Nebraska Gas	0

Comments Emission data loss was on 3/26/20 from 8:18 AM to 11:51 AM, a total of 3.55 hours VCAPCD was notified on 3/26/20 at 10:40 AM

PRINT TIME: 3/27/2020 3:16 PM

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


RS_NOX PPM
10 69380
931FIC1173_MV
21 92
921-2015 WQ
2 45
921-2015 FQG
3 28
931AIC1111C CO
19 6
3/26/2020 7 00 28 AM
3/26/2020 11 51 58 0517 AM
7 42 hours
3/26/2020 2 25 26 PM


781KS249
QUAT FD PP ELUT H2O
PosErrC
14:00:38
RSMT 4-20MA ROSEMOUNT CEMS VALUES
2020-05-26 11:50
33MF
Time Scope: 8 hours
150
100
25.0
113
75
18.8
75
50
12.5
38
25
6.3
0
0
0.0
100
75
50
25
0
07:00
2020-03-26
09:00
11:00
ON Name Description Attribute Treatment Ruler Time Ruler Value Current Value Unit Filter Time Offset Form
931AIC1111A.NOX B&W SCR INLET NOX MV Mom 12:02 2020-03-26 89.48 90.91 PPM
931AIC1111C.CO B&W BLR STACK RAW CO MV Mom 12:02 2020-03-26 18.41 24.50 PPM
931AIC1111B.O2 B&W BLR RAW O2% MV Mean 12:02 2020-03-26 14.51 14.00 %
931AIC1111D.NOX B&W BLR STACK NOX MV Mean 12:02 2020-03-26 11.36 12.41 PPM
931-AIC-1111.INCAL RSMT CEMS IN CAL MV Mom --- 0
931-aic-1111.trb RSMT CEMS TROUBLE MV Mom --- 1
<< >>
Current Time
Save Trend...
Hide Table
D1 30 minutes
D2 1 hour
D4 1 day
D5 10 days
D6 Positioning...
D7 Trace Control...
D8 Analyze...
D9 Trace Config...
D10 Extended Config...

OFFICIAL DAILY COGENERATION LOG

NEW-INDY CONTAINERBOARD
ONARD MILL

DATE: 5-22-20

NIGHT SHIFT OPERATOR NAME: BENAVIDES

DAY SHIFT OPERATOR NAME:

STEAM & WATER READINGS

	PERMEATE H_2O	CONCENTRATE H_2O	LP	HP
CURRENT	2875219	21894356	21822 4	2.7
PREVIOUS	2861045	2123488		1909

NEW DEMIN TRAILER YES ☐ NO ☐ TANK 1 % TANK 2 %

AMMONIA DELIVERY YES ☐ NO ☐ % FULL: 65/67

TURBINE

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
FMV	%	46.56	38.94	39.88	47.88	50.12	5094	49.06	49.62	5031	50.62	50.00	51.00
Inlet Temp	°F	50	54	60	61	65	65	63	61	56	54	52	51
Humidity	%	0	0	0	0	0	0						
Vibration (Max)	MILS	.41	.36	.40	.26	.25	.30	.25	.28	.29	.32	.34	.35
Steam Injection	#/SEC	2.25	1.94	2.00	2.38	2.44	2.44	2,44	2.44	2.44	2.44	2.44	2.44
Turbine L.O. Level	%	85	85	85	85	100	100	100	100	100	100	100	100
T54	°F	1420	1350	1377	1469	1479	1481	1470	1462	1459	1451	1442	1440

BATTERIES V | HP RECOUPE FAL
AIR INLET DIFF IN/H2O | HP RECOUPE FAR
L.O. DIFFERENTIAL PSI | HP RECOUPE AFT
ONLINE TURBINE WATER WASH YES ☐ NO ☐ | CRANK WASH YES ☐ NO ☐ > GALLONS | CONDUCTIVITY MHOS

BATTERIES 127.7 V | HP RECOUPE FAL
AIR INLET DIFF 2.1 IN/H2O | HP RECOUPE FAR
L.O. DIFFERENTIAL 6 PSI | HP RECOUPE AFT
BOILER FEED WATER PUMP OPERATION | NO.1 PUMP YES ☒ NO ☐ | NO.2 PUMP YES ☐ NO ☒

GENERATOR

		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	°F	148	149	150	150	151	151	150	150	150	149	149	140
L.O. Supply	°F	119	119	119	120	120	120	120	120	120	120	119	118
Gen. Vibration (Max)	IPS	.30	.30	.27	.28	.29	.30	.30	.30	.30	.29	.30	.29
Tie Line	MW	11.50	13.13	13.17	11.12	11.45	11.42	11.52	11.56	11.48	11.45	11.55	11.50
Generator Voltage	KV	12.82	12.84	12.85	12.82	12.82	12.81	12.99	13.00	13.00	13.00	13.01	13.01

GEN. 1100 AMPS | GEN.VARS 45.8 MEGA VARS
FIELD 150 AMPS | FIELD VOLTS 165 V
COOLING TWR INLET F | COOLING TWR OUTLET F

GEN. 1125 AMPS | GEN.VARS 4.31 MEGA VARS
FIELD 190 AMPS | FIELD VOLTS 170
COOLING TWR INLET F | COOLING TWR OUTLET F

COGEN BOILER

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
450 Header Temp	°F	719	715	719	720	719	719	719	719	719	719	718	719
HP Drum Level	IN	1.6	2.8	1.3	1.8	0.6	1.8	0.8	1.5	1.3	0.6	0.9	0.8
LP Drum Level	IN	1.4	2.3	1.9	-0.3	0.5	0.8	0.3	0.9	0.4	0.4	0.5	0.2
HP Drum Pressure	PSI	467	467	467	467	474	474	473	473	473	473	473	473
LP Drum Pressure	PSI	145	151	153	155	149	149	148	148	148	148	148	153
CO	PPM	27.9	40.0	21.8	N C&A	17.8	22.1	16.8	24.0	25.2	26.7	29.6	29.6
NOx	PPM	10.3	10.1	10.8		10.5	10.9	10.5	10.3	10.4	10.4	10.7	10.5
O_2	%	14.61	14.84	14.86		14.37	14.40	14.58	14.32	14A1	14.48	14.47	14.30
Hot Well Level	%	162	135	113	137	151	150	135	136	135	135	149	138

		8:00	10:00	12:00	14:00	16:00	18:00	20.00	22:00	24:00	2:00	4:00	6:00
450 Header Temp	°F	719	719	719	719	719	721	719	719	719	719	719	719
HP Drum Level	IN	1.2	1.2	3.0	0.4	3.2	3.4	1.4	1.2	1.0	1.0	0.8	1.0
LP Drum Level	IN	0.9	1.0	1.4	0.8	1.0	0.8	0.7	0.9	0.4	0.6	0.4	0.6
HP Drum Pressure	PSI	467	467	476	474	474	473	473	473	473	473	473	473
LP Drum Pressure	PSI	149	154	147	149	149	155	148	148	148	148	148	153
CO	PPM	28.0	35.9	20.7	18.1	22.3	22.6	24.2	23.4	26.7	29.2	28.0	26.6
NOx	PPM	10.7	10.5	10.3	10.6	10.3	10.1	10.4	11.0	10.4	10.3	10.7	10.4
O_2	%	14.63	14.86	14.31	14.59	14.40	14.43	14.38	14.47	14.57	14.46	14.49	14.13
Hot Well Level	%	157	130	114	155	157	133	140	136	135	136	149	145

AUTO / ON / OFF

1150 SET POINT 451 | 1103 B SET POINT 446
DUCT BURNER | S/P 445

1150 SET POINT | 1103 B SET POINT
DUCT BURNER | S.P.

COMPRESSORS

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
Filter Separator	PSI	221	225	223	223	223	221	221	221	223	223	223	221
Gas Receiver	PSI	411	410	410	411	410	410	411	410	410	410	411	410

Crankcase Oil Level % OK
Frame Oil Pressure (25-50) PSI 26.89
Temp. cooling °F T1 T2

Crankcase Oil Level %
Frame Oil Pressure (25-50) PSI
Temp. cooling °F T1 T2

GAS & ELECTRIC READINGS

	SCG LP	TURBINE	MAXON	DUCT BURNER	MEGAWATTS
CURRENT	2545190	85581890	3478994	202375	78788
PREVIOUS	2532760	82208 60	3478984	169397	78333

CHILLER HOURS:
PACESETTER ON / OFF ALARM: RED ☒ YELLOW ☐ GREEN ☐

BOILER TEST RESULTS

	DAY SHIFT	NIGHT SHIFT
BOILER FEEDWATER		
pH 8.75- 9.5	9.63	
Conductivity <5mmhos	6.82	
Silica <20 ppb		
R.O.		
Feed TDS<1000 ppm		
Permeate TDS<10 ppm		
pH (Feed 7.5)	8.61	
CONDENSATE		
HP-pH 8.5 -9.5	8.66	
Conductivity <20mmhos	2.14	
LP-pH 8.5-9.5	8.76	
Conductivity <20mmhos	2.35	
HP		
pH 9.5 - 10.5	10.07	
Conductivity 75-150	147.4	
Phosphate 5-15 ppm		
Silica <5 ppm		
Iron ppm		
LP		
pH 9.5 - 10.5		
Conductivity 75 - 150		
Phosphate 5-15 ppm		
Silica <5 ppm		
Iron ppm		
MIXED BED		
pH 6.0 - 7.5	8.41	
Conductivity <1mmhos	.42	
Silica <10 ppb		
HP Steam Test		
Silica <20 ppb		
SOFTENER		
Hardness <1.0 ppm		
Running (1 or 2)		
STEAM TEST	PH 9.06	
Silica <20 ppb		
PV NO.2		
HP BLOW DOWN	DAY SHIFT:	
TIME:	2:10	
	NORTH TANK	SOUTH TANK
SALT	FEET	FEET

NOTES:
PM BAD @ 8:08 UP @ 11:10
FILLED TANK 4/0 65 TO 100%

ACADE 6000-3011 - REV.2.4

New-Indy Oxnard Environmental Incident Report

Shaded section to be completed by the EMR

Name of Incident PI Data Loss		Incident Date 3/26/20
Exact Location Incident Mill Wide		
Reported By: Zhen Han	Estimated Start and Stop Times of Incident: 3/26/20 8:15 AM – 11:51 AM	Possible Cause: Date & Time Change on DCS System

Incident Type:		Released To	
☐ Spill Internal	☐ Improper Waste Disposal	☐ Storm Water System	☐ Secondary Containment
☐ Spill External	☐ Near miss or below spill release guidelines	☐ Process Sewer	X Air
X Air Emission		☐ Ground (External)	☐ Ground (Inside Mill Property)
☐ Other_____		☐ Near Miss	
		☐ Other_____	

Detailed Description of Event:
In an effort to update the Date and Time on the DCS time server, a wrong month was inadvertently placed (5/26 rather than 3/26). This is not a task that is normally done but since the mill had a paper machine outage, the Process Control Engineer capitalized on updating the time on DCS. The jump ahead by two months caused PI to error as it couldn't record time in the future. The DCS system started recording data as 5/26/2020 but lost the data prior 3/26/20 – 8:19 am. After discovery that the set the date was wrong, it was changed back immediately. This revived PI but the data on the DCS that was being recorded from ~8:21 am was lost. The DCS started recording ~11:51 am on 3/26/20.

(if required use additional paper and attach)

Estimated Amount Released	pH	CONSISTENCY (%)	Estimated Monetary Loss	No. of Emergency Sandbags used	After event, Sandbags Removed/Disposed
☐ _____ Gallons ☐ _____Pounds ☐ Other_____				☐ _____ Bags ☐ N/A	☐ Yes ☐ No

List Any External Emergency Clean Up Personnel Contacted	List Any External Agencies Contacted *(Agency, person and time of call.)*
N/A	*VCAPCD on 3/26/20 at 10:40 AM*
List Hueneme Personnel Contacted *(Foreman, Mill Manager, etc.)*	Any Acute or Chronic Health Risks *(refer to MSDS)*
Robyn Lebrilla, Sandy Robin	N/A

Describe Any Emergency Response Actions
Corrected wrong date immediately upon discovery

Suggestions to Prevent Reoccurrence	Estimated Completion Date
1. Write up an SOP for updating date/time on DCS server	1. 3/31/2020
2.	2.
3.	3.
4.	4.

Root Cause after investigation	Severity Level *(level 1 and 2 must be tracked through SHIMS)*
Human Error	☐ 1 ☐ 2 ☐ 3 ☐ 4
Investigated By: Troy Humphrey	Investigated Date: 3/26/20

Follow Up	By When	Completion Date	By Whom

Issued by	Reviewed by	Approved by
3/30/2020 Department Manager	for V Kumpata 3/26/20 Technical Superintendent	Mill Manager

Print Time: 3/26/2020 3:27:42 PM

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

NEW INDY
CONTAINERBOARD

May 8, 2019

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

Attention: Ed Swede
Subject: Invalid CEMS data

Dear Mr. Swede:

New-Indy Oxnard is submitting this follow-up report for the call made to VCAPCD Hotline by Zhen Han on May 2, 2019 at 2:43 PM.

On May 2, 2019 at 10:31 AM, the mill performed a preventive maintenance on the Continuous Emission Monitoring System (CEMS). In particular, a new O_2 module was installed. Initial calibration was completed by noon after the installation. At around 12:30 PM, we observed that the O_2 drifted to 5%. The unit was recalibrated and a successful O_2 calibration was completed. CEMS was stable and back online by 1:14 PM. There was no valid emission data from 10:31 AM to 1:14 PM.

The Daily Emission Sheets, PI trends, ABB trends, Cogen Daily Log, 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,

Zhen Han
Process Engineer

NEW INDY OXNARD, LLC
5936 PERKINS ROAD • OXNARD, CALIFORNIA 93033 • WWW.NEWINDYCONTAINERBOARD.COM
PHONE (805) 986-3881 • FAX (805) 486-5186

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:

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: [signature]	5/8/2019
Title: Mill Manager	

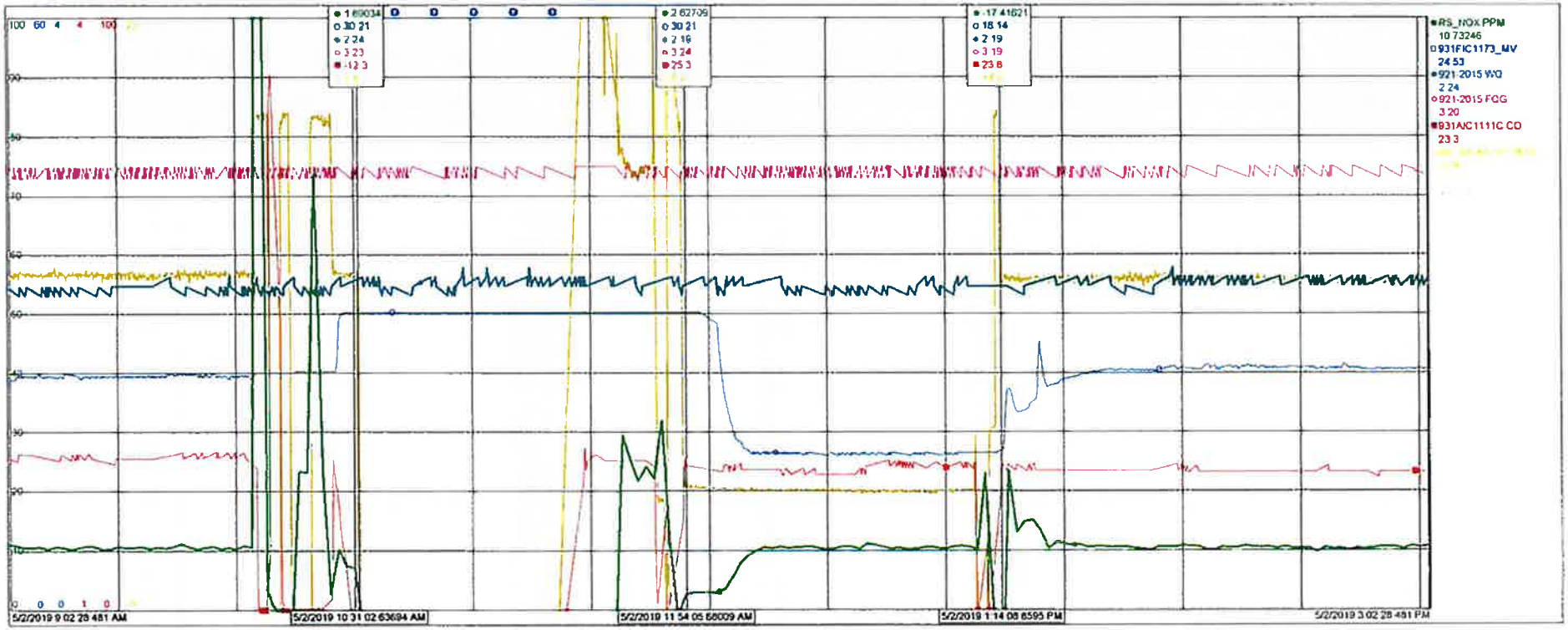
DAILY ENVIRONMENTAL REPORT

End Time 5/3/2019 7:00 Start Time 5/2/2019 7:00

Duct burner gas flow MSCFH	Turbine gas flow MSCFH	Mixon Burner gas flow MMBTU/hr	Mixon Burner gas flow SCFH	SCR Temperature °F	SCR inlet NOx ppm	Ammonia Usage lb/h	NH3-NOx mole ratio	Injection steam rate lb/s	Steam to fuel ratio lb/lb	NOx lb/h	Stack O2 %	Stack CO 15% O2 ppm	CO lb/h	Stack NOx 15% O2 ppm	3h Running Average NOx	Nebraska O2 %	Nebraska NOx ppm	Nebraska Corrected NOx (ppm) (3% O2)	Daily Av Cogen NOx lb/h	Daily Av Cog+Heb NOx lb/h
11 65	265 24	3 97	3851 35	683 18	83 21	23 49	0 73	2 19	0 68	10.93	14 21	23 80	15.02	10.56	10.52	20 41	0 00	0 00	9 87	9 87
10 64	263 87	3 92	3827 61	683 15	84 09	24 01	0 74	2 16	0 68	10.74	14 20	24 28	15.16	10 47	10.50	20 36	0 00	0 00	Daily Av Cogen	Daily Av Cog+Heb
10 70	264 47	3 92	3812 31	684 17	85 48	23 71	0 73	2 17	0 68	10.93	14 18	22 67	14.31	10 50	10.54	13 89	0 00	0 00	CO	CO
9 75	264 30	0 00	0 00	681 54	-18 75	30 21	-4 26	2 19	0 68	[illegible]	[illegible]	-3 07	-1.91	[illegible]	[illegible]	20 29	0 00	0 00	lb/h	lb/h
9 74	266 01	3 36	3335 00	685 65	27 36	30 20	-0 39	2 22	0 68	2.87	[illegible]	-20 12	4.71	[illegible]	[illegible]	20 36	0 00	0 00	11 55	11 55
8 34	263 95	3 93	3820 46	681 82	83 82	18 76	0 55	2 18	0 68	9.56	5 02	8 81	5.43	9.63	[illegible]	20 39	0 00	0 00	Stack NOx analyzer	
13 46	265 49	3 96	3856 47	689 84	86 37	24 19	0 72	2 20	0 68	11 16	13 96	20 03	12.63	10.61	7.76	20 42	0 00	0 00	zero value	0 03
13 05	266 01	3 87	3854 74	692 05	87 79	24 53	0 72	2 22	0 68	10.91	13 92	19 69	12.49	10 45	10.23	20 44	0 00	0 00	zero drift %	0 03
11 19	266 35	3 86	3858 34	690 19	88 13	24 32	0 72	2 22	0 68	10.96	13 85	19 48	12.42	10 58	10.54	20 46	0 00	0 00	span value	82 64
8 51	268 18	3 46	3331 54	685 74	89 55	24 44	0 71	2 21	0 68	10.84	13 84	18 67	11.61	10 55	10.52	20 47	0 00	0 00	span drift %	0 84
10 29	266 52	0 00	9 39	689 82	90 26	24 91	0 72	2 23	0 68	10.88	13 78	17 41	11.03	10 51	10.54	20 42	0 00	0 00		
9 02	268 18	0 95	974 17	688 48	88 75	24 36	0 71	2 23	0 68	10.78	13 80	17 61	10.93	10.45	10.50	20 40	0 00	0 00	Stack CO Analyzer	
6 93	268 35	3 89	3877 99	682 59	88 18	23 73	0 71	2 23	0 68	10.72	13 86	18 08	11.18	10.49	10.49	20 34	0 00	0 00	zero value	-0 81
10 30	268 01	3 98	3871 59	684 57	87 14	23 50	0 71	2 20	0 68	10.79	13 82	19 73	12.38	10.43	10.48	20 33	0 00	0 00	zero drift %	-0 81
10 41	268 01	3 98	3864 62	686 12	86 13	22 94	0 69	2 21	0 68	10.84	13 85	20 77	13.15	10.48	10.47	20 36	0 00	0 00	span value	90 55
10 27	268 52	3 92	3815 11	685 84	86 14	22 79	0 69	2 22	0 69	10.89	13 82	20 78	13.08	10.51	10.47	20 35	0 00	0 00	span drift %	-0 27
8 40	265 92	3 89	3786 29	682 95	85 17	22 45	0 69	2 22	0 68	10.83	13 87	20 44	12.77	10.54	10.51	20 36	0 00	0 00		
8 03	265 75	3 89	3780 26	680 90	84 88	22 36	0 69	2 21	0 68	10.82	13 90	20 52	12.84	10.55	10.53	20 37	0 00	0 00	Stack O2 Analyzer	
7 85	265 86	2 14	2099 52	680 18	85 59	22 34	0 69	2 20	0 68	10.72	13 90	19 92	12.36	10 48	10.52	20 38	0 00	0 00	span value	21 04
6 89	264 98	3 98	3851 44	677 18	84 97	22 17	0 69	2 19	0 68	10.69	13 93	20 24	12.49	10 52	10.52	20 39	0 00	0 00	span drift %	0 57
6 34	265 49	3 94	3845 19	676 20	84 74	22 20	0 69	2 21	0 68	10.71	13 88	20 56	12.94	10 44	10.48	20 37	0 00	0 00	zero value	-0 14
9 26	264 64	3 95	3850 87	679 54	84 76	22 25	0 69	2 19	0 68	10.77	13 90	21 48	13.41	10 52	10.49	20 38	0 00	0 00	zero drift %	-0 14
10 55	264 64	3 98	3858 81	678 94	84 56	22 13	0 69	2 19	0 68	10.88	13 87	22 25	14.00	10 55	10.50	20 38	0 00	0 00		
7 93	263 44	1 28	1212 66	678 36	84 94	22 13	0 70	2 18	0 68	10.67	13 91	20 67	12.93	10 51	10.53	20 34	0 00	0 00	Nebraska Gas	0

Comments CEMS maintenance was completed on 5/2/19 from 10 31 AM to 11 54 AM. O2 module was replaced. O2 drifted to 5% after initial calibration. A sucessful calibration was completed by 1 14 PM
Cogen emission data was not valid until 1 14 PM. VCAPCD was notified by Zhen Han at 2 43 PM

PRINT TIME: 5/3/2019 9:50 AM
NOTE: This document is valid f ONE week after print time


RS_NOX PPM
931FIC1173_MV
921-2015 WD
921-2015 FOG
931AIC1111C CO
5/2/2019 9 02 28 481 AM
5/2/2019 10 31 02 63694 AM
5/2/2019 11 54 05 68009 AM
5/2/2019 1 14 08 8595 PM
5/2/2019 3 02 28 481 PM


AS117 - Spare
2019-05-02 15:53
R 782KS165B
#5 HD CLNR TRAP BTM
PosErrC
15:53:35
33MF
RSMT 4-20MA ROSEMOUNT CEMS VALUES
Time Scope: 8 hours
150
100
25.0
113
75
18.8
75
50
12.5
38
25
6.3
0
0
0.0
100
75
50
25
0
09:00
2019-05-02
11:00
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
10:32
89.02
PPM
931AIC1111C.CO
B&W BLR STACK RAW CO
MV
Mom
10:32
23.25
PPM
931AIC1111B.O2
B&W BLR RAW O2%
MV
Mean
10:32
13.84
%
931AIC1111D.NOX
B&W BLR STACK NOX
MV
Mean
10:32
12.41
PPM
931-AIC-1111.INCAL
RSMT CEMS IN CAL
MV
Mom
0
931-aic-1111.trb
RSMT CEMS TROUBLE
MV
Mom
1
Current Time
Save Trend...
Hide Table
D1 30 minutes
D2 1 hour
D4 1 day
D5 10 days
D6 Positioning...
D7 Trace Control...
D8 Analyze...
D9 Trace Config...
D10 Extended Config...
ABB

OFFICIAL DAILY COGENERATION LOG

NEW-INDY CONTAINERBOARD
OXNARD MILL

DATE: 05.02.19

DAY SHIFT OPERATOR — NAME: Will Davis
NIGHT SHIFT OPERATOR — NAME: Brian

STEAM & WATER READINGS / GAS & ELECTRIC READINGS

	PERMEATE H2O	CONCENTRATE H2O	LP	HP	SCG LP	TURBINE	MAXON	DUCT BURNER	MEGAWATTS
CURRENT	905 1357	854 1542	209149	1980	6124450	8271000	2167152	230745	02842
PREVIOUS	904 1594	853 7233	209413	2065	6110400	7894800	2159315	330653	02288

NEW DEMIN TRAILER YES [ ] NO [ ] — TANK 1 % — TANK 2 % — CHILLER HOURS:

AMMONIA DELIVERY YES [ ] NO [ ] — % FULL: 35 — PACESETTER (ON) / OFF — ALARM: RED [X] YELLOW [ ] GREEN [ ]

TURBINE

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
FMV	%	57.81	55.50	57.31	59.25	57.19	51.6	57.56	60.55	60.12	60.06	59.12	56.69
Inlet Temp	°F	64	64	66	66	64	68	66	63	63	61	59	56
Humidity	%	61.2	56.2	53.2	51.9	50.7	52.6	57.7	62.7	63.7	65.7	67.7	66.7
Vibration (Max)	MILS	0.60	0.64	0.62	0.60	0.58	.57	.57	.54	.60	.54	.60	.54
Steam Injection	#/SEC	2.19	2.19	2.19	2.19	2.19	2.25	2.19	2.25	2.19	2.25	2.19	2.19
Turbine L.O. Level	%	100+	100+	100+	100+	100+	100+	100+	100+	100+	100+	100+	100+
T54	°F	1457	1466	1472	1473	1477	1482	1478	1471	1468	1464	1459	1444

Day: BATTERIES 127.5 V — HP RECOUPE FAL; AIR INLET DIFF 2.16 IN/H2O — HP RECOUPE FAR; L.O. DIFFERENTIAL 5 PSI — HP RECOUPE AFT

Night: BATTERIES 126.1 V — HP RECOUPE FAL; AIR INLET DIFF 2.17 IN/H2O — HP RECOUPE FAR; L.O. DIFFERENTIAL 6 PSI — HP RECOUPE AFT

ONLINE TURBINE WATER WASH YES [ ] NO [ ] — CRANK WASH YES [ ] NO [ ] > GALLONS — CONDUCTIVITY MHOS — BOILER FEED WATER PUMP OPERATION: NO.1 PUMP YES [ ] NO [ ] — NO.2 PUMP YES [ ] NO [ ]

GENERATOR

		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	°F	151	153	153	154	154	155	155	154	153	153	153	151
L.O. Supply	°F	120	121	121	123	123	123	125	125	128	123	122	121
Gen. Vibration (Max)	IPS	0.32	0.33	0.34	0.34	0.34	.34	.34	.33	.33	.33	.33	.33
Tie Line	MW	11.38	11.53	11.48	11.39	11.53	11.5	11.42	11.64	11.53	11.59	11.52	11.53
Generator Voltage	KV												

Day: GEN. 1150 AMPS — GEN.VARS 3.7 MEGA VARS; FIELD 90 AMPS — FIELD VOLTS 165 V; COOLING TWR INLET 80 °F — COOLING TWR OUTLET 76 °F

Night: GEN. 1150 AMPS — GEN.VARS 3 MEGA VARS; FIELD 140 AMPS — FIELD VOLTS 170; COOLING TWR INLET 90 °F — COOLING TWR OUTLET 84 °F

COGEN BOILER

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
450 Header Temp	°F	709	710	704	710	710	710	711	710	710	709	710	711
HP Drum Level	IN	0.9	0.9	-0.5	0.4	1.1	1.0	.6	1.0	.7	1.4	1.1	1.1
LP Drum Level	IN	0.7	0.5	0.0	0.2	0.5	0.5	.6	.6	.4	.4	.6	.5
HP Drum Pressure	PSI	475	475	403	476	476	476	479	479	474	472	472	472
LP Drum Pressure	PSI	152	152	154	152	152	152	154	152	152	152	151	151
CO	PPM	22.9	22.3	C	C	0.6	12.62	17.9	20.47	21.1	18.9	20.6	21.7
NOx	PPM	10.8	10.7	A	A	4.9	10.3	10.5	10.9	10.6	11.0	10.6	10.7
O2	%	14.21	14.29	L	L	13.99	13.89	13.96	14.02	13.56	13.94	13.94	14.01
Hot Well Level	%	145	149	147	147	151	147	153	136	154	152	144	154
		8:00	10:00	12:00	14:00	16:00	18:00	20.00	22:00	24:00	2:00	4:00	6:00
450 Header Temp	°F	710	710	710	710	710	710	710	711	710	710	709	711
HP Drum Level	IN	1.2	1.7	1.0	1.4	1.2	1.2	.1	.3	.3	1.0.8	.9	1.1
LP Drum Level	IN	0.5	0.5	0.7	0.6	0.5	1.0	.5	.7	.4	.6	.5	.4
HP Drum Pressure	PSI	476	475	476	476	476	479	472	472	472	479	472	472
LP Drum Pressure	PSI	152	152	152	152	152	151	152	152	152	151	151	151
CO	PPM	24.0	C	9.5	10.5	10.4	12.41	19.6	20.2	20.4	20.2	21.4	22.2
NOx	PPM	10.0	A	10.7	20.3	10.3	10.4	10.5	10.4	10.6	10.2	11.1	10.6
O2	%	14.35	L	5.02	14.11	13.80	13.81	13.74	13.54	13.88	13.85	13.87	13.90
Hot Well Level	%	130	158	163	143	1103	134	163	136	134	143	143	147

Day: 1150 SET POINT 451 — 1103 B SET POINT 446; AUTO / ON / OFF — DUCT BURNER — S/P 442

Night: 1150 SET POINT 451 — 1103 B SET POINT 446; DUCT BURNER ~~446~~ — S.P. 442

COMPRESSORS

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
Filter Separator	PSI	225	225	223	227	227	227	225	225	229	229	229	225
Gas Receiver	PSI	395	395	395	395	395	395	395	395	395	395	395	394

Day: Crankcase Oil Level % 60; Frame Oil Pressure (25-50) PSI 26.56; Temp. cooling °F T1 T2

Night: Crankcase Oil Level % 50; Frame Oil Pressure (25-50) PSI 26.81; Temp. cooling °F T1 T2

BOILER TEST RESULTS

	DAY SHIFT	NIGHT SHIFT
BOILER FEEDWATER		
pH 8.75– 9.5	8.54	8.6
Conductivity <5mmhos	4.77	4.9
Silica <20 ppb		
R.O.		
Feed TDS<1000 ppm	1055	709.9
Permeate TDS<10 ppm	11.14	5.6
pH (Feed 7.5)	8.20	8.6
CONDENSATE		
HP–pH 8.5 –9.5	8.46	9.3
Conductivity <20mmhos	3.52	2.9
LP–pH 8.5–9.5	9.13	8.7
Conductivity <20mmhos	8.52	3.4
HP		
pH 9.5 – 10.5	9.08	8.4
Conductivity 75–150	47.22	51.5
Phosphate 5–15 ppm		
Silica <5 ppm		
Iron ppm		
LP		
pH 9.5 – 10.5	9.96	9.8
Conductivity 75 – 150	44.29	44.2
Phosphate 5–15 ppm		
Silica <5 ppm		
Iron ppm		
MIXED BED		
pH 6.0 – 7.5	8.02	7.3
Conductivity <1mmhos	.48	.44
Silica <10 ppb		
HP Steam Test		
Silica <20 ppb		
SOFTENER		
Hardness <1.0 ppm		
Running (1 or 2)		
STEAM TEST pH	8.36	8.5
Silica <20 ppb		
PV NO.2		
HP BLOW DOWN	DAY SHIFT: 07:45	
TIME:		
	NORTH TANK	SOUTH TANK
SALT	5 FEET	7 FEET

NOTES: CHANGE OUT DEMIN BOTTLES 450801001

ACADE 000-3011 – REV.2.4

New-Indy Oxnard Environmental Incident Report

Shaded section to be completed by the EMR

Name of Incident O2 Analyzer Maintenance	Incident Date 5/2/19

Exact Location Incident Cogen

Reported By: Gary Uribe	Estimated Start and Stop Times of Incident: 10:31 AM – 1:14 PM	Possible Cause: Changed 02 Module in Rosemount Analyzer.

Incident Type:
- ☐ Spill Internal
- ☐ Spill External
- X Air Emission
- ☐ Other_____
- ☐ Improper Waste Disposal
- ☐ Near miss or below spill release guidelines

Released To
- ☐ Storm Water System
- ☐ Process Sewer
- ☐ Ground (External)
- ☐ Near Miss
- ☐ Other_____
- ☐ Secondary Containment
- X Air
- ☐ Ground (Inside Mill Property)

Detailed Description of Event
O2 module for Rosemount analyzer was replaced starting at 10:31 am, initial calibration was finished by noon. After the initial calibration analyzer drifted 5% as unit was warming up. Unit was recalibrated after warm-up and was back on line by 1:14 pm. Unit has been running and calibrating properly since.
(if required use additional paper and attach)

Estimated Amount Released	pH	CONSISTENCY (%)	Estimated Monetary Loss
☐ _____ Gallons ☐ _____ Pounds ☐ Other_____			

List Any External Emergency Clean Up Personnel Contacted N/A	List Any External Agencies Contacted *(Agency, person and time of call.)* *VCAPCD, Zhen Han, 2:43 PM*
List Hueneme Personnel Contacted *(Foreman, Mill Manager, etc.)* Robyn Lebrilla	Any Acute or Chronic Health Risks *(refer to MSDS)* N/A

Describe Any Emergency Response Actions
Replaced unit was monitored after calibration and recalibrated after it stabilized.

Suggestions to Prevent Reoccurrence	Estimated Completion Date
1. Continue to monitor analyzers after replacement to verify unit has warmed up and is stable.	1. Problem resolved
2.	2.
3.	3.
4.	4.

Root Cause after investigation	Severity Level *(level 1 and 2 must be tracked through SHIMS)*
Proactive monitoring of new analyzer allowed tech to capture warm up drift and resolve.	☐ 1 ☐ 2 ☐ 3 ☐ 4
Investigated By Gary Uribe	Investigated Date: 5/2/19

Follow Up	By When	Completion Date	By Whom

Issued by	Reviewed by	Approved by
5/7/19	5/9/2019	5/7/2019
Department Manager	Technical Superintendent	Mill Manager

Print Time: 5/7/2019 5:31:51 PM
Note: This document is valid for only ONE week after print time!

NEW INDY
CONTAINERBOARD

May 24, 2019

Ed Swede
Ventura County Air Pollution Control District
669 County Square Drive, Second Floor
Ventura, CA 93003

Subject: PI data loss

Dear Mr. Swede:

New-Indy Oxnard is submitting this follow-up report for the call made to VCAPCD Breakdown Center Hotline by Zhen Han on May 21, 2019 at 11:16 AM and Robyn Lebrilla's call to your office on May 22, 2019 at 8:58 AM.

On May 21, 2019, the mill scheduled a maintenance on the server. IT had to move all virtual servers from two load balanced ESXI server hosts to one ESXI server host. However, the host holding all the servers began dropping connections randomly causing PI data loss. The issue was resolved by migrating the servers back to two hosts and rebooting the hosts. On May 22, 2019, the mill had a network connection drop again. Investigation followed and it was found that the network interface card (NIC) software driver on the host was corrupted. Updating the NIC software had resolved the issue.

There were no valid PI data on May 21 from 8:51 AM to 1:29 PM and on May 22 from 6:53 AM to 7:15 AM, a total of 2.93 hours. Please note that the ABB DCS emission data were intact, which reflect that there were no excess emissions during this period.

The Daily Emission Sheet, PI trend, ABB trend, Cogen Daily Log 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) 271-7271.

Sincerely,

Zhen Han
Process 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:

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: 	5/23/19
Title: Technical Manager	

DAILY ENVIRONMENTAL REPORT

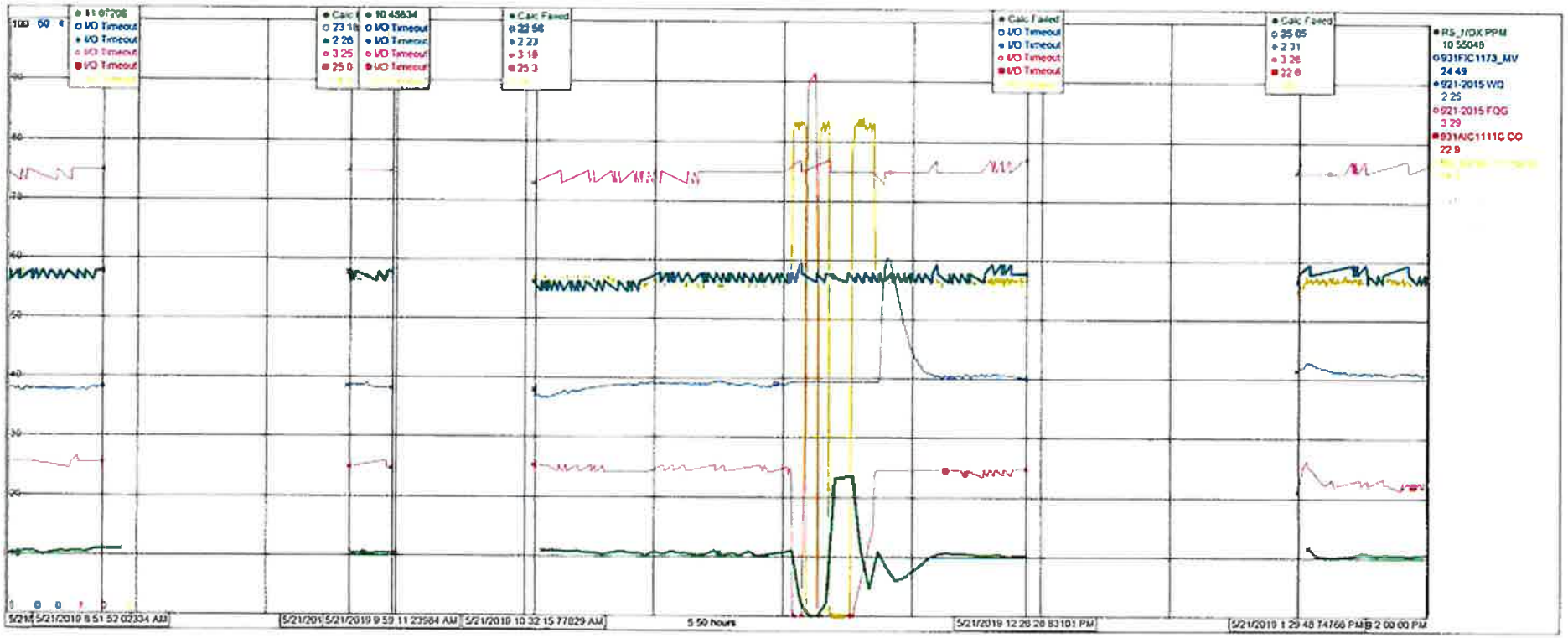
End Time: 5/22/2019 7:00 — Start Time: 5/21/2019 7:00

Time	Duct burner gas flow MSCFH	Turbine gas flow MSCFH	Mixed Burner gas flow MMBTU/hr	Mixed Burner gas flow SCFH	SCR Temperature °F	SCR inlet NOx ppm	Ammonia Usage lb/h	NH3:NOx mole ratio	Injection steam rate lb/s	Steam to fuel ratio lb/lb	NOx lb/hr	Stack O2 %	Stack CO 15% O2 ppm	CO lb/h	Stack NOx 15% O2 ppm	3h Running Average NOx	Nebraska O2 %	Nebraska NOx ppm	Nebraska Corrected NOx (ppm) (3% O_2)	Daily Av Cogen NOx lb/h	Daily Av Cog+Neb NOx lb/h
																				10 94	10 94
8 00	15 22	261 57	0 00	0 00	688 98	77 64	21 54	0 72	2 22	0 69	10.88	14 33	23 72	14.93	10.50	10.50	18 25	0 00	0 00		
9 00	13 46	265 34	0 00	0 00	688 08	79 89	22 70	0 74	2 27	0 70	11.05	14 37	23 29	14.91	10.54	10.55	19 85	0 00	0 00	Daily Av Cogen	Daily Av Cog+Neb
10 00	13 45	266 35	0 00	0 00	689 89	80 25	23 09	0 73	2 28	0 71	10.90	14 26	22 17	14.11	10.42	10.51	19 14	0 00	0 00	CO	CO
11 00	14 41	263 26	0 00	0 00	689 12	82 48	23 37	0 74	2 24	0 70	11.01	14 08	20 94	13.06	10 62	10.55	18 33	0 00	0 00	lb/h	lb/h
12 00	12 57	266 26	0 00	0 00	688 78	81 25	24 60	0 74	2 28	0 70	10.96	14 08	21 15	13.29	10.52	10.52	18 36	0 00	0 00	13 47	13 47
13 00	12 10	266 94	0 00	0 00	688 74	83 39	24 47	0 77	2 30	0 71	10.37	14 17	21 52	13.86	10.15	10.43	20 90	0 00	0 00	Stack NOx analyzer	
14 00	6 84	266 35	0 00	0 00	688 89	84 00	24 61	0 78	2 33	0 71	10.65	14 18	19 95	12.23	10 42	10.37	18 39	0 00	0 00	zero value	0 03
15 00	7 13	266 35	0 00	0 00	682 56	84 74	24 71	0 76	2 29	0 70	10.77	14 19	19 55	12.18	10 53	10.37	18 41	0 00	0 00	zero drift %	0 03
16 00	14 78	266 35	0 00	0 00	691 92	85 03	24 83	0 75	2 29	0 71	11.00	14 03	20 56	13.07	10 46	10.47	18 38	0 00	0 00	span value	83 38
17 00	17 50	265 49	0 00	0 00	698 60	86 03	25 31	0 75	2 28	0 70	11.14	13 98	20 03	12.79	10 51	10.50	18 38	0 00	0 00	span drift %	0 94
18 00	18 21	265 41	0 00	0 00	700 37	85 99	25 47	0 76	2 26	0 70	11.19	13 84	20 18	13.00	10 55	10.51	18 40	0 00	0 00		
19 00	18 03	264 21	0 00	0 00	700 39	85 98	25 64	0 76	2 26	0 70	11.09	13 92	19 91	12.91	10.46	10.51	18 40	0 00	0 00	Stack CO Analyzer	
20 00	19 03	263 02	0 00	0 00	699 25	84 61	24 92	0 75	2 24	0 70	11.10	13 95	20 48	13.16	10.53	10.51	18 40	0 00	0 00	zero value	-0 97
21 00	19 35	263 82	0 00	0 00	699 74	84 44	24 85	0 75	2 24	0 70	11.14	13 95	20 81	13.39	10.51	10.50	18 41	0 00	0 00	zero drift %	-0 97
22 00	20 66	262 78	0 00	0 00	700 44	83 35	24 29	0 75	2 23	0 70	11.13	13 95	20 94	13.49	10.49	10.51	18 42	0 00	0 00	span value	81 41
23 00	13 05	261 57	0 00	0 00	688 77	81 65	23 46	0 75	2 21	0 69	10.75	14 13	21 42	13.39	10.44	10.48	18 39	0 00	0 00	span drift %	0 56
0 00	7 36	262 93	0 00	0 00	676 05	81 92	23 24	0 76	2 22	0 70	10.54	14 25	21 34	13.05	10.43	10.45	18 30	0 00	0 00		
1 00	11 09	262 59	0 00	0 00	682 52	82 28	23 78	0 76	2 22	0 70	10.80	14 14	22 15	13.76	10.54	10.47	18 35	0 00	0 00	Stack O2 Analyzer	
2 00	10 70	264 47	0 00	0 00	681 79	82 24	23 79	0 75	2 25	0 70	10.74	14 13	22 04	13.91	10.42	10.46	18 36	0 00	0 00	span value	21 03
3 00	10 30	262 42	0 00	0 00	680 21	81 00	23 68	0 75	2 23	0 70	10.75	14 17	22 76	14.23	10.53	10.50	18 30	0 00	0 00	span drift %	0 53
4 00	15 71	261 74	0 00	0 00	688 18	81 52	23 34	0 75	2 22	0 69	10.97	14 01	22 05	13.87	10.55	10.50	18 29	0 00	0 00	zero value	-0 13
5 00	24 10	261 40	2 92	2920 75	702 43	81 95	23 92	0 74	2 22	0 69	11.22	13 88	20 91	13.83	10.50	10.53	18 36	0 00	0 00	zero drift %	-0 13
6 00	24 47	261 91	3 94	3832 59	704 30	82 43	24 13	0 74	2 22	0 69	11.25	13 86	20 77	13.53	10.51	10.52	18 33	0 00	0 00		
7 00	23 99	261 41	3 91	3797 21	704 20	82 53	24 20	0 75	2 22	0 69	11.19	13 86	20 86	13.75	10 46	10.49	19 52	0 00	0 00	Nebraska Gas	0

Comments: PI data loss was on 5/21/19 from 8 51 AM to 1 29 PM, a total of 2 57 hours. VCAPCD was notified by Zhen Han on 5/21/19 at 11 16 AM

PRINT TIME: 5/23/2019 3:13 PM

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


I/O Timeout
Calc Failed
RS_NOX PPM
10 55048
931FIC1173_MV
24 49
921-2015 WD
2 25
921-2015 FOG
3 29
931AIC1111C CO
22 9
5 59 hours


A9117 - Spare
2019-05-22 15:04
36M
782-2130.ULS
HOIST UP SW
Value
15:00:19
RSMT_4-20MA_ROSEMOUNT CEMS VALUES
Time Scope: 8 hours
150
100
25.0
113
75
18.8
75
50
12.5
38
25
6.3
0
0
0.0
100
75
50
25
0
11:00
13:00
15:00
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
08:08 2019-05-21
79.76
83.77
PPM
931AIC1111C.CO
B&W BLR STACK RAW CO
MV
Mom
08:08 2019-05-21
25.59
22.72
PPM
931AIC1111B.O2
B&W BLR RAW O2%
MV
Mean
08:08 2019-05-21
14.41
14.27
%
931AIC1111D.NOX
B&W BLR STACK NOX
MV
Mean
08:08 2019-05-21
11.95
11.72
PPM
931-AIC-1111.INCAL
RSMT CEMS IN CAL
MV
Mom

0
931-aic-1111.trb
RSMT CEMS TROUBLE
MV
Mom

0
<
>
<<
>>
Current Time
Save Trend...
Hide Table
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...
ABB

OFFICIAL DAILY COGENERATION LOG

NEW-INDY CONTAINERBOARD — DINAMO MILL

DATE: 05-21-19

NIGHT SHIFT OPERATOR

DAY SHIFT OPERATOR

STEAM & WATER READINGS

	PERMEATE H_2O	CONCENTRATE H_2O_2	LP	HP
CURRENT	92565 75	8633850	210787	2102
PREVIOUS	92416321	8629094	211541	1998

NEW DEMIN TRAILER YES ☐ NO ☐ TANK 1 % TANK 2 %

AMMONIA DELIVERY YES ☒ NO ☐ % FULL: 59

CHILLER HOURS:

PACESETTER (ON) / OFF ALARM: RED ☒ YELLOW ☐ GREEN ☐

GAS & ELECTRIC READINGS

	SCG LP	TURBINE	MAXON	DUCT BURNER	MEGAWATTS
CURRENT	6297320	5083680	2174588	369000	13793
PREVIOUS	6276500	4702240	2133354	290403	13188

TURBINE

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
FMV	%	49.12	51.50	50.94	50.94	50.19	49.38	49.81	49.12	49.12	49.44	49.12	48.75
Inlet Temp	°F	61	64	67	64	68	68	66	64	63	62	62	61
Humidity	%	61.8	47.5	43.8	36.9	36.2	37.2	38.7	43.0	47.2	46.2	51.1	49.6
Vibration (Max)	MILS	0.65	0.67	0.61	0.66	0.59	0.57	.58	.59	.61	.60	.60	.63
Steam Injection	#/SEC	2.19	2.31	2.31	2.31	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.19
Turbine L.O. Level	%	80	80	100	100	100	100	100+	100+	100+	100+	100+	100+
T54	°F	1460	1469	1473	1480	1478	1475	1470	1466	1462	1462	1460	1458

BATTERIES 127.3 V | HP RECOUPE FAL
AIR INLET DIFF 2.2 IN/H20 | HP RECOUPE FAR
L.O. DIFFERENTIAL 5 PSI | HP RECOUPE AFT

BATTERIES V | HP RECOUPE FAL
AIR INLET DIFF IN/H20 | HP RECOUPE FAR
L.O. DIFFERENTIAL PSI | HP RECOUPE AFT

ONLINE TURBINE WATER WASH YES ☐ NO ☐ | CRANK WASH YES ☐ NO ☐ > GALLONS | CONDUCTIVITY MHOS

BOILER FEED WATER PUMP OPERATION | NO.1 PUMP YES ☐ NO ☐ | NO.2 PUMP YES ☐ NO ☐

GENERATOR

		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	°F	0.55	153	154	154	154	154	152	151	149	149	149	148
L.O. Supply	°F	120	121	122	122	122	122	121	120	119	119	118	118
Gen. Vibration (Max)	IPS	0.35	0.35	0.36	0.35	0.36	0.37	.37	.36	.34	.37	.35	.35
Tie Line	MW	11.50	11.66	11.63	11.53	11.42	11.63	11.5	11.5	11.5	11.5	11.5	11.5
Generator Voltage	KV												

GEN. 1130 AMPS | GEN.VARS 3.4 MEGA VARS
FIELD 189 AMPS | FIELD VOLTS 165 V
COOLING TWR INLET 84 F | COOLING TWR OUTLET 80 F

GEN. AMPS | GEN.VARS MEGA VARS
FIELD AMPS | FIELD VOLTS
COOLING TWR INLET F | COOLING TWR OUTLET F

COGEN BOILER

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
450 Header Temp	°F	711	710	710	709	710	710	710	710	710	710	710	710
HP Drum Level	IN	1.0	1.0	0.9	0.7	1.5	0.9	1.6	0.8	-0.3	0.9	0.9	1.5
LP Drum Level	IN	1.1	1.0	1.0	1.0	0.7	1.1	1.1	1.1	1.4	0.9	0.8	1.2
HP Drum Pressure	PSI	477	479	479	479	471	476	478	478	471	464	464	479
LP Drum Pressure	PSI	152	152	152	154	150	150	150	150	150	150	148	152
CO	PPM	23.2	23.3	21.2	20.9	20.9	20.9	20.0	20.7	21.1	21.5	23.5	20.8
NOx	PPM	10.4	10.4	10.4	10.6	10.5	10.7	10.4	10.0	10.7	9.9	10.4	10.5
O_2	%	14.38	14.34	14.23	14.38	14.09	14.01	13.84	13.80	14.24	14.18	14.05	13.75
Hot Well Level	%	160	154	152	151	136	152	157	157	144	152	135	155

		8:00	10:00	12:00	14:00	16.00	18:00	20:00	22:00	24:00	2:00	4:00	6:00
450 Header Temp	°F	710	709	710	710	711	710	710	710	711	710	710	710
HP Drum Level	IN	1.0	0.8	0.8	0.8	1.0	1.0	0.7	1.2	0.5	0.7	0.8	1.5
LP Drum Level	IN	1.0	1.1	1.0	1.1	0.9	0.9	1.1	1.2	0.5	0.8	0.7	1.2
HP Drum Pressure	PSI	479	479	479	478	464	471	478	478	464	464	479	479
LP Drum Pressure	PSI	152	152	167	150	150	160	150	150	144	150	152	152
CO	PPM	23.2	22.1	22.2	19.5	20.0	19.8	20.7	20.3	23.0	23.2	21.5	20.4
NOx	PPM	10.6	10.7	10.6	10.0	10.4	10.6	10.7	10.9	10.3	10.4	10.5	10.4
O_2	%	14.56	14.13	14.19	14.30	14.08	14.05	14.02	13.90	14.27	14.05	14.01	13.98
Hot Well Level	%	139	150	167	138	141	164	143	146	135	148	161	160

1150 SET POINT 1103 B SET POINT
DUCT BURNER S/P

1150 SET POINT 1103 B SET POINT
DUCT BURNER S.P.

AUTO / ON / OFF

COMPRESSORS

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
Filter Separator	PSI	224	226	226	226	226	224	224	224	228	228	228	224
Gas Receiver	PSI	410	410	411	409	410	410	409	411	409	410	410	411

Crankcase Oil Level % 50
Frame Oil Pressure (25-50) PSI 25.66
Temp. cooling °F T1 T2

Crankcase Oil Level %
Frame Oil Pressure (25-50) PSI
Temp. cooling °F T1 T2

BOILER TEST RESULTS

	DAY SHIFT	NIGHT SHIFT
BOILER FEEDWATER		
pH 8.75- 9.5	8.49	
Conductivity <5mmhos	6.43	
Silica <20 ppb		
R.O.		
Feed TDS<1000 ppm	1248	
Permeate TDS<10 ppm	14.02	
pH (Feed 7.5)	(7.48)	
CONDENSATE		
HP-pH 8.5 -9.5	6 8.67	
Conductivity <20mmhos	4.67	
LP-pH 8.5-9.5	8.57	
Conductivity <20mmhos	10.38	
HP		
pH 9.5 - 10.5	10.17	
Conductivity 75-150	163.2	
Phosphate 5-15 ppm	14.38	
Silica <5 ppm		
Iron ppm		
LP		
pH 9.5 - 10.5	10.12	
Conductivity 75 - 150	67.89	
Phosphate 5-15 ppm	9.39	
Silica <5 ppm		
Iron ppm		
MIXED BED		
pH 6.0 - 7.5	7.83	
Conductivity <1mmhos	.74	
Silica <10 ppb		
HP Steam Test		
Silica <20 ppb		
SOFTENER		
Hardness <1.0 ppm		
Running (1 or 2)		
STEAM TEST TH	7.59	
Silica <20 ppb	221	
PV NO.2		
HP BLOW DOWN	DAY SHIFT: 08:31	
TIME:		

	NORTH TANK	SOUTH TANK
SALT	FEET	FEET

NOTES:

ACAD 000-3011 - REV.14

End Time 5/23/2019 7:00 Start Time 5/22/2019 7:00

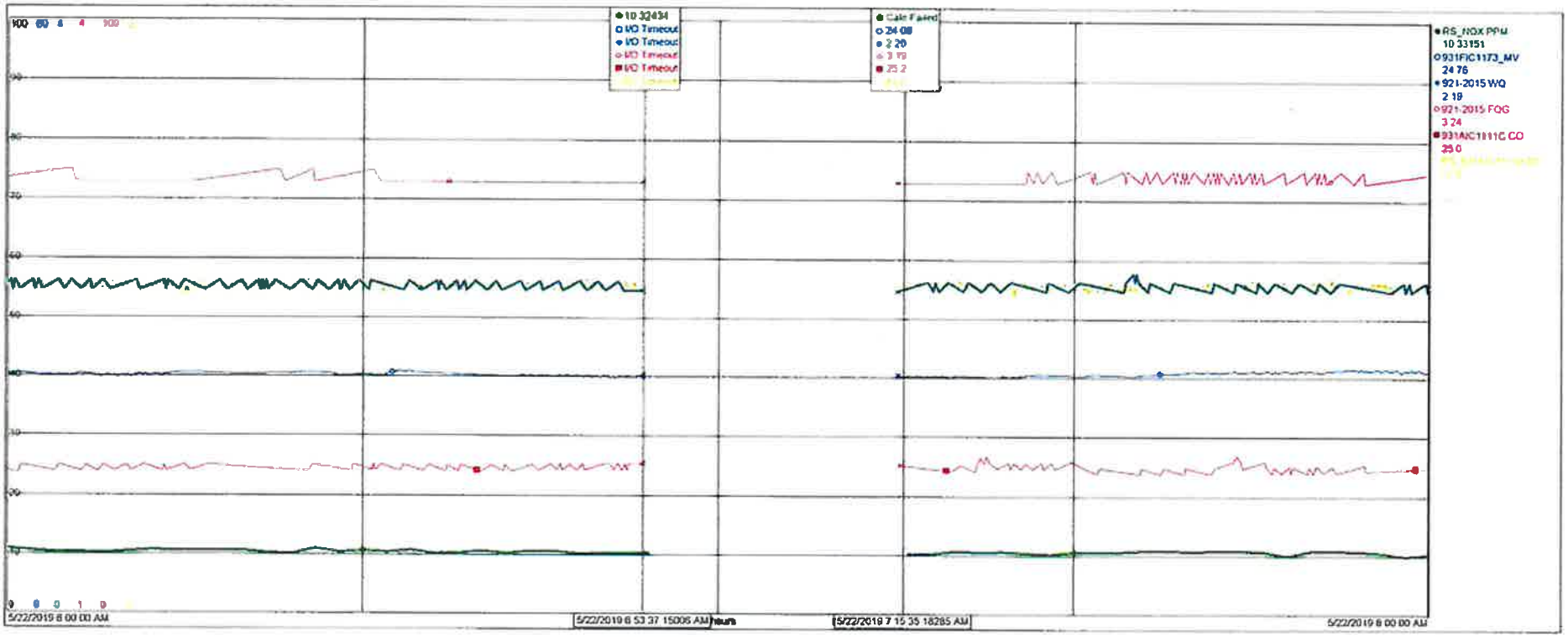
DAILY ENVIRONMENTAL REPORT

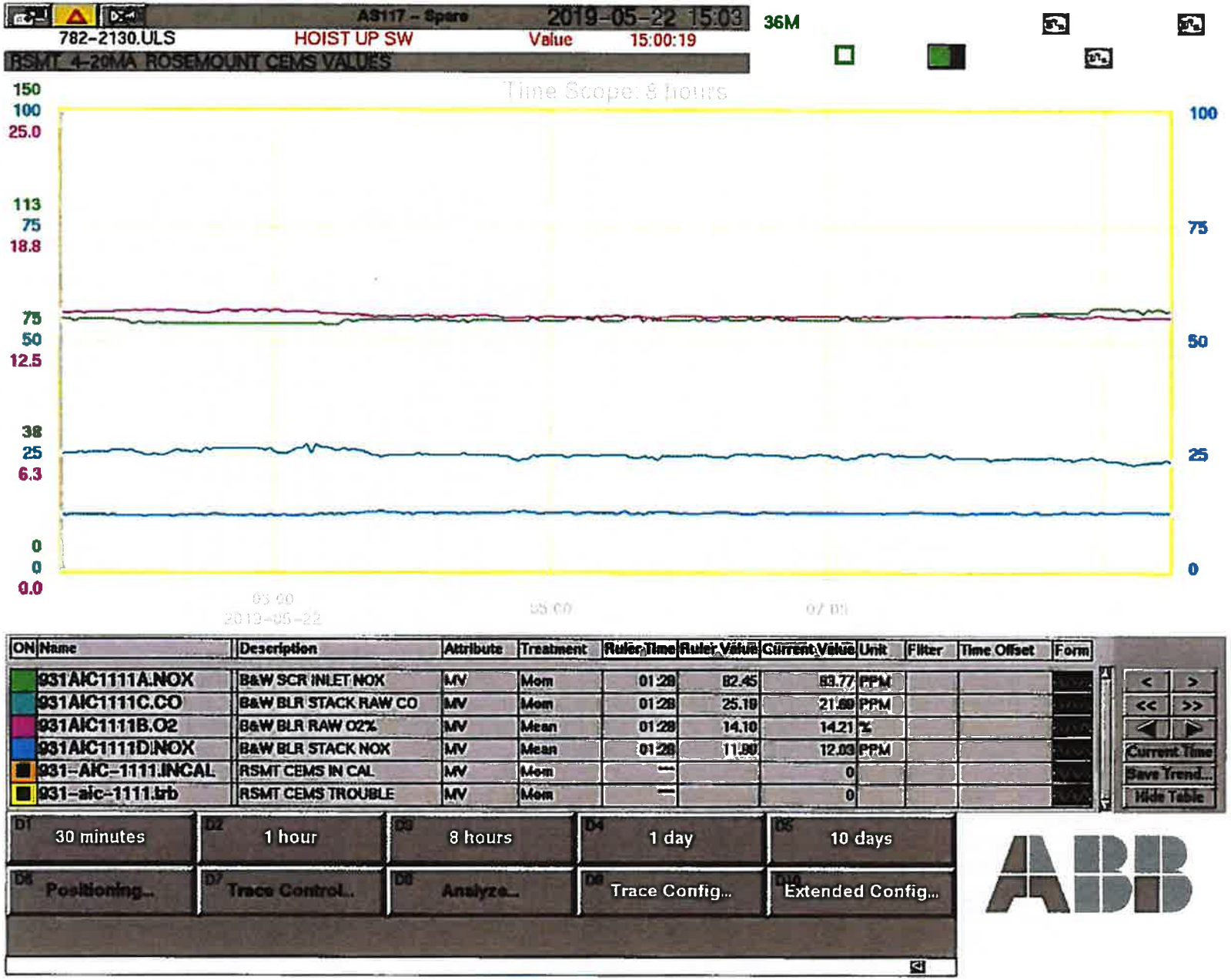
Time	Duct burner gas flow MSCFH	Turbine gas flow MSCFH	Mixing Burner gas flow MMBTU/hr	Mixing Burner gas flow SCFH	SCR Temperature °F	SCR Inlet NOx ppm	Ammonia Usage lb/h	NH3:NOx mole ratio	Injection steam rate lb/h	Steam to fuel ratio lb/lb	NOx lb/h	Stack O2 %	Stack CO 15% O2 ppm	CO lb/h	Stack NOx 15% O2 ppm	3h Running Average NOx lb/h	Nebraska O2 %	Nebraska NOx ppm	Nebraska Corrected NOx (ppm) (3% O2)	Daily Av Cogen NOx lb/h	Daily Av Cog+Heb NOx lb/h
																				11 01	11 01
8 00	22 77	262 39	3 80	3694 48	703 82	83 00	24 46	0 74	2 22	0 70	11.32	13 91	21 00	13.59	10.58	10.52	18.28	0 00	0 00		
9 00	22 17	263 19	3 81	3707 36	703 90	84 01	25 13	0 76	2 24	0 70	11.30	13 92	20 52	13.28	10.57	10.55	18 35	0 00	0 00	Daily Av Cogen	Daily Av Cog+Heb
10 00	26 81	265 32	3 89	3775 66	710 24	85 64	25 09	0 75	2 28	0 70	11.49	13 80	19 34	12.79	10.51	10.56	18 32	0 00	0 00	CO	CO
11 00	23 77	266 35	3 96	3861 83	709 48	85 32	25 60	0 75	2 29	0 71	11.39	13 83	19 00	12.82	10.53	10.54	18 32	0 00	0 00	lb/h	lb/h
12 00	23 67	265 84	3 97	3869 75	709 14	85 07	25 79	0 75	2 28	0 70	11.40	13 87	19 06	12.52	10.50	10.51	18 33	0 00	0 00	13 59	13 59
13 00	22 61	266 01	3 98	3865 47	707 24	84 24	25 62	0 76	2 29	0 71	11.27	13 90	19 55	12.78	10.44	10.49	18 36	0 00	0 00	Stack NOx analyzer	
14 00	20 82	266 35	3 98	3865 70	707 23	84 24	25 71	0 76	2 29	0 71	11.30	13 93	19 77	12.77	10.51	10.49	18 31	0 00	0 00	zero value	0 03
15 00	17 49	265 66	2 31	2211 50	699 82	82 84	24 95	0 76	2 28	0 70	11.04	14 03	20 29	13.02	10.40	10.45	18 34	0 00	0 00	zero drift %	0 03
16 00	7 17	266 18	2 03	2013 04	683 56	83 66	25 00	0 79	2 28	0 70	10.89	14 22	19 61	12.25	10.45	10.45	18 36	0 00	0 00	span value	84 56
17 00	14 56	265 24	4 02	3899 64	691 24	83 14	24 88	0 77	2 28	0 70	11.00	14 09	20 70	13.26	10.49	10.45	18 34	0 00	0 00	span drift %	2 38
18 00	18 22	265 92	4 02	3908 58	700 44	82 53	24 93	0 77	2 28	0 71	11.11	14 01	20 60	13.29	10.48	10.46	18 33	0 00	0 00		
19 00	15 59	266 18	4 03	3918 91	694 85	82 26	24 49	0 78	2 28	0 70	11.05	14 07	21 16	13.62	10.49	10.45	18 32	0 00	0 00	Stack CO Analyzer	
20 00	15 37	265 49	4 02	3918 51	693 83	81 98	24 37	0 76	2 27	0 70	11.01	14 11	21 37	13.82	10.48	10.47	18 31	0 00	0 00	zero value	-0 63
21 00	10 51	264 81	0 19	150 32	687 19	81 45	24 09	0 77	2 27	0 70	10.90	14 23	20 90	13.19	10.57	10.51	18 28	0 00	0 00	zero drift %	-0 63
22 00	7 27	265 32	0 00	0 00	680 65	83 87	24 92	0 79	2 27	0 70	10.75	14 28	20 31	12.83	10.54	10.53	18.27	0 00	0 00	span value	91 28
23 00	13 65	266 35	0 00	0 00	687 78	81 43	24 08	0 76	2 29	0 71	10.97	14 18	21 96	14.11	10.47	10.53	18 27	0 00	0 00	span drift %	0 42
0 00	18 35	265 24	0 00	0 00	692 78	80 12	23 34	0 75	2 28	0 70	11.06	14 16	22 60	14.70	10.49	10.50	18 22	0 00	0 00		
1 00	14 43	263 79	0 00	0 00	689 39	79 30	22 68	0 75	2 26	0 70	10.91	14 23	22 93	14.69	10.47	10.48	18 24	0 00	0 00	Stack O2 Analyzer	
2 00	13 90	265 75	0 00	0 00	688 79	78 92	22 46	0 73	2 28	0 70	10.87	14 23	23 06	14.71	10.49	10.48	18 22	0 00	0 00	span value	21 12
3 00	13 51	264 73	0 00	0 00	686 49	77 61	22 00	0 73	2 27	0 70	10.92	14 26	23 63	15.01	10.48	10.48	18 24	0 00	0 00	span drift %	0 94
4 00	9 31	263 79	0 00	0 00	678 22	76 65	21 55	0 74	2 25	0 70	10.78	14 38	23 25	14.55	10.52	10.49	18 29	0 00	0 00	zero value	-0 13
5 00	6 84	261 74	0 00	0 00	671 23	75 71	21 02	0 75	2 23	0 70	10.58	14 45	23 80	14.48	10.49	10.50	18 33	0 00	0 00	zero drift %	-0 13
6 00	6 87	263 53	0 00	0 00	671 59	75 82	21 40	0 76	2 25	0 70	10.81	14 42	23 39	14.32	10.49	10.50	18 33	0 00	0 00		
7 00	6 85	262 68	0 00	0 00	671 44	75 75	21 27	0 76	2 25	0 70	10.56	14 44	23 59	14.39	10.47	10.45	18 33	0 00	0 00	Nebraska Gas	0

Comments PI data loss was on 5/22/19 from 6 53 AM to 7 15 AM, a total of 0 37 hour VCAPCD Ed Swede was notified by Robyn Lebrilla on 5/22/19 at 8 58 AM

PRINT TIME: 5/23/2019 8:20 AM

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


I/O Timeout
I/O Timeout
I/O Timeout
I/O Timeout
Calc Failed
24.08
2.20
3.19
25.2
RS_NOX PPM
10.33151
931FIC1173_MV
24.76
921-2015 WQ
2.19
921-2015 FOG
3.24
931AIC1111C.CO
25.0
5/22/2019 6:00:00 AM
5/22/2019 6:53:37.15006 AM
hours
5/22/2019 7:15:35.18285 AM
5/22/2019 8:00:00 AM


AS117 – Spare
2019-05-22 15:03
36M
782-2130.ULS
HOIST UP SW
Value
15:00:19
RSMT 4-20MA ROSEMOUNT CEMS VALUES
Time Scope: 8 hours
150
100
25.0
113
75
18.8
75
50
12.5
38
25
6.3
0
0
0.0
100
75
50
25
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 01:28 82.45 83.77 PPM
931AIC1111C.CO B&W BLR STACK RAW CO MV Mom 01:28 25.19 21.89 PPM
931AIC1111B.O2 B&W BLR RAW O2% MV Mean 01:28 14.10 14.21 %
931AIC1111D.NOX B&W BLR STACK NOX MV Mean 01:28 11.90 12.03 PPM
931-AIC-1111.INCAL RSMT CEMS IN CAL MV Mom 0
931-aic-1111.brb RSMT CEMS TROUBLE MV Mom 0
Current Time
Save Trend...
Hide Table
D1 30 minutes
D2 1 hour
D3 8 hours
D4 1 day
D5 10 days
D6 Positioning...
D7 Trace Control...
D8 Analyze...
D9 Trace Config...
D10 Extended Config...

OFFICIAL DAILY COGENERATION LOG

NEW-INDY CONTAINERBOARD
ONARD MILL

DATE: 05-22-19

NIGHT SHIFT OPERATOR NAME: Rob

DAY SHIFT OPERATOR NAME: Will Ellis / Mike

STEAM & WATER READINGS

	PERMEATE H_2O	CONCENTRATE H_2O_2	LP	HP
CURRENT	9267010	8638531	212309	2065
PREVIOUS	9256575	8635860	210787	2102

NEW DEMIN TRAILER YES ☐ NO ☐ TANK 1 % TANK 2 %

AMMONIA DELIVERY YES ☐ NO ☐ % FULL: 87

CHILLER HOURS:

PACESETTER (ON) / OFF ALARM: RED ☑ YELLOW ☐ GREEN ☐

TURBINE

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
FMV	%	60.12	49.75	51.00	50.19	50.7	50.7	50	50	50	49	50	49
Inlet Temp	°F	63	64	67	68	67	67	66	65	63	62	58	58
Humidity	%	47.6	40.4	37.7	40.9	38.6	41.1	44	49	49.9	57	66	66
Vibration (Max)	MILS	0.60	0.56	0.53	0.53	.52	.56	.57	59	56	63	60	62
Steam Injection	#/SEC	2.26	2.25	2.31	2.31	2.30	2.25	2.2	2.2	2.2	2.2	2.2	2.2
Turbine L.O. Level	%	100	100	100	100	100	100	100	100	100	100	100	100
T54	°F	1468	1469	1479	1484	1493	1479	1474	1473	1968	1463	1449	1448

BATTERIES 127.2 V HP RECOUPE FAL

AIR INLET DIFF 2.13 IN/H2O HP RECOUPE FAR

L.O. DIFFERENTIAL 6 PSI HP RECOUPE AFT

BATTERIES V HP RECOUPE FAL

AIR INLET DIFF IN/H2O HP RECOUPE FAR

L.O. DIFFERENTIAL PSI HP RECOUPE AFT

ONLINE TURBINE WATER WASH YES ☐ NO ☐ CRANK WASH YES ☐ NO ☐ > GALLONS CONDUCTIVITY MHOS

BOILER FEED WATER PUMP OPERATION NO.1 PUMP YES ☐ NO ☐ NO.2 PUMP YES ☐ NO ☐

GENERATOR

		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	°F	152	152	154	154	154	154	154	153	153	152	152	152
L.O. Supply	°F	120	121	121	122	122	123	123	122	122	121	121	120 V
Gen. Vibration (Max)	IPS	0.34	0.34	0.34	0.34	.31	.34	36	35	36	35	33	32 F
Tie Line	MW	11.52	11.33	11.36	11.41	11.61	11.58	11.5	11.5	11.9	11.9	11.4	11.5
Generator Voltage	KV												

GEN. 150 AMPS GEN.VARS 3.08 MEGA VARS

FIELD 190 AMPS FIELD VOLTS 165 V

COOLING TWR INLET 84 F COOLING TWR OUTLET 80 F

GEN. AMPS GEN.VARS MEGA VARS

FIELD AMPS FIELD VOLTS

COOLING TWR INLET F COOLING TWR OUTLET F

COGEN BOILER

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
450 Header Temp	°F	710	710	710	711	710	711	708	709	709	710	709	694
HP Drum Level	IN	0.8	0.1	-0.6	1.7	1.2	2.8	1.1	3.3	1	.8	1.3	.9
LP Drum Level	IN	0.9	1.2	0.9	0.8	0.7	1	1.1	1.2	1.3	.9	.8	1.1
HP Drum Pressure	PSI	479	479	479	472	472	472	479	479	472	479	479	472
LP Drum Pressure	PSI	162	152	152	150	152	150	150	149	151	151	151	151
CO	PPM	20.6	19.8	20.1	19.0	20.6	21.1	21	20.7	21.4	23	24	23
NOx	PPM	11.0	10.9	10.4	10.7	10.9	10.6	10.5	10.6	10.6	10.6	10.1	10.4
O_2	%	13.72	13.87	14.02	13.91	14.05	14.02	14	14.3	14	22	23	14
Hot Well Level	%	146	151	160	160	142	146	160	149	149	142	12	14
		8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	2:00	4:00	6:00
450 Header Temp	°F	709	710	710	710	710	711	710	710	710	709	710	715
HP Drum Level	IN	4791	0.3	/	0.2	2.9	-0.9	1.2	1.8	/	/	/	/
LP Drum Level	IN	~~1529.2~~	0.9	/	/	0.7	0.2	1.2	1.2	.9	.8	.9	1
HP Drum Pressure	PSI	479	479	479	479	465	479	479	465	479	479	479	479
LP Drum Pressure	PSI	152	152	152	152	148	162	150	149	151	151	151	150
CO	PPM	20.5	19.8	20.5	20.9	20.6	20.4	22	21	23	23	24	23
NOx	PPM	10.4	10.9	10.1	10.5	10.8	10.3	10.3	10	11	10	10	11
O_2	%	13.85	13.88	13.88	14.02	14.26	14.13	14	14	14	14	14	14
Hot Well Level	%	135	144	144	162	137	161	150	157	152	153	162	137

AUTO / ON / OFF

1150 SET POINT 1103 B SET POINT DUCT BURNER S/P

1150 SET POINT 1103 B SET POINT DUCT BURNER S.P.

COMPRESSORS

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
Filter Separator	PSI	222	224	224	224	226	224	224	224	226	228	228	226
Gas Receiver	PSI	411	410	410	410	411	410	410	411	411	410	410	410

Crankcase Oil Level % 50

Frame Oil Pressure (25-50) PSI 27.20

Temp. cooling °F T1 T2

Crankcase Oil Level %

Frame Oil Pressure (25-50) PSI

Temp. cooling °F T1 T2

GAS & ELECTRIC READINGS

	SCG LP	TURBINE	MAXON	DUCT BURNER	MEGAWATTS
CURRENT	6329490	5455750	2179100	3+2156	14391
PREVIOUS	6297320	5083680	2174588	369000	13793

BOILER TEST RESULTS

	DAY SHIFT	NIGHT SHIFT
BOILER FEEDWATER		
pH 8.75- 9.5	8.76	
Conductivity <5mmhos	6.23	
Silica <20 ppb		
R.O.		
Feed TDS<1000 ppm	244.6	
Permeate TDS<10 ppm	10.33	
pH (Feed 7.5)	(8.36)	
CONDENSATE		
HP-pH 8.5 -9.5	8.55	
Conductivity <20mmhos	4.39	
LP-pH 8.5-9.5	8.44	
Conductivity <20mmhos	10.26 ~~8.44~~	
HP		
pH 9.5 - 10.5	10.24	
Conductivity 75-150	137.6	
Phosphate 5-15 ppm	12.33	
Silica <5 ppm		
Iron ppm		
LP		
pH 9.5 - 10.5	10.10	
Conductivity 75 - 150	67.10	
Phosphate 5-15 ppm	9.29	
Silica <5 ppm		
Iron ppm		
MIXED BED		
pH 6.0 - 7.5	7.65	
Conductivity <1mmhos	.57	
Silica <10 ppb		
HP Steam Test		
Silica <20 ppb		
SOFTENER		
Hardness <1.0 ppm		
Running (1 or 2)		
STEAM TEST PH	8.49	
Silica <20 ppb	103	
PV NO.2		
HP BLOW DOWN	DAY SHIFT: 07:49	
TIME:		
	NORTH TANK	SOUTH TANK
SALT	0 FEET	6 FEET

NOTES:

New-Indy Oxnard Environmental Incident Report

Shaded section to be completed by the EMR

Name of Incident: PI data loss		Incident Date 5/21/19 & 5/22/19
Exact Location Incident: Cogen		
Reported By Sandy Robin	Estimated Start and Stop Times of Incident: 5/21/19 8:51 AM – 10:32 AM, 12:26 PM– 1:29 PM 5/22/19 6:53 AM - 7:15 AM	Possible Cause: ESXI Issues

Incident Type: ف Spill Internal ف Spill External ف Improper Waste Disposal ف Near miss or below spill release guidelines X Air Emission ف Other_____	Released To ف Storm Water System ف Process Sewer ف Ground (External) ف Near Miss ف Secondary Containment ف Air ف Ground (Inside Mill Property) X Other_____PI_____

Detailed Description of Event

VMs on each of the ESXI hosts were dropping connections seemingly at random causing loss of data. VMs were able to be brought back online by migrating but wasn't consistent. Troubleshooting we found the 10gbps NIC on each had a bad driver that needed to be updated. We were able to keep the environment running by falling back on the 1gbps NIC which degrades performance but can run that way.

(if required use additional paper and attach)

Estimated Amount Released	pH	CONSISTENCY (%)	Estimated Monetary Loss	No. of Emergency Sandbags used	After event, Sandbags Removed/Disposed
ف_____ Gallons ف_____Pounds ف Other_____				ف_____ Bags ف N/A	ف Yes ف No

List Any External Emergency Clean Up Personnel Contacted N/A	List Any External Agencies Contacted *(Agency, person and time of call.)* VCAPCD, Zhen Han, 5/21/19, 11:16 AM Ed Swede, Robyn Lebrilla, 5/22/19 8:58 AM
List Hueneme Personnel Contacted *(Foreman, Mill Manager, etc.)* Robyn Lebrilla	Any Acute or Chronic Health Risks *(refer to MSDS)* N/A

Describe Any Emergency Response Actions

Migrated and rebooted VMs which would bring them back up temporarily. Found issue with the 10gb nic and adjusted to only use 1gb NIC.

Suggestions to Prevent Reoccurrence	Estimated Completion Date
1.Upgraded drivers for the 10gb NIC in ESXI	1. 5/23/19
2.	2.
3.	3.
4.	4.

Root Cause after investigation 10gb NIC driver bad and needed to be upgraded.	Severity Level *(level 1 and 2 must be tracked through SHIMS)* ف 1 ف 2 ف 3 ف 4
Investigated By: Bryan Vest	Investigated Date: 5/21/19

Follow Up	By When	Completion Date	By Whom

Issued by	Reviewed by	Approved by
Department Manager	Technical Superintendent 5/23/19	Mill Manager 5/23/19

Print Time: 5/23/2019 3:11:47 PM

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

NEW INDY
CONTAINERBOARD

June 17, 2019

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

Attention: Ed Swede
Subject: CEMS sample handling failure

Dear Mr. Swede:

New-Indy Oxnard is submitting this follow-up report for the call made to VCAPCD Hotline by Zhen Han on June 13, 2019 at 9:47 AM.

On June 13, 2019 at 8:10 AM, the Continuous Emission Monitoring System (CEMS) stopped reading stack emissions. During troubleshooting, it was determined that the stack gas flow was restricted. After cycling the calibration and stack gas control valves, stack gas started flowing to the analyzer. The 10:00 AM auto calibration occurred shortly after establishing the gas flow, but it did not pass. Further troubleshooting of controls and sample line were done and unit had a passing calibration at 2:42 PM. The CEMS sample handling system failure resulted to data loss from 8:10 AM – 9:57 AM, a total of 1.78 hrs.

Per Universal Sample Handling recommendations, the stack and calibration gas control valves in sample handler were replaced. Universal also recommended removal of the redundant control valve in the stack, which is planned to be completed on June 18.

The Daily Emission Sheets, PI trends, ABB trends, Cogen Daily Log, 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

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:

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: _____	6/17/2019
Title: Technical Manager	

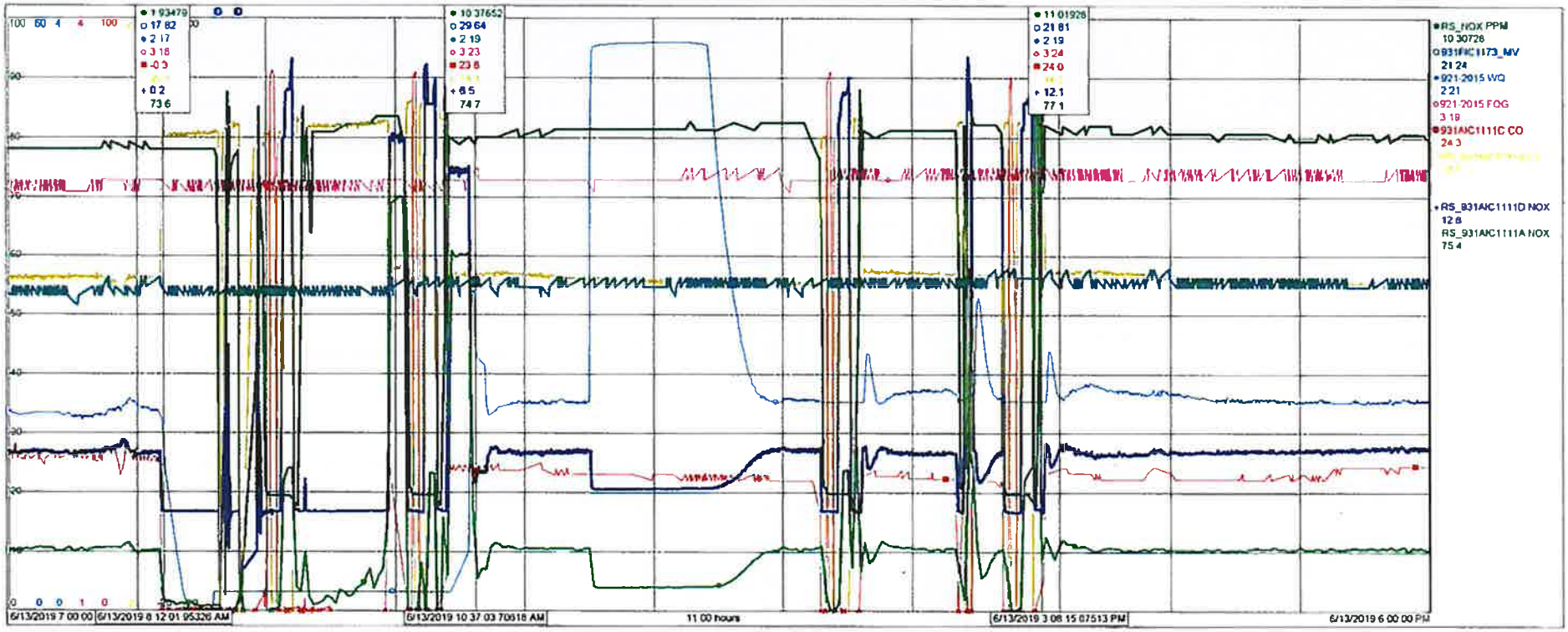
DAILY ENVIRONMENTAL REPORT

End Time: 6/14/2019 7:00 — Start Time: 6/13/2019 7:00

Time	Duct burner gas flow MSCFH	Turbine gas flow MSCFH	Mixing Burner gas flow MMBTU/hr	Mixing Burner gas flow SCFH	SCR Temperature °F	SCR inlet NOx ppm	Ammonia Usage lb/h	NH3/NOx mole ratio	Injection steam rate lb/hr	Steam to fuel ratio lb/lb	NOx lb/h	Stack O2 %	Stack CO 15% O2 ppm	CO lb/h	Stack NOx 15% O2 ppm	3h Running Average NOx	Nebraska O2 %	Nebraska NOx ppm	Nebraska Corrected NOx (ppm) @ 3% O2	Daily Av Cogen NOx lb/h	Daily Av Cog+Neb NOx lb/h
																				9 13	9 13
8 00	9 53	259 52	1 86	1859 60	675 51	73 95	20 10	0 77	2 15	0 68	**10.09**	14 03	22 29	**12.92**	**10.55**	**10.51**	20 42	0 00	0 00		
9 00	6 81	258 66	3 39	3525 18	674 03	67 19	6 05	0 22	2 17	0 68	[illegible]	[illegible]	0 73	**0.21**	[illegible]	[illegible]	20 41	0 00	0 00	Daily Av Cogen	Daily Av Cog+Neb
10 00	6 79	259 69	4 01	4118 22	673 10	58 00	1 91	0 47	2 18	0 68	**6.02**	[illegible]	-1 04	**-0.72**	**5.89**	[illegible]	20 35	0 00	0 00	CO	CO
11 00	6 90	261 23	4 01	4102 80	674 89	76 91	21 13	0 79	2 21	0 69	**10.29**	14 21	20 93	**12.06**	**10.70**	[illegible]	17 82	0 00	0 00	lb/h	lb/h
12 00	6 73	261 23	3 94	4044 72	674 79	77 55	39 18	1 42	2 21	0 69	**7.25**	14 03	20 02	**11.55**	**7.41**	**9.00**	20 26	0 00	0 00	10 89	10 89
13 00	6 75	261 23	3 84	3919 95	674 93	78 18	41 73	1 53	2 21	0 69	**5.45**	13 88	18 84	**10 90**	**5.94**	**8.02**	20 57	0 00	0 00	Stack NOx analyzer	
14 00	6 62	261 74	3 83	3921 85	676 09	78 18	21 74	0 77	2 21	0 69	**9.96**	13 83	18 35	**10.81**	**10.47**	**7.94**	20 59	0 00	0 00	zero value	-0 03
15 00	6 76	263 02	3 80	3904 83	677 93	77 56	22 56	0 82	2 24	0 69	**10.05**	14 25	19 91	**11.56**	**10.46**	**8.97**	20 60	0 00	0 00	zero drift %	-0 03
16 00	6 32	264 61	2 43	2467 33	682 10	77 41	22 50	0 80	2 24	0 70	**10.13**	14 18	20 12	**11.83**	**10.45**	**10.47**	20 62	0 00	0 00	span value	83 75
17 00	6 60	261 65	0 78	826 09	680 59	76 62	21 55	0 79	2 22	0 69	**9.93**	14 02	19 13	**11.14**	**10.43**	**10.46**	20 62	0 00	0 00	span drift %	1 39
18 00	11 92	261 99	3 82	3913 00	683 34	78 22	21 28	0 78	2 21	0 69	**10.24**	13 78	19 79	**11.68**	**10.53**	**10.47**	20 61	0 00	0 00		
19 00	13 72	261 62	3 82	3918 87	689 82	75 72	21 18	0 78	2 22	0 69	**10.27**	13 68	19 93	**11.87**	**10.50**	**10.49**	20 59	0 00	0 00	Stack CO Analyzer	
20 00	15 13	261 23	3 82	3915 21	689 86	75 17	20 86	0 77	2 21	0 69	**10.31**	13 61	19 74	**11.80**	**10.52**	**10.52**	20 57	0 00	0 00	zero value	-1 16
21 00	14 99	261 23	3 82	3917 05	689 41	74 81	20 65	0 76	2 20	0 69	**10.29**	13 58	19 68	**11.75**	**10.51**	**10.51**	20 56	0 00	0 00	zero drift %	-1 16
22 00	17 11	261 74	3 82	3920 50	693 23	74 88	20 54	0 75	2 21	0 69	**10.40**	13 53	19 61	**11.83**	**10.50**	**10.51**	20 57	0 00	0 00	span value	90 28
23 00	10 98	262 65	1 83	1845 27	684 35	74 28	20 35	0 76	2 21	0 69	**10.14**	13 65	19 70	**11.67**	**10.43**	**10.48**	20 58	0 00	0 00	span drift %	-0 68
0 00	6 77	261 99	0 00	7 22	674 57	73 89	20 10	0 77	2 20	0 69	**10.05**	13 76	19 17	**11.17**	**10.52**	**10.49**	20 58	0 00	0 00		
1 00	6 74	261 23	0 00	4 86	674 12	73 25	19 83	0 76	2 18	0 69	**9.95**	13 60	19 70	**11.38**	**10.47**	**10.47**	20 56	0 00	0 00	Stack O2 Analyzer	
2 00	6 87	261 23	0 00	2 51	673 88	72 84	19 66	0 77	2 18	0 69	**9.99**	13 81	19 79	**11.41**	**10.50**	**10.50**	20 60	0 00	0 00	span value	20 78
3 00	6 80	260 80	0 00	0 16	673 36	72 59	19 69	0 77	2 17	0 69	10.03	13 84	20 05	**11.84**	**10.55**	**10.51**	20 65	0 00	0 00	span drift %	-0 65
4 00	6 60	259 09	0 00	0 00	670 84	71 86	19 78	0 77	2 15	0 68	9.88	13 87	20 76	**11.87**	**10.48**	**10.51**	20 62	0 00	0 00	zero value	-0 18
5 00	6 74	260 71	0 00	0 00	670 73	71 33	19 76	0 79	2 16	0 69	**10.02**	14 26	22 24	**12.80**	10.57	**10.53**	20 61	0 00	0 00	zero drift %	-0 18
6 00	6 83	259 86	0 00	0 00	670 61	70 44	19 51	0 79	2 16	0 68	**9.92**	14 47	24 27	**14.03**	10.48	**10.51**	20 63	0 00	0 00		
7 00	6 81	257 04	0 00	0 00	670 54	70 36	19 82	0 82	2 14	0 68	**9.83**	14 58	25 18	**14.33**	**10.49**	**10.51**	20 67	0 00	0 00	Nebraska Gas	0

Comments: CEMS unit failed on 6/13/19 from 8 10 AM to 9.57 AM, a total of 1 78 hours VCAPCD was notified on 6/13/19 at 9 47 AM

PRINT TIME: 6/1 '9 7:26 PM
NOTE: This document is valid f ONE week after print time


RS_NOX PPM
10 30728
931AC1173_MV
21 24
921-2015 WQ
2 21
921-2015 FOG
3 19
931AC1111C CO
24 3
RS_931AC1111D NOX
12 8
RS_931AC1111A NOX
75 4
6/13/2019 7 00 00 PM
6/13/2019 10 37 03 70518 AM
11 00 hours
6/13/2019 3 08 15 07513 PM
6/13/2019 6 00 00 PM


781LIC058
CLEAR WW TANK LEVEL MV > H1 17:19:34
23ME
RSMT_4-20MA_ROSEMOUNT CEMS VALUES
Time Scope: 8 hours
150
100
25.0
113
75
18.8
75
50
12.5
38
25
6.3
0
0
0.0
100
75
50
25
0
07:00
2019-06-13
09:00
11:00
13:00
ON Name Description Attribute Treatment Ruler Time Ruler Value Current Value Unit Filter Time Offset Form
931AIC1111A.NOX B&W SCR INLET NOX MV Mean 08:32 2019-06-13 73.73 75.52 PPM
931AIC1111C.CO B&W BLR STACK RAW CO MV Mean 08:32 2019-06-13 28.10 19.22 PPM
931AIC1111B.O2 B&W BLR RAW O2% MV Mean 08:32 2019-06-13 14.06 14.38 %
931AIC1111D.NOX B&W BLR STACK NOX MV Mean 08:32 2019-06-13 12.11 11.44 PPM
931-AIC-1111.INCAL RSMT CEMS IN CAL MV Mean --- 0
931-aic-1111.trb RSMT CEMS TROUBLE MV Mean --- 0
Current Time
Save Trend...
Hide Table
30 minutes
1 hour
1 day
10 days
Positioning...
Trace Control...
Analyze...
Trace Config...
Extended Config...
ABB

OFFICIAL DAILY COGENERATION LOG

NEW-INDY CONTAINERBOARD
OXNARD MILL

DATE: 6-13-19

NIGHT SHIFT OPERATOR — NAME: Will Davis / Brad Smith

DAY SHIFT OPERATOR — NAME: MH

STEAM & WATER READINGS / GAS & ELECTRIC READINGS

	PERMEATE H2O	CONCENTRATE H O2	LP	HP	SCG LP	TURBINE	MAXON	DUCT BURNER	MEGAWATT
CURRENT	9491 6600	8738 5453	211622	1870	6550800	3031860	22450550	210320	26551
PREVIOUS	9480 5552	8733 6495	127039	1130	6546680	2671350	22396539	103657	25963

NEW DEMIN TRAILER: YES [ ] NO [✓] — TANK 1 ___ % — TANK 2 ___ %
AMMONIA DELIVERY: YES [ ] NO [✓] — % FULL: 64-62

CHILLER HOURS:
PACESETTER (ON) / OFF — ALARM: RED [✓] YELLOW [ ] GREEN [ ]

TURBINE

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
FMV	%	47.5	47.7	48.8	48.7	50.1	49.1	49.25	48.94	49.50	47.50	47.75	47.94
Inlet Temp	°F	65	64	67	69	72	69	67	67	66	64	64	63
Humidity	%	59	59	55	50.9	44.3	48.5	54.8	57.2	56.3	61.4	63.4	66.4
Vibration (Max)	MILS	.71	.72	.77	.74	.75	.74	.76	.77	.81	.85	.86	.84
Steam Injection	#/SEC	2.12	2.12	2.19	2.19	2.25	2.25	2.19	2.19	2.25	2.12	2.19	2.19
Turbine L.O. Level	%	100	100	100	100	100	100	100	100	100	100	100	100
T54	°F	1445	1444	1455	1461	1475	1461	1459	1463	1458	1442	1439	1440

Day: BATTERIES 126.8 V — HP RECOUPE FAL; AIR INLET DIFF 2.1 IN/H2O — HP RECOUPE FAR; L.O. DIFFERENTIAL ✓ PSI — HP RECOUPE AFT
Night: BATTERIES 126.6 V — HP RECOUPE FAL; AIR INLET DIFF 2.10 IN/H2O — HP RECOUPE FAR; L.O. DIFFERENTIAL 5 PSI — HP RECOUPE AFT

ONLINE TURBINE WATER WASH: YES [ ] NO [✓] — CRANK WASH: YES [ ] NO [✓] — GALLONS — CONDUCTIVITY MHOS
BOILER FEED WATER PUMP OPERATION: NO.1 PUMP YES [✓] NO [ ] — NO.2 PUMP YES [ ] NO [ ]

GENERATOR

		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	°F	155	155	155	155	157	157	155	155	155	155	155	154
L.O. Supply	°F	124	124	124	124	126	126	124	124	124	124	124	123
Gen. Vibration (Max)	IPS	.32	.33	.32	.32	.32	.34	.33	.33	.37	.32	.33	.31
Tie Line	MW	11.56	11.52	11.42	11.52	11.58	11.53	11.53	11.53	11.41	11.53	11.53	11.53
Generator Voltage	KV												

Day: GEN. 1110 AMPS — GEN.VARS 2.80 MEGA VARS; FIELD 187 AMPS — FIELD VOLTS 166 V; COOLING TWR INLET 89 °F — COOLING TWR OUTLET 83 °F
Night: GEN. 1100 AMPS — GEN.VARS 2.5 MEGA VARS; FIELD 189 AMPS — FIELD VOLTS 168; COOLING TWR INLET 89 °F — COOLING TWR OUTLET 86 °F

COGEN BOILER

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
450 Header Temp	°F	710	711	710	710	710	710	709	710	711	710	711	711
HP Drum Level	IN	0.9	0.7	0.9	1.1	1.2	0.5	1.6	0.3	0.9	0.9	0.6	0.7
LP Drum Level	IN	0	0.1	-0.1	0.4	0.5	0.3	0.4	0.6	-0.6	-0.2	0.5	0.4
HP Drum Pressure	PSI	476	476	476	476	469	476	469	476	476	470	470	470
LP Drum Pressure	PSI	152	153	153	153	149	152	152	152	163	150	147	146
CO	PPM	22.1	25.30	21	18.5	CAL	14.6	20.0	19.5	19.1	19.3	20.8	24.6
NOx	PPM	10.6	-0.10	10.6	10.5	↓	10.4	10.5	10.6	10.7	10.6	10.3	10.7
O2	%	14.14	0.185	14.21	13.81	↓	13.91	13.68	13.49	13.76	13.95	13.81	14.48
Hot Well Level	%	156	155	142	158	155	147	164	145	145	156	134	136

		8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	2:00	4:00	6:00
450 Header Temp	°F	703	710	710	710	712	711	710	709	710	711	711	709
HP Drum Level	IN	-2.6	1.1	1	1.3	1.2	1.7	2.0	1.5	1.3	1.2	0.9	2.0
LP Drum Level	IN	-0.1	0.4	0.3	0.4	1.1	0.2	0.4	0.6	0.7	-0.5	0.9	0.9
HP Drum Pressure	PSI	476	476	476	476	476	476	476	476	476	477	470	477
LP Drum Pressure	PSI	155	153	153	153	152	152	152	164	155	150	150	149
CO	PPM	21.7	22.4	19.4	21.1	19.8	19.8	19.5	19.6	19.2	20.1	21.9	24.9
NOx	PPM	10.3	69.7	4.0	10.6	10.3	10.6	10.6	10.4	10.4	10.6	10.4	10.4
O2	%	14.05	14.40	13.98	14.31	13.58	13.73	13.61	13.61	13.58	13.87	14.31	14.61
Hot Well Level	%	140	146	160	155	149	153	151	156	154	129	134	145

AUTO / ON / OFF
Day: 1150 SET POINT 451 — 1103 B SET POINT 446; DUCT BURNER — S/P 442
Night: 1150 SET POINT 451 — 1103 B SET POINT 446; DUCT BURNER — S.P 442

COMPRESSORS

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
Filter Separator	PSI	231	231	231	231	231	229	229	229	231	233	233	231
Gas Receiver	PSI	410	411	410	410	410	410	411	410	411	410	411	410

Day: Crankcase Oil Level % 100; Frame Oil Pressure (25-50) PSI 25.28; Temp. cooling °F T1 ___ T2 64
Night: Crankcase Oil Level % 50; Frame Oil Pressure (25-50) PSI 26.78; Temp. cooling °F T1 ___ T2 ___

BOILER TEST RESULTS

	DAY SHIFT	NIGHT SHIFT
BOILER FEEDWATER		
pH 8.75-9.5	8.1	8.30
Conductivity <5mmhos	6.3	1.98
Silica <20 ppb		
R.O.		
Feed TDS<1000 ppm		1159
Permeate TDS<10 ppm		14.05
pH (Feed 7.5)	7.0	7.88
CONDENSATE		
HP-pH 8.5-9.5		8.11
Conductivity <20mmhos		2.54
LP-pH 8.5-9.5		8.09
Conductivity <20mmhos		4.60
HP		
pH 9.5 - 10.5	10.03	10.13
Conductivity 75-150	188	153.6
Phosphate 5-15 ppm		
Silica <5 ppm		
Iron ppm		
LP		
pH 9.5 - 10.5	9.8	10.20
Conductivity 75 - 150	92	83.97
Phosphate 5-15 ppm		
Silica <5 ppm		
Iron ppm		
MIXED BED		
pH 6.0 - 7.5	7.6	7.38
Conductivity <1mmhos	.35	.35
Silica <10 ppb		
HP Steam Test		
Silica <20 ppb	pH 8.4	pH 8.72
SOFTENER		
Hardness <1.0 ppm		
Running (1 or 2)	1	2
STEAM TEST		
Silica <20 ppb		
PV NO.2		

HP BLOW DOWN — DAY SHIFT: TIME: 10:08

	NORTH TANK	SOUTH TANK
SALT	1 FEET	10 FEET

NOTES: Reported emission issues to Jay @ 8:09 MH

23:09 MCC D High Temp Alarm
Informed Foreman
Turned AC unit on South wall off waited
turn back on. It started cooling Room
Down

ACI/ 008-2011 - REV.1.1 JHT III

New-Indy Oxnard Environmental Incident Report

Shaded section to be completed by the EMR

Name of Incident: CEMS sample handling system failure	Incident Date: 06/13/2019
Exact Location Incident: CEMS Analyzer	

Reported By: Jay Maharaj	Estimated Start and Stop Times of Incident: 06/13/2019 8:10 AM – 2:42 PM	Possible Cause: Sample contamination

Incident Type:
- ☐ Spill Internal
- ☐ Spill External
- x Air Emission
- ☐ Other_____
- ☐ Improper Waste Disposal
- ☐ Near miss or below spill release guidelines

Released To
- ☐ Storm Water System
- ☐ Process Sewer
- ☐ Ground (External)
- ☐ Near Miss
- ☐ Other_____
- ☐ Secondary Containment
- x Air
- ☐ Ground (Inside Mill Property)

Detailed Description of Event:
On 6/12 during mill wide maintenance shutdown, E&I performed maintenance on CEMS. The control valve at stack sample probe was moved closer to heated probe to reduce unheated sample line exposure to cool air and prevent moisture accumulation.
On 6/13 8:10 am CEMS stopped reading B&W gas values. E&I was notified, during troubleshooting it was determined calibration gases would flow to analyzer, but stack gases would not. After cycling valves for calibration and stack gases, stack gases started flowing to analyzer. Auto calibration occurred 8 minutes after establishing gas flow, but it did not pass. Further troubleshooting of controls and sample line were done and unit had a passing calibration at 2:42 PM.
On 6/14 Contacted Universal Sample Handling, the manufacturer of our sample handling system. Prevention action items 1, & 2 are recommendations from Universal.
(if required use additional paper and attach)

Estimated Amount Released	pH	CONSISTENCY (%)	Estimated Monetary Loss	No. of Emergency Sandbags used	After event, Sandbags Removed/Disposed
☐ _____ Gallons ☐ _____Pounds ☐ Other_____				☐ _____ Bags ☐ N/A	☐ Yes ☐ No

List Any External Emergency Clean Up Personnel Contacted: None	List Any External Agencies Contacted *(Agency, person and time of call.)* *APCD at 9:47 A.M.*
List Hueneme Personnel Contacted *(Foreman, Mill Manager, etc.)* Robyn Lebrilla	Any Acute or Chronic Health Risks *(refer to MSDS): N/A*

Describe Any Emergency Response Actions:

Suggestions to Prevent Reoccurrence	Estimated Completion Date
1. Replace Stack/Cal Gas control valves in sample handler.	1. 6/17/19
2. Remove redundant Stack/Cal Gas control valve on stack.	2. 6/18/19
3.	3.

Root Cause after investigation: Sample handling control valve issue resulting to lost flow from stack.	Severity Level *(level 1 and 2 must be tracked through SHIMS)* ☐ 1 ☐ 2 ☐ 3 ☐ 4
Investigated By: Jay Maharaj	Investigated Date: 6/13/19

Follow Up	By When	Completion Date	By Whom

Issued by	Reviewed by	Approved by
Department Manager	Technical Superintendent 6/17/2019	Mill Manager

Print Time: 6/17/2019 10:15:58 AM
Note: This document is valid for only ONE week after print time!

NEW INDY
CONTAINERBOARD

July 19, 2019

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

Attention: Ed Swede
Subject: CEMS calibration failure

Dear Mr. Swede:

New-Indy Oxnard is submitting this follow-up report for the call made to VCAPCD Hotline by Rudy Rehbein on July 15, 2019 at 11:35 PM.

On July 12, 2019 at 6:24 AM, the mill had power disruption which shut down the operations including Cogen. On July 15, 2019 at 9:04 PM, Cogen was back online but the CEMS was not calibrating properly. Investigation followed and Rosemount service technician arrived on July 16. After troubleshooting, the technician found that the PLC microprocessor has been affected by the power disruption and the calibration parameters were lost. He resolved the issue by separating the gas units from the processor, calibrating each channel separately and then inputting the calibration results into the processor. CEMS successful calibrations were completed at 3:24 PM. There was no valid emission data from July 15, 9:04 PM to July 16, 3:24 PM, a total of 18.33 hours.

The Daily Emission Sheets, PI trends, ABB trends, Cogen Daily Log 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

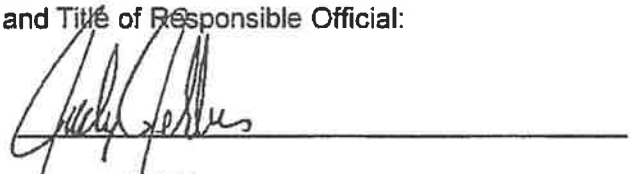
Ventura County APCD Rule 33.9 requires that "*any document, including reports, schedule of compliance progress reports and compliance certifications, required by a Part 70 permit shall be certified by a responsible official.*" Therefore, this form shall be signed by the company's Responsible Official 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:

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: 	7/19/2019
Title: Mill Manager	

DAILY ENVIRONMENTAL REPORT

End time: 7/16/2019 7:00   Start time: 7/15/2019 7:00

Time	Duct burner gas flow MSCFH	Turbine gas flow MSCFH	Mason Burner gas flow MMBTU/hr	Mason Burner gas flow SCFH	SCR Temperature °F	SCR inlet NOx ppm	Ammonia Usage lb/h	NH3/NOx mole ratio	Injection steam rate lb/s	Steam to fuel ratio lb/lb	NOx lb/h	Stack O2 %	Stack CO 15% O2 ppm	CO lb/h	Stack NOx 15% O2 ppm	3h Running Average NOx	Nebraska O2 %	Nebraska NOx ppm	Nebraska Corrected NOx (ppm) (3% O_2)
8:00	-0.03	10.24	0.00	0.00	497.29	0.61	-1.58	-166.31	0.15	[illegible]	0.43	20.76	[illegible]	1.06	11.45	8.10	3.12	27.75	27.88
9:00	-0.03	10.24	0.00	0.00	497.30	0.61	-1.58	-166.31	0.15	[illegible]	0.44	20.78	102.17	1.06	12.05	10.11	3.05	28.40	28.57
10:00	-0.03	10.24	0.00	0.00	497.30	0.62	-1.58	-166.31	0.17	[illegible]	0.38	20.87	[illegible]	0.78	9.21	10.58	3.03	28.08	28.30
11:00	-0.03	10.24	0.00	0.00	497.29	0.33	-1.58	-403.67	0.17	[illegible]	-0.01	20.35	[illegible]	-0.07	-0.35	6.90	3.18	27.27	27.49
12:00	-0.03	10.24	0.00	0.00	497.30	0.30	-1.58	-440.65	0.11	[illegible]	-0.08	20.13	[illegible]	-0.10	7.05	2.70	16.37	10.08	10.09
13:00	-0.03	10.24	0.00	0.00	497.30	-8.65	-1.58	7.79	0.11	[illegible]	0.47	22.90	[illegible]	-0.10	13.81	3.73	5.26	27.60	29.56
14:00	-0.03	21.33	0.43	429.99	497.30	2.78	-1.58	-58.00	0.18	[illegible]	1.48	19.73	80.64	12.49	18.94	10.23	2.82	28.02	28.26
15:00	-0.03	17.77	0.00	0.00	497.30	5.26	-1.58	-43.26	0.23	[illegible]	0.22	21.82	97.55	10.16	3.79	12.18	2.98	28.36	28.18
16:00	-0.03	19.28	0.00	0.00	497.30	6.50	-1.58	-60.09	0.20	[illegible]	1.21	21.49	192.16	84.25	12.13	33.61	3.42	28.34	28.56
17:00	-0.03	10.24	0.00	0.00	497.30	5.42	-1.58	-73.72	0.20	[illegible]	-0.33	19.29	250.77	75.36	8.84	2.35	3.57	27.98	28.66
18:00	-0.03	10.24	0.00	0.00	497.30	5.78	-1.58	-108.94	0.20	[illegible]	0.57	19.72	358.29	4.99	15.27	6.24	3.51	27.90	28.64
19:00	-0.03	10.24	0.00	0.00	497.30	0.56	-1.58	-201.84	0.20	[illegible]	0.07	21.04	[illegible]	1.32	1.22	2.22	3.50	27.91	29.75
20:00	-0.03	10.24	0.00	0.00	497.30	0.56	-1.58	-201.84	0.20	[illegible]	0.46	21.82	705.55	8.79	12.47	9.82	3.73	28.67	29.58
21:00	-0.03	10.24	0.00	0.00	497.30	0.56	-1.58	-201.84	0.20	[illegible]	0.28	20.82	[illegible]	6.65	7.43	7.04	3.57	29.31	30.30
22:00	1.74	81.74	0.59	528.29	521.37	36.38	-1.58	-24.50	0.21	0.40	14.81	17.30	99.00	18.82	11.28	17.72	8.13	28.77	31.22
23:00	3.30	167.03	2.31	2285.19	625.78	50.40	0.53	0.08	1.14	0.50	81.80	14.94	17.87	8.30	84.97	41.89	4.50	23.78	26.08
0:00	5.23	189.88	2.25	2217.08	635.25	50.30	11.18	0.78	1.47	0.64	11.94	15.39	31.49	13.70	18.78	45.01	20.12	10.25	11.24
1:00	6.31	190.02	2.29	2271.28	638.68	50.30	11.34	0.83	1.47	0.64	7.38	15.17	30.69	13.60	19.07	37.28	19.97	0.00	0.00
2:00	6.90	189.94	2.61	2579.14	638.48	51.08	11.28	0.83	1.47	0.64	7.34	15.13	30.41	13.43	10.12	12.32	19.90	0.00	0.00
3:00	6.92	189.77	2.64	2600.39	635.25	51.80	11.27	0.81	1.47	0.64	7.32	15.11	30.78	13.65	10.08	10.08	20.02	0.00	0.00
4:00	6.86	189.52	2.52	2479.70	635.13	51.80	11.28	0.81	1.47	0.64	7.25	15.10	31.24	13.73	10.01	10.08	20.04	0.00	0.00
5:00	6.87	189.52	2.68	2650.25	635.27	51.60	11.31	0.82	1.47	0.64	7.82	15.09	30.13	13.25	10.82	10.30	20.07	0.00	0.00
6:00	6.97	189.52	2.68	2647.61	635.41	53.25	11.30	0.79	1.47	0.63	7.93	15.09	29.56	13.03	10.90	10.58	19.99	0.00	0.00
7:00	6.93	189.52	2.66	2622.44	635.63	53.34	11.39	0.80	1.47	0.63	7.31	15.06	28.78	12.70	10.09	10.60	19.98	0.00	0.00

Daily Av Cogen NOx lb/h	Daily Av Cogen+Neb NOx lb/h
6.11	7.45

Daily Av Cogen CO lb/h	Daily Av Cogen+Neb CO lb/h
12.40	24.52

Stack NOx analyzer	
zero value	-0.68
zero drift %	-0.66
span value	1.23
span drift %	[illegible]

Stack CO Analyzer	
zero value	90.28
zero drift %	[illegible]
span value	102.97
span drift %	[illegible]

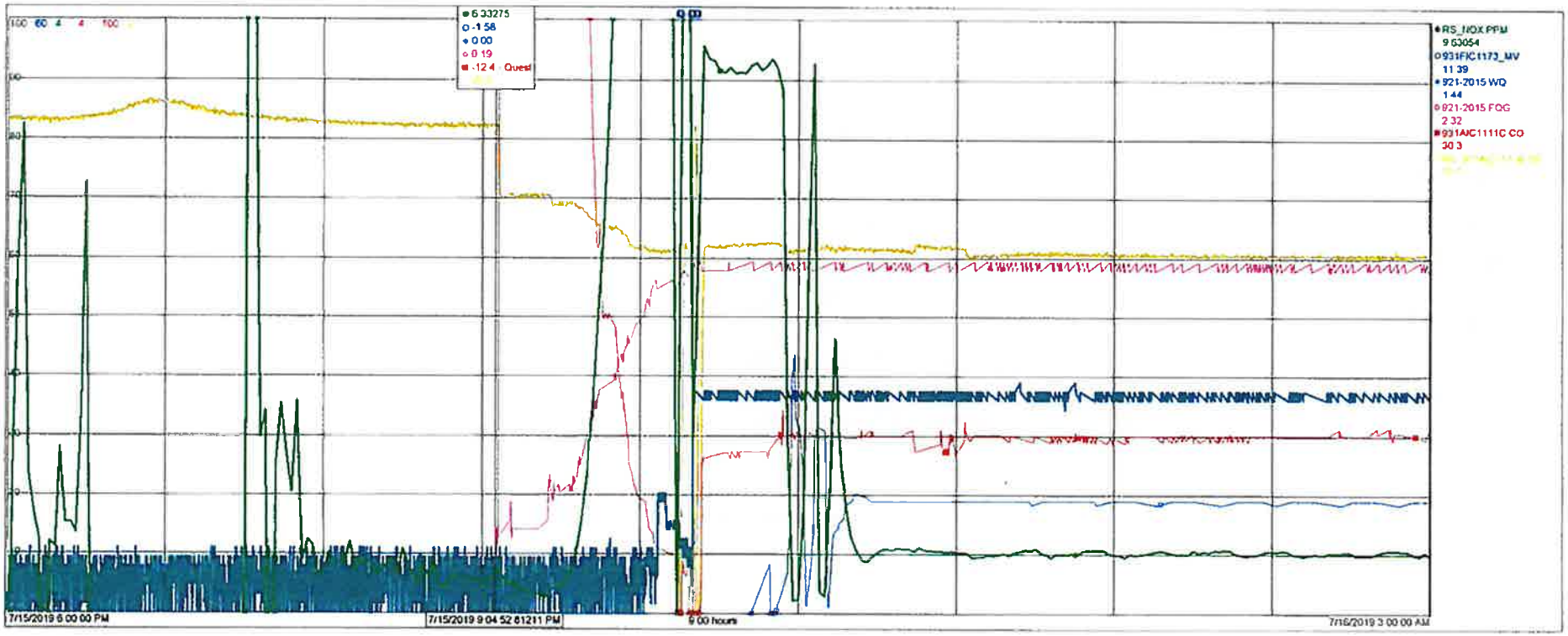
Stack O2 Analyzer	
span value	22.93
span drift %	[illegible]
zero value	11.63
zero drift %	[illegible]

Nebraska Gas	936.261

Comments: Turbine was down due to power disruption potentially triggered by an earthquake on 7/15/19 from 7:00 AM to 9:04 PM, a total of 14.07 hours. Nebraska ran. CEMS did not calibrate after start up. Rudy R. notified VCAPCD on 7/15/19 at 11:35 PM.

PRINT TIME: 7/19/2019 11:57 AM

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


6 33275
-1 58
0 00
0 19
-12 4
Quest
RS_NOX PPM
9 63054
931FIC1173_MV
11 39
921-2015 WQ
1 44
921-2015 FQG
2 32
931AIC1111C CO
30 3
7/15/2019 6 00 00 PM
7/15/2019 9 04 52 61211 PM
9 00 hours
7/16/2019 3 00 00 AM


AS117 - Spare
2019-07-18 15:15
23ME
782-GRPALARM_1
SEC FIBER GRP ALM
Disturb.
15:14:52
RSMT_4-20MA ROSEMOUNT CEMS VALUES
Time Scope: 1 day
150
100
25.0
113
75
18.8
75
50
12.5
38
25
6.3
0
0
0.0
100
75
50
25
0
17:00
0 9-07-15
21:00
2019-07-15
ON Name Description Attribute Treatment Ruler Time Ruler Value Current Value Unit Filter Time Offset Form
931AIC1111A.NOX B&W SCR INLET NOX MV Mom 21:44 2019-07-15 54.96 82.73 PPM
931AIC1111C.CO B&W BLR STACK RAW CO MV Mom 21:44 2019-07-15 87.94 20.47 PPM
931AIC1111B.O2 B&W BLR RAW O2% MV Mean 21:44 2019-07-15 16.45 14.58 %
931AIC1111D.NOX B&W BLR STACK NOX MV Mean 21:44 2019-07-15 25.32 11.20 PPM
931-AIC-1111.INCAL RSMT CEMS IN CAL MV Mom 0
931-aic-1111.trb RSMT CEMS TROUBLE MV Mom 1
Current Time
Save Trend...
Hide Table
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...
ABB

OFFICIAL DAILY COGENERATION LOG

NEW-INDY CONTAINERBOARD
OXNARD MILL

DATE: 07-15-19

NIGHT SHIFT OPERATOR NAME: [illegible]

DAY SHIFT OPERATOR NAME: W DAVIS

STEAM & WATER READINGS

	PERMEATE H_2O	CONCENTRATE H_2O	LP	HP
CURRENT	479 3958	8882289	2758	24
PREVIOUS	97866999	8878449	0	11

GAS & ELECTRIC READINGS

	SCG LP	TURBINE	MAXON	DUCT BURNER	MEGAWATTS
CURRENT	7203260	26421100	2332574	2678	42937
PREVIOUS	7158160	25370900	2332557	0	41881

NEW DEMIN TRAILER YES ☐ NO ☒ | TANK 1 % | TANK 2 % | CHILLER HOURS:

AMMONIA DELIVERY YES ☐ NO ☐ | % FULL: 86 | PACESETTER (ON) / OFF | ALARM: RED ☐ YELLOW ☒ GREEN ☐

TURBINE

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
FMV	%										36.00	36.06	35.64
Inlet Temp	°F										105	102	64
Humidity	%										70.4	72.4	72.4
Vibration (Max)	MILS										.64	.60	.65
Steam Injection	#/SEC										1.44	1.30	1.44
Turbine L.O. Level	%										100	100	100
T54	°F										1298	1244	1295

BATTERIES V | HP RECOUPE FAL | AIR INLET DIFF IN/H2O | HP RECOUPE FAR | L.O. DIFFERENTIAL PSI | HP RECOUPE AFT

BATTERIES V | HP RECOUPE FAL | AIR INLET DIFF IN/H2O | HP RECOUPE FAR | L.O. DIFFERENTIAL PSI | HP RECOUPE AFT

ONLINE TURBINE WATER WASH YES ☐ NO ☐ | CRANK WASH YES ☐ NO ☐ > GALLONS CONDUCTIVITY MHOS | BOILER FEED WATER PUMP OPERATION NO.1 PUMP YES ☐ NO ☐ NO.2 PUMP YES ☐ NO ☐

GENERATOR

		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	°F										150	150	150
L.O. Supply	°F										120	120	120 V
Gen. Vibration (Max)	IPS										.20	.21	.24 F
Tie Line	MW										0	0	0
Generator Voltage	KV												

GEN. AMPS | GEN.VARS MEGA VARS | FIELD AMPS | FIELD VOLTS V | COOLING TWR INLET F | COOLING TWR OUTLET F

GEN. AMPS | GEN.VARS MEGA VARS | FIELD AMPS | FIELD VOLTS | COOLING TWR INLET F | COOLING TWR OUTLET F

COGEN BOILER

		7:00	9:00	~~11:00~~	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
450 Header Temp	°F										707	704	712
HP Drum Level	IN										1.7	1.0	1.1
LP Drum Level	IN										0.2	0.5	0.5
HP Drum Pressure	PSI										461	461	461
LP Drum Pressure	PSI										146	146	146
CO	PPM										300	30.8	27.9
NOx	PPM										10.1	9.7	10.8
O_2	%										15.22	15.04	15.02
Hot Well Level	%										.52	145	156

		8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	2:00	4:00	6:00
450 Header Temp	°F									708	710	704	705
HP Drum Level	IN									1.9	09	1.0	09
LP Drum Level	IN									0.0	0.4	0.6	05
HP Drum Pressure	PSI									461	461	461	461
LP Drum Pressure	PSI									146	146	146	146
CO	PPM									29.8	30.6	30.5	28.9
NOx	PPM									9.3	10.1	10.6	10.3
O_2	%									15.08	15.01	15.07	14.98
Hot Well Level	%									152	147	152	139

AUTO / ON / OFF

1150 SET POINT 1103 B SET POINT | DUCT BURNER S/P

1150 SET POINT 1103 B SET POINT | DUCT BURNER S.P

COMPRESSORS

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
Filter Separator	PSI									240	240	240	238
Gas Receiver	PSI									400	400	400	400

Crankcase Oil Level % | Frame Oil Pressure (25–50) PSI | Temp. cooling °F T1 T2

Crankcase Oil Level % | Frame Oil Pressure (25–50) PSI | Temp. cooling °F T1 T2

BOILER TEST RESULTS

	DAY SHIFT	NIGHT SHIFT
BOILER FEEDWATER		
pH 8.75 – 9.5		
Conductivity <5mmhos		
Silica <20 ppb		
R.O.		
Feed TDS<1000 ppm		
Permeate TDS<10 ppm		
pH (Feed 7.5)		
CONDENSATE		
HP-pH 8.5 – 9.5		
Conductivity <20mmhos		
LP-pH 8.5-9.5		
Conductivity <20mmhos		
HP		
pH 9.5 – 10.5		
Conductivity 75–150		
Phosphate 5–15 ppm		
Silica <5 ppm		
Iron ppm		
LP		
pH 9.5 – 10.5		
Conductivity 75 – 150		
Phosphate 5–15 ppm		
Silica <5 ppm		
Iron ppm		
MIXED BED		
pH 6.0 – 7.5		
Conductivity <1mmhos		
Silica <10 ppb		
HP Steam Test		
Silica <20 ppb		
SOFTENER		
Hardness <1.0 ppm		
Running (1 or 2)		
STEAM TEST		
Silica <20 ppb		
PV NO.2		
HP BLOW DOWN	DAY SHIFT:	
TIME:		
	NORTH TANK	SOUTH TANK
SALT	FEET	FEET

NOTES:

AMMONIA VALVE IN AUTO NOT E1

TIE LINE NOT SHOWING RUNNING ON PRESELECT 16 MW

ACADP 000-3011 - REV.11

DAILY ENVIRONMENTAL REPORT

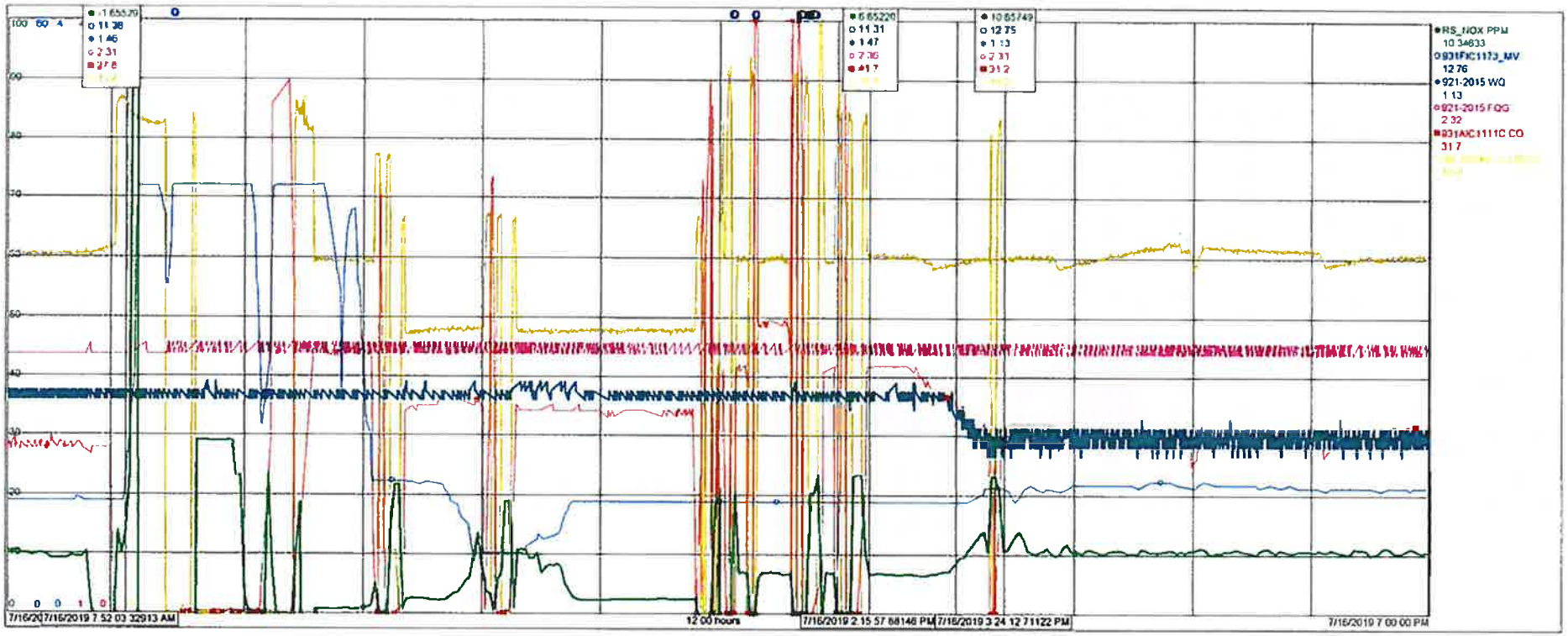
Start Time: 7/17/2019 7:00 — Stop Time: 7/18/2019 7:00

Time	Duct burner gas flow MSCFH	Turbine gas flow MSCFH	Mission Burner gas flow MMBTU/hr	Mission Burner gas flow SCFH	SCR Temperature °F	SCR inlet NOx ppm	Ammonia Usage lb/h	NH3 NOx mole ratio	Injection Steam rate lb/s	Steam to fuel ratio lb/lb	NOx lb/h	Stack O2 %	Stack CO 15% O2 ppm	CO lb/h	Stack NOx 15% O2 ppm	3h Running Average NOx lb/h	Nebraska O2 %	Nebraska NOx ppm	Nebraska Corrected NOx (ppm) (3% O2)	Daily Av Cogen NOx lb/h	Daily Av Cogen Neb NOx lb/h
																				5 74	5 74
8 00	7 02	189 52	2 54	2511 37	635 82	52 73	11 42	0 80	1 47	0 64	5.36	15 72	33 35	15.28	7.44	9.48	19 95	0 00	0 00		
9 00	6 89	190 20	2 65	2612 49	635 04	45 83	40 83	0 78	1 47	0 64	4 53	7 54	135 78	-78.00	-11 62	1 90	19 92	0 00	0 00	Daily Av Cogen	Daily Av Cogen Neb
10 00	6 81	191 22	2 66	2545 50	636 18	46 41	38 40	5 50	1 47	0 64	0 00	9 63	22 87	10.50	-0 51	1 83	19 94	0 00	0 00	CO	CO
11 00	10 31	193 11	2 66	2648 35	659 25	50 53	7 69	0 52	1 49	0 64	5.29	12 02	23 95	11.18	8.18	1 39	19 92	0 00	0 00	lb/h	lb/h
12 00	17 34	191 91	3 77	3731 49	659 39	38 47	8 18	3 21	1 50	0 64	6.25	11 01	17 68	8.23	6 53	4 73	19 94	0 00	0 00	10 24	10 24
13 00	18 77	190 45	4 04	3984 77	659 80	44 64	11 31	2 83	1 47	0 64	1.85	10 89	20 24	9 60	2 70	3 60	19 95	0 00	0 00	Stack NOx analyzer	
14 00	19 65	189 66	3 94	3891 09	664 51	27 81	11 31	9 38	1 47	0 64	0 49	13 36	22 81	12.79	7 82	0 47	19 94	0 00	0 00	zero value	0 08
15 00	18 48	191 14	3 87	3817 44	662 79	42 27	11 31	3 71	1 47	0 63	5.68	13 63	31 59	17.26	7.54	0 60	19 96	0 00	0 00	zero drift %	0 08
16 00	17 58	192 93	3 85	3804 38	663 80	59 35	12 35	0 92	1 20	0 51	9 40	14 55	32 17	12.31	12 19	2 97	19 96	0 00	0 00	span value	82 66
17 00	18 03	193 78	2 81	2738 31	663 08	66 49	13 10	0 89	1 18	0 50	8.10	15 23	31 76	14.96	10.48	10.06	19 96	0 00	0 00	span drift %	0 19
18 00	8 45	192 59	0 00	0 00	648 90	67 41	13 00	0 71	1 18	0 50	7.81	15 35	31 94	14.39	10.49	11.06	19 97	0 00	0 00		
19 00	17 93	190 37	0 00	0 00	662 56	67 36	12 71	0 86	1 18	0 50	8.08	15 01	30 38	14.31	10.49	10.48	19 90	0 00	0 00	Stack CO Analyzer	
20 00	18 91	189 69	0 00	0 00	660 22	67 23	12 69	0 87	1 17	0 50	7.96	15 01	31 37	14.47	10.48	10.48	19 83	0 00	0 00	zero value	-0 66
21 00	16 83	189 52	0 00	0 00	659 37	65 86	12 42	0 87	1 17	0 50	8.00	14 98	31 74	14.76	10.51	10.49	19 68	0 00	0 00	zero drift %	-0 66
22 00	15 94	189 86	0 00	0 00	658 07	66 29	12 43	0 87	1 17	0 50	7.87	14 98	31 93	14.77	10.49	10.48	19 69	0 00	0 00	span value	90 34
23 00	15 27	189 52	0 00	0 00	656 54	65 78	12 41	0 87	1 17	0 50	7.95	14 99	32 57	14.98	10.52	10.50	19 70	0 00	0 00	span drift %	0 29
0 00	10 94	189 86	1 52	1529 71	648 93	65 77	12 23	0 68	1 18	0 50	7.77	15 11	33 98	15.29	10.47	10.49	19 73	0 00	0 00		
1 00	10 95	190 20	3 75	3704 23	642 51	65 71	12 14	0 68	1 18	0 50	7.78	15 13	34 55	15.55	10.48	10.49	19 73	0 00	0 00	Stack O2 Analyzer	
2 00	15 58	189 69	3 76	3718 14	639 24	84 71	12 17	0 66	1 17	0 50	7.99	15 05	33 64	15.60	10.49	88.88	19 71	0 00	0 00	span value	20 90
3 00	17 57	189 69	3 73	3681 28	658 59	65 33	12 09	0 66	1 17	0 51	8.03	15 00	33 08	15.28	10.53	10.50	19 74	0 00	0 00	span drift %	-0 08
4 00	17 57	189 52	3 68	3626 53	658 75	84 31	12 02	0 67	1 18	0 51	8.00	15 01	34 03	15.84	10.49	10.49	19 77	0 00	0 00	zero value	-0 04
5 00	17 47	189 69	3 70	3651 48	659 28	65 21	12 22	0 67	1 17	0 50	8.02	15 02	33 78	15.82	10.50	10.49	19 77	0 00	0 00	zero drift %	-0 04
6 00	17 66	189 52	2 88	2813 77	659 11	65 86	12 39	0 67	1 18	0 51	8.02	15 03	33 69	15.65	10.47	10.47	19 76	0 00	0 00		
7 00	9 95	189 86	0 00	0 00	648 19	65 91	12 39	0 68	1 17	0 51	7.74	15 23	35 52	15.95	10.49	10.49	19 77	0 00	0 00	Nebraska Gas	0

Comments: CEMS did not calibrate properly Troubleshooting were conducted from 7 52 AM to 3 24 PM Sucessful Nox and CO calibrations were done at 2 15 PM. A sucessful O2 calibration was done at 3 24 PM

PRINT TIME: 7/19/2019 11:56 AM

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


RS_NOX PPM
10 34633
921-2015 WQ
1 13
921-2015 FQG
2 32
931AIC1111C CO
31 7
12 00 hours
7/16/2019 7 00 00 PM


A8117 - Spare
2019-07-18 15:13
23ME
R 781JIC105.JAH
NO.3 REF HI KW
Value
15:06:22
RSMT 4-20MA ROSEMOUNT CEMS VALUES
Time Scope: 1 day
150
100
25.0
113
75
18.8
75
50
12.5
38
25
6.3
0
0
0.0
100
75
50
25
0
09:00
2019-07-18
17:00
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 18:48 2019-07-16 87.36 81.80 PPM
931AIC1111C.CO B&W BLR STACK RAW CO MV Mom 18:48 2019-07-16 31.69 20.47 PPM
931AIC1111B.O2 B&W BLR RAW O2% MV Mean 18:48 2019-07-16 15.10 14.54 %
931AIC1111D.NOX B&W BLR STACK NOX MV Mean 18:48 2019-07-16 9.96 11.32 PPM
931-AIC-1111.INCAL RSMT CEMS IN CAL MV Mom --- 0
931-aic-1111.trb RSMT CEMS TROUBLE MV Mom --- 1
Current Time
Save Trend...
Hide Table
D1 30 minutes
D2 1 hour
D3 8 hours
D4
D5 10 days
D6 Positioning...
D7 Trace Control...
D8 Analyze...
D9 Trace Config...
D10 Extended Config...

OFFICIAL DAILY COGENERATION LOG

NEW-INDY CONTAINERBOARD OXNARD MILL

DATE: 07/16/19

DAY SHIFT OPERATOR — NAME: W Davis

NIGHT SHIFT OPERATOR — NAME: [illegible signature]

	STEAM & WATER READINGS				GAS & ELECTRIC READINGS				
	PERMEATE H2O	CONCENTRATE H2O	LP	HP	SCG LP	TURBINE	MAXON	DUCT BURNER	MEGAWATTS
CURRENT	98017015	88861512	165198	1606	7224690	2905820	23407789	354938	42318
PREVIOUS	9793958	8882289	2758	24	7203260	2642100	2332574	2678	41937

NEW DEMIN TRAILER: YES ☐ NO ☒ — TANK 1 % — TANK 2 % — CHILLER HOURS: 102,759:21:46

AMMONIA DELIVERY: YES ☐ NO ☒ — % FULL: 85/85 — PACESETTER (ON) / OFF — ALARM: RED ☐ YELLOW ☒ GREEN ☐

TURBINE

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
FMV	%	36.0	35.94	36.00	36.06	35.94	35.94	36.00	36.00	36.06	36.00	35.85	36.00
Inlet Temp	°F	67	69	71	72	74	73	71	69	68	67	67	67
Humidity	%	70.4	61.9	52.1	51.8	49.6	48.2	59.5	60.6	62.6	66.7	68.7	64.7
Vibration (Max)	MILS	.60	.62	.69	.62	.72	.68	.64	.64	.67	.71	.66	.63
Steam Injection	#/SEC	1.50	1.50	1.50	1.49	1.25	1.12	1.12	1.19	1.25	1.19	1.12	1.19
Turbine L.O. Level	%	98	98	98	98	98	98	98	98	98	98	98	98
T54	°F	1306	1311	1316	1318	1325	1324	1319	1313	1311	1309	1309	1309

Day: BATTERIES 127.0 V — HP RECOUPE FAL; AIR INLET DIFF 1.59 IN/H2O — HP RECOUPE FAR; L.O. DIFFERENTIAL 5 PSI — HP RECOUPE AFT; CRANK WASH YES ☐ NO ☐ — GALLONS — CONDUCTIVITY MHOS

Night: BATTERIES V — HP RECOUPE FAL; AIR INLET DIFF IN/H2O — HP RECOUPE FAR; L.O. DIFFERENTIAL PSI — HP RECOUPE AFT; BOILER FEED WATER PUMP OPERATION: NO.1 PUMP YES ☐ NO ☐ — NO.2 PUMP YES ☐ NO ☐

ONLINE TURBINE WATER WASH: YES ☐ NO ☐

GENERATOR

		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	°F	151	152	152	153	154	154	154	153	152	152	151	150
L.O. Supply	°F	120	121	121	123	123	123	123	123	121	121	120	120
Gen. Vibration (Max)	IPS	.24	.24	.23	.23	.24	.25	.26	.27	.26	.26	.25	.24
Tie Line	MW	Ø	Ø	Ø	Ø	Ø	Ø	0	0	0	0	0	0
Generator Voltage	KV	12.37	12.38	12.39	12.37	12.37	12.34						

Day: GEN. 750 AMPS — GEN VARS 1.65 MEGA VARS; FIELD 149 AMPS — FIELD VOLTS 123 V; COOLING TWR INLET 87 F — COOLING TWR OUTLET 83 F

Night: GEN. AMPS — GEN VARS MEGA VARS; FIELD AMPS — FIELD VOLTS; COOLING TWR INLET F — COOLING TWR OUTLET F

COGEN BOILER

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
450 Header Temp	°F	709	709	709	710	709	710	710	712	710	709	709	710
HP Drum Level	IN	1.1	1.0	1.4	.3	2.1	.3	.8	0.9	1.1	0.8	0.0	1.1
LP Drum Level	IN	.5	.5	.7	.4	.3	1.4	0.2	0.7	0.5	-2.1	0.5	0.3
HP Drum Pressure	PSI	468	468	468	467	467	468	461	461	468	461	469	468
LP Drum Pressure	PSI	146	146	148	148	148	149	148	148	148	149	147	147
CO (9:30: 24.2)	PPM	28.2	-.09	22.6	C	30.5	31.7	31.6	31.5	33.2	26.2	34.7	35.4
NOx (-.1)	PPM	9.6	[illegible]	2.2	A	10.9	10.4	10.6	10.6	9.9	9.9	10.1	10.9
O2 (-.1)	%	15.03	24.6	12.00	L	15.04	15.29	14.99	15.02	15.00	14.52	15.09	15.03
Hot Well Level	%	158	156	158	151	160	160	154	143	138	152	147	156

		8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	2:00	4:00	6:00
450 Header Temp	°F	713	704	709	710	710	710	710	710	707	709	710	708
HP Drum Level	IN	.9	-.7	1.0	2.4	.7	-2.2	1.6	1.2	0.5	1.9	1.1	0.7
LP Drum Level	IN	.6	.7	.4	.8	.1	.1	0.2	0.6	0.1	-0.3	0.7	0.6
HP Drum Pressure	PSI	468	475	468	467	468	468	468	461	468	468	468	468
LP Drum Pressure	PSI	146	148	148	148	150	149	148	148	150	147	149	148
CO	PPM	C	C	22.5	C	28.8	29.8	31.4	31.7	34.7	34.8	34.6	35.2
NOx	PPM	A	A	2.3	A	10.4	10.0	10.5	10.8	10.8	11.1	10.7	10.5
O2	%	L	L	12.01	L	14.91	14.74	14.95	14.99	15.23	15.23	15.07	15.13
Hot Well Level	%	138	160	143	145	140	136	138	151	152	160	162	156

AUTO / ON / OFF

Day: 1150 SET POINT 451 — 1103 B SET POINT 446; DUCT BURNER S/P 442

Night: 1150 SET POINT — 1103 B SET POINT; DUCT BURNER S.P.

COMPRESSORS

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
Filter Separator	PSI	238	238	236	236	236	236	234	236	238	240	240	240
Gas Receiver	PSI	400	400	400	400	400	401	400	399	399	400	399	400

Day: Crankcase Oil Level % 50; Frame Oil Pressure (25-50) PSI 24.98; Temp. cooling °F T1 T2

Night: Crankcase Oil Level %; Frame Oil Pressure (25-50) PSI; Temp. cooling °F T1 T2

BOILER TEST RESULTS

	DAY SHIFT	NIGHT SHIFT
BOILER FEEDWATER		
pH 8.75 – 9.5	8.44	
Conductivity <5mmhos	5.10	
Silica <20 ppb		
R.O.		
Feed TDS<1000 ppm	974.8	
Permeate TDS<10 ppm	11.82	
pH (Feed 7.5)	7.59	
CONDENSATE		
HP-pH 8.5 – 9.5	8.4	
Conductivity <20mmhos	3.48	
LP-pH 8.5–9.5		
Conductivity <20mmhos		
HP		
pH 9.5 – 10.5	9.42	
Conductivity 75–150	134.9	
Phosphate 5–15 ppm		
Silica <5 ppm		
Iron ppm		
LP		
pH 9.5 – 10.5	9.68	
Conductivity 75 – 150	79.71	
Phosphate 5–15 ppm		
Silica <5 ppm		
Iron ppm		
MIXED BED		
pH 6.0 – 7.5	8.42	
Conductivity <1mmhos	.54	
Silica <10 ppb		
HP Steam Test		
Silica <20 ppb		
SOFTENER		
Hardness <1.0 ppm		
Running (1 or 2)	2	
STEAM TEST		
Silica <20 ppb		
PV NO.2		

HP BLOW DOWN — DAY SHIFT: 09:56 — TIME:

SALT	NORTH TANK	SOUTH TANK
	FEET	FEET

NOTES:

- Issues with Environmental Readings Jay M. & J. West Notified
- FIC-1175 in Auto @ 46% 11.3 PPH Will Not Stay Open Enough (in E)
- 16:10 Back in E1 on Ammonia Control FIC-1175

ACADY 000-3011 - REV.4

New-Indy Oxnard Environmental Incident Report

Shaded section to be completed by the EMR

Name of Incident: Turbine CEMS not calibrating		Incident Date: 07/15/2019
Exact Location Incident Cogen area		
Reported By James West	Estimated Start and Stop Times of Incident: 7/15 9:04 PM – 7/16 3:24 PM	Possible Cause: Power disruption

Incident Type:	Released To
ف Spill Internal	ف Improper Waste Disposal
ف Spill External	ف Near miss or below spill release guidelines
X Air Emission	
ف Other_____	
	ف Storm Water System
	ف Process Sewer
	ف Ground (External)
	ف Near Miss
	ف Other_____
	ف Secondary Containment
	X Air
	ف Ground (Inside Mill Property)

Detailed Description of Event

The CEMS unit for stack NOx and CO will not accurately calibrate on the span. Both NOx and CO are 19% below the actual span value. Calibrated several times manually and automatically. Changed out the sample pump and problem continued. Contacted the OEM and received a response the next day, July 16. Worked with OEM over the phone for 4 hours until a local Rosemount representative arrived at the mill. After troubleshooting, the technician found that the PLC parameters/constants were lost. The technician ran a calibration process by separating the CO and NOx units from the processor and running a calibration then inputting the results into the processor. Ran a second calibration with the processor and the system came back to normal. The successful calibration was completed by 3:24 PM.

(if required use additional paper and attach)

Estimated Amount Released	pH	CONSISTENCY (%)	Estimated Monetary Loss
ف _____ Gallons ف _____ Pounds X Other: Zero_____			

List Any External Emergency Clean Up Personnel Contacted	List Any External Agencies Contacted *(Agency, person and time of call.)* VCAPCD
List Hueneme Personnel Contacted *(Foreman, Mill Manager, etc.)* Shift supervisor, Mill Manager, E&I Supervisor	Any Acute or Chronic Health Risks *(refer to MSDS)* No

Describe Any Emergency Response Actions

New-Indy E&I technician on site worked on the calibration failure the evening of 7/15.

Suggestions to Prevent Reoccurrence	Estimated Completion Date
1. Develop a procedure to repair a loss of PLC memory parameters.	1. 8/6/2019
2.	2.
3.	3.
4.	4.

Root Cause after investigation PLC Microprocessor was affected by power disruption.	Severity Level *(level 1 and 2 must be tracked through SHIMS)* ف 1 ف 2 ف 3 ف 4
Investigated By Rudy Rehbein	Investigated Date 7/16/19

Follow Up	By When	Completion Date	By Whom

Issued By	Reviewed by	Approved by
7/19/19 Department Manager	Technical Superintendent 7/19/2019	7/19/2019 Mill Manager

Print Time: 7/19/2019 11:17:46 AM

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

NEW INDY
CONTAINERBOARD

August 13, 2019

Ed Swede
Ventura County Air Pollution Control District
669 County Square Drive, Second Floor
Ventura, CA 93003

Subject: Cogen Excess NOx Emission

Dear Mr. Swede:

New-Indy Oxnard is submitting this follow-up report for a call made to VCAPCD Breakdown Center Hotline by Howard Gastelum on August 12, 2019 at 2:50 AM.

On August 12, 2019, at 1:55 AM, the mill experienced electrical control fluctuations causing equipment to shut down. One of the affected units was the ammonia dilution fan for Cogen SCR (Selective Catalytic Reduction). Since the ammonia dilution fan stopped working, the ammonia control valve shut off automatically resulting to high NOx emissions. Addition of ammonia was re-established at about 2:30 AM and the system was under control at about 2:45 AM. The NOx emission was high from 1:55 AM to 2:45 AM, which resulted to a total of 17.17 lbs excess NOx emissions (see attached calculations). Investigation is in progress to determine the cause of electrical control fluctuations in the mill.

The Daily Emission Sheet, PI trend, ABB trend, Daily Logs 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

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:

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: [signature]	8/13/2019
Title: Mill Manager	

New-Indy Oxnard, LLC
Excess Emission Calculations

Date	Time	NOX Emissions (PPM)	Average 3-Hour NOx (PPM)	NOx Permit limit (PPM)	Excess NOx (PPM)	X (see Notes)	Average Hourly Fuel Throughput Duct Burner (MSCFH)	Average Hourly Fuel Throughput Turbine (MSCFH)	Total Hourly Fuel Throughput (MMSCFH)	Average Excess NOx Emission (lbs/hr)	Number of Hrs	Total Excess NOx Emissions (lbs)
8/12/2019	1:00 AM - 2:00 AM	14.18					8.36	266.35				
	2:00 AM - 3:00 AM	32.70					9.55	266.01				
	3:00 AM - 4:00 AM	6.04					10.15	265.15				
			17.64	12.00	5.64	3.69	9.35	265.84	0.28	5.72	3	17.17

Notes:	X =	F*MW*(20.9/20.9-15)*(1/387)*(1/1000000)*(HHV)		
		F-factor	8642	
		HHV	1013.4	
		NO2	46	
	X =	3.69		

DAILY ENVIRONMENTAL REPORT

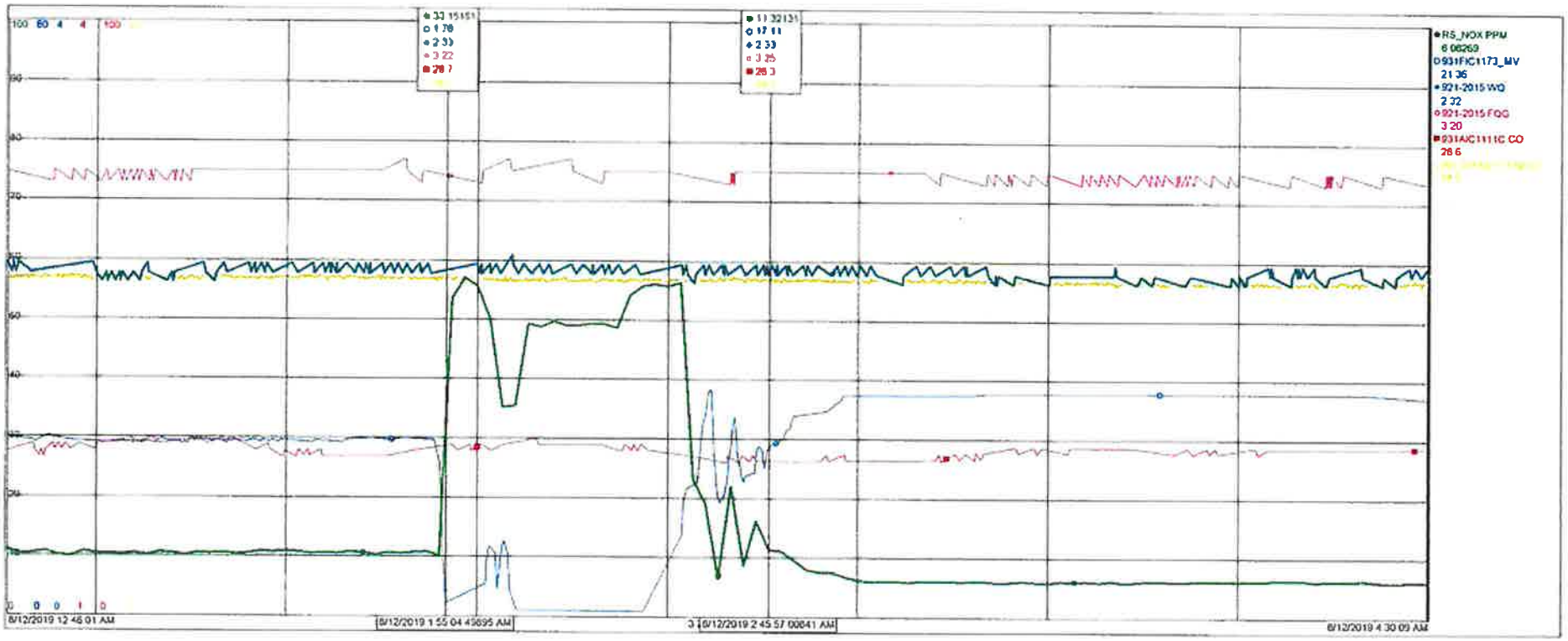
End Time 8/12/2019 7:00 Start Time 8/11/2019 7:00

Time	Duct burner gas flow MSCFH	Turbine gas flow MSCFH	Mixed Burner gas flow MMBTU/hr	Mixed Burner gas flow SCFH	SCR Temperature °F	SCR inlet NOx ppm	Ammonia Usage lb/h	In-Cl NOx mole ratio	Injection steam rate lb/s	Steam to fuel ratio lb/lb	NOx lb/h	Stack O2 %	Stack CO 15% O2 ppm	CO lb/h	Stack NOx 15% O2 ppm	3h Running Average NOx	Nebraska O2 %	Nebraska NOx ppm	Nebraska Corrected NOx (ppm) (3% O_2)	Daily Av Cogen NOx lb/h	Daily Av Cog+Neb NOx lb/h
																				11 46	11 46
8 00	8 26	265 49	0 00	0 00	686 57	73 09	18 19	0 67	2 33	0 72	10.55	14 64	26 94	15.47	10.45	10.49	20 70	0 00	0 00		
9 00	6 80	266 01	0 00	0 00	686 14	73 45	18 23	0 67	2 34	0 72	10.61	14 67	26 84	15.71	10.54	10.50	20 67	0 00	0 00	Daily Av Cogen	Daily Av Cog+Neb
10 00	6 79	266 35	0 00	0 00	686 38	73 45	18 32	0 67	2 34	0 72	10.57	14 66	25 44	15.62	10.52	10.50	20 68	0 00	0 00	CO	CO
11 00	6 74	266 67	0 00	0 00	686 62	74 45	18 09	0 65	2 34	0 72	10.97	14 33	23 49	14.60	10.78	10.61	20 89	0 00	0 00	lb/h	lb/h
12 00	6 78	266 18	0 00	0 00	686 67	74 48	18 18	0 66	2 34	0 72	10.58	14 31	23 39	14.29	10.53	10.60	20 74	0 00	0 00	15 00	15 00
13 00	6 82	269 33	0 00	0 00	687 84	74 28	18 25	0 65	2 41	0 73	10.87	14 29	23 22	14.35	10.48	10.59	20 74	0 00	0 00	Stack NOx analyzer	
14 00	6 86	269 51	0 00	0 00	688 10	74 64	18 27	0 65	2 40	0 73	10.75	14 25	23 26	14.53	10.56	10.52	20 75	0 00	0 00	zero value	-0 03
15 00	6 84	269 76	0 00	0 00	689 06	74 45	18 25	0 65	2 41	0 73	10.70	14 22	23 19	14.43	10.49	10.51	20 79	0 00	0 00	zero drift %	-0 03
16 00	6 84	268 23	0 00	0 00	689 03	74 79	18 26	0 65	2 40	0 73	10.64	14 22	23 03	14.24	10.53	10.53	20 83	0 00	0 00	span value	82 88
17 00	6 80	267 20	0 00	0 00	688 86	74 76	18 27	0 66	2 38	0 73	10.53	14 20	22 81	13.97	10.42	10.46	20 85	0 00	0 00	span drift %	0 45
18 00	6 90	267 71	0 00	0 00	688 59	74 43	18 20	0 65	2 38	0 73	10.60	14 19	23 25	14.42	10.47	10.47	20 84	0 00	0 00		
19 00	8 10	266 35	0 00	0 00	689 04	74 41	18 14	0 65	2 35	0 72	10.61	14 18	24 55	15.10	10.50	10.48	20 81	0 00	0 00	Stack CO Analyzer	
20 00	8 20	266 66	0 00	0 00	687 05	74 11	18 10	0 65	2 36	0 72	10.68	14 19	24 98	15.52	10.53	10.50	20 74	0 00	0 00	zero value	-8 41
21 00	8 44	267 54	0 00	0 00	689 78	74 14	18 08	0 64	2 37	0 73	10.75	14 17	25 18	15.61	10.56	10.53	20 89	0 00	0 00	zero drift %	-0 41
22 00	7 84	266 69	0 00	0 00	687 25	73 76	18 06	0 65	2 37	0 73	10.71	14 22	24 80	15.41	10.57	10.58	20 73	0 00	0 00	span value	80 59
23 00	7 90	267 54	0 00	0 00	686 36	73 31	17 63	0 65	2 37	0 72	10.70	14 23	25 01	15.39	10.54	10.56	20 71	0 00	0 00	span drift %	0 57
0 00	7 07	266 52	0 00	0 00	685 98	72 91	17 62	0 65	2 34	0 72	10.55	14 28	24 56	15.20	10.48	10.53	20 72	0 00	0 00		
1 00	7 34	264 64	0 00	0 00	683 59	72 99	17 66	0 66	2 32	0 72	10.52	14 20	24 81	15.21	10.48	10.49	20 72	0 00	0 00	Stack O2 Analyzer	
2 00	7 97	265 18	0 00	0 00	685 84	73 72	18 25	0 59	2 33	0 72	12.80	14 25	24 98	15.23	10.18	10.78	20 77	0 00	0 00	span value	20 94
3 00	8 38	266 35	0 00	0 00	689 60	73 83	9 48	0 30	2 34	0 72	34 90	14 21	24 50	15.16	22 70	10.78	20 77	0 00	0 00	span drift %	0 10
4 00	9 59	266 01	0 00	0 00	690 45	73 47	22 83	0 82	2 30	0 72	8.14	14 18	24 35	15.03	8.04	10.84	20 78	0 00	0 00	zero value	-0 02
5 00	10 15	265 15	0 00	0 00	693 41	73 39	20 19	0 73	2 31	0 71	8.00	14 19	25 04	15.50	8.06	11.00	20 75	0 00	0 00	zero drift %	-8 02
6 00	9 95	266 35	0 00	0 00	691 18	73 84	17 59	0 64	2 32	0 72	10.75	14 20	24 99	15.41	10.54	8.21	20 75	0 00	0 00		
7 00	9 32	264 96	0 00	0 00	691 89	74 61	17 98	0 65	2 31	0 72	10.73	14 24	25 08	15.59	10.59	9.73	20 75	0 00	0 00	Nebraska Gas	0

Comments NOx was high on 8/12/19 from 1 55 AM to 2 45 AM because ammonia dilution fan shut off a total of 0 83 hour VCAPCD was notified on 8/12/19 2 50 AM by Howard G.

PRINT TIME: 8/12/2019 1:34 PM

NOTE; This document is valid for only ONE week after print time


RS_NOX PPM
6 08269
931FIC1173_MV
21 36
921-2015 WQ
2 32
921-2015 FQQ
3 20
931AIC1111C CO
28 6
8/12/2019 12 46 01 AM
8/12/2019 1 55 04 43695 AM
8/12/2019 2 45 57 00841 AM
8/12/2019 4 30 09 AM


AS117 - Spare
2019-08-12 11:31
811-2369
DRY MOTR DUCT HEATER MainCErr 11:29:58
RSMT 4-20MA ROSEMOUNT CEMS VALUES
33MF
Time Scope: 8 hours
150
100
25.0
113
75
18.8
75
50
12.5
38
25
6.3
0
0
0.0
100
75
50
25
0
23:00
2019-08-11
01:00
2019-08-12
03:00
05:00
ON Name Description Attribute Treatment Ruler Time Ruler Value Current Value Unit Filter Time Offset Form
931AIC1111A.NOX B&W SCR INLET NOX MV Mom 01:54 73.89 74.30 PPM
931AIC1111C.CO B&W BLR STACK RAW CO MV Mom 01:54 27.91 28.59 PPM
931AIC1111B.O2 B&W BLR RAW O2% MV Mean 01:54 14.24 14.25 %
931AIC1111D.NOX B&W BLR STACK NOX MV Mean 01:54 11.77 11.97 PPM
931-AIC-1111.INCAL RSMT CEMS IN CAL MV Mom --- 0
931-aic-1111.trb RSMT CEMS TROUBLE MV Mom --- 1
Current Time
Save Trend...
Hide Table
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...
ABB

OFFICIAL DAILY COGENERATION LOG

NEW-INDY CONTAINERBOARD
DYNARD MILL

DAY SHIFT OPERATOR — NIGHT SHIFT OPERATOR

NAME: W DAVIS — NAME: MH

DATE: 8-11-19

STEAM & WATER READINGS

	PERMEATE H_2O	CONCENTRATE H_2O_2	LP	HP
CURRENT	08197605	90110485	210370	1962
PREVIOUS	07057864	90061336	205340	1896

NEW DEMIN TRAILER YES ☐ NO ☑ — TANK 1 ____ % — TANK 2 ____ %

AMMONIA DELIVERY YES ☐ NO ☑ — % FULL: 56-54

CHILLER HOURS:

PACESETTER (ON) / OFF — ALARM: RED ☑ YELLOW ☐ GREEN ☐

TURBINE

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
FMV	%	47.9	51.2	50.7	51.4	52.6	52.3	51.75	52.35	50.25	50.94	49.44	50.56
Inlet Temp	°F	63	64	65	66	66	64	63	63	61	61	65	66
Humidity	%	63.6	61.6	53.4	48.5	40.2	46.9	54.3	56.1	63.1	65.1	67.1	66.1
Vibration (Max)	MILS	.96	.93	1101	.94	.92	.98	.91	.93	.87	.93	.92	.99
Steam Injection	#/SEC	2.25	2.31	2.39	2.38	2.38	2.38	2.38	2.38	2.30	2.31	2.31	2.31
Turbine L.O. Level	%	100	99	99	97	95	95	95	96	95	95	95	96
T54	°F	1469	1479	1443	1489	1493	1484	1476	1482	1474	1473	1479	1486

BATTERIES 126.6 V — HP RECOUPE FAL — AIR INLET DIFF 2.3 IN/H10 — HP RECOUPE FAR — L.O. DIFFERENTIAL 6 PSI — HP RECOUPE AFT

BATTERIES 126.1 V — HP RECOUPE FAL — AIR INLET DIFF 2.21 IN/H10 — HP RECOUPE FAR — L.O. DIFFERENTIAL 5 PSI — HP RECOUPE AFT

ONLINE TURBINE WATER WASH YES ☐ NO ☑ — CRANK WASH YES ☐ NO ☑ > ____ GALLONS — CONDUCTIVITY MHOS

BOILER FEED WATER PUMP OPERATION — NO.1 PUMP YES ☑ NO ☐ — NO.2 PUMP YES ☐ NO ☐

GENERATOR

		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	°F	154	155	156	157	158	157	155	154	154	155	155	156
L.O. Supply	°F	124	124	126	127	127	127	124	124	124	124	124	124
Gen. Vibration (Max)	IPS	.34	.33	.32	.32	.31	.31	.34	.34	.34	.34	.33	.34
Tie Line	MW	11.02	10.98	10.95	10.98	11.02	10.86	11.00	11.016	11.06	11.06	11.05	11.00
Generator Voltage	KV							12.80	12.79	12.79	12.80	12.81	12.80

GEN. 115 AMPS — GEN.VARS 5.19 MEGA VARS — FIELD 198 AMPS — FIELD VOLTS 177 V — COOLING TWR INLET 94 F — COOLING TWR OUTLET 98 F

GEN. 1170 AMPS — GEN.VARS 5.964 MEGA VARS — FIELD 200 AMPS — FIELD VOLTS 180 — COOLING TWR INLET 93 F — COOLING TWR OUTLET 89 F

COGEN BOILER

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
450 Header Temp	°F	710	710	709	710	710	710	710	710	711	710	711	710
HP Drum Level	IN	1.3	1	1	0.7	0.9	1.1	.8	1.9	1.2	1.1	1.0	.8
LP Drum Level	IN	0.7	0.3	0.4	0.4	0.4	0.5	.5	.3	.9	.8	.4	.5
HP Drum Pressure	PSI	468	475	475	475	475	475	475	476	475	475	476	476
LP Drum Pressure	PSI	153	153	153	153	155	155	155	153	153	153	153	155
CO	PPM	28.1	25.8	23.9	22.9	23.5	23.6	23.5	25.8	24.0	25.9	23.6	25.2
NOx	PPM	10.4	10.3	10.5	10.4	10.6	10.5	10.5	10.5	10.9	10.1	10.1	10.4
O_2	%	14.76	14.57	14.72	14.23	14.24	14.21	14.29	14.21	14.36	14.27	14.29	14.24
Hot Well Level	%	154	138	157	157	154	159	153	148	153	158	136	161

		6:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	2:00	4:00	6:00
450 Header Temp	°F	710	710	710	711	710	709	710	710	710	710	710	710
HP Drum Level	IN	1.4	1.1	1.1	0.9	0.7	1.4	1.2	1.0	1.0	1.7	1.2	.5
LP Drum Level	IN	0.3	0.4	0.4	0.4	0.4	0.5	.6	.4	.4	.7	.4	.4
HP Drum Pressure	PSI	475	475	475	475	475	468	468	475	475	475	475	475
LP Drum Pressure	PSI	153	153	153	153	155	151	153	153	153	153	155	155
CO	PPM	25.3	25.5	23.3	23.4	22.6	23.4	25.3	25.2	23.7	24.3	24.5	25.7
NOx	PPM	10.7	11.1	10.3	10.6	10.3	10.7	10.4	10.9	10.8	56.4	6.5	10.9
O_2	%	14.66	14.59	14.30	14.23	14.10	14.19	14.19	14.19	14.18	14.23	14.13	14.23
Hot Well Level	%	141	152	155	157	166	157	161	142	148	151	145	136

AUTO / ON / OFF

1150 SET POINT 451 — 1103 B SET POINT 446 — DUCT BURNER — S/P 442

1150 SET POINT 451 — 1103 B SET POINT 446 — DUCT BURNER — S.P. 442

COMPRESSORS

NAME: MH

		7:00	9.00	11:00	13:00	15:00	17:00	19:00	21.00	23:00	1:00	3.00	5:00
Filter Separator	PSI	229	225	225	225	225	227	225	225	229	231	231	227
Gas Receiver	PSI	410	410	411	410	405	410	409	411	410	410	410	409

Crankcase Oil Level % 160 — Frame Oil Pressure (25-50) PSI 25 — Temp. cooling °F T1 — T2 63.1

Crankcase Oil Level % 160 — Frame Oil Pressure (25-50) PSI 25.17 — Temp. cooling °F T1 78°F — T2 62.9

GAS & ELECTRIC READINGS

	SCG LP	TURBINE	MAXON	DUCT BURNER	MEGAWATTS
CURRENT	7721480	14355060	24357720	187429	55681
PREVIOUS	7711220	10695900	24357720	190175	55086

BOILER TEST RESULTS

	DAY SHIFT	NIGHT SHIFT
BOILER FEEDWATER		
pH 8.75- 9.5	8.3	8.11
Conductivity <5mmhos	10.5	9.86
Silica <20 ppb		
R.O.		
Feed TDS<1000 ppm		203.5
Permeate TDS<10 ppm		6.03
pH (Feed 7.5)	7.8	7.44
CONDENSATE		
HP-pH 8.5 -9.5		7.95
Conductivity <20mmhos		2.48
LP-pH 8.5-9.5		NO FLOW
Conductivity <20mmhos		
HP		
pH 9.5 - 10.5	9.3	10.98
Conductivity 75-150	220	207.6
Phosphate 5-15 ppm		
Silica <5 ppm		
Iron ppm		
LP		
pH 9.5 - 10.5	9.8	9.83
Conductivity 75 - 150	108	98.07
Phosphate 5-15 ppm		
Silica <5 ppm		
Iron ppm		
MIXED BED		
pH 6.0 - 7.5	7.6	8.10
Conductivity <1mmhos	.16	.35
Silica <10 ppb		
HP Steam Test		
Silica <20 ppb	PH 7.9	PH 7.53
SOFTENER		
Hardness <1.0 ppm		
Running (1 or 2)	2	1
STEAM TEST		
Silica <20 ppb		
PV NO.2		
HP BLOW DOWN	DAY SHIFT:	
TIME:	11:12	
	NORTH TANK	SOUTH TANK
SALT	9 FEET	4 FEET

NOTES: # 01:54 DILUTION FAN SHUTOFF AMMONIA VALVE SHUT CAUSING NOx HI ALARM.

* SALVAGE WATER PUMP 931-7237 KICKED OUT @ 0216

* CHILLER TRIPPED @ 0217

ACAD 000-3011 - REV.1.1

New-Indy Oxnard Environmental Incident Report

Shaded section to be completed by the EMR

Name of Incident: Excess NOx Emission	Incident Date: 08/12/2019
Exact Location Incident Cogen area	

Reported By: Howard Gastelum	Estimated Start and Stop Times of Incident: 8/12/19 1:55 AM – 2:45 AM	Possible Cause: Electrical control fluctuations

Incident Type:

- ☐ Spill Internal
- ☐ Spill External
- X Air Emission
- ☐ Other_____
- ☐ Improper Waste Disposal
- ☐ Near miss or below spill release guidelines

Released To

- ☐ Storm Water System
- ☐ Process Sewer
- ☐ Ground (External)
- ☐ Near Miss
- ☐ Other_____
- ☐ Secondary Containment
- X Air
- ☐ Ground (Inside Mill Property)

Detailed Description of Event

On 8/12/19, at 1:55 AM, the plant experienced electrical control fluctuations. Equipment shut off due to these fluctuations including the ammonia dilution fan for the Cogen SCR. Control was re-established at 2:45 AM and VCAPCD breakdown hotline was notified of potential excess NOx emissions.

(if required use additional paper and attach)

Estimated Amount Released	pH	CONSISTENCY (%)	Estimated Monetary Loss
☐ _____ Gallons ☐ _____ Pounds X Other: Zero_____			

List Any External Emergency Clean Up Personnel Contacted	List Any External Agencies Contacted *(Agency, person and time of call.)*
N/A	VCAPCD at 2:50 AM
List Hueneme Personnel Contacted *(Foreman, Mill Manager, etc.)*	Any Acute or Chronic Health Risks *(refer to MSDS)*
Environmental Engineer, E&I Supervisor	No

Describe Any Emergency Response Actions

Re-established control

Suggestions to Prevent Reoccurrence	Estimated Completion Date
1. Investigation in progress to determine cause of electrical control fluctuations	1. 9/13/19
2.	2.
3.	3.
4.	4.

Root Cause after investigation: Cause of electrical control fluctuations is under investigation.	Severity Level *(level 1 and 2 must be tracked through SHIMS)* ☐ 1 ☐ 2 ☐ 3 ☐ 4
Investigated By: E&I	Investigated Date 8/12/19 - ongoing

Follow Up	By When	Completion Date	By Whom

Issued by	Reviewed by	Approved by
Department Manager 8/12/2019	Technical Superintendent 8/12/2019	Mill Manager 8/12/2019

Print Time: 8/12/2019 9:37:49 AM

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

NEW INDY
CONTAINERBOARD

November 14, 2019

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

Attention: Ed Swede
Subject: Continuous Emission Monitoring System (CEMS) - Invalid data

Dear Mr. Swede:

New-Indy Oxnard is submitting this follow-up report for the call made to VCAPCD Hotline by the undersigned on November 13, 2019 at 9:35 AM.

On November 13 at 9:00 AM, during the daily emission review, it was found that the cogen operations had invalid emission data during CEMS preventive maintenance performed on November 12. During maintenance, E&I Technicians checked the lines and replaced two sets of tubing and the ammonia scrubber. Initial calibration was completed right after the maintenance but it did not pass due to poor air gas flow. After troubleshooting, the technician found that the installed scrubber was not working properly. Installing a different ammonia scrubber resolved the gas flow issue. The unit was recalibrated and successful calibrations were completed by 5:28 PM. There were no valid emission data on November 12 from 1:26 PM to 5:28 PM, a total of 4.03 hours.

The Daily Emission Sheets, PI trends, ABB trends, Cogen Daily Log, 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) 271-7271.

Sincerely,

Zhen Han
Process 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:

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: [signature]	[signature] 11/14/2019
Title: Mill Manager	

End Time 11/13/2019 7:00 Start Time 11/12/2019 7:00

DAILY ENVIRONMENTAL REPORT

Time	Duct burner gas flow MSCFH	Turbine gas flow MSCFH	Maxon Burner gas flow MMBTU/hr	Maxon Burner gas flow SCFH	SCR Temperature °F	SCR inlet NOx ppm	Ammonia Usage lb/h	NH3 NOx mole ratio	Injection steam rate lb/s	Steam to fuel ratio lb/lb	NOx lb/h	Stack O2 %	Stack CO 15% O2 ppm	CO lb/h	Stack NOx 15% O2 ppm	3h Running Average NOx	Nebraska O2 %	Nebraska NOx ppm	Nebraska Corrected NOx (ppm) (3% O2)
8:00	11.19	250.48	3.28	3614.35	690.88	72.07	18.71	0.80	2.13	0.69	9.07	14.63	27.51	14.59	10.37	10.48	20.31	0.00	0.00
9:00	15.48	248.45	3.28	3606.71	695.51	70.95	18.37	0.80	2.09	0.69	9.17	14.65	28.06	14.56	10.49	10.45	20.31	0.00	0.00
10:00	14.98	250.61	3.30	3630.38	698.98	73.16	19.44	0.81	2.12	0.69	9.39	14.60	27.15	14.68	10.86	10.47	20.29	0.00	0.00
11:00	12.30	251.45	3.31	3645.09	696.06	74.10	19.51	0.81	2.12	0.69	9.58	14.59	25.80	14.04	10.82	10.42	20.28	0.00	0.00
12:00	8.84	253.37	3.31	3639.40	693.10	75.17	19.95	0.82	2.14	0.69	9.18	14.62	24.81	12.96	10.44	10.61	20.28	0.00	0.00
13:00	6.81	255.59	3.30	3631.43	691.56	76.39	20.42	0.83	2.16	0.69	9.26	14.62	22.38	11.99	10.56	10.61	20.28	0.00	0.00
14:00	7.03	263.77	3.29	3619.69	695.08	41.69	21.88	23.51	2.29	0.72	5.29	14.62	7.15	3.78	[illegible]	8.84	20.24	0.00	0.00
15:00	6.82	264.64	3.28	3611.97	696.01	54.60	12.60	13.75	2.32	0.72	0.79	14.74	11.98	0.54	[illegible]	5.64	20.24	0.00	0.00
16:00	0.80	265.32	3.28	3609.66	696.07	55.71	1.18	0.28	2.34	0.72	1.81	13.81	22.06	11.77	1.74	2.74	20.24	0.00	0.00
17:00	8.04	263.02	3.31	3638.15	696.50	55.64	16.90	3.91	2.29	0.71	10.13	13.72	20.64	9.66	11.53	4.74	20.24	0.00	0.00
18:00	9.33	261.57	3.31	3637.78	697.78	70.50	20.79	1.85	2.28	0.71	10.12	14.05	21.88	12.20	11.14	8.14	20.20	0.00	0.00
19:00	8.60	261.23	3.31	3642.52	698.97	76.82	20.87	0.81	2.28	0.71	9.54	14.39	22.98	12.49	10.59	11.09	20.22	0.00	0.00
20:00	11.07	261.05	3.31	3640.82	699.00	76.66	20.46	0.79	2.23	0.71	9.50	14.32	22.96	12.81	10.46	10.73	20.21	0.00	0.00
21:00	13.00	261.57	3.30	3619.64	706.48	76.92	20.51	0.79	2.26	0.71	9.74	14.28	23.14	12.90	10.60	10.95	20.20	0.00	0.00
22:00	10.42	261.23	3.30	3631.76	701.14	76.92	20.57	0.80	2.27	0.71	9.51	14.32	22.58	12.41	10.47	10.91	20.21	0.00	0.00
23:00	8.40	261.57	3.30	3627.59	698.87	76.09	20.45	0.80	2.28	0.71	9.52	14.36	22.91	12.66	10.55	10.54	20.21	0.00	0.00
0:00	7.78	263.35	3.28	3603.06	695.41	76.36	20.37	0.80	2.31	0.72	9.50	14.36	22.65	12.46	10.49	10.51	20.21	0.00	0.00
1:00	10.21	264.13	3.29	3620.13	697.97	75.77	20.06	0.78	2.32	0.72	9.60	14.30	23.15	12.87	10.46	10.50	20.22	0.00	0.00
2:00	12.84	263.62	3.28	3616.01	701.68	74.21	19.70	0.77	2.30	0.72	9.80	14.29	23.68	13.50	10.41	10.45	20.28	0.00	0.00
3:00	12.33	263.37	3.30	3629.24	702.15	75.03	19.70	0.77	2.26	0.71	9.74	14.30	23.98	13.42	10.58	10.48	20.20	0.00	0.00
4:00	9.39	261.06	3.29	3615.12	695.32	74.34	19.34	0.78	2.28	0.71	9.52	14.37	24.36	13.41	10.54	10.50	20.25	0.00	0.00
5:00	7.63	261.40	3.28	3612.06	693.06	76.65	20.36	0.80	2.27	0.71	9.47	14.41	22.85	12.63	10.53	10.54	20.31	0.00	0.00
6:00	7.51	260.88	1.88	2086.47	690.77	76.18	20.24	0.81	2.26	0.71	9.42	14.42	22.70	12.35	10.50	10.52	20.30	0.00	0.00
7:00	7.39	260.88	2.15	2368.20	691.51	75.41	20.02	0.80	2.26	0.71	9.37	14.48	23.10	12.52	10.44	10.49	20.34	0.00	0.00

Daily Av Cogen NOx lb/h	Daily Av Cog+Neb NOx lb/h
8.65	8.65

Daily Av Cogen CO lb/h	Daily Av Cog+Neb CO lb/h
12.24	12.24

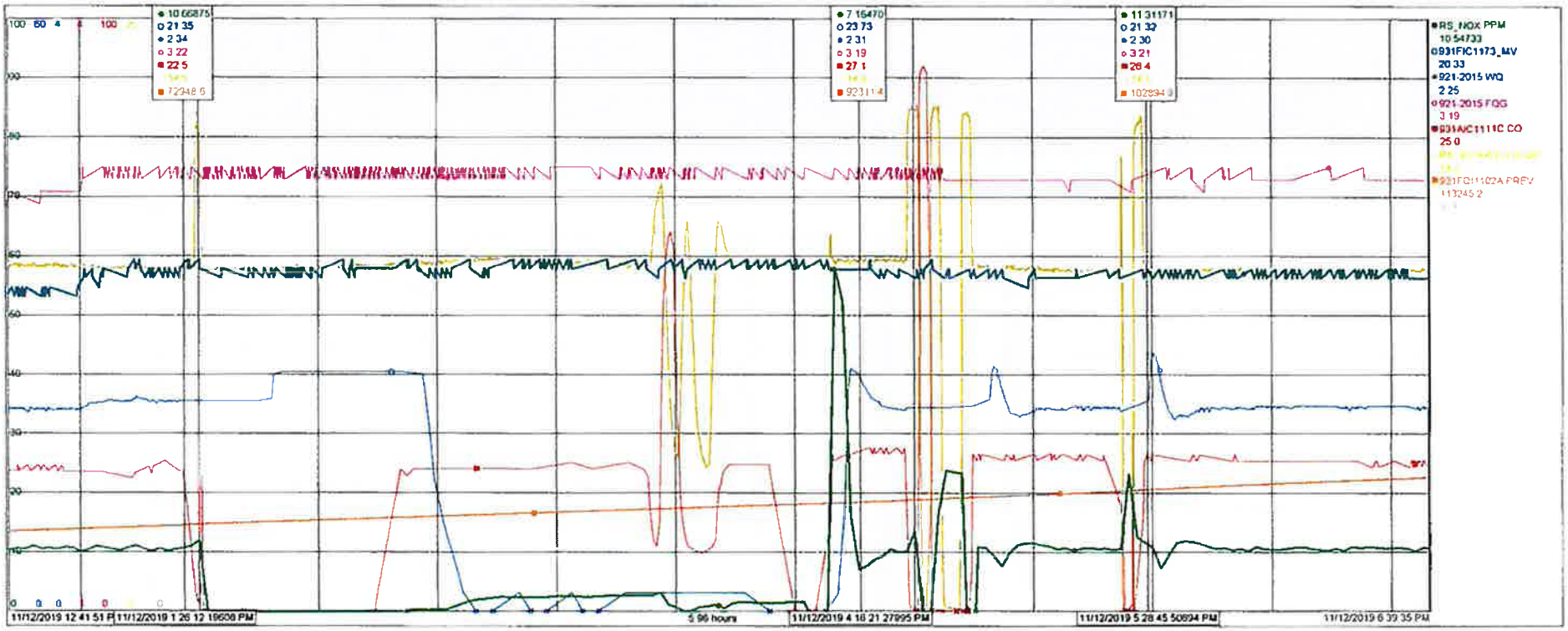
Stack NOx analyzer	
zero value	0.09
zero drift %	0.09
span value	82.97
span drift %	0.50

Stack CO Analyzer	
zero value	-0.58
zero drift %	-0.58
span value	91.59
span drift %	0.48

Stack O2 Analyzer	
span value	21.02
span drift %	0.46
zero value	-0.05
zero drift %	-0.05
Nebraska Gas	0

Comments. CEMS was down for maintenance on 11/12/19 from 1.26 PM to 5.28 PM a total of 4.03 hours

PRINT TIME: 11/1?/?019 9:02 AM
NOTE: This document is valid f ONE week after print time


RS_NOX PPM
931FIC1173_MV
921-2015 WQ
921-2015 FQG
931AIC1111C CO
11/12/2019 12:41:51 PM
11/12/2019 1:26:12.19608 PM
5.96 hours
11/12/2019 4:18:21.27895 PM
11/12/2019 5:28:45.50894 PM
11/12/2019 6:39:35 PM


nd 19
2019-11-13 11:56
26M
781LIC178
DAF SLUDGE LEVEL
MV > H1
11:56:16
RSMT_4-20MA_ROSEMOUNT CEMS VALUES
Time Scope: 8 hours
150
100
25.0
113
75
18.8
75
50
12.5
38
25
6.3
0
0
0.0
100
75
50
25
0
12:00
2019-11-12
14:00
16:00
18:00
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
18:34 2019-11-12
76.92
78.28
PPM
931AIC1111C.CO
B&W BLR STACK RAW CO
MV
Mom
18:34 2019-11-12
25.47
24.31
PPM
931AIC1111B.O2
B&W BLR RAW O2%
MV
Mean
18:34 2019-11-12
14.39
14.59
%
931AIC1111D.NOX
B&W BLR STACK NOX
MV
Mean
18:34 2019-11-12
11.57
11.44
PPM
931-AIC-1111.INCAL
RSMT CEMS IN CAL
MV
Mom

0
931-aic-1111.trb
RSMT CEMS TROUBLE
MV
Mom

1
<
>
<<
>>
Current Time
Save Trend...
Hide Table
D1 30 minutes
D2 1 hour
D3
D4 1 day
D5 10 days
D6 Positioning...
D7 Trace Control...
D8 Analyze...
D9 Trace Config...
D10 Extended Config...
ABB

OFFICIAL DAILY COGENERATION LOG

NEW-INDY CONTAINERBOARD
OXNARD MILL

NIGHT SHIFT OPERATOR: [illegible]
DAY SHIFT OPERATOR: W. Davis / Carlos N.
NAME:
NAME:
DATE: 11/12/2019

STEAM & WATER READINGS

	PERMEATE H_2O	CONCENTRATE H_2O_2	LP	HP
CURRENT	1084067	9449371	219315	1960
PREVIOUS	1072953	9444546	218634	1957

NEW DEMIN TRAILER: YES ☑ NO ☐ — TANK 1: % — TANK 2: %

AMMONIA DELIVERY: YES ☑ NO ☐ — % FULL: 44/46

CHILLER HOURS: 104,490:10:48

PACESETTER (ON) / OFF — ALARM: RED ☑ YELLOW ☐ GREEN ☐

TURBINE

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
FMV	%	44.06	45.00	45.19	46.81	50.19	48.62	47.81	49.81	45.38	49.69	48.94	47.88
Inlet Temp	°F	62	63	67	68	68	67	64	67	66	64	62	62
Humidity	%	8	9	8	8	8	8	0	0	5	0	0	0
Vibration (Max)	MILS	0.75	.66	0.75	0.70	0.69	0.68	.78	.66	.66	.69	.64	.66
Steam Injection	#/SEC	2.06	2.06	2.12	2.19	2.31	2.25	2.25	2.25	2.25	2.31	2.25	2.25
Turbine L.O. Level	%	98	98	98	98	97	95	95	95	95	95	95	95
T54	°F	1432	1438	1458	1468	1490	1496	1472	1491	1477	1476	1465	1465

BATTERIES 127.2 V — HP RECOUPE FAL — AIR INLET DIFF 1.9 IN/H2O — HP RECOUPE FAR — L.O. DIFFERENTIAL 6 PSI — HP RECOUPE AFT

BATTERIES V — HP RECOUPE FAL — AIR INLET DIFF IN/H2O — HP RECOUPE FAR — L.O. DIFFERENTIAL PSI — HP RECOUPE AFT

ONLINE TURBINE WATER WASH YES ☐ NO ☐ — CRANK WASH YES ☐ NO ☐ > GALLONS — CONDUCTIVITY MHOS

BOILER FEED WATER PUMP OPERATION — NO.1 PUMP YES ☐ NO ☐ — NO.2 PUMP YES ☐ NO ☐

GENERATOR

		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	°F	153	153	153	153	153	154	153	153	152	152	152	152
L.O. Supply	°F	120	120	122	122	122	122	122	122	121	121	121	124 V
Gen. Vibration (Max)	IPS	0.32	.30	0.31	0.32	0.32	0.33	.33	.33	.33	.33	.31	.32 F
Tie Line	MW	10.69	10.63	10.98	10.94	10.05	11.02	10.85	10.94	11.05	11.06	10.98	10.91
Generator Voltage	KV	12.81	12.81	12.81	12.81	12.81	12.80	12.80	12.80	12.81	12.80	12.81	12.81

GEN. 1050 AMPS — GEN.VARS 4.594 MEGA VARS — FIELD 190 AMPS — FIELD VOLTS 167 V — COOLING TWR INLET 82 F — COOLING TWR OUTLET 77 F

GEN. AMPS — GEN.VARS MEGA VARS — FIELD AMPS — FIELD VOLTS — COOLING TWR INLET F — COOLING TWR OUTLET F

COGEN BOILER

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
450 Header Temp	°F	700	702	702	700	701	701	700	700	700	700	701	701
HP Drum Level	IN	2.2	1.0	1.0	1.1	0.9	0.9	1.1	0.8	1.1	1.2	1.0	0.9
LP Drum Level	IN	0.7	0.4	0.4	0.4	0.6	0.5	0.5	0.4	0.5	0.5	0.4	0.5
HP Drum Pressure	PSI	461	475	475	468	475	468	475	475	475	475	475	475
LP Drum Pressure	PSI	138	160	152	152	152	152	152	152	152	152	152	152
CO	PPM	28.1	27.9	25.3	22.1	C	24.1	23.2	24.1	22.2	23.7	24.4	22.9
NOx	PPM	10.7	10.1	10.7	10.7	A	10.6	10.4	10.8	10.7	10.5	10.5	10.5
O_2	%	14.74	14.70	14.53	14.67	L	14.37	14.30	N.31	14.37	14.34	14.27	14.44
Hot Well Level	%	145	149	145	152	152	138	161	156	145	159	139	150

		8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	2:00	4:00	6:00
450 Header Temp	°F	700	701	700	700	700	701	701	700	700	700	701	698
HP Drum Level	IN	0.7	0.8	0.9	0.6	0.9	0.8	0.3	1.2	1.3	0.8	0.7	0.1
LP Drum Level	IN	0.1	0.3	0.4	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.2
HP Drum Pressure	PSI	461	475	468	475	475	476	475	468	468	475	475	468
LP Drum Pressure	PSI	144	152	168	152	152	152	152	152	152	152	152	151
CO	PPM	28.3	26.9	22.5	C	28.1	28.0	22.1	22.5	22.2	24.3	23.4	22.7
NOx	PPM	10.4	10.8	10.7	A	1.6	11.0	10.8	10.2	10.7	10.6	10.7	10.4
O_2	%	14.62	14.63	14.74	L	14.65	14.27	14.11	14.31	14.22	14.29	14.34	14.30
Hot Well Level	%	144	138	136	151	161	169	161	136	159	157	134	139

AUTO / ON / OFF

1150 SET POINT 461 — 1103 B SET POINT 446 — DUCT BURNER — S/P 442

1150 SET POINT — 1103 B SET POINT — DUCT BURNER — S.P

COMPRESSORS

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
Filter Separator	PSI	235	235	235	235	235	283	233	233	235	235	235	235
Gas Receiver	PSI	411	409	410	409	410	410	409	409	410	410	411	410

Crankcase Oil Level % 65% — Frame Oil Pressure (25-50) PSI 25.09 — Temp. cooling °F T1 69 T2 62.2

Crankcase Oil Level % — Frame Oil Pressure (25-50) PSI — Temp. cooling °F T1 T2

GAS & ELECTRIC READINGS

	SCG LP	TURBINE	MAXON	DUCT BURNER	MEGAWATI
CURRENT	00117290	9937600	2815534	235427	00631
PREVIOUS	00110450	9589650	2807190	2906.50	00054

BOILER TEST RESULTS

	DAY SHIFT	NIGHT SHIFT
BOILER FEEDWATER		
pH 8.75 – 9.5	7.91	8.49
Conductivity <5mmhos	1.06	1.47
Silica <20 ppb		
R.O.		
Feed TDS<1000 ppm	981.9	
Permeate TDS<10 ppm	10.29	
pH (Feed 7.5)	7.75	7.16
CONDENSATE		
HP-pH 8.5 -9.5	8.49	8.76
Conductivity <20mmhos	1.90	2.02
LP-pH 8.5-9.5	8.45	8.61
Conductivity <20mmhos	4.01	4.63
HP		
pH 9.5 – 10.5	9.84	8.88
Conductivity 75-150	68.88	85.62
Phosphate 5-15 ppm		
Silica <5 ppm		
Iron ppm		
LP	No Flow	
pH 9.5 – 10.5		
Conductivity 75 – 150		
Phosphate 5-15 ppm		
Silica <5 ppm		
Iron ppm		
MIXED BED		
pH 6.0 – 7.5	7.95	7.71
Conductivity <1mmhos	.55	.41
Silica <10 ppb		
HP Steam Test pH	8.32	7.97
Silica <20 ppb		
SOFTENER		
Hardness <1.0 ppm		
Running (1 or 2)		
STEAM TEST		
Silica <20 ppb		
PV NO.2		
HP BLOW DOWN	DAY SHIFT: 08:36	
TIME:		
	NORTH TANK	SOUTH TANK
SALT	1 FEET	7 FEET

NOTES: Regen started @ 11:39

ACAD/ 000-3011 - REV.2.4

New-Indy Oxnard Environmental Incident Report

Shaded section to be completed by the EMR

Name of Incident: Invalid CEMS data during Maintenance		Incident Date 11/12/19
Exact Location Incident: Cogen		
Reported By: Gary Uribe	Estimated Start and Stop Times of Incident: 11/12/19 from 1:26 PM to 4:16 PM	Possible Cause: Maintenance

Incident Type:	Released To
☐ Spill Internal	☐ Storm Water System
☐ Spill External	☐ Process Sewer
X Air Emission	☐ Ground (External)
☐ Other_____	☐ Near Miss
☐ Improper Waste Disposal	☐ Other_____
☐ Near miss or below spill release guidelines	☐ Secondary Containment
	X Air
	☐ Ground (Inside Mill Property)

Detailed Description of Event

Performed PM on the analyzer unit. Notified environmental in the early morning. Also notified COGEN to put emissions in manual before starting PM. Took down unit at 1:26 PM. Checked lines for moisture and replaced 2 sets of tubing and an ammonia scrubber. Put unit back into E1 at 2:22pm. Noticed after starting back up that the NOx reading was low but slowly increasing. Did a manual calibration at 3:20 PM. Calibration did not pass due to poor gas flow. Replaced the ammonia scrubber which resolved the poor sample gas flow issue. Started the unit up at 4:09 PM and performed another calibration at 4:27 PM, but the O2 did not pass. A passing O2 calibration was completed at 5:21 PM and CEMS was back online at 5:28 PM.

(if required use additional paper and attach)

Estimated Amount Released	pH	CONSISTENCY (%)	Estimated Monetary Loss	No. of Emergency Sandbags used	After event, Sandbags Removed/Disposed
☐ _____ Gallons ☐ _____Pounds ☐ Other_____				☐ _____ Bags ☐ N/A	☐ Yes ☐ No

List Any External Emergency Clean Up Personnel Contacted N/A	List Any External Agencies Contacted *(Agency, person and time of call.)* *VCAPCD on 11/13/19 at 9:35 AM*
List Hueneme Personnel Contacted *(Foreman, Mill Manager, etc.)* Robyn Lebrilla	Any Acute or Chronic Health Risks *(refer to MSDS)* N/A

Describe Any Emergency Response Actions

Suggestions to Prevent Reoccurrence	Estimated Completion Date
1. CEMS PM will be scheduled during Cogen shutdowns (if possible)	1. On going
2. Air flow will be checked for each ammonia scrubber prior to install	2. 11/13/19
3.	3.
4.	4.

Root Cause after investigation Defective ammonia scrubber	Severity Level *(level 1 and 2 must be tracked through SHIMS)* ☐ 1 ☐ 2 ☐ 3 ☐ 4
Investigated By: Gary Uribe	Investigated Date: 11/13/19

Follow Up	By When	Completion Date	By Whom

Issued by	Reviewed by	Approved by
Department Manager 11/18/19	Technical Superintendent 11/18/2019	Mill Manager 11/18/2019

Print Time: 11/18/2019 8:18:25 AM

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

NEW INDY
CONTAINERBOARD

December 31, 2019

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

Attention: Ed Swede

Subject: Continuous Emission Monitoring System (CEMS) - Invalid Inlet NOx data

Dear Mr. Swede:

New-Indy Oxnard is submitting this follow-up report for the call made by Victor Kumpera to the VCAPCD Breakdown Center Hotline on December 25, 2019 at 5:30 PM.

On December 25 at 12:07 PM, the mill lost SCE power. The turbine was back online at 3:08 PM, however, the CEMS was observed collecting invalid inlet NOx data. It was found that the inlet NOx Chemiluminescence Detector (CLD) was damaged during the power surge. The CLD was replaced on December 26 at 8:24 AM but the spare CLD did not work properly. On December 27, the mill brought in a contractor to help resolve the issue. The inlet NOx unit was reconfigured and the unit was back online at 4:40 PM. The inlet NOx data were lost from December 25, 3:08 PM to December 27, 4:40 PM, a total of 49.5 hours. There were no excess emissions during this period.

The Daily Emission Sheets, PI trends, ABB 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,

Zhen Han
Process 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:

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: for Rudolph Rokbein	12/31/2019
Title: Technical Manager	

End Time 12/26/2019 7:00 Start Time 12/25/2019 7:00

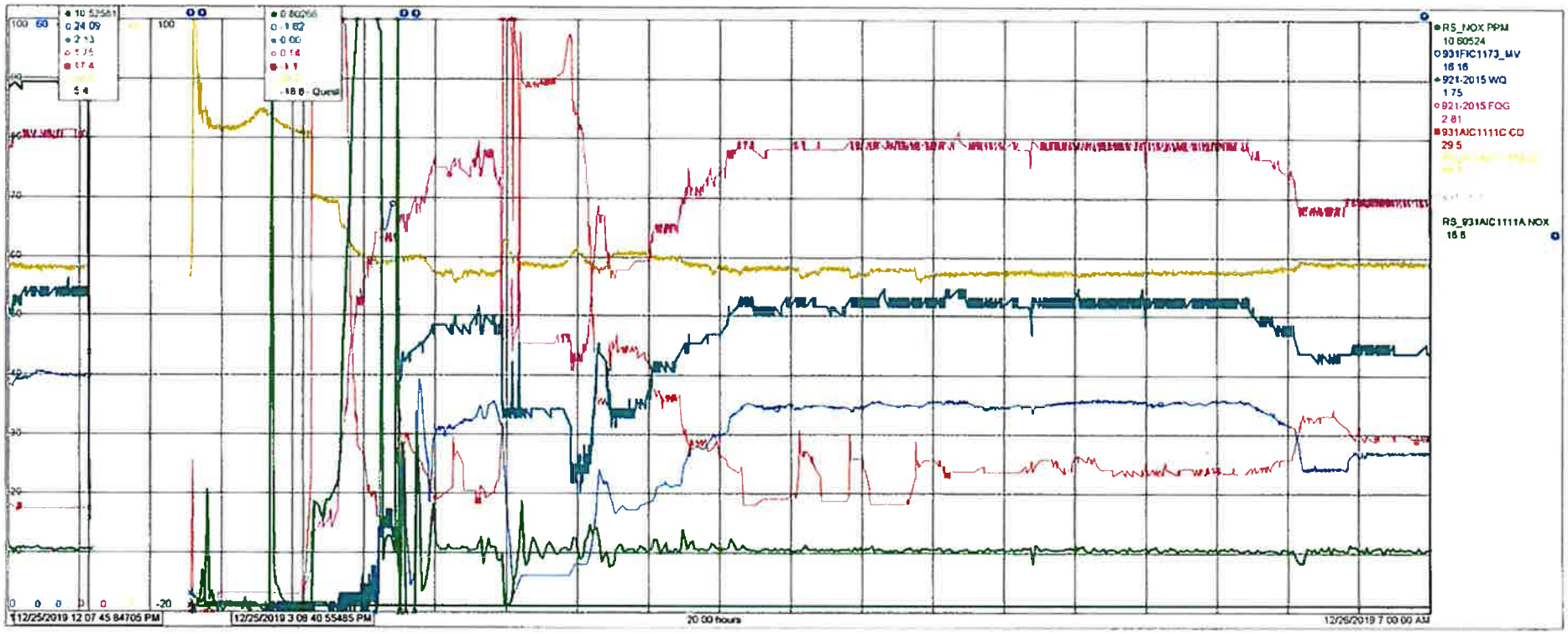
DAILY ENVIRONMENTAL REPORT

Time	Duct burner gas flow MSCFH	Turbine gas flow MSCFH	Mixon Burner gas flow MMBTU/hr	Mixon Burner gas flow SCFH	SCR Temperature °F	SCR Inlet NOx ppm	Ammonia Usage lb/h	NH3 NOx mole ratio	Injection steam rate lb/s	Steam to fuel ratio lb/lb	NOx lb/h	Stack O2 %	Stack CO 15% O2 ppm	CO lb/h	Stack NOx 15% O2 ppm	3h Running Average NOx	Nebraska O2 %	Nebraska NOx ppm	Nebraska Corrected NOx (ppm) @ 3% O2	Daily Av Cogen NOx lb/h	Daily Av Cogen+Neb NOx lb/h
																				9 65	9 65
8 00	0 60	253 34	0 00	0 00	669 59	79 66	21 04	0 72	2 02	0 65	9 80	14 82	21 52	12 56	10 10	10 39	20 78	0 00	0 00		
9 00	0 78	225 46	0 00	0 00	651 60	58 29	15 24	0 71	1 78	0 65	8 98	15 27	30 81	16 10	10 52	10 33	20 75	0 00	0 00	Daily Av Cogen	Daily Av Cogen+Neb
10 00	0 65	224 38	0 00	0 00	650 20	66 49	15 32	0 72	1 80	0 65	9 15	15 28	29 86	15 48	10 63	10 68	20 74	0 00	0 00	CO	CO
11 00	0 08	280 20	0 00	0 00	676 05	86 29	23 30	0 74	2 08	0 66	10 42	14 60	16 83	10 12	10 54	10 63	20 69	0 00	0 00	lb/h	lb/h
12 00	0 05	263 86	0 00	0 00	679 36	67 00	23 86	0 75	2 14	0 67	10 51	14 55	16 23	9 87	10 53	10 63	20 69	0 00	0 00	13 24	13 24
13 00	0 05	265 33	0 00	0 00	680 86	80 64	23 91	0 74	2 12	0 66	10 56	14 55	16 14	9 86	10 54	10 53	20 90	0 10	0 00	Stack NOx analyzer	
14 00	-0 06	9 39	0 00	0 00	497 29	-18 75	-1 82	6 83	0 08	0 78	[illegible]	20 67	6 34	0 94	[illegible]	6 22	-0 78	0 00	0 00	zero value	0 09
15 00	-0 06	10 24	0 00	0 00	497 29	-18 75	-1 82	6 83	0 05	0 42	[illegible]	20 68	1 94	1 89	[illegible]	[illegible]	20 85	0 00	0 00	zero drift %	0 09
16 00	-0 06	66 02	0 00	0 00	500 86	-18 75	-1 82	3 14	0 05	0 12	13 25	17 58	90 53	12 44	[illegible]	[illegible]	20 85	0 00	0 00	span value	83 53
17 00	-0 06	212 84	0 00	0 00	629 34	-18 75	16 50	-2 85	1 11	0 41	27 76	14 86	21 73	10 47	[illegible]	[illegible]	20 83	0 00	0 00	span drift %	1 18
18 00	1 67	239 59	0 00	0 00	671 33	-18 75	19 17	-2 93	1 90	0 65	9 90	14 37	24 77	12 60	10 18	[illegible]	20 82	0 00	0 00		
19 00	26 40	148 38	0 00	0 00	662 55	-18 75	3 95	-0 85	1 32	0 73	8 30	14 61	66 25	35 07	9 78	[illegible]	20 85	0 00	0 00	Stack CO Analyzer	
20 00	12 45	186 11	0 00	0 00	655 45	-18 75	9 85	-1 86	1 36	0 60	8 03	14 98	48 57	21 75	10 74	10 23	20 80	0 00	0 00	zero value	-0 75
21 00	7 32	223 88	0 00	0 00	663 82	-18 75	14 77	-2 51	1 75	0 64	9 51	14 80	31 42	16 47	10 97	10 48	20 81	0 00	0 00	zero drift %	-0 75
22 00	2 20	254 80	0 00	0 00	679 90	-18 75	20 43	-3 03	2 04	0 68	10 37	14 52	19 12	11 28	10 67	10 78	19 43	0 00	0 00	span value	91 28
23 00	4 88	256 27	0 00	0 00	684 82	-18 75	20 89	-3 06	2 07	0 68	10 37	14 41	20 24	12 12	10 52	10 72	20 72	0 00	0 00	span drift %	0 13
0 00	4 27	258 57	0 68	705 45	687 35	-18 75	21 06	-3 05	2 10	0 67	10 46	14 39	18 66	11 41	10 62	10 57	20 69	0 00	0 00		
1 00	7 09	259 44	3 68	3536 76	694 58	-18 75	21 06	-3 02	2 11	0 67	10 55	14 33	21 45	13 19	10 47	10 50	20 81	0 00	0 00	Stack O2 Analyzer	
2 00	7 47	257 81	3 69	3560 64	691 97	-18 75	21 01	-3 03	2 09	0 68	10 57	14 36	21 97	13 38	10 54	10 51	20 83	0 00	0 00	span value	21 19
3 00	7 51	259 27	3 71	3568 91	693 49	-18 75	21 39	-3 07	2 10	0 66	10 62	14 34	22 02	13 56	10 52	10 51	20 79	0 00	0 00	span drift %	1 28
4 00	6 74	257 48	3 70	3565 59	690 66	-18 75	21 20	-3 06	2 09	0 66	10 50	14 39	21 65	13 21	10 50	10 52	20 87	0 00	0 00	zero value	-0 14
5 00	6 72	254 50	1 93	1817 21	688 59	-18 75	20 87	-3 02	2 02	0 65	10 28	14 44	22 01	13 26	10 39	10 47	20 89	0 00	0 00	zero drift %	-0 14
6 00	8 18	226 25	0 00	0 00	671 07	-18 75	15 43	-2 50	1 78	0 64	9 15	14 74	30 11	16 22	10 29	10 39	20 87	0 00	0 00		
7 00	6 76	226 91	0 00	0 00	668 11	-18 75	16 11	-2 62	1 77	0 64	9 27	14 77	28 76	15 49	10 50	10 39	20 85	0 00	0 00	Nebraska Gas	0

Comments: Cogen was down due to power surge on 12/25/19 from 12 07 PM to 3 08 PM, a total of 3 02 hours Inlet NOx was not back online after starting up VCAPCD was notified on 12/25/19 at 5 30 PM

PRINT TIME: 12/26/2019 5:46 PM

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


RS_NOX PPM
10 60524
931FIC1173_MV
16 16
921-2015 WQ
1 75
921-2015 FOG
2 81
931AIC1111C CO
29 5
RS_931AIC1111A NOX
16 6
12/25/2019 12 07 45 84705 PM
12/25/2019 3 08 40 55485 PM
20 00 hours
12/26/2019 7 00 00 AM


781LIC017
NO.2 DECKER LEVEL
MV < L2
15:54:37
2019-12-26 15:56
33MF
RSMT 4-20MA ROSEMOUNT CEMS VALUES
Time Scope: 1 day
150
100
25.0
113
75
18.8
75
50
12.5
38
25
6.3
0
0
0.0
100
75
50
25
0
08:00
2019-12-25
16 00
00 00
2019-12-26
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
PPM
931AIC1111C.CO
B&W BLR STACK RAW CO
MV
Mom
20.81
26.33
PPM
931AIC1111B.O2
B&W BLR RAW O2%
MV
Mean
14.76
14.50
%
931AIC1111D.NOX
B&W BLR STACK NOX
MV
Mean
10.97
10.57
PPM
931-AIC-1111.INCAL
RSMT CEMS IN CAL
MV
Mom
0
931-aic-1111.trb
RSMT CEMS TROUBLE
MV
Mom
1
Current Time
Save Trend...
Hide Table
30 minutes
1 hour
8 hours
10 days
Positioning...
Trace Control...
Analyze...
Trace Config...
Extended Config...

OFFICIAL DAILY COGENERATION LOG

NEW-INDY CONTAINERBOARD
OXNARD MILL

DATE: 12/15/19

DAY SHIFT OPERATOR — NAME: MSV
NIGHT SHIFT OPERATOR — NAME: Wm Davis

STEAM & WATER READINGS / GAS & ELECTRIC READINGS

	PERMEATE H2O	CONCENTRATE H O2	LP	HP	SCG LP	TURBINE	MAXON	DUCT BURNER	MEGAWATTS
CURRENT	1633691	9692265	126462	1116	0543760	5526450	30304240	109374	25771
PREVIOUS	1622941	9687538	214935	1848	0536777	5242?81	30283737	1060584	25325

NEW DEMIN TRAILER YES ☐ NO ☐ TANK 1 % TANK 2 % CHILLER HOURS:

AMMONIA DELIVERY YES ☐ NO ☐ % FULL: PACESETTER ON / OFF ALARM: RED ☐ YELLOW ☐ GREEN ☐

TURBINE

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
FMV	%	48	40	49		T		38.50	49.62	49.50	49.00	49.50	45.06
Inlet Temp	°F	53	55	59				57	57	56	65	56	54
Humidity	%	34	34	25	C	R		38.1	45.0	41.0	38.0	34.3	35.3
Vibration (Max)	MILS	.100	.49	.42	O			.64	.57	.50	.78	.70	.91
Steam Injection	#/SEC	2.1	2	2.1		I		1.75	2.12	2.12	2.06	2.06	1.94
Turbine L.O. Level	%	90	90	90				90	90	90	90	90	90
T54	°F	1458	1400	1483	E	P		1372	1472	1473	1465	1462	1432

BATTERIES V | HP RECOUPE FAL — AIR INLET DIFF IN/H2O | HP RECOUPE FAR — L.O. DIFFERENTIAL PSI | HP RECOUPE AFT

ONLINE TURBINE WATER WASH YES ☐ NO ☐ — CRANK WASH YES ☐ NO ☐ > GALLONS CONDUCTIVITY MHOS — BOILER FEED WATER PUMP OPERATION NO.1 PUMP YES ☐ NO ☐ NO.2 PUMP YES ☐ NO ☐

GENERATOR

		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	°F	150	151	152				160	149	150	151	151	151
L.O. Supply	°F	119	121	122				120	118	119	119	119	119
Gen. Vibration (Max)	IPS	.34	.34	.33				.36	.36	.36	.37	.37	.38
Tie Line	MW	11.3	11.3	11.3				12.97	11.22	11.09	11.03	11.17	10.88
Generator Voltage	KV	13.1	13.1	13.1				12.70	12.73	12.74	12.75	12.80	12.80

GEN. AMPS | GEN.VARS MEGA VARS — FIELD AMPS | FIELD VOLTS V — COOLING TWR INLET °F | COOLING TWR OUTLET °F

COGEN BOILER

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
450 Header Temp	°F	710	700	710	T			712	711	710	710	710	710
HP Drum Level	IN	1.1	.8	.6				4.6	1.2	1.9	1.1	1.0	1.7
LP Drum Level	IN	0	-.6	0				-3.6	-0.2	-0.5	-0.1	-0.1	-0.1
HP Drum Pressure	PSI	469	469	469	R			464 (struck)	462	462	469	469	469
LP Drum Pressure	PSI	148	146	150				[illegible] (struck)	151	147	147	149	149
CO	PPM	19	30.5	16	I			20.4	16.5	17.0	21.3	21.6	23.9
NOx	PPM	10.4	10.9	10.5	P			12.5	10.4	10.6	10.7	10.5	10.6
O2	%	14.9	15.3	14.6				14.91	14.52	14.50	14.33	14.36	14.54
Hot Well Level	%	140	101	154				149	131	160	148	152	146

		8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	2:00	4:00	6:00
450 Header Temp	°F	710	711	T	T	719		710	704	710	711	710	710
HP Drum Level	IN	2.1	-.6			-1.8		0.6	0.7	-0.8	0.9	1.0	1.3
LP Drum Level	IN	-.1	-.4	R	R	2.1		-0.7	0.1	0.0	-0.3	-0.1	-0.4
HP Drum Pressure	PSI	469	469			243		462	469	469	469	469	462
LP Drum Pressure	PSI	145	147		P	83		162	148	148	149	149	147
CO	PPM	30	IN		P	19		31.5	17.9	22.1	22.4	21.4	28.2
NOx	PPM	8.3	CAL	P	E	99.5		10.8	10.3	10.3	10.8	10.8	10.3
O2	%	15.4			D			14.94	14.53	14.31	14.17	14.39	14.75
Hot Well Level	%	160	156					136	154	160	143	146	150

AUTO / ON / OFF — Day: 1150 SET POINT | 1103 B SET POINT — DUCT BURNER | S/P
Night: 1150 SET POINT 45 | 1103 B SET POINT 446 — DUCT BURNER MAN | S.P. 444

COMPRESSORS

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
Filter Separator	PSI	217	217	217	TRIPPED			230	225	225	225	225	225
Gas Receiver	PSI	410	410	410				333	401	400	399	400	401

Day: Crankcase Oil Level % — Frame Oil Pressure (25-50) PSI — Temp. cooling °F T1 T2
Night: Crankcase Oil Level % 70 — Frame Oil Pressure (25-50) PSI 36.12 — Temp. cooling °F T1 T2

BOILER TEST RESULTS

	DAY SHIFT	NIGHT SHIFT
BOILER FEEDWATER		
pH 8.75–9.5	8.75	
Conductivity <5mmhos	6.7	
Silica <20 ppb		
R.O.		
Feed TDS<1000 ppm		
Permeate TDS<10 ppm		
pH (Feed 7.5)	7.6	
CONDENSATE		
HP-pH 8.5–9.5	9	
Conductivity <20mmhos	41	
LP-pH 8.5–9.5	9.3	
Conductivity <20mmhos	7.1	
HP		
pH 9.5 – 10.5	10.35	
Conductivity 75–150	150	
Phosphate 5–15 ppm		
Silica <5 ppm		
Iron ppm		
LP		
pH 9.5 – 10.5		
Conductivity 75 – 150		
Phosphate 5–15 ppm		
Silica <5 ppm		
Iron ppm		
MIXED BED		
pH 6.0 – 7.5	7.8	
Conductivity <1mmhos	.36	
Silica <10 ppb		
HP Steam Test		
Silica <20 ppb		
SOFTENER		
Hardness <1.0 ppm		
Running (1 or 2)		
STEAM TEST		
Silica <20 ppb	87 pH	
PV NO.2		
HP BLOW DOWN	DAY SHIFT:	
TIME:		

	NORTH TANK	SOUTH TANK
SALT	FEET	FEET

NOTES:
TRIP: 12:08
IDLE: 16:15
AUTO: 15:31
ONLINE 15:39
CHANGED DEMIN BOTTLES CALLED ProTech
PERM: 1629325 CONC: 4690377 METER: 6980600

ACKO 000-3011 – REV.1.4

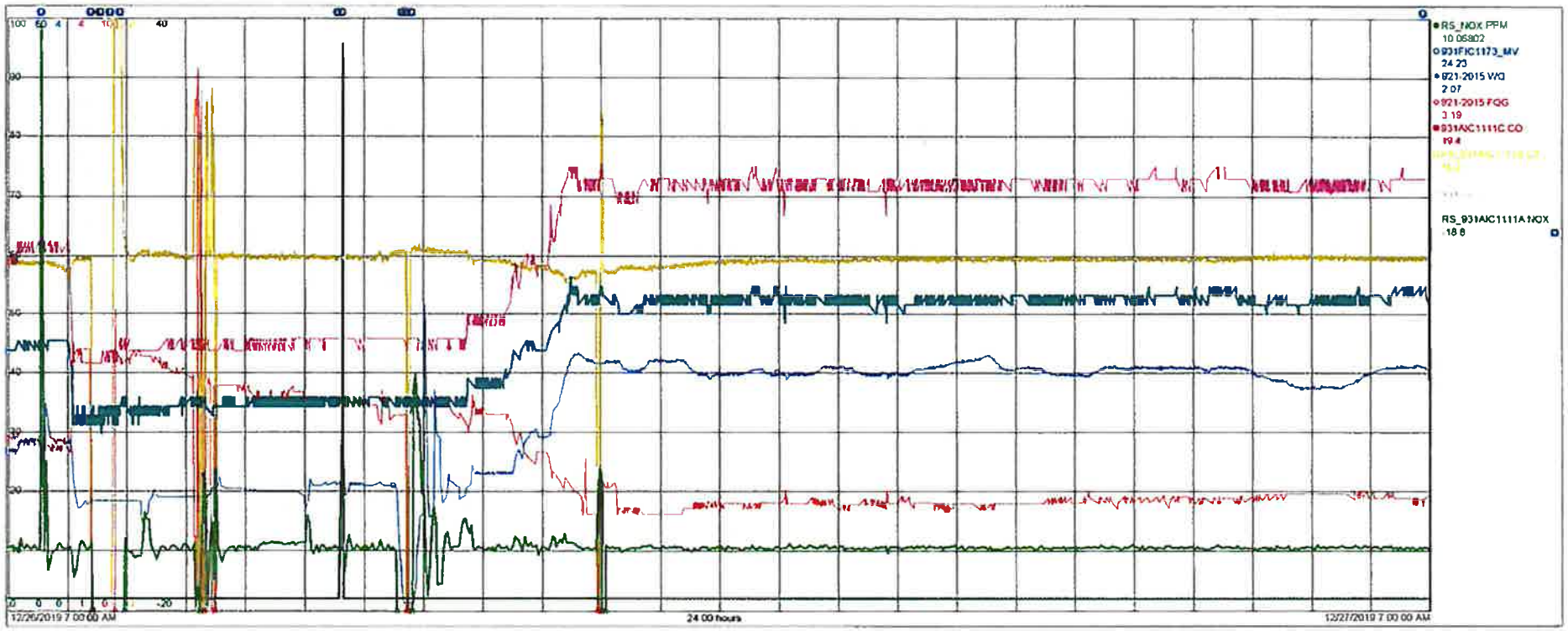
DAILY ENVIRONMENTAL REPORT

End Time 12/27/2019 7:00 Start Time 12/26/2019 7:00

Time	Duct burner gas flow MSCFH	Turbine gas flow MSCFH	Mixing Burner gas flow MMBTU/HY	Mixing Burner gas flow SCFH	SCR Temperature °F	SCR Inlet NOx ppm	Ammonia Usage lb/h	NH3 NOx molar ratio	Injection steam rate lb/s	Steam to fuel ratio lb/lb	NOx lb/h	Stack O2 %	Stack CO 15% O2 ppm	CO lb/h	Stack NOx 15% O2 ppm	1h Running Average NOx	Nebraska O2 %	Nebraska NOx ppm	Nebraska Corrected NOx (ppm) (3% O2)	Daily Av Cogen NOx lb/h 9.34	Daily Av Cog+Heb NOx lb/h 9.34
8:00	6.77	230.23	0.00	0.00	669.79	-18.75	18.78	-2.75	1.79	0.64	12.33	14.67	26.54	14.46	13.74	11.51	20.87	0.00	0.00		
9:00	6.78	189.65	0.00	0.00	648.68	-18.75	11.50	-2.18	1.35	0.58	0.83	9.96	12.85	4.32	1.09	8.41	20.68	0.00	0.00	Daily Av Cogen	Daily Av Cog+Heb
10:00	6.75	189.95	0.00	0.00	647.32	-18.75	11.09	-2.13	1.35	0.59	7.93	15.04	42.12	19.01	10.65	8.46	20.90	0.00	0.00	CO	CO
11:00	6.73	189.52	0.00	0.00	649.82	-18.75	12.24	-2.38	1.38	0.59	7.78	14.99	37.91	16.86	10.51	7.38	20.89	0.00	0.00	lb/h	lb/h
12:00	6.82	193.69	0.00	0.00	651.70	-18.75	11.91	-2.28	1.41	0.60	8.37	14.98	38.26	16.57	11.08	10.75	20.59	0.00	0.00	12.15	12.15
13:00	6.80	194.64	0.00	0.00	652.28	-17.64	12.61	-2.40	1.41	0.60	8.24	14.94	35.23	15.30	10.76	10.79	20.60	0.00	0.00	Stack NOx analyzer	
14:00	2.47	194.56	0.00	0.00	647.02	-18.75	8.81	-1.69	1.41	0.60	8.40	14.46	32.70	14.97	8.85	10.24	20.65	0.00	0.00	zero value	-0.26
15:00	1.51	196.16	0.00	0.00	641.89	-18.75	13.58	-2.59	1.44	0.61	8.43	15.10	34.48	15.71	11.02	10.22	20.58	0.00	0.00	zero drift %	-0.26
16:00	6.63	213.96	0.00	0.00	663.22	-18.75	15.35	-2.66	1.65	0.64	8.91	14.67	28.73	14.49	10.69	10.18	20.58	0.00	0.00	span value	82.03
17:00	5.59	251.27	0.00	0.00	688.23	-18.75	20.91	-3.28	2.02	0.65	10.54	14.26	20.93	11.73	11.30	11.00	20.63	0.00	0.00	span drift %	-0.64
18:00	1.87	258.41	0.00	0.00	685.31	-18.75	24.73	-3.65	2.06	0.66	10.28	14.50	15.18	8.85	10.58	10.66	20.61	0.00	0.00		
19:00	0.04	260.54	0.00	0.00	679.72	-18.75	24.51	-3.60	2.09	0.66	10.28	14.63	15.95	9.57	10.44	10.77	20.69	0.00	0.00	Stack CO Analyzer	
20:00	0.02	260.03	0.00	0.00	678.40	-18.75	24.00	-3.51	2.11	0.67	10.29	14.79	17.18	10.24	10.43	10.48	20.74	0.00	0.00	zero value	-0.03
21:00	0.02	260.29	0.00	0.00	678.48	-18.75	24.09	-3.56	2.09	0.66	10.45	14.83	17.39	10.31	10.62	10.50	20.72	0.00	0.00	zero drift %	-0.03
22:00	0.02	258.07	0.00	0.00	678.15	-18.75	24.03	-3.56	2.08	0.66	10.29	14.67	17.35	10.36	10.44	10.50	20.81	0.00	0.00	span value	91.69
23:00	0.02	257.13	0.00	0.00	677.23	-18.75	24.42	-3.62	2.08	0.66	10.29	14.68	17.56	10.41	10.56	10.55	20.72	0.00	0.00	span drift %	0.58
0:00	0.02	259.25	0.00	0.00	677.29	-18.75	25.05	-3.70	2.10	0.66	10.25	14.67	17.32	10.33	10.45	10.49	20.74	0.00	0.00		
1:00	0.02	260.20	0.00	0.00	677.11	-18.75	24.14	-3.54	2.10	0.66	10.32	14.63	17.56	10.48	10.48	10.50	20.76	0.00	0.00	Stack O2 Analyzer	
2:00	0.02	261.05	0.00	0.00	677.16	-18.75	24.24	-3.54	2.10	0.67	10.42	14.68	18.13	10.83	10.57	10.50	20.74	0.00	0.00	span value	20.93
3:00	0.02	260.68	0.00	0.00	677.19	-18.75	24.54	-3.60	2.11	0.67	10.41	14.68	18.09	10.78	10.53	10.53	20.74	0.00	0.00	span drift %	0.04
4:00	0.02	261.40	0.00	0.00	677.10	-18.75	24.48	-3.58	2.12	0.67	10.38	14.69	18.23	11.08	10.50	10.53	20.75	0.00	0.00	zero value	-0.14
5:00	0.02	258.71	0.00	0.00	673.69	-18.75	23.13	-3.43	2.07	0.66	10.14	14.97	18.68	11.21	10.45	10.49	20.78	0.00	0.00	zero drift %	-0.14
6:00	0.02	259.25	0.00	0.00	671.78	-18.75	22.91	-3.37	2.10	0.66	10.38	14.95	18.35	11.60	10.59	10.51	20.76	0.00	0.00		
7:00	0.02	261.23	0.00	0.00	673.06	-18.75	24.48	-3.57	2.14	0.67	10.38	14.91	18.43	11.06	10.47	10.50	20.78	0.00	0.00	Nebraska Gas	0

Comments Inlet NOx was not back online after Cogen started up on 12/25/19. VCAPCD was notified

PRINT TIME: 12/27/2019 8:20 AM
NOTE: This document is valid for only ONE week after print time


RS_NOX PPM
10.05802
931FIC1173_MV
24.23
921-2015 VKI
2.07
921-2015 FGG
3.19
931AIC1111C.CO
19.4
RS_931AIC1111A.NOX
18.8
12/26/2019 7:00:00 AM
24.00 hours
12/27/2019 7:00:00 AM


2019-12-27 09:38
36M
R 782-2010
#2 PULPER
HighCurr
09:35:34
RSMT 4-20MA ROSEMOUNT CEMS VALUES
Time Scope: 1 day
150
100
25.0
113
75
18.8
75
50
12.5
38
25
6.3
0
0
0.0
100
75
50
25
0
08:00
2019-12-26
16:00
00:00
2019-12-27
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 19:44 2019-12-26 --- --- PPM
931AIC1111C.CO B&W BLR STACK RAW CO MV Mom 19:44 2019-12-26 18.00 21.28 PPM
931AIC1111B.O2 B&W BLR RAW O2% MV Mean 19:44 2019-12-26 14.80 14.27 %
931AIC1111D.NOX B&W BLR STACK NOX MV Mean 19:44 2019-12-26 10.60 11.89 PPM
931-AIC-1111.INCAL RSMT CEMS IN CAL MV Mom --- 0
931-aic-1111.trb RSMT CEMS TROUBLE MV Mom --- 1
Current Time
Save Trend...
Hide Table
01 30 minutes
02 1 hour
03 8 hours
04
05 10 days
06 Positioning...
07 Trace Control...
08 Analyze...
09 Trace Config...
10 Extended Config...
ABB

OFFICIAL DAILY COGENERATION LOG

NEW-INDY CONTAINERBOARD
OXNARD MILL

NIGHT SHIFT OPERATOR

DAY SHIFT OPERATOR

NAME: BENAVIDES

DATE: 26 DEC 19

STEAM & WATER READINGS

	PERMEATE H_2O	CONCENTRATE H_2O	LP	HP
CURRENT	1647939	9698438	200921	1567
PREVIOUS	1633691	9692265	126462	1116

GAS & ELECTRIC READINGS

	SCG LP	TURBINE	MAXON	DUCT BURNER	MEGAWATTS
CURRENT	0546830	68503330	30304242	59190	26278
PREVIOUS	0543760	55264500	30304240	109374	25771

NEW DEMIN TRAILER YES ☐ NO ☐ TANK 1 % TANK 2 % CHILLER HOURS: 104,584:45

AMMONIA DELIVERY YES ☐ NO ☐ % FULL: 62.9 PACESETTER ON / OFF ALARM: RED ☐ YELLOW ☐ GREEN ☐

TURBINE

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
FMV	%	41.44	35.69	35.69	36.00	36.62	40.88	48	49	49	49	50	48
Inlet Temp	°F	54	56	61	63	63	60	55	56	53	55	55	51
Humidity	%	33.3	27.2	20.1	17.2	19.1	25.3	31	29	29	29	29	32
Vibration (Max)	MILS	.81	.83	.77	.77	.76	.65	.64	.61	.59	.61	.55	.72
Steam Injection	#/SEC	1.81	1.38	1.38	1.44	1.56	2.12	2.1	2.1	2.1	2.1	2.1	2.1
Turbine L.O. Level	%	90	90	90	90	90	90	90	90	90	90	90	90
T54	°F	1404	1314	1321	1353	1349	1486	1468	1471	1469	1468	1469	1449
		BATTERIES 128.5 V HP RECOUPE FAL						BATTERIES V HP RECOUPE FAL					
		AIR INLET DIFF 1.9 IN/H2O HP RECOUPE FAR						AIR INLET DIFF IN/H2O HP RECOUPE FAR					
		L.O. DIFFERENTIAL 6 PSI HP RECOUPE AFT						L.O. DIFFERENTIAL PSI HP RECOUPE AFT					
		ONLINE TURBINE WATER WASH YES ☐ NO ☐		CRANK WASH YES ☐ NO ☐ > GALLONS		CONDUCTIVITY MHOS		BOILER FEED WATER PUMP OPERATION NO.1 PUMP YES ☐ NO ☐ NO.2 PUMP YES ☐ NO ☐					

GENERATOR

		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	°F	150	151	152	153	153	153	153	153	152	151	151	150
L.O. Supply	°F	119	120	120	121	122	122	123	123	122	121	121	120
Gen. Vibration (Max)	IPS	.34	.35	.29	.32	.33	.34	.32	.35	.35	.35	.35	.36
Tie Line	MW	12.06	13.27	13.19	13.09	13.14	11.56	11	11	11	11	11	11
Generator Voltage	KV	13.00	13.01	13.00	13.00	13.00	12.99	13.1	13.1	13.1	13.1	13.1	13.1
		GEN. AMPS		GEN.VARS MEGA VARS				GEN. AMPS			GEN.VARS MEGA VARS		
		FIELD AMPS		FIELD VOLTS V				FIELD AMPS			FIELD VOLTS		
		COOLING TWR INLET F		COOLING TWR OUTLET F				COOLING TWR INLET F			COOLING TWR OUTLET F		

COGEN BOILER

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
450 Header Temp	°F	710	710	710	711	710	710	710	709	710	710	710	710
HP Drum Level	IN	0.9	1.2	1.2	1.2	-1.0	2.9	1	1.1	.9	1	1	.8
LP Drum Level	IN	0.1	-0.6	-0.3	0.0	-0.2	1.5	.2	.1	.1	.5	0	.2
HP Drum Pressure	PSI	462	462	462	462	462	468	468	468	469	468	466	466
LP Drum Pressure	PSI	147	152	154	154	153	148	148	148	148	148	148	148
CO	PPM	26.3		57.9	34.4	33.2	18.2	17	17	18	18	19	19
NOx	PPM	9.8	CAL	10.0	10.5	10.5	10.6	10.5	10.8	10.3	10.8	10.9	10.3
O_2	%	14.61	VAL	15.03	14.95	14.86	14.34	14.8	14.9	14.9	14.9	14.7	14.9
Hot Well Level	%	139	150	132	101	115	85	157	161	122	153	160	149
		8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	2:00	4:00	6:00
450 Header Temp	°F	711	710	710	712	710	710	709	710	710	711	710	710
HP Drum Level	IN	5.5	0.8	1.2	0.6	1.1	0.2	1.1	1	1	1	1	1
LP Drum Level	IN	1.1	0.8	-0.3	0.0	-0.7	1.9	.5	.1	0	0	0	0
HP Drum Pressure	PSI	462	462	462	462	462	468	468	468	468	468	468	468
LP Drum Pressure	PSI	153	154	154	153	154	148	150	148	148	148	148	148
CO	PPM	43.5		36.4	36.4	44.6	14.9	17.2	17.7	12.5	17.8	19	19
NOx	PPM	11.4	CAL	11.4	5.7	10.4	10.7	10.8	10.8	10.8	10.7	10.7	10.7
O_2	%	14.81	VAL	14.48	13.36	14.49	14.48	14.3	14.9	14.8	14.7	14.9	14.9
Hot Well Level	%	150	151	110	105	114	117	153	130	137	160	158	142
		1150 SET POINT 1103 B SET POINT						1150 SET POINT 1103 B SET POINT					
AUTO / ON / OFF		DUCT BURNER S/P						DUCT BURNER S.P.					

COMPRESSORS

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
Filter Separator	PSI	225	229	229	229	229	225	223	221	221	221	221	221
Gas Receiver	PSI	410	405	403	404	406	404	404	404	404	404	404	405
		Crankcase Oil Level %						Crankcase Oil Level %					
		Frame Oil Pressure (25-50) PSI						Frame Oil Pressure (25-50) PSI					
		Temp. cooling °F T1 T2						Temp. cooling °F T1 T2					

BOILER TEST RESULTS

	DAY SHIFT	NIGHT SHIFT
BOILER FEEDWATER		
pH 8.75– 9.5		
Conductivity <5mmhos		
Silica <20 ppb		
R.O.		
Feed TDS<1000 ppm		
Permeate TDS<10 ppm		
pH (Feed 7.5)		
CONDENSATE		
HP-pH 8.5 –9.5		
Conductivity <20mmhos		
LP-pH 8.5–9.5		
Conductivity <20mmhos		
HP		
pH 9.5 – 10.5		
Conductivity 75–150		
Phosphate 5–15 ppm		
Silica <5 ppm		
Iron ppm		
LP		
pH 9.5 – 10.5		
Conductivity 75 – 150		
Phosphate 5–15 ppm		
Silica <5 ppm		
Iron ppm		
MIXED BED		
pH 6.0 – 7.5		
Conductivity <1mmhos		
Silica <10 ppb		
HP Steam Test		
Silica <20 ppb		
SOFTENER		
Hardness <1.0 ppm		
Running (1 or 2)		
STEAM TEST		
Silica <20 ppb		
PV NO.2		
HP BLOW DOWN	DAY SHIFT:	
TIME:		
	NORTH TANK	SOUTH TANK
SALT	FEET	FEET

VISIT CONDITIONS

NOTES: 0700 2nd FIBER DOWN #2 PULPER CONV.
0800 PM DOWN – OUT OF STOCK
1100 #3 COMPRESSOR BACK ON-LINE
1900 LNOT BURNER OFF –
1030 REGEN SOFTENERS #1
1530 2nd FIBER STARTING UP. MOD SHEET ON

End Time 12/28/2019 7:00 Start Time 12/27/2019 7:00

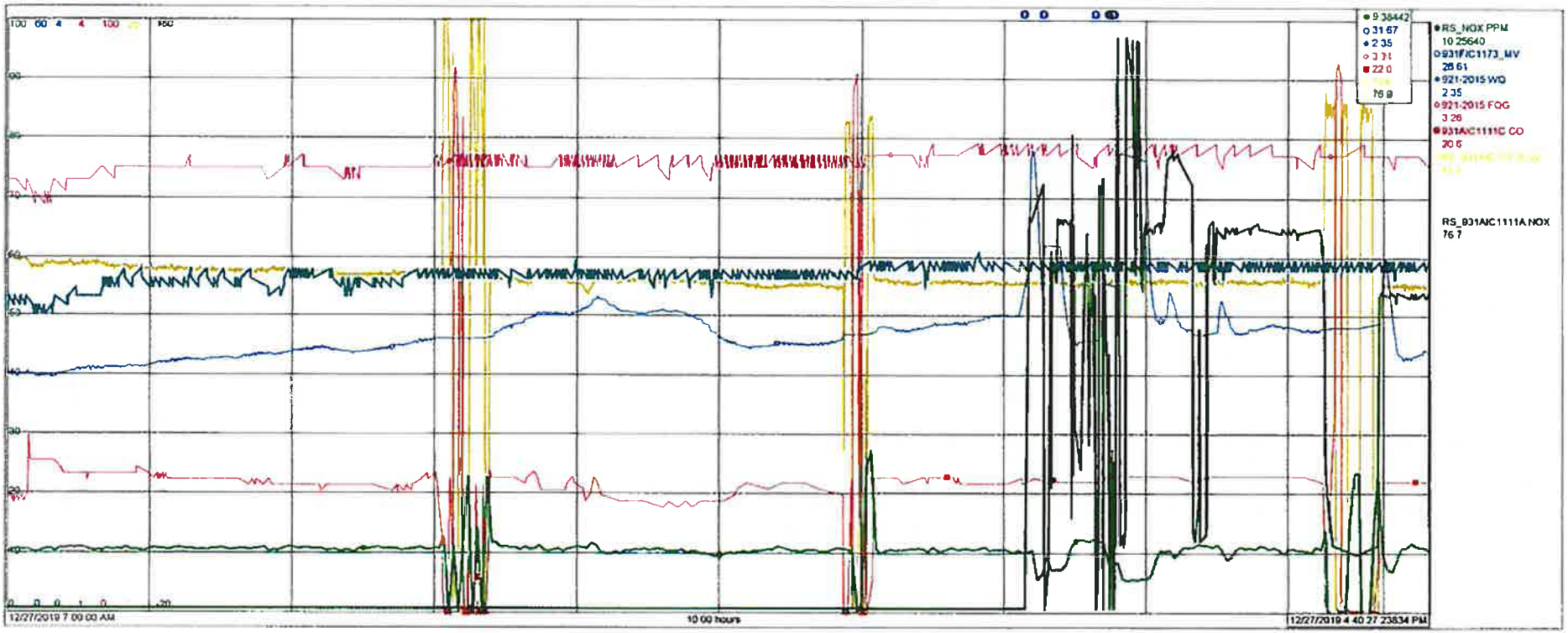
DAILY ENVIRONMENTAL REPORT

Time	Duct burner gas flow MSCFH	Turbine gas flow MSCFH	Mixon Burner gas flow MMBTU/Hr	Mixon Burner gas flow SCFH	SCR Temperature °F	SCR Inlet NOx ppm	Ammonia Usage lb/h	NH3 NOx molar ratio	Injection steam lbs/s	Steam to fuel ratio lb/lb	NOx lb/h	Stack O2 %	Stack CO 15% O2 ppm	CO lb/h	Stack NOx 15% O2 ppm	3h Running Average NOx	Nebraska O2 %	Nebraska NOx ppm	Nebraska Corrected NOx (ppm) (3% O_2)	Daily Av Cogen NOx lb/h	Daily Av Cog+Neb NOx lb/h
																				8.05	8.05
8:00	7.17	261.82	3.03	2965.55	689.33	-18.75	24.41	-3.50	2.14	0.67	10.65	14.58	22.06	13.81	10.50	10.52	20.75	0.00	0.00		
9:00	6.84	265.84	3.68	3535.24	695.09	-18.75	25.67	-3.58	2.23	0.69	10.92	14.44	20.21	12.75	10.64	10.63	20.73	0.00	0.00	Daily Av Cogen	Daily Av Cog+Neb
10:00	7.06	266.35	3.66	3528.60	698.00	-18.75	26.72	-3.73	2.25	0.69	10.97	14.29	19.02	11.84	10.60	10.57	20.70	0.00	0.00	CO	CO
11:00	10.97	268.40	0.06	182.62	710.67	-18.75	30.20	-4.21	2.29	0.70	11.07	14.04	18.06	11.19	10.65	10.63	20.70	0.00	0.00	lb/h	lb/h
12:00	8.77	266.86	3.60	3490.57	711.69	-18.75	30.33	-4.15	2.28	0.70	10.87	13.97	16.22	10.29	10.37	10.54	20.70	0.00	0.00	8.88	8.88
13:00	13.79	266.47	3.69	3550.66	715.54	-18.75	27.15	-3.73	2.28	0.70	10.96	13.81	17.44	11.28	10.37	10.46	20.71	0.00	0.00	Stack NOx analyzer	
14:00	17.29	271.47	3.68	3538.64	726.52	-18.75	29.15	-3.64	2.34	0.71	11.85	13.95	18.74	12.47	10.51	10.42	20.73	0.00	0.00	zero value	0.09
15:00	18.16	272.15	3.67	3532.05	730.58	59.51	35.28	-1.35	2.34	0.71	10.98	13.93	18.83	12.64	9.00	9.96	20.72	0.00	0.00	zero drift %	0.09
16:00	18.90	271.98	3.70	3564.63	730.70	90.92	29.52	5.24	2.34	0.71	11.18	13.98	19.46	13.08	10.31	9.94	20.71	0.00	0.00	span value	82.75
17:00	18.90	271.30	3.73	3598.04	729.45	95.97	28.64	0.73	2.34	0.71	11.39	13.95	19.52	13.07	10.49	9.87	20.68	0.00	0.00	span drift %	1.32
18:00	20.37	271.30	3.75	3613.49	731.30	42.73	27.70	-43.17	2.34	0.70	12.16	13.22	9.69	6.72	11.05	9.35	20.67	0.00	0.00		
19:00	16.88	268.74	2.65	2547.59	724.69	49.45	21.40	10.38	2.29	0.70	9.01	10.83	7.92	5.60	8.39	8.71	20.67	0.00	0.00	Stack CO Analyzer	
20:00	7.39	267.63	3.71	3566.46	700.01	53.65	14.22	2.86	2.28	0.70	10.76	8.47	7.50	5.35	10.34	9.93	20.73	0.00	0.00	zero value	-0.94
21:00	18.50	267.37	3.72	3572.54	717.75	91.61	24.69	0.68	2.28	0.70	8.34	9.50	10.34	6.81	7.50	8.74	20.77	0.00	0.00	zero drift %	-0.94
22:00	19.48	267.20	3.73	3587.08	723.95	95.34	30.80	0.80	2.28	0.70	4.59	7.43	9.64	6.37	4.82	7.35	20.76	0.00	0.00	span value	91.91
23:00	20.83	267.46	3.74	3604.29	724.06	94.16	31.70	0.83	2.27	0.69	4.33	7.43	9.42	6.27	3.93	5.23	20.79	0.00	0.00	span drift %	0.62
0:00	21.54	268.04	3.75	3614.46	725.65	93.43	29.51	0.79	2.29	0.70	4.75	7.47	9.53	6.37	4.37	2.68	20.77	0.00	0.00		
1:00	17.57	270.03	3.78	3634.31	719.33	92.52	29.21	0.76	2.30	0.70	4.80	7.53	10.02	6.68	4.22	4.09	20.77	0.00	0.00	Stack O2 Analyzer	
2:00	18.82	265.40	3.78	3637.42	716.64	91.69	29.18	0.80	2.23	0.69	4.30	7.55	10.08	6.58	4.01	4.20	20.78	0.00	0.00	span value	20.71
3:00	18.60	267.98	3.80	3661.03	714.97	91.06	29.27	0.80	2.27	0.70	4.25	7.57	10.37	6.79	3.93	4.06	20.80	0.00	0.00	span drift %	-0.99
4:00	17.97	268.52	3.81	3667.14	716.03	90.91	29.32	0.81	2.25	0.69	4.25	7.57	10.39	6.85	3.93	3.99	20.79	0.00	0.00	zero value	-0.33
5:00	15.63	265.59	3.81	3661.92	712.48	90.87	29.32	0.81	2.20	0.68	4.10	7.60	10.53	6.84	3.93	3.96	20.79	0.00	0.00	zero drift %	-0.33
6:00	15.81	265.57	3.80	3661.05	709.29	90.95	29.32	0.82	2.21	0.68	4.05	7.61	10.58	6.86	3.91	3.94	20.79	0.00	0.00		
7:00	14.70	262.42	3.79	3652.32	703.60	89.87	28.41	0.82	2.17	0.68	3.94	7.65	10.69	6.80	3.87	3.90	20.81	0.00	0.00	Nebraska Gas	0

Comments: Inlet Nox was back online and stable on 12/27/19 at 4 40 PM. O2 calibration failed on 12/27/19 at 4 40 PM. CEMS was offline for troubleshooting on 12/27/19 from 4 40 PM to 7.45 PM. The NH3 control valve was operated in manual to control raw NOx to ~9 ppm. VCAPCD was notified on 12/27/19 at 8 40 PM.

PRINT TIME: 12/30/2019 9:08 AM

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


RS_NOX PPM
931FIC1173_MV
921-2015 WD
921-2015 FOG
931AIC1111C CO
RS_931AIC1111A NOX
12/27/2019 7 00 00 AM
10 00 hours
12/27/2019 4 40 27 23834 PM


2019-12-27 17:59
36M
782-GRPALARM_1
SEC FIBER GRP ALM
Disturb.
17:57:22
RSMT 4-20MA ROSEMOUNT CEMS VALUES
Time Scope: 8 hours
150
100
25.0
113
75
18.8
75
50
12.5
38
25
6.3
0
0
0.0
100
75
50
25
0
08:00
2019-12-27
10:00
12:00
14:00
ON Name Description Attribute Treatment Ruler Time Ruler Value Current Value Unit Filter Time Offset Form
931AIC1111A.NOX B&W SCR INLET NOX MV Mom 15:48 97.30 74.58 PPM
931AIC1111C.CO B&W BLR STACK RAW CO MV Mom 15:48 22.94 23.16 PPM
931AIC1111B.O2 B&W BLR RAW O2% MV Mean 15:48 13.94 11.86 %
931AIC1111D.NOX B&W BLR STACK NOX MV Mean 15:48 12.77 15.81 PPM
931-AIC-1111.INCAL RSMT CEMS IN CAL MV Mom 15:48 0 0
931-aic-1111.trb RSMT CEMS TROUBLE MV Mom 15:48 1 1
< > << >>
Current Time
Save Trend...
Hide Table
D1 30 minutes
D2 1 hour
D3
D4 1 day
D5 10 days
D6 Positioning...
D7 Trace Control...
D8 Analyze...
D9 Trace Config...
D10 Extended Config...
ABB

OFFICIAL DAILY COGENERATION LOG

NEW-INDY CONTAINERBOARD
GINNARD MILL

DATE: 27 DEC 19

NIGHT SHIFT OPERATOR

NAME:

DAY SHIFT OPERATOR

NAME: BENAVIDES

STEAM & WATER READINGS

	PERMEATE H_2O	CONCENTRATE H_2O	LP	HP	SCG LP	TURBINE
CURRENT	1660773	9703795	220991	20882	0511750	6226800
PREVIOUS	1647939	9698438	200421	15671	0546830	6850330

NEW DEMIN TRAILER YES ☐ NO ☐ TANK 1 % TANK 2 %

AMMONIA DELIVERY YES ☐ NO ☐ % FULL: 55.2

CHILLER HOURS: 104,584:45

PACESETTER ON / OFF ALARM: RED ☐ YELLOW ☐ GREEN ☐

TURBINE

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
FMV	%	49.06	48.94	54.38	54.42	58.88	56.50	57	58	49	49	52	49
Inlet Temp	°F	55	57	66	64	66	64	60	58	56	56	55	52
Humidity	%	29.7	24.7	11.7	16.7	19.8	22.9	24	23	25	24	24	24
Vibration (Max)	MILS	.51	.70	.59	.56	.50	.63	.55	.69	.78	.76	.75	.75
Steam Injection	#/SEC	2.12	2.12	2.31	2.31	2.38	2.38	2.3	2.3	2.1	2.1	2.3	2.3
Turbine L.O. Level	%	85	85	85	85	100	100	100	100	100	100	100	100
154	°F	1467	1480	1516	1516	1521	1512	1498	1494	1471	1477	1477	1460

BATTERIES 128.5 V HP RECOUPE FAL
AIR INLET DIFF 2.1 IN/H2O HP RECOUPE FAR
L.O. DIFFERENTIAL 6 PSI HP RECOUPE AFT

BATTERIES V HP RECOUPE FAL
AIR INLET DIFF IN/H2O HP RECOUPE FAR
L.O. DIFFERENTIAL PSI HP RECOUPE AFT

ONLINE TURBINE WATER WASH YES ☐ NO ☐ CRANK WASH YES ☐ NO ☐ > GALLONS CONDUCTIVITY MHOS

BOILER FEED WATER PUMP OPERATION NO.1 PUMP YES ☐ NO ☐ NO.2 PUMP YES ☐ NO ☐

GENERATOR

		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	°F	150	151	152	154	156	155	155	154	153	152	150	150
L.O. Supply	°F	119	119	121	122	123	123	124	123	122	121	120	120
Gen. Vibration (Max)	IPS	.35	.34	.33	.35	.34	.34	.34	.34	.34	.34	.34	.33
Tie Line	MW	10.94	11.39	11.58	11.42	11.44	11.52	11.5	11.5	11.5	11.5	11.5	11.5
Generator Voltage	KV	12.98	12.98	12.97	12.99	13.00	12.99	13.1	13.1	13.1	13.1	13.1	13.1

GEN. 1100 AMPS GEN VARS 4.03 MEGA VARS
FIELD 190 AMPS FIELD VOLTS 165 V
COOLING TWR INLET 72 F COOLING TWR OUTLET 64 F

GEN. AMPS GEN.VARS MEGA VARS
FIELD AMPS FIELD VOLTS
COOLING TWR INLET F COOLING TWR OUTLET F

COGEN BOILER

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
450 Header Temp	°F	710	710	711	710	710	710	705	710	708	710	710	710
HP Drum Level	IN	1.2	1.0	-2.2	0.6	1.0	0.7	.3	1.7	2.2	.1	0	1
LP Drum Level	IN	-0.1	-0.3	-1.1	-0.2	-0.1	0.1	.5	.4	.2	0	0	0
HP Drum Pressure	PSI	468	468	468	475	475	475	473	473	473	473	468	468
LP Drum Pressure	PSI	152	152	146	154	154	154	157	154	152	154	154	154
CO	PPM	22.0	19.5	18.0	19.5	19.6	18.5	4.7	9.6	9.7	10.2	10.7	10.7
NOx	PPM	11.2	10.6	10.7	10.8	9.8	10.3	11.7	4.2	3.7	3.8	5.6	5.5
O_2	%	14.68	14.44	13.87	13.99	13.93	13.82	7.3	7.4	7.5	7.9	7.6	7.6
Hot Well Level	%	139	136	152	148	144	140	143	152	159	154	155	158
		8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	2:00	4:00	6:00
450 Header Temp	°F	711	711	710	710	710	710	710	710	710	710	710	710
HP Drum Level	IN	1.0	.04	0.7	0.8	0.3	1.6	-.4	.6	-.4	1.6	1	.2
LP Drum Level	IN	-1.7	-0.3	-0.3	-0.1	0.0	0.1	0	-.2	.1	.4	0	0
HP Drum Pressure	PSI	468	468	468	475	475	475	468	473	473	468	468	468
LP Drum Pressure	PSI	152	152	152	154	154	154	152	154	154	154	154	154
CO	PPM	21.8	20.0	19.4	18.2	CAL	14.4	14.1	10	10.1	10.2	10.2	10.2
NOx	PPM	10.6	11.0	10.4	10.5		10.5	CAL	4.0	4.2	4.3	3.5	3.4
O_2	%	14.68	14.33	13.88	13.91	CAL	11.86	CAL	7.5	7.6	7.6	7.6	7.7
Hot Well Level	%	150	154	150	146	142	154	140	150	155	150	160	155

AUTO / ON / OFF

1150 SET POINT 451 1103 B SET POINT 446
DUCT BURNER MANUAL S/P 444

1150 SET POINT 1103 B SET POINT
DUCT BURNER S.P.

COMPRESSORS

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
Filter Separator	PSI	221	219	221	221	221	219	221	221	221	221	221	221
Gas Receiver	PSI	405	405	405	406	406	405	404	408	408	405	405	404

Crankcase Oil Level % FULL
Frame Oil Pressure (25-50) PSI 26.69
Temp. cooling °F T1 T2 52.8

Crankcase Oil Level %
Frame Oil Pressure (25-50) PSI
Temp. cooling °F T1 T2

GAS & ELECTRIC READINGS

	MAXON	DUCT BURNER	MEGAWATTS
	30388596	370914	26883
	30304212	59190	26278

BOILER TEST RESULTS

	DAY SHIFT	NIGHT SHIFT
BOILER FEEDWATER		
pH 8.75 - 9.5		
Conductivity <5mmhos		
Silica <20 ppb		
R.O.		
Feed TDS<1000 ppm		
Permeate TDS<10 ppm		
pH (Feed 7.5)		
CONDENSATE		
HP-pH 8.5 -9.5		
Conductivity <20mmhos		
LP-pH 8.5-9.5		
Conductivity <20mmhos		
HP		
pH 9.5 - 10.5		
Conductivity 75-150		
Phosphate 5-15 ppm		
Silica <5 ppm		
Iron ppm		
LP		
pH 9.5 - 10.5		
Conductivity 75 - 150		
Phosphate 5-15 ppm		
Silica <5 ppm		
Iron ppm		
MIXED BED		
pH 6.0 - 7.5		
Conductivity <1mmhos		
Silica <10 ppb		
HP Steam Test		
Silica <20 ppb		
SOFTENER		
Hardness <1.0 ppm		
Running (1 or 2)		
STEAM TEST		
Silica <20 ppb		
PV NO.2		
HP BLOW DOWN	DAY SHIFT:	
TIME:	1009	
	NORTH TANK	SOUTH TANK
SALT	FEET	FEET

NOTES:

New-Indy Oxnard Environmental Incident Report

Shaded section to be completed by the EMR

Name of Incident: Invalid Inlet NOx Data		Incident Date: 12/25/19
Exact Location Incident: Cogen		
Reported By: Victor Kumpera	Estimated Start and Stop Times of Incident: 12/25 3:08 PM, 12/27 4:40 PM	Possible Cause: SCE Power Outage

Incident Type:		Released To	
ف Spill Internal	ف Improper Waste Disposal	ف Storm Water System	ف Secondary Containment
ف Spill External	ف Near miss or below spill release guidelines	ف Process Sewer	X Air
X Air Emission		ف Ground (External)	ف Ground (Inside Mill Property)
ف Other_____		ف Near Miss	
		ف Other_____	

Detailed Description of Event

SCE power loss to Mill surged power damaging Inlet NOx CLD Analyzer. We replaced the CLD on 12/26, the spare CLD did not work properly. Contacted Manufacturer of CEMS and Technicians were not available to come onsite. After extensive unsuccessful troubleshooting via phone, support decision was made to bring in an independent contractor. Contractor arrived 12/27 1:28 PM, inlet NOx unit was repaired and back online at 4:40 pm.

(if required use additional paper and attach)

Estimated Amount Released	pH	CONSISTENCY (%)	Estimated Monetary Loss	No. of Emergency Sandbags used	After event, Sandbags Removed/Disposed
ف_____ Gallons ف_____Pounds ف Other_____				ف_____ Bags ف N/A	ف Yes ف No

List Any External Emergency Clean Up Personnel Contacted	List Any External Agencies Contacted *(Agency, person and time of call.)*
N/A	*VCAPCD on 12/25/19 at 5:30 PM*
List Hueneme Personnel Contacted *(Foreman, Mill Manager, etc.)*	Any Acute or Chronic Health Risks *(refer to MSDS)*
Victor Kumpera	N/A

Describe Any Emergency Response Actions
Troubleshooting began as soon as failure was observed and APCD was contacted.

Suggestions to Prevent Reoccurrence	Estimated Completion Date
1. Purchase or repair spare CLD.	1. 1/15/20
2.	2.
3.	3.
4.	4.

Root Cause after investigation	Severity Level *(level 1 and 2 must be tracked through SHIMS)*
SCE power loss causing power surge.	ف 1 ف 2 ف 3 ف 4
Investigated By: Gary Uribe	Investigated Date 12/25-27/19

Follow Up	By When	Completion Date	By Whom

Issued by	Reviewed by	Approved by
12/31/19	12/31/2019	For Rudy while on vacation
Department Manager	Technical Superintendent	Mill Manager 12/31/19

Print Time: 12/31/2019 11:18:47 AM

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

NEW INDY
CONTAINERBOARD

December 31, 2019

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

Attention: Ed Swede

Subject: Continuous Emission Monitoring System (CEMS) - Invalid O_2 data

Dear Mr. Swede:

New-Indy Oxnard is submitting this follow-up report for the call made by Zhen Han to the VCAPCD Breakdown Center Hotline on December 27, 2019 at 8:35 PM.

On December 27 at 4:40 PM, CEMS invalid O_2 data was observed right after the inlet NOx issue was resolved (refer to December 25-27, 2019 breakdown report for invalid inlet NOx data for details). The O_2 span did not pass after a manual calibration was completed at 4:40 PM. The unit was re-calibrated and ammonia scrubber was replaced but oxygen remained at around 7.5%. To ensure mill's compliance, the ammonia valve was operated in manual throughout the night to control raw NOx at approximately 9 ppm.

On December 28 at 8:15 AM, the O_2 module was replaced but calibration still failed. It was discovered that the calibration program was corrupted. The program was corrected, and CEMS started recording O_2 data at 9:25 AM. A passing auto calibration was completed at 10:25 AM. The CEMS had invalid O_2 data from December 27, 4:40 PM to December 28, 10:25 AM; a total of 17.75 hours. There were no excess emissions during this period.

The Daily Emission Sheets, PI trends, ABB 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,

Zhen Han
Process 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:

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: Rudolph Rebscher	12/31/2019
Title: Technical Manager	

DAILY ENVIRONMENTAL REPORT

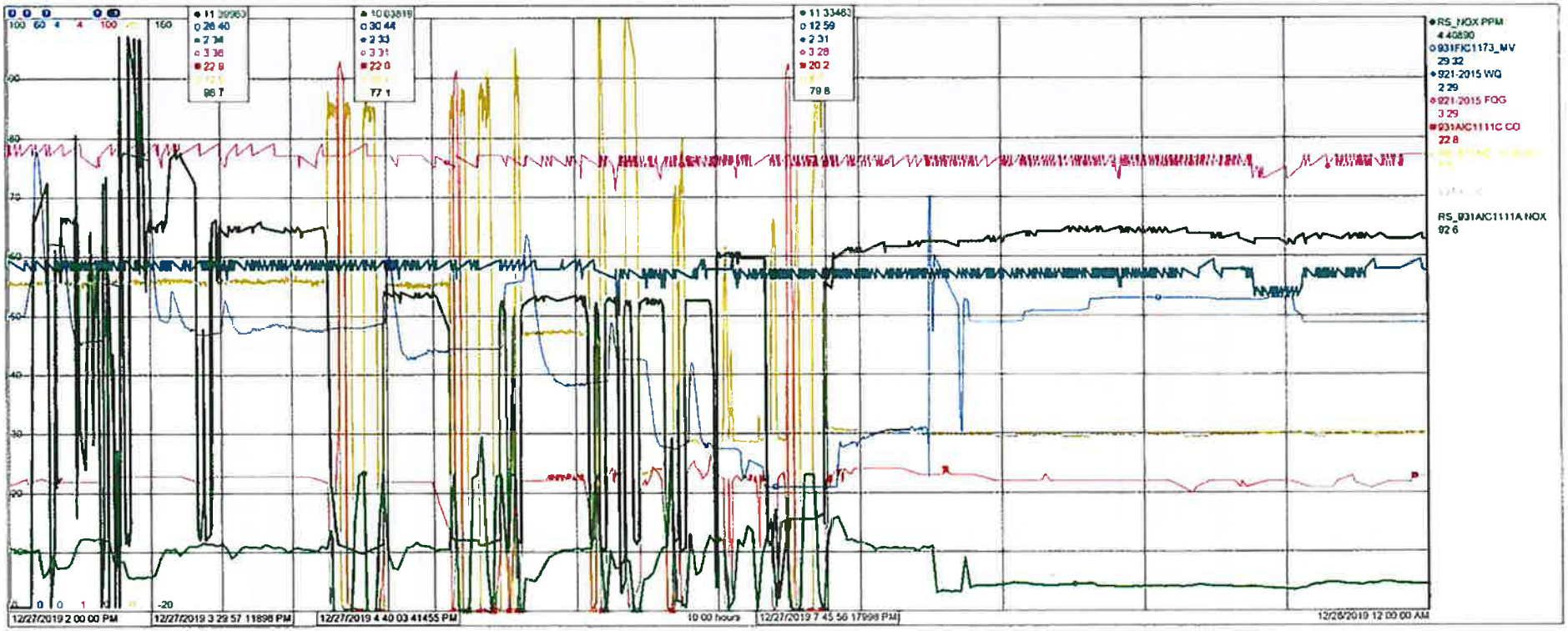
End Time: 12/28/2019 7:00 — Start Time: 12/27/2019 7:00

Time	Duct burner gas flow MSCFH	Turbine gas flow MSCFH	Mission Burner gas flow MMBTU/Hr	Mission Burner gas flow SCFH	SCR Temperature °F	SCR Inlet NOx ppm	Ammonia Usage lb/h	NH3:NOx mole ratio	Injection steam rate lb/h	Steam to fuel ratio lb/lb	NOx lb/h	Stack O2 %	Stack CO 15% O2 ppm	CO lb/h	Stack NOx 15% O2 ppm	3h Running Average NOx	Nebraska O2 %	Nebraska NOx ppm	Nebraska Corrected NOx (ppm) @ 3% O2	Daily Av Cogen NOx lb/h	Daily Av Cog+Neb NOx lb/h
8:00	7.17	281.82	3.03	2985.55	689.33	-18.75	24.41	-3.50	2.14	0.67	10.65	14.68	22.06	13.81	10.58	10.32	20.75	0.00	0.00	8:00	8:00
9:00	8.84	265.84	3.68	3535.24	695.09	-18.75	25.67	-3.58	2.23	0.69	10.92	14.44	20.21	12.75	10.61	10.43	20.73	0.00	0.00	Daily Av Cogen	Daily Av Cog+Neb
10:00	7.08	268.35	3.66	3528.60	698.00	-18.75	26.72	-3.73	2.25	0.69	10.87	14.29	19.02	11.94	10.60	10.57	20.70	0.00	0.00	CO	CO
11:00	10.97	268.40	0.06	182.82	710.67	-18.75	30.20	-4.21	2.29	0.70	11.07	14.04	18.06	11.19	10.63	10.62	20.70	0.00	0.00	lb/h	lb/h
12:00	8.77	268.68	3.00	3490.57	711.69	-18.75	30.33	-4.15	2.28	0.70	10.87	13.97	16.22	10.29	10.37	10.54	20.70	0.00	0.00	8:00	8:00
13:00	13.79	268.47	3.69	3550.98	715.54	-18.75	27.15	-3.73	2.28	0.70	10.96	13.81	17.44	11.28	10.37	10.46	20.71	0.00	0.00	Stack NOx analyzer	
14:00	17.29	271.47	3.68	3538.84	726.52	-18.75	29.18	-3.84	2.34	0.71	11.85	13.95	18.74	12.47	10.51	10.42	20.73	0.00	0.00	zero value	0.09
15:00	18.18	272.15	3.67	3532.05	730.58	59.51	35.28	-1.38	2.34	0.71	10.08	13.93	18.83	12.64	9.00	9.99	20.72	0.00	0.00	zero drift %	0.09
16:00	18.90	271.98	3.70	3564.63	730.79	90.92	29.52	5.24	2.34	0.71	11.18	13.98	19.46	13.08	10.31	9.94	20.71	0.00	0.00	span value	82.75
17:00	18.90	271.30	3.73	3566.04	729.45	95.97	28.64	0.73	2.34	0.71	11.39	13.96	19.52	13.07	10.45	9.87	20.68	0.00	0.00	span drift %	1.32
18:00	20.37	271.30	3.75	3613.49	731.30	42.73	27.70	-43.17	2.34	0.70	12.18	11.22	9.69	8.72	11.05	9.56	20.67	0.00	0.00		
19:00	16.86	268.74	2.65	2547.59	724.69	49.45	21.40	10.38	2.29	0.70	9.01	10.43	7.92	8.60	8.39	8.71	20.67	0.00	0.00	Stack CO Analyzer	
20:00	7.39	267.63	3.71	3566.46	709.01	53.85	14.22	2.86	2.28	0.70	10.78	8.47	7.50	5.35	10.34	9.83	20.73	0.00	0.00	zero value	-0.94
21:00	18.50	267.37	3.72	3572.54	717.75	91.61	24.69	0.58	2.28	0.70	8.34	7.50	10.34	6.81	7.50	8.74	20.77	0.00	0.00	zero drift %	-0.94
22:00	19.46	267.20	3.73	3587.06	723.95	95.34	30.60	0.80	2.28	0.70	4.59	7.40	9.64	6.37	4.22	7.35	20.78	0.00	0.00	span value	91.91
23:00	20.83	267.46	3.74	3604.29	724.06	94.16	31.70	0.83	2.27	0.69	4.33	7.41	9.42	6.27	3.95	5.22	20.79	0.00	0.00	span drift %	0.82
0:00	21.54	268.04	3.75	3614.46	725.85	93.43	29.51	0.79	2.29	0.70	4.75	7.47	9.53	6.37	4.37	4.18	20.77	0.00	0.00		
1:00	17.57	270.03	3.78	3634.31	719.33	92.52	29.21	0.78	2.30	0.70	4.60	7.53	10.02	6.68	4.27	4.15	20.77	0.00	0.00	Stack O2 Analyzer	
2:00	18.82	265.40	3.78	3637.42	718.84	91.69	29.18	0.80	2.23	0.69	4.30	7.55	10.08	6.58	4.01	4.09	20.78	0.00	0.00	span value	20.71
3:00	16.60	267.98	3.80	3661.03	714.97	91.06	29.27	0.80	2.27	0.70	4.25	7.57	10.37	6.79	3.93	4.06	20.80	0.00	0.00	span drift %	-0.99
4:00	17.97	266.52	3.81	3667.14	715.03	90.91	29.32	0.81	2.25	0.69	4.23	7.60	10.39	6.65	3.93	3.96	20.79	0.00	0.00	zero value	-0.33
5:00	16.83	265.59	3.81	3661.92	712.46	90.87	29.32	0.81	2.20	0.68	4.10	7.60	10.53	6.64	3.82	3.90	20.79	0.00	0.00	zero drift %	-0.33
6:00	15.81	265.57	3.80	3661.05	709.29	90.95	29.32	0.82	2.21	0.68	4.05	7.61	10.58	6.66	3.81	3.86	20.79	0.00	0.00		
7:00	14.70	262.42	3.79	3652.32	703.00	89.87	28.41	0.82	2.17	0.68	3.94	7.65	10.69	6.60	3.77	3.80	20.81	0.00	0.00	Nebraska Gas	0

Comments: Inlet Nox was back online and stable on 12/27/19 at 4:40 PM. O2 calibration failed on 12/27/19 at 4:40 PM. CEMS was offline for troubleshooting on 12/27/19 from 4:40 PM to 7:45 PM. The NH3 control valve was operated in manual to control raw NOx to ~9 ppm. VCAPCD was notified on 12/27/19 at 8:40 PM.

PRINT TIME: 12/30/2019 9:08 AM

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


RS_NOX PPM
931FIC1173_MV
921-2015 WQ
921-2015 FOG
931AIC1111C CO
RS_931AIC1111A NOX
12/27/2019 2 00 00 PM
12/27/2019 3 29 57 11898 PM
12/27/2019 4 40 03 41455 PM
10 00 hours
12/27/2019 7 45 56 17998 PM
12/28/2019 12 00 00 AM


2019-12-30 11:15
H2
811FI313D.FT
COOLING WTR FLOW
Lim H2
11:14:06
RSMT 4-20MA ROSEMOUNT CEMS VALUES
36MF
Time Scope: 1 day
150
100
25.0
113
75
18.8
75
50
12.5
38
25
6.3
0
0
0.0
100
75
50
25
0
16:00
2019-12-27
00:00
2019-12-28
08:00
ON Name Description Attribute Treatment Ruler Time Ruler Value Current Value Unit Filter Time Offset Form
931AIC1111A.NOX B&W SCR INLET NOX MV Mom 01:46 2019-12-28 91.55 95.36 PPM
931AIC1111C.CO B&W BLR STACK RAW CO MV Mom 01:46 2019-12-28 22.94 23.09 PPM
931AIC1111B.O2 B&W BLR RAW O2% MV Mean 01:46 2019-12-28 7.54 13.94 %
931AIC1111D.NOX B&W BLR STACK NOX MV Mean 01:46 2019-12-28 9.13 12.17 PPM
931-AIC-1111.INCAL RSMT CEMS IN CAL MV Mom --- 0
931-alc-1111.trb RSMT CEMS TROUBLE MV Mom --- 1
Current Time
Save Trend...
Hide Table
01 30 minutes
02 1 hour
03 8 hours
04
05 10 days
06 Positioning...
07 Trace Control...
08 Analyze...
09 Trace Config...
10 Extended Config...
ABB

OFFICIAL DAILY COGENERATION LOG

NEW-INDY CONTAINERBOARD
OXNARD MILL

DATE: 27DEC19

NIGHT SHIFT OPERATOR

NAME:

DAY SHIFT OPERATOR

NAME: BENAVIDES

STEAM & WATER READINGS

	PERMEATE H_2O	CONCENTRATE H O_2	LP	HP	SCG LP	TURBINE
CURRENT	1660773	9703795	220991	2082	0511750	6226800
PREVIOUS	1647939	9698438	200421	1567	0546830	6850330

NEW DEMIN TRAILER YES ☐ NO ☐ TANK 1 % TANK 2 %

AMMONIA DELIVERY YES ☐ NO ☐ % FULL: 55.2

CHILLER HOURS: 104,584:45

PACESETTER ON / OFF ALARM: RED ☐ YELLOW ☐ GREEN ☐

TURBINE

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
FMV	%	49.06	48.94	54.38	54.62	56.88	56.50	57	58	49	49	52	49
Inlet Temp	°F	53	57	66	64	66	64	60	58	56	56	55	52
Humidity	%	29.7	24.7	11.7	16.7	14.8	12.9	24	23	25	24	24	24
Vibration (Max)	MILS	.51	.10	.59	.56	.50	.63	.55	.69	.70	.76	.75	.75
Steam Injection	#/SEC	2.12	2.12	2.31	2.31	2.38	2.38	2.3	2.3	2.1	2.1	2.3	2.3
Turbine L.O. Level	%	85	85	85	85	100	100	100	150	150	100	100	150
T54	°F	1467	1480	1516	1516	1521	1512	1498	1494	1491	1477	1477	1460

BATTERIES 128.5 V. | HP RECOUPE FAL | BATTERIES V | HP RECOUPE FAL

AIR INLET DIFF 2.1 IN/H20 | HP RECOUPE FAR | AIR INLET DIFF IN/H20 | HP RECOUPE FAR

L.O. DIFFERENTIAL 6 PSI | HP RECOUPE AFT | L.O. DIFFERENTIAL PSI | HP RECOUPE AFT

ONLINE TURBINE WATER WASH YES ☐ NO ☐ | CRANK WASH YES ☐ NO ☐ > GALLONS | CONDUCTIVITY MHOS | BOILER FEED WATER PUMP OPERATION | NO.1 PUMP YES ☐ NO ☐ | NO.2 PUMP YES ☐ NO ☐

GENERATOR

		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	°F	150	151	154	153	156	155	155	154	153	152	150	150
L.O. Supply	°F	119	119	121	122	123	123	124	123	122	121	120	120
Gen. Vibration (Max)	IPS	.35	.34	.33	.35	.34	.34	.34	.34	.34	.34	.34	.33
Tie Line	MW	10.94	11.39	11.58	11.42	11.44	11.52	11.5	11.5	11.5	11.5	11.5	11.5
Generator Voltage	KV	12.98	12.98	12.97	12.99	13.00	12.99	13.1	13.1	13.1	13.1	13.1	13.1

GEN. 1100 AMPS | GEN.VARS 4.03 MEGA VARS | GEN. AMPS | GEN VARS MEGA VARS

FIELD 190 AMPS | FIELD VOLTS 165 V | FIELD AMPS | FIELD VOLTS

COOLING TWR INLET 72 F | COOLING TWR OUTLET 64 F | COOLING TWR INLET F | COOLING TWR OUTLET F

COGEN BOILER

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
450 Header Temp	°F	710	710	711	710	710	710	705	710	708	710	710	710
HP Drum Level	IN	1.2	1.0	-2.2	0.6	1.0	0.7	2	1.7	2.2	-1		1
LP Drum Level	IN	-0.1	-0.3	-1.1	-0.2	-0.1	0.1	.5	.4	.2	0	0	0
HP Drum Pressure	PSI	468	468	468	475	475	475	473	473	473	473	468	468
LP Drum Pressure	PSI	152	152	146	154	154	154	157	154	152	157	154	154
CO	PPM	22.0	19.5	18.0	19.5	19.6	18.5	4.7	9.6	9.7	10.2	10.7	10.7
NOx	PPM	11.2	10.6	10.7	10.8	9.8	10.3	11.7	4.2	3.7	3.8	3.6	3.5
O_2	%	14.68	14.44	13.87	13.99	13.93	13.82	7.3	7.4	7.5	7.9	7.6	7.6
Hot Well Level	%	139	136	152	148	144	160	143	152	159	154	155	158
		8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	2:00	4:00	6:00
450 Header Temp	°F	711	711	710	710	710	710	710	710	710	710	710	710
HP Drum Level	IN	1.0	0.4	0.7	0.8	0.3	1.6	-.4	.0	-.4	1.0	1	.2
LP Drum Level	IN	-1.7	-0.3	-0.3	-0.1	0.0	0.1	0	-.2	-.1	.4	0	0
HP Drum Pressure	PSI	468	468	466	475	475	475	468	473	473	468	468	466
LP Drum Pressure	PSI	152	152	152	154	154	154	152	154	154	154	154	154
CO	PPM	21.8	20.0	17.4	18.2	CAL	14.4	1.2	10	10.1	10.2	10.2	10.2
NOx	PPM	10.6	11.0	10.4	10.5	CAL	10.5	CAL	4.0	4.2	4.3	3.5	3.4
O_2	%	14.60	14.35	13.88	13.91	CAL	11.86	CAL	4.3	7.5	7.9	7.9	7.7
Hot Well Level	%	150	134	150	146	142	154	140	150	153	150	160	153

AUTO / ON / OFF

1150 SET POINT 451 | 1103 B SET POINT 446 | 1150 SET POINT | 1103 B SET POINT

DUCT BURNER MANUAL | S/P 444 | DUCT BURNER | S/P

COMPRESSORS

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
Filter Separator	PSI	221	219	221	221	221	219	221	221	221	221	221	221
Gas Receiver	PSI	405	405	405	406	406	405	404	405	408	405	405	404

Crankcase Oil Level % FULL | Crankcase Oil Level %

Frame Oil Pressure (25-50) PSI 26.69 | Frame Oil Pressure (25-50) PSI

Temp. cooling °F T1 T2 52.8 | Temp. cooling °F T1 T2

GAS & ELECTRIC READINGS

	MAXON	DUCT BURNER	MEGAWATTS
CURRENT	30388596	370914	26883
PREVIOUS	30304242	59190	26278

BOILER TEST RESULTS

	DAY SHIFT	NIGHT SHIFT
BOILER FEEDWATER		
pH 8.75 – 9.5		
Conductivity <5mmhos		
Silica <20 ppb		
R.O.		
Feed TDS<1000 ppm		
Permeate TDS<10 ppm		
pH (Feed 7.5)		
CONDENSATE		
HP-pH 8.5 – 9.5		
Conductivity <20mmhos		
LP-pH 8.5-9.5		
Conductivity <20mmhos		
HP		
pH 9.5 – 10.5		
Conductivity 75-150		
Phosphate 5-15 ppm		
Silica <5 ppm		
Iron ppm		
LP		
pH 9.5 – 10.5		
Conductivity 75 – 150		
Phosphate 5-15 ppm		
Silica <5 ppm		
Iron ppm		
MIXED BED		
pH 6.0 – 7.5		
Conductivity <1mmhos		
Silica <10 ppb		
HP Steam Test		
Silica <20 ppb		
SOFTENER		
Hardness <1.0 ppm		
Running (1 or 2)		
STEAM TEST		
Silica <20 ppb		
PV NO.2		
HP BLOW DOWN	DAY SHIFT:	
TIME:	1009	
	NORTH TANK	SOUTH TANK
SALT	FEET	FEET

NOTES:

ACAD# 600-3011 - REV.A

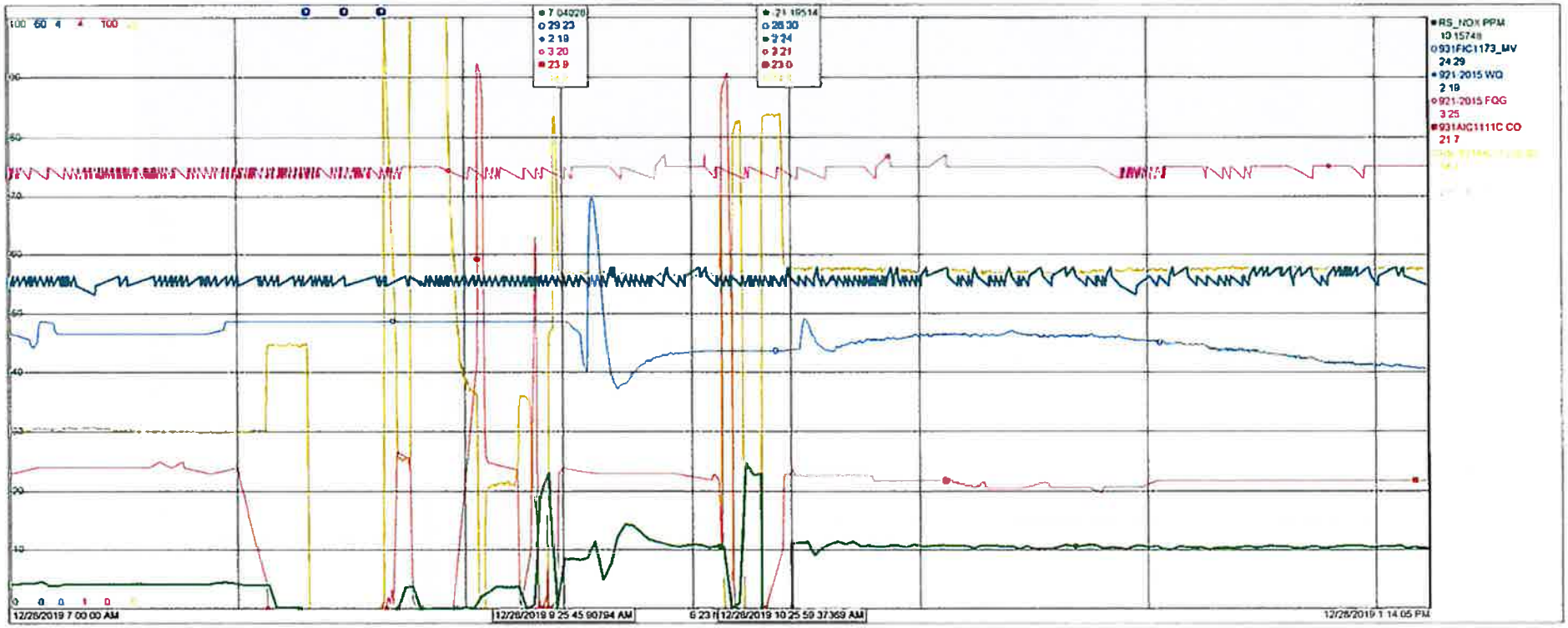
DAILY ENVIRONMENTAL REPORT

gas flow: 12/29/2019 7:00 — start time: 12/28/2019 7:00

Time	Duct burner gas flow MSCFH	Turbine gas flow MSCFH	Mason Burner gas flow MMBTU/hr	Mason Burner gas flow SCFH	SCR Temperature °F	SCR inlet NOx ppm	Ammonia Usage lb/h	NH3:NOx mole ratio	Injection steam rate lb/s	Steam to fuel ratio lb/lb	NOx lb/h	Stack O2 %	Stack CO 15% O2 ppm	CO lb/h	Stack NOx 15% O2 ppm	3h Running Average NOx	Nebraska O2 %	Nebraska NOx ppm	Nebraska Corrected NOx (ppm) [3% O_2]	Daily Av Cogen NOx lb/h	Daily Av Cog+Neb NOx lb/h
																				9 99	9 99
8 00	18 71	265 24	3 78	3639 43	710 46	90 49	28 07	0 78	2 21	0 68	4.38	[illegible]	10 51	0.79	[illegible]	[illegible]	20 80	0 00	0 00		
9 00	17 11	264 38	3 78	3624 97	713 85	4 56	29 23	-0 70	2 22	0 65	[illegible]	[illegible]	0 56	[illegible]	[illegible]	[illegible]	20 79	0 00	0 00	Daily Av Cogen CO lb/h	Daily Av Cog+Neb CO lb/h
10 00	12 45	266 35	3 74	3598 73	709 29	36 25	27 89	-2 04	2 22	0 69	8.23	[illegible]	14 66	9.15	8.18	[illegible]	20 78	0 00	0 00		
11 00	9 55	266 35	3 71	3581 93	705 26	98 04	27 53	0 73	2 23	0 69	11.05	14 31	18 39	12.40	10.65	[illegible]	20 75	0 00	0 00	12 64	12.64
12 00	9 45	266 35	3 71	3568 16	705 34	99 24	27 74	0 72	2 24	0 69	10.92	14 27	18 60	11.81	10.47	9.77	20 72	0 00	0 00	Stack NOx analyzer	
13 00	10 64	266 35	3 74	3589 47	705 52	94 52	25 87	0 70	2 25	0 70	10.87	14 39	19 68	12.58	10.37	10.49	20 70	0 00	0 00	zero value	0 03
14 00	9 91	266 18	3 72	3582 65	705 78	91 90	24 34	0 69	2 27	0 70	10.86	14 41	19 73	12.51	10.43	10.42	20 69	0 00	0 00	zero drift %	0 03
15 00	10 25	266 69	3 71	3568 49	705 61	91 07	24 10	0 68	2 29	0 70	10.92	14 39	20 00	12.78	10.42	10.41	20 70	0 00	0 00	span value	82 59
16 00	9 71	266 35	3 74	3597 42	704 64	90 49	23 82	0 68	2 28	0 70	10.95	14 41	20 15	12.78	10.49	10.45	20 70	0 00	0 00	span drift %	1 13
17 00	9 78	266 27	3 75	3613 34	703 26	90 31	23 68	0 68	2 26	0 70	10.95	14 44	20 42	12.92	10.50	10.47	20 70	0 00	0 00		
18 00	9 55	266 06	3 77	3630 57	701 98	90 70	23 85	0 69	2 25	0 70	10.94	14 45	20 54	12.91	10.49	10.48	20 70	0 00	0 00		
19 00	11 83	265 84	3 76	3623 66	703 25	89 44	23 37	0 67	2 26	0 70	10.96	14 43	21 32	13.57	10.45	10.48	20 71	0 00	0 00	Stack CO Analyzer	
20 00	13 89	265 93	3 76	3612 40	707 33	87 64	22 74	0 67	2 25	0 70	11.08	14 39	21 86	14.07	10.45	10.48	20 74	0 00	0 00	zero value	-1 41
21 00	13 86	265 40	3 78	3620 20	707 00	86 93	22 45	0 65	2 25	0 70	11.07	14 41	22 19	14.31	10.49	10.46	20 75	0 00	0 00	zero drift %	-1 41
22 00	14 46	264 64	3 77	3633 49	707 59	86 67	22 32	0 65	2 24	0 70	11 10	14 40	22 30	14.32	10.52	10.46	20 73	0 00	0 00	span value	90 72
23 00	16 38	265 86	3 78	3644 77	710 16	86 58	22 35	0 65	2 25	0 70	11 18	14 38	21 96	14.33	10.50	10.50	20 73	0 00	0 00	span drift %	-0 48
9 09	14 93	265 49	3 79	3647 41	710 35	87 24	22 43	0 66	2 23	0 69	11 14	14 40	22 30	14.39	10.48	10.50	20 73	0 00	0 00		
1 09	13 25	262 59	3 00	2846 01	703 17	88 40	22 08	0 66	2 20	0 69	10.94	14 50	22 37	14.12	10.49	10.49	20 75	0 00	0 00	Stack O2 Analyzer	
2 09	6 84	263 44	3 05	2978 38	693 69	86 73	22 14	0 68	2 21	0 69	10.84	14 61	21 67	13.78	10.52	10.50	20 78	0 00	0 00	span value	21 04
3 00	12 61	266 18	3 78	3642 24	700 30	87 25	22 46	0 66	2 29	0 70	11.05	14 49	22 73	14.58	10.48	10.50	20 75	0 00	0 00	span drift %	0 56
4 00	9 18	265 86	0 79	705 49	697 02	86 30	22 17	0 67	2 23	0 69	10.96	14 60	22 01	13.90	10.44	10.48	20 77	0 00	0 00	zero value	-0 49
5 00	9 26	261 49	0 00	0 00	691 68	86 59	21 97	0 67	2 16	0 68	10.87	14 67	22 19	13.77	10.45	10.46	20 78	0 00	0 00	zero drift %	-0 49
6 00	6 94	258 33	0 00	0 00	688 51	86 37	21 86	0 68	2 09	0 67	10.49	14 75	23 03	14.01	10.38	10.42	20 75	0 00	0 00		
7 00	2 78	217 10	0 00	0 00	653 69	70 16	14 63	0 66	1 73	0 65	8.59	15 33	34 44	16.99	10.30	10.38	20 76	0 00	0 00	Nebraska Gas	0

Comments: CEMS started recording O2 data on 12/28/19 at 9 25 AM Auto calibration passed on 12/28/19 at 10 25 AM

PRINT TIME: 12/3[illegible]'9 10:26 AM
NOTE: This document is valid f[illegible] ONE week after print time


RS_NOX PPM
931FIC1173_MV
921-2015 WQ
921-2015 FQG
931AIC1111C CO
12/26/2019 7:00:00 AM
12/26/2019 1:14:05 PM


782-SEQ9
PLPR2 CLAMSHELL SEQ
Step Alm
11:12:30
RSMT 4-20MA ROSEMOUNT CEMS VALUES
36MF
Time Scope: 1 day
150
100
25.0
113
75
18.8
75
50
12.5
38
25
6.3
0
0
0.0
100
75
50
25
0
08:00
2019-12-28
16:00
00:00
2019-12-29
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 19:48 2019-12-28 87.00 96.66 PPM
931AIC1111C.CO B&W BLR STACK RAW CO MV Mom 19:48 2019-12-28 24.59 23.09 PPM
931AIC1111B.O2 B&W BLR RAW O2% MV Mean 19:48 2019-12-28 14.42 13.92 %
931AIC1111D.NOX B&W BLR STACK NOX MV Mean 19:48 2019-12-28 11.47 12.34 PPM
931-AIC-1111.INCAL RSMT CEMS IN CAL MV Mom --- 0
931-aic-1111.trb RSMT CEMS TROUBLE MV Mom --- 1
Current Time
Save Trend...
Hide Table
30 minutes
1 hour
8 hours
10 days
Positioning...
Trace Control...
Analyze...
Trace Config...
Extended Config...
ABB

OFFICIAL DAILY COGENERATION LOG

NEW-INDY CONTAINERBOARD OXNARD MILL

DATE: 12/28/19

NIGHT SHIFT OPERATOR NAME: BENAVIDES

DAY SHIFT OPERATOR NAME: Brad S. / Carlos N.

STEAM & WATER READINGS

	PERMEATE H_2O	CONCENTRATE H_2O	LP	HP
CURRENT	1673945	9709578	215743	1935
PREVIOUS	1660773	9703795	220991	2082

NEW DEMIN TRAILER YES ☐ NO ☐ TANK 1 % TANK 2 %

AMMONIA DELIVERY YES ☐ NO ☐ % FULL: 43/44

CHILLER HOURS: 104,584:45:22

PACESETTER (ON) / OFF ALARM: RED ☐ YELLOW ☑ GREEN ☐

TURBINE

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
FMV	%	50.12	52.00	52.06	51.94	52.12	51.88	52.06	52.12	52.38	49.88	52.06	48.31
Inlet Temp	°F	53	58	64	65	62	60	58	57	57	55	55	53
Humidity	%	24.7	18.5	13.5	24.7	24.7	27.7	31.7	33.5	32.7	31.7	24.8	25.9
Vibration (Max)	MILS	0.75	0.78	0.80	0.83	0.80	0.80	.73	.14	.75	.78	.12	.12
Steam Injection	#/SEC	2.19	2.19	2.14	2.25	2.25	2.31	2.25	2.25	2.31	2.19	2.31	2.12
Turbine L.O. Level	%	100	100	100	100	100	100	100	100	100	100	100	100
T54	°F	1468	1485	1502	1494	1494	1490	1484	1480	1476	1467	1472	1453

BATTERIES 128.5 V HP RECOUPE FAL — BATTERIES 128.5 V HP RECOUPE FAL

AIR INLET DIFF 2.2 IN/H10 HP RECOUPE FAR — AIR INLET DIFF 2.1 IN/H10 HP RECOUPE FAR

L.O. DIFFERENTIAL 6 PSI HP RECOUPE AFT — L.O. DIFFERENTIAL 6 PSI HP RECOUPE AFT

ONLINE TURBINE WATER WASH YES ☐ NO ☐ CRANK WASH YES ☐ NO ☐ > GALLONS CONDUCTIVITY MHOS — BOILER FEED WATER PUMP OPERATION NO.1 PUMP YES ☑ NO ☐ NO.2 PUMP YES ☐ NO ☑

GENERATOR

		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	°F	151	151	151	152	153	153	153	153	152	152	151	151
L.O. Supply	°F	120	120	120	122	122	122	122	122	122	122	122	121
Gen. Vibration (Max)	IPS	0.34	0.33	0.32	0.34	0.34	0.33	.34	.33	.33	.33	.38	.34
Tie Line	MW	11.42	11.42	11.45	11.30	11.19	11.38	11.30	11.34	11.20	11.36	11.33	11.34
Generator Voltage	KV	12.82	12.82	12.82	12.81	12.81	12.81	13.00	13.00	13.00	13.01	13.01	13.01

GEN. 1100 AMPS GEN.VARS 4.5 MEGA VARS — GEN. 1125 AMPS GEN.VARS 5.06 MEGA VARS

FIELD 195 AMPS FIELD VOLTS 170 V — FIELD 195 AMPS FIELD VOLTS 175

COOLING TWR INLET 74 F COOLING TWR OUTLET 68 F — COOLING TWR INLET F COOLING TWR OUTLET F

COGEN BOILER

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
450 Header Temp	°F	710	710	711	710	710	710	710	710	710	710	700	710
HP Drum Level	IN	1.0	0.2	0.0	0.2	-0.3	-0.1	0.2	0.1	1.1	2.4	1.7	2.0
LP Drum Level	IN	0.0	-0.2	-0.1	0.0	-0.1	0.0	0.1	0.0	0.0	0.4	0.0	0.4
HP Drum Pressure	PSI	475	475	475	475	475	475	475	475	475	468	468	468
LP Drum Pressure	PSI	154	154	154	154	154	154	154	154	154	153	153	153
CO	PPM	4.1	3.5	19.2	19.6	20.7	20.6	21.3	21.3	22.2	22.1	22.2	22.6
NOx	PPM	10.6	9.4	10.9	10.4	10.7	10.4	10.7	10.3	10.5	10.6	10.5	10.3
O_2	%	7.61	5.23	14.31	14.45	14.41	14.40	14.38	14.37	14.31	14.60	14.39	14.71
Hot Well Level	%	151	131	143	163	147	139	161	145	145	138	147	102

		8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	2:00	4:00	6:00
450 Header Temp	°F	709	710	710	710	710	709	710	710	710	710	710	709
HP Drum Level	IN	-1.6	0.2	0.2	0.3	0.0	0.0	0.2	-0.1	1.8	1.0	0.0	2.4
LP Drum Level	IN	-0.1	-0.1	0.0	-0.1	0.0	0.0	0.1	0.0	-0.1	0.0	-0.2	1.6
HP Drum Pressure	PSI	475	475	475	475	475	475	475	475	475	468	466	461
LP Drum Pressure	PSI	154	154	154	154	154	154	154	154	154	152	155	153
CO	PPM	18.5	10.8	18.9	19.8	20.0	20.8	21.8	22.4	22.8	22.5	22.7	42.7
NOx	PPM	7.5	10.7	10.6	10.3	10.4	10.4	10.5	10.6	10.4	10.6	10.4	10.5
O_2	%	7.51	14.03	14.43	14.37	14.42	14.57	14.51	14.41	14.54	14.40	14.67	15.67
Hot Well Level	%	152	127	149	154	139	154	152	142	153	134	136	93

AUTO (ON) / OFF

1150 SET POINT 451 1103 B SET POINT 446 — 1150 SET POINT 451 1103 B SET POINT 446

DUCT BURNER S/P 444 — DUCT BURNER MANUAL S.P. 444

COMPRESSORS

		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
Filter Separator	PSI	219	217	219	221	221	221	219	219	221	221	221	221
Gas Receiver	PSI	404	407	405	405	405	405	404	405	404	404	406	405

Crankcase Oil Level % 100 — Crankcase Oil Level %

Frame Oil Pressure (25–50) PSI 26.55 — Frame Oil Pressure (25–50) PSI

Temp. cooling °F T1 T2 52.5 — Temp. cooling °F T1 T2

GAS & ELECTRIC READINGS

	@ SCG LP	0591620 TURBINE	MAXON	DUCT BURNER	MEGAWATTS
CURRENT	215743	6593660	7045990	277759	274632
PREVIOUS	057/750	6226800	30880546	270974	26883

BOILER TEST RESULTS

	DAY SHIFT	NIGHT SHIFT
BOILER FEEDWATER		
pH 8.75– 9.5	9.8	
Conductivity <5mmhos	6.97	
Silica <20 ppb		
R.O.		
Feed TDS<1000 ppm	938.1	
Permeate TDS<10 ppm	14.15	
pH (Feed 7.5)	6.91	
CONDENSATE		
HP-pH 8.5 -9.5	8.41	
Conductivity <20mmhos	2.81	
LP-pH 8.5-9.5	7.95	
Conductivity <20mmhos	4.76	
HP		
pH 9.5 – 10.5	10.24	
Conductivity 75–150	371.7	
Phosphate 5–15 ppm		
Silica <5 ppm		
Iron ppm		
LP		
pH 9.5 – 10.5	NO FLOW	
Conductivity 75 – 150	NO FLOW	
Phosphate 5–15 ppm		
Silica <5 ppm		
Iron ppm		
MIXED BED		
pH 6.0 – 7.5	7.12	
Conductivity <1mmhos	.52	
Silica <10 ppb		
HP Steam Test pH	7.63	
Silica <20 ppb		
SOFTENER		
Hardness <1.0 ppm		
Running (1 or 2)		
STEAM TEST		
Silica <20 ppb		
PV NO.2	pH 8.31 Cond. 6.64	
HP BLOW DOWN	DAY SHIFT:	
TIME:	07:51	
	NORTH TANK	SOUTH TANK
SALT	3 FEET	1 FEET

NOTES: Bad Reading on the Stack-Gary E. Fixed it now is working normal. Regen @ 08:20.

1930 WORKED ON CPRM MIXER 2½ HRS

0550 P/M DOWN WRAPPED UP

0603 2ND FIBER DOWN

ACAD# 000-2011 – REV.1.1

New-Indy Oxnard Environmental Incident Report

Shaded section to be completed by the EMR

Name of Incident Invalid O2 Data	Incident Date 12/27/19
Exact Location Incident Cogen	
Reported By: Zhen Han	Estimated Start and Stop Times of Incident: 12/27 4:40 PM – 12/28 10:25 AM
Possible Cause: SCE Power Outage	

Incident Type:
- ☐ Spill Internal
- ☐ Spill External
- ☐ Improper Waste Disposal
- ☐ Near miss or below spill release guidelines
- X Air Emission
- ☐ Other_____

Released To
- ☐ Storm Water System
- ☐ Process Sewer
- ☐ Ground (External)
- ☐ Near Miss
- ☐ Other_____
- ☐ Secondary Containment
- X Air
- ☐ Ground (Inside Mill Property)

Detailed Description of Event:
On 12/27 after configuring and repairing Inlet NOx Analyzer, which was damaged by the power outage, we discovered the O2 module was not reading correctly. After extensive troubleshooting including replacing the Ammonia scrubber decision was made to change the O2 module on 12/28. Ammonia valve was put in manual to control raw NOx to approx. 9 ppm. After correcting O2 module, it was discovered program was corrupted for auto calibration. Program was corrected and tested. The 12/28 10:05 am auto calibration passed and CEMS was put back online.

(if required use additional paper and attach)

Estimated Amount Released	pH	CONSISTENCY (%)	Estimated Monetary Loss	No. of Emergency Sandbags used	After event, Sandbags Removed/Disposed
☐ _____ Gallons ☐ _____Pounds ☐ Other_____				☐ _____ Bags ☐ N/A	☐ Yes ☐ No

List Any External Emergency Clean Up Personnel Contacted N/A	List Any External Agencies Contacted *(Agency, person and time of call.)* *VCAPCD on 12/27/19 at 8:35 PM*
List Hueneme Personnel Contacted *(Foreman, Mill Manager, etc.)* Victor Kumpera	Any Acute or Chronic Health Risks *(refer to MSDS)* N/A

Describe Any Emergency Response Actions
Troubleshooting began as soon as failure was observed and APCD was contacted.

Suggestions to Prevent Reoccurrence	Estimated Completion Date
1. Purchase or repair spare O2 module	1. 1/15/20
2.	2.
3.	3.
4.	4.

Root Cause after investigation: SCE power loss causing power surge.	Severity Level *(level 1 and 2 must be tracked through SHIMS)* ☐ 1 ☐ 2 ☐ 3 ☐ 4
Investigated By: Gary Uribe	Investigated Date 12/27-28/19

Follow Up	By When	Completion Date	By Whom

Issued by	Reviewed by	Approved by
12/31/19		For Rudy while on vacation
Department Manager	Technical Superintendent 12/21/2019	Mill Manager 12/31/19

Print Time: 12/31/2019 11:33:38 AM

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

AIRx Testing Services, Inc.

LM2500 – PK GENERAL ELECTRIC
GAS TURBINE
ANNUAL COMPLIANCE and RATA EMISSIONS TESTING
VCAPCD PTO #0157
March 3, 2020

Prepared For:
NEW INDY OXNARD
5936 Perkins Road,
Oxnard, CA 93033

Attn: Robyn Lebrilla

Facility Location:
NEW INDY OXNARD
5936 Perkins Road,
Oxnard, CA 93033

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

Attn: Ed Swede

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

Job No.: 23022

Lab No.: 220-017

Ken Kennepohl
Test Team Leader

Reviewed by:
Tom Porter

Submitted
March 31, 2020

Table of Contents

SUMMARY OF SOURCE TEST RESULTS

New Indy
Gas Turbine
Rosemount CEM
3/3/2020

CONSTITUENTS	Run 1	Run 2	Run 3	*Average*	*Allowable*
NOx, ppmv:	11.4	11.3	11.2	*11.3*	-
NOx ppmv @ 15 % O2:	10.5	10.4	10.3	*10.4*	*12*
NOx, lb/hr:	11.69	11.63	11.61	*11.64*	-
NOx, lb/MMBtu	0.0013	0.0013	0.0013	*0.0013*	-
CO, ppmv:	21.2	23.0	23.3	*22.5*	-
CO, ppmv @ 15% O2:	19.4	21.2	21.4	*20.7*	-
CO, lb/hr:	13.17	14.40	14.70	*14.09*	*59.65*
CO, lb/MMBtu	0.0015	0.0017	0.0017	*0.0016*	-
O2, %:	14.5	14.5	14.5	*14.5*	-
NH3, ppmv:	1.5	1.7	1.5	*1.6*	-
NH3, ppmv @ 15% O2:	1.4	1.6	1.3	*1.4*	*20*
Stack Flow:	142855	143642	144504	*143667*	-
Ammonia Injection Rate, lb/hr (avg):	26.42	23.11	23.40	*24.31*	-
Fuel Usage (Turbine & Duct), dscfm:	4804.9	4810.1	4862.7	*4825.9*	-
Turbine Load, MWh (avg):	24.87	25.06	25.30	*25.08*	-

New Indy
Turbine
3/3/2020

CEMS RATA
Calculations

Run	AIRx Testing - Reference Method		
	NOx ppmv @ 15% O2	O2 Dry %	CO ppmv @ 15% O2
1	10.7	14.5	19.2
2	10.4	14.5	19.0
3	10.4	14.5	20.3
4	10.2	14.5	20.5
5	10.4	14.5	21.4
6	10.6	14.5	21.5
7	10.6	14.5	21.6
8	10.4	14.6	21.6
9	10.1	14.4	21.0

Run	New Indy		CEMS
	NOx ppmv @ 15%	O2 Dry %	CO ppmv @ 15%
1	10.8	14.0	19.3
2	10.5	14.1	19.4
3	10.5	14.1	20.6
4	10.2	14.0	20.5
5	10.5	14.1	21.3
6	10.6	14.1	21.3
7	10.6	14.1	21.5
8	10.5	14.0	21.2
9	10.4	14.0	20.8

Run	Reference Method - CEM, Difference		
	NOx ppmv @ 15%	O2 Dry %	CO ppmv @ 15%
1	-0.1	0.4	-0.1
2	0.0	0.4	-0.4
3	0.0	0.4	-0.2
4	0.0	0.4	0.0
5	-0.1	0.4	0.1
6	0.0	0.4	0.3
7	0.0	0.5	0.1
8	-0.1	0.5	0.4
9	-0.3	0.4	0.3

Arithmetic Mean, d	-0.1	0.4	0.1
Standard Deviation, Sd	0.1	0.0	0.3
Confidence Coefficient, CC	0.1	0.0	0.2
Avg Reference Method, RM	10.4	14.5	20.7
Relative Accuracy, RA	**1.3**	**3.3**	**1.2**

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

New Indy
Turbine
3/3/2020

CEM Bias Adjustment Factor (BAF) Calculations Summary

Raw NOx, ppmv	
Average Difference, RM-CEM; d	-0.1
Std Deviation; Sdev	0.1
T' Value	2.306
Number of Runs; n	9
Conf. Coefficient; CC	0.07
|CC|-|d| ; If > zero, No BAF Required	0.008
Mean CEM Results, CEM	10.5
Raw NOx ppm, BAF	1.006

Stack Flow, DSCFM	
Average Difference, RM-CEM; d	0
Std Deviation; Sdev	0
T' Value	2.306
Number of Runs; n	9
Conf. Coefficient; CC	0
|CC|-|d| ; If > zero, No BAF Required	0
Mean CEM Results, CEM	21
Flow DSCFM, BAF	Not req'd; CEMS high

NOTES: 1. Calculation of BAF based on SCAQMD protocol for Rule 2012, Volume 3, SCAQMD Rules and Regulations XVIII - XXX, Sept 9, 1994; Att.B
2. If |NOx ppm diff.| < 1 ppm, then the NOx ppm BAF is not reqd.
3. If (RM - CEM avg diff.) < zero, the CEM is biased high; no BAF is reqd.
4. BAF = 1+(|d|/CEM) where 'd' refers to the average RM-CEM difference, and CEM refers to the average CEM results.

INTRODUCTION

1.0 INTRODUCTION

On March 3, 2020 AIRx Testing Services, Inc. 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 NOx, 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 (KWh).

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 NOx 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 a 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 was provided to the test team. The CEM data monitored NOx in ppmv and CO ppmv concentrations corrected to 15% oxygen and oxygen concentrations. NOx, CO and O2 response times were conducted prior to the start of the testing.

CONTINUOUS MONITORS: NOx, 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 NOx, CO and O2 was performed in accordance with CARB Method 100 and EPA Method 20. NOx 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 NOx and O2 RM analyzers were operated on the 25 ppmv and 25% scales, respectively. The CO monitor was setup and calibrated for operation on the 100 ppmv scale.

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

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, Three (3) 96 minute runs 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

Reviewed by:

Tom Porter
Vice President of Testing Services

CALCULATIONS

CONTINUOUS EMISSIONS MONITORING - CARB METHOD 1-100

Client : New Indy
Site : Oxnard
Unit : Turbine

Date : 3/3/2020
Job# : 23022
Lab# : 219-012

FIELD DATA

Test Length 96 mins. Points 1 Minute

Standard Temperature: 68 ° *F*

Drift Corrected Emissions Data

	Run #1		*Run #2*		*Run #3*	
Outlet						
NOx	11.43	ppm	11.31	ppm	11.23	ppm
O2	14.47	%	14.50	%	14.47	%
CO	21.16	ppm	23.01	ppm	23.35	ppm

Process Data

Exhaust Flow	142855	dscfm	143642	dscfm	144504	dscfm
F-Factor	8710	dscf/MMBtu	8710	dscf/MMBtu	8710	dscf/MMBtu

Equations used;
Tfact = (10^-6*(29.92/(21.85*(460+Tstd)))*60
lb/hr = [ppmv] * Q * MW * (Tfact)
lb/MM Btu = [lb/hr]/[MMBtu/hr]
ppmv @ 15% O2 = ppm * 5.9(20.9/(20.9-O2))
MW NOx = 46; CO = 28

CALCULATED EMISSIONS

NOx	10.5	ppm @ 15% O2	10.4	ppm @ 15% O2	10.3	ppm @ 15% O2
	11.69	lb/hr	11.63	lb/hr	11.61	lb/hr
	0.0013	lb/MMBtu	0.0013	lb/MMBtu	0.0013	lb/MMBtu
CO	19.4	ppm @ 15% O2	21.2	ppm @ 15% O2	21.4	ppm @ 15% O2
	13.17	lb/hr	14.40	lb/hr	14.70	lb/hr
	0.0015	lb/MMBtu	0.0017	lb/MMBtu	0.0017	lb/MMBtu

Compliance Bias Adjustment

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

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	11.44	12.2	0.0	0.0	0.0	12.2	12.2	12.2	**11.43**
O2	14.46	12.1	0.0	0.0	0.0	12.1	12.1	12.1	**14.47**
CO	21.22	40.0	0.1	0.0	0.0	40.2	40.0	40.1	**21.16**

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	11.32	12.2	0.0	0.0	0.0	12.2	12.2	12.2	**11.31**
O2	14.48	12.1	0.0	0.0	0.0	12.1	12.1	12.1	**14.50**
CO	23.01	40.0	0.0	0.0	0.0	40.0	40.0	40.0	**23.01**

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	11.24	12.2	0.0	0.0	0.0	12.2	12.2	12.2	**11.23**
O2	14.46	12.1	0.0	0.0	0.0	12.1	12.1	12.1	**14.47**
CO	23.33	40.0	0.0	0.0	0.0	40.0	39.9	40.0	**23.35**

RATA Bias Adjustment

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

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	11.70	12.2	0.0	0.0	0.0	12.2	12.2	12.2	**11.71**
O2	14.44	12.1	0.0	0.0	0.0	12.1	12.1	12.1	**14.45**
CO	20.99	40.0	0.0	0.0	0.0	40.0	39.9	40.0	**21.00**

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	11.36	12.2	0.0	0.0	0.0	12.2	12.2	12.2	**11.36**
O2	14.45	12.1	0.0	0.0	0.0	12.1	12.1	12.1	**14.46**
CO	20.73	40.0	0.0	0.0	0.0	40.0	39.9	40.0	**20.74**

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	11.24	12.2	0.0	0.0	0.0	12.2	12.2	12.2	**11.25**
O2	14.52	12.1	0.0	0.0	0.0	12.1	12.1	12.1	**14.53**
CO	21.97	40.0	0.0	0.0	0.0	40.0	40.0	40.0	**21.96**

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	11.09	12.2	0.0	0.0	0.0	12.2	12.2	12.2	**11.10**
O2	14.47	12.1	0.0	0.0	0.0	12.1	12.1	12.1	**14.48**
CO	22.31	40.0	0.0	0.0	0.0	40.0	40.0	40.0	**22.30**

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	11.36	12.2	0.0	0.0	0.0	12.2	12.2	12.2	**11.36**
O2	14.48	12.1	0.0	0.0	0.0	12.1	12.1	12.1	**14.48**
CO	23.34	40.0	0.0	0.0	0.0	40.0	40.0	40.0	**23.33**

RATA Bias Adjustment

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

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	11.54	12.2	0.0	0.0	0.0	12.2	12.2	12.2	**11.54**
O2	14.50	12.1	0.0	0.0	0.0	12.1	12.1	12.1	**14.50**
CO	23.39	40.0	0.0	0.0	0.0	40.0	40.0	40.0	**23.38**

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	11.42	12.2	0.0	0.0	0.01	12.2	12.1	12.1	**11.46**
O2	14.50	12.1	0.0	0.0	0.01	12.1	12.1	12.1	**14.51**
CO	23.54	40.0	0.0	0.0	0.02	40.0	40.3	40.2	**23.44**

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	11.14	12.2	0.0	0.0	0.0	12.2	12.0	12.1	**11.21**
O2	14.46	12.1	0.0	0.0	0.0	12.1	12.0	12.0	**14.56**
CO	23.34	40.0	0.0	0.0	0.0	40.0	40.3	40.2	**23.25**

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	11.13	12.2	0.0	0.0	0.0	12.2	12.2	12.2	**11.12**
O2	14.41	12.1	0.0	0.0	0.0	12.1	12.1	12.1	**14.42**
CO	23.13	40.0	0.0	0.0	0.0	40.0	40.1	40.1	**23.09**

FIELD DATA & CALCULATIONS SUMMARY

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

Date: **3/3/2020**
Type: ***T std = 68 °F***
Run: **1-NH3**

Vm	Metered Sample Gas Volume	**69.587**	**dcf**		
Lp	Avg. Leak Rate	0.002	cf		
Vn	Leak Corrected Sample Gas Volume	69.587	dcf		
Y	Dry Gas Meter Calibration Factor	**1.0108**			
Pbar	Barometric Pressure	**29.97**	**in. Hg**		
del H	Dry Gas Meter Press. Differential, Average	**1.8**	**in. H2O**		
Tm	Dry Gas Meter Temperature, Average	66.6	°F	**526.6**	**°R**
Vm(std)	Sample Gas Volume	**70.9534**	**dscf**		
O2	Oxygen, Dry	**14.5**	**%**		
Theta	Sampling Time	**96**	**min.**		

CALCULATED EMISSION RESULTS

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

Date: **3/3/2020**
Type: ***T std = 68 °F***
Run: **1-NH3**

AMMONIA AS NH3

Ws	Ammonia Weight	**0.0022**	g
Cs	Ammonia Emissions	**0.00048**	grain/dscf
	Ammonia Concentration	**1.5**	ppmv
	Ammonia Concentration	**1.4**	ppmv @ 15% O2

FIELD DATA & CALCULATIONS SUMMARY

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

Date: **3/3/2020**
Type: ***T std = 68 °F***
Run: **2-NH3**

Vm	Metered Sample Gas Volume	**72.022**	**dcf**		
Lp	Avg. Leak Rate	0.002	cf		
Vn	Leak Corrected Sample Gas Volume	72.022	dcf		
Y	Dry Gas Meter Calibration Factor	**1.0108**			
Pbar	Barometric Pressure	**29.99**	**in. Hg**		
del H	Dry Gas Meter Press. Differential, Average	**1.8**	**in. H2O**		
Tm	Dry Gas Meter Temperature, Average	72.7	°F	**532.7**	**°R**
Vm(std)	Sample Gas Volume	**72.6435**	**dscf**		
O2	Oxygen, Dry	**14.5**	**%**		
Theta	Sampling Time	**96**	**min.**		

CALCULATED EMISSION RESULTS

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

Date: **3/3/2020**
Type: ***T std = 68 °F***
Run: **2-NH3**

AMMONIA AS NH3

Ws	Ammonia Weight	**0.00253**	g
Cs	Ammonia Emissions	**0.00054**	grain/dscf
	Ammonia Concentration	**1.7**	ppmv
	Ammonia Concentration	**1.6**	ppmv @ 15% O2

FIELD DATA & CALCULATIONS SUMMARY

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

Date: **3/3/2020**
Type: ***T std = 68 °F***
Run: **3-NH3**

Vm	Metered Sample Gas Volume	**72.145**	**dcf**		
Lp	Avg. Leak Rate	0.001	cf		
Vn	Leak Corrected Sample Gas Volume	72.145	dcf		
Y	Dry Gas Meter Calibration Factor	**1.0108**			
Pbar	Barometric Pressure	**29.97**	**in. Hg**		
del H	Dry Gas Meter Press. Differential, Average	**1.8**	**in. H2O**		
Tm	Dry Gas Meter Temperature, Average	77.1	°F	**537.1**	**°R**
Vm(std)	Sample Gas Volume	**72.1167**	**dscf**		
O2	Oxygen, Dry	**14.5**	**%**		
Theta	Sampling Time	**96**	**min.**		

CALCULATED EMISSION RESULTS

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

Date: **3/3/2020**
Type: ***T std = 68 °F***
Run: **3-NH3**

AMMONIA AS NH3

Ws	Ammonia Weight	**0.00215**	g
Cs	Ammonia Emissions	**0.00046**	grain/dscf
	Ammonia Concentration	**1.5**	ppmv
	Ammonia Concentration	**1.3**	ppmv @ 15% O2

"F" FACTOR EXHAUST GAS FLOWRATE CALCULATION

Client : New Indy
Site : Oxnard
Unit : Turbine

Date : 3/3/2020
Job# : 23022
Lab# : 219-012

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

Standard Temperature, T std: 68 deg. F

	Run 1	***Run 2***	***Run 3***
Oxygen, % (avg)	14.5	14.5	14.5
Fuel Usage, dscfm (avg)	4804.9	4810.1	4862.7
MMBTU/min	5.0452	5.0506	5.1058
Flowrate ("F" Factor), dscfm	142855	143642	144504

formulae:
MMBTU/min = (Fuel Usage * 1050 Btu/ft3)/10^6
Flowrate ("F" Factor) = "F" Factor * MMBTU/min * (20.0/(20.9-O2))

LABORATORY ANALYSIS

AIRX TESTING SERVICES Inc.

AMMONIA ANALYSIS
BAAQMD Method ST-1B

Client: New Indy
Site: Oxnard
Unit: Turbine

Analysis Date: 3/3/2020
Lab: 220-017

	Sample Volume (ml)	Aliquot Volume (ml)	Reading ug/ml	Dilution
Run#: R1	440	49	4.09	1
	Total NH3 mg/sample		2.20	
	Sample Volume (ml)	Aliquot Volume (ml)	Reading ug/ml	
Run#: R-2	361	49	5.70	1
	Total NH3 mg/sample		2.53	
	Sample Volume (ml)	Aliquot Volume (ml)	Reading ug/ml	
Run#: R-3	369	49	4.75	1
	Total NH3 mg/sample		2.15	
	Sample Volume (ml)	Aliquot Volume (ml)	Reading	
Run #: R1 (Duplicate)	440	49	4.15	1
	Total NH3 mg/sample		2.23	
	Sample Volume (ml)	Aliquot Volume (ml)	Reading ug/ml	
0.1 N HCL Blank	200	49	0.05	1
	Sample Volume (ml)	Aliquot Volume (ml)	Reading ug/ml	
Run #: R-1	440	48	5.19	1

Spike (1 ug/ml) Theoretical Value = 5.00 (ug/ml)
% Recovery 103.8 %

Total NH3 mg/sample = (ug/ml-HCl blank)*60.71*Dilution*Sample Vol/(Aliquot*1000)

Analyst: Ferodie Torres

AIRX TESTING SERVICES Inc.

AMMONIA ANALYSIS
BAAQMD Method ST-1B

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

Analysis Date: 03.04.20
Lab: 220

	Sample Volume (ml)	Aliquot Volume (ml)	Reading ug/ml	Dilution
Run#: R1	440	49	4.09	1
Run#: R-2	361	49	5.70	1
Run#: R-3	369	49	4.75	1
Run #: R- 1 (Duplicate)	440	49	4.15	1
0.1 N HCL Blank	200	49	0.05	1
Run #: R- 1	440	48	~~5.09~~	1
Spike (1 ug/ml)	Theoretical Value =		5.00	(ug/ml)

Analyst: [signature] Date: 03.04.20

CAL: 1.0 = ~~4.09~~ 1.01
~~5~~.0 = 5.05
~~10~~.0 = 10.3
(STANDARD) = READING

FIELD DATA & STRIP CHARTS

EMISSIONS TEST - CARB 100

Date: 3/3/2020

**** Test Information ****

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

**** Personnel ****

AIRx: KK/WH
Client: RL
APCD: -

Run Length:	96/32	Inlet ( )	Outlet (X)	Fuel ( )	HC ( )	
No. Points:	96/32	S.T. (X)	E.I. ( )	Data ( )	H2S ( )	NH3 ( )

	Time	Baro.	Temp.	Weather.
Arrive:	6:00 AM	29.90	54	Clear
Depart:	2:00 PM	29.86	60	Clear

**** Instrument Information ****

Instrument	"On"	Unit#	Make/Model		
O2:	1	12	Servomex		
CO:	1	3	API 300EM		
NOx:	1	3	API 200EH		
Recorder:			Soltech	10	cm/hr

**** Calibration Information ****

	Units	Zero	Span	Range	Gas Cyl.#	Gas Flow
O2:	%	0	12.1	25	SA17161	0.8
O2:	%	0	19.9	25	ALM024672	0.8
CO:	ppmv	0	40.0	100	CC272657	1
CO:	ppmv	0	81.3	100	EB0020337	1
NOx:	ppmv	0	12.2	25	CC99748	1
NOx:	ppmv	0	19.8	25	CC27837	1
NO2:	ppmv	0	21.4	25	CC121480	1

**** Recorder Information ****

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

CLIENT:	New Indy	JOB#	219-012
PLANT:	Oxnard	RUN#	Compliance R1
DATE:	3/3/2020	RUN START:	8:12 AM
ENGINEER:	KK/WH		

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
11.44	**21.22**	**14.46**	**10.5**	**19.4**	**Averages**
11.51	21.87	14.46	10.6	20.1	8:12
11.67	21.82	14.45	10.7	20.0	8:13
11.68	21.70	14.41	10.6	19.7	8:14
11.78	21.61	14.45	10.8	19.8	8:15
12.01	21.32	14.44	11.0	19.5	8:16
12.19	21.31	14.43	11.1	19.4	8:17
11.98	21.30	14.44	10.9	19.4	8:18
11.87	21.21	14.44	10.8	19.4	8:19
11.86	21.12	14.44	10.8	19.3	8:20
11.82	21.16	14.44	10.8	19.3	8:21
11.72	21.16	14.44	10.7	19.3	8:22
11.69	21.10	14.45	10.7	19.3	8:23
11.77	21.19	14.45	10.8	19.4	8:24
11.88	21.21	14.46	10.9	19.4	8:25
11.92	21.17	14.46	10.9	19.4	8:26
11.82	21.29	14.47	10.8	19.5	8:27
11.84	21.28	14.47	10.9	19.5	8:28
11.81	21.10	14.48	10.9	19.4	8:29
11.70	21.09	14.48	10.8	19.4	8:30
11.60	21.25	14.48	10.7	19.5	8:31
11.57	21.16	14.48	10.6	19.5	8:32
11.45	20.89	14.47	10.5	19.2	8:33
11.46	20.71	14.45	10.5	19.0	8:34
11.59	20.58	14.43	10.6	18.8	8:35
11.65	20.40	14.42	10.6	18.6	8:36
11.60	20.30	14.40	10.5	18.4	8:37
11.55	20.22	14.39	10.5	18.3	8:38
11.57	20.24	14.40	10.5	18.4	8:39
11.57	20.19	14.40	10.5	18.3	8:40
11.56	20.30	14.41	10.5	18.5	8:41
11.53	20.41	14.42	10.5	18.6	8:42
11.50	20.44	14.42	10.5	18.6	8:43
11.54	20.53	14.43	10.5	18.7	8:44
11.48	20.58	14.44	10.5	18.8	8:45
11.36	20.65	14.45	10.4	18.9	8:46
11.36	20.76	14.45	10.4	19.0	8:47
11.38	20.74	14.44	10.4	19.0	8:48
11.36	20.78	14.45	10.4	19.0	8:49
11.34	20.76	14.45	10.4	19.0	8:50
11.36	20.89	14.46	10.4	19.2	8:51
11.30	20.61	14.47	10.4	18.9	8:52
11.33	20.84	14.47	10.4	19.1	8:53
11.36	21.02	14.46	10.4	19.3	8:54
11.27	21.03	14.51	10.4	19.4	8:55
11.03	20.69	14.46	10.1	19.0	8:56
11.14	20.65	14.44	10.2	18.9	8:57
11.44	20.48	14.41	10.4	18.6	8:58
11.48	20.44	14.41	10.4	18.6	8:59
11.66	20.35	14.40	10.6	18.5	9:00
11.70	20.30	14.39	10.6	18.4	9:01
11.74	20.29	14.40	10.7	18.4	9:02
11.72	20.41	14.40	10.7	18.5	9:03
11.62	20.46	14.42	10.6	18.6	9:04
11.53	20.55	14.44	10.5	18.8	9:05
11.50	20.48	14.44	10.5	18.7	9:06
11.44	20.65	14.45	10.5	18.9	9:07
11.46	20.65	14.46	10.5	18.9	9:08
11.38	20.88	14.47	10.4	19.2	9:09
11.31	20.81	14.48	10.4	19.1	9:10
11.30	20.66	14.48	10.4	19.0	9:11
11.32	20.76	14.48	10.4	19.1	9:12
11.33	20.87	14.49	10.4	19.2	9:13
11.19	21.11	14.47	10.3	19.4	9:14
10.96	21.20	14.45	10.0	19.4	9:15
10.89	21.23	14.44	10.0	19.4	9:16
10.91	21.42	14.44	10.0	19.6	9:17
10.89	21.51	14.43	9.9	19.6	9:18
11.01	21.43	14.42	10.0	19.5	9:19
11.14	21.44	14.43	10.2	19.6	9:20
11.20	21.65	14.45	10.2	19.8	9:21
11.16	21.95	14.46	10.2	20.1	9:22
11.16	21.89	14.48	10.3	20.1	9:23
11.08	21.99	14.49	10.2	20.2	9:24
11.00	22.07	14.50	10.1	20.3	9:25
10.96	22.13	14.49	10.1	20.4	9:26
11.03	22.39	14.49	10.2	20.6	9:27
11.04	22.39	14.50	10.2	20.7	9:28
11.06	22.57	14.51	10.2	20.8	9:29
11.07	22.45	14.52	10.2	20.8	9:30
11.08	22.33	14.52	10.2	20.6	9:31
11.15	22.34	14.50	10.3	20.6	9:32
11.14	22.36	14.50	10.3	20.6	9:33
11.10	22.11	14.48	10.2	20.3	9:34
11.28	21.97	14.47	10.4	20.2	9:35
11.48	21.73	14.46	10.5	19.9	9:36
11.43	21.68	14.45	10.5	19.8	9:37
11.39	21.75	14.46	10.4	19.9	9:38
11.46	21.56	14.46	10.5	19.8	9:39
11.51	21.74	14.47	10.6	20.0	9:40
11.49	21.81	14.48	10.6	20.1	9:41
11.42	21.98	14.49	10.5	20.2	9:42
11.44	21.93	14.49	10.5	20.2	9:43
11.47	21.83	14.49	10.6	20.1	9:44
11.57	21.99	14.48	10.6	20.2	9:45
11.46	22.15	14.51	10.6	20.5	9:46
11.41	22.14	14.51	10.5	20.5	9:47
11.34	22.19	14.52	10.5	20.5	9:48

CLIENT:	Ne\ .v	JOB#	219-012
PLANT:	Oxnard	RUN#	Compliance R2
DATE:	3/3/2020	RUN START:	10:00 AM
ENGINEER:	KK/WH		

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
11.32	**23.01**	**14.48**	**10.4**	**21.2**	**Averages**
11.55	19.04	14.54	10.7	17.7	10:00
11.92	21.41	14.48	11.0	19.7	10:01
11.96	21.68	14.48	11.0	19.9	10:02
11.76	21.93	14.49	10.8	20.2	10:03
11.60	21.81	14.50	10.7	20.1	10:04
11.54	21.73	14.51	10.7	20.1	10:05
11.49	21.70	14.51	10.6	20.1	10:06
11.41	21.84	14.51	10.5	20.2	10:07
11.30	21.98	14.51	10.4	20.3	10:08
11.04	22.05	14.49	10.2	20.3	10:09
10.84	22.11	14.48	10.0	20.3	10:10
10.57	22.38	14.48	9.7	20.6	10:11
10.31	22.34	14.47	9.5	20.5	10:12
10.31	22.23	14.46	9.5	20.4	10:13
10.39	22.21	14.45	9.5	20.3	10:14
10.43	22.04	14.42	9.5	20.1	10:15
10.66	21.99	14.41	9.7	20.0	10:16
10.99	22.02	14.41	10.0	20.0	10:17
11.03	22.20	14.42	10.0	20.2	10:18
10.93	22.36	14.44	10.0	20.4	10:19
10.99	22.52	14.45	10.1	20.6	10:20
11.15	22.72	14.46	10.2	20.8	10:21
11.09	23.04	14.45	10.2	21.1	10:22
11.02	23.26	14.48	10.1	21.4	10:23
11.10	23.10	14.48	10.2	21.3	10:24
11.11	23.30	14.49	10.2	21.4	10:25
11.00	23.19	14.49	10.1	21.4	10:26
10.98	22.98	14.49	10.1	21.2	10:27
11.08	23.10	14.49	10.2	21.3	10:28
11.09	23.02	14.48	10.2	21.2	10:29
11.11	22.92	14.46	10.2	21.0	10:30
11.12	23.07	14.46	10.2	21.1	10:31
11.10	23.02	14.46	10.2	21.1	10:32
11.27	22.80	14.44	10.3	20.8	10:33
11.43	22.86	14.44	10.4	20.9	10:34
11.43	22.78	14.44	10.4	20.8	10:35
11.47	22.73	14.45	10.5	20.8	10:36
11.57	22.90	14.46	10.6	21.0	10:37
11.47	23.08	14.47	10.5	21.2	10:38
11.48	23.13	14.48	10.6	21.3	10:39
11.36	23.32	14.49	10.5	21.5	10:40
11.28	23.27	14.49	10.4	21.4	10:41
11.25	23.36	14.50	10.4	21.6	10:42
11.18	23.53	14.50	10.3	21.7	10:43
11.08	23.72	14.51	10.2	21.9	10:44
11.02	23.52	14.51	10.2	21.7	10:45
11.11	23.54	14.50	10.2	21.7	10:46
11.18	23.61	14.50	10.3	21.8	10:47
11.23	23.46	14.49	10.4	21.6	10:48
11.38	23.29	14.48	10.5	21.4	10:49
11.51	23.03	14.47	10.6	21.1	10:50
11.39	23.12	14.46	10.4	21.2	10:51
11.30	22.99	14.45	10.3	21.0	10:52
11.43	22.94	14.43	10.4	20.9	10:53
11.54	23.27	14.45	10.6	21.3	10:54
11.46	23.23	14.45	10.5	21.3	10:55
11.35	23.44	14.46	10.4	21.5	10:56
11.25	23.68	14.49	10.4	21.8	10:57
11.30	23.58	14.49	10.4	21.7	10:58
11.45	23.73	14.50	10.6	21.9	10:59
11.38	23.60	14.51	10.5	21.8	11:00
11.32	23.70	14.51	10.5	21.9	11:01
11.39	23.81	14.51	10.5	22.0	11:02
11.36	23.74	14.52	10.5	21.9	11:03
11.46	23.71	14.52	10.6	21.9	11:04
11.64	23.76	14.52	10.8	22.0	11:05
11.68	23.72	14.52	10.8	21.9	11:06
11.57	23.62	14.52	10.7	21.8	11:07
11.54	23.61	14.51	10.7	21.8	11:08
11.54	23.57	14.50	10.6	21.7	11:09
11.54	23.46	14.49	10.6	21.6	11:10
11.43	23.55	14.48	10.5	21.7	11:11
11.38	23.39	14.48	10.5	21.5	11:12
11.59	23.14	14.48	10.7	21.3	11:13
11.68	23.11	14.48	10.7	21.2	11:14
11.61	23.18	14.48	10.7	21.3	11:15
11.66	23.26	14.49	10.7	21.4	11:16
11.59	23.33	14.50	10.7	21.5	11:17
11.46	23.35	14.50	10.6	21.5	11:18
11.42	23.48	14.51	10.5	21.7	11:19
11.43	23.54	14.51	10.6	21.7	11:20
11.45	23.53	14.52	10.6	21.8	11:21
11.44	23.73	14.51	10.6	21.9	11:22
11.49	23.71	14.51	10.6	21.9	11:23
11.52	23.54	14.52	10.6	21.8	11:24
11.51	23.63	14.52	10.6	21.8	11:25
11.48	23.62	14.52	10.6	21.8	11:26
11.48	23.50	14.51	10.6	21.7	11:27
11.52	23.48	14.50	10.6	21.7	11:28
11.53	23.37	14.49	10.6	21.5	11:29
11.50	23.29	14.48	10.6	21.4	11:30
11.61	23.18	14.47	10.7	21.3	11:31
11.58	23.05	14.47	10.6	21.2	11:32
11.53	23.05	14.47	10.6	21.2	11:33
11.61	23.02	14.48	10.7	21.2	11:34
11.68	22.97	14.49	10.7	21.1	11:35
11.61	23.07	14.49	10.7	21.2	11:36

CLIENT:	Ne ndv	JOB#	219-012
PLANT:	Oxnard	RUN#	Compliance.R3
DATE:	3/3/2020	RUN START:	12:00 PM
ENGINEER:	KK/WH		

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
11.24	**23.33**	**14.46**	**10.3**	**21.4**	**Averages**
11.25	23.46	14.51	10.4	21.7	12:00
11.59	23.54	14.52	10.7	21.8	12:01
11.77	23.52	14.53	10.9	21.8	12:02
11.68	23.65	14.53	10.8	21.9	12:03
11.51	23.64	14.51	10.6	21.8	12:04
11.44	23.68	14.52	10.6	21.9	12:05
11.39	23.82	14.53	10.5	22.1	12:06
11.35	23.82	14.52	10.5	22.0	12:07
11.28	23.75	14.53	10.4	22.0	12:08
11.27	23.60	14.52	10.4	21.8	12:09
11.29	23.63	14.51	10.4	21.8	12:10
11.39	23.45	14.50	10.5	21.6	12:11
11.54	23.27	14.48	10.6	21.4	12:12
11.68	23.25	14.47	10.7	21.4	12:13
11.66	23.20	14.46	10.7	21.3	12:14
11.58	23.21	14.45	10.6	21.2	12:15
11.55	23.16	14.46	10.6	21.2	12:16
11.40	23.18	14.46	10.4	21.2	12:17
11.29	23.37	14.47	10.4	21.4	12:18
11.28	23.40	14.47	10.4	21.5	12:19
11.38	23.66	14.47	10.4	21.7	12:20
11.46	23.65	14.47	10.5	21.7	12:21
11.44	23.60	14.49	10.5	21.7	12:22
11.51	23.65	14.49	10.6	21.8	12:23
11.45	23.82	14.51	10.6	22.0	12:24
11.37	23.65	14.50	10.5	21.8	12:25
11.29	23.76	14.51	10.4	21.9	12:26
11.24	23.81	14.52	10.4	22.0	12:27
11.24	23.82	14.51	10.4	22.0	12:28
11.30	23.69	14.51	10.4	21.9	12:29
11.36	23.47	14.51	10.5	21.7	12:30
11.39	23.37	14.50	10.5	21.5	12:31
11.32	23.34	14.49	10.4	21.5	12:32
11.24	23.24	14.48	10.3	21.3	12:33
11.27	23.25	14.48	10.4	21.4	12:34
11.28	23.06	14.46	10.3	21.1	12:35
11.33	23.08	14.45	10.4	21.1	12:36
11.30	23.07	14.44	10.3	21.1	12:37
11.24	23.15	14.44	10.3	21.2	12:38
11.25	23.15	14.44	10.3	21.1	12:39
11.20	23.27	14.46	10.3	21.3	12:40
11.13	23.31	14.47	10.2	21.4	12:41
11.01	23.51	14.48	10.1	21.6	12:42
11.10	23.68	14.49	10.2	21.8	12:43
11.14	23.62	14.50	10.3	21.8	12:44
11.05	23.66	14.50	10.2	21.8	12:45
10.94	23.59	14.50	10.1	21.8	12:46
10.97	23.78	14.51	10.1	22.0	12:47
10.95	23.86	14.52	10.1	22.1	12:48
11.01	23.67	14.51	10.2	21.9	12:49
11.03	23.68	14.51	10.2	21.9	12:50
10.92	23.66	14.49	10.1	21.8	12:51
10.90	23.53	14.47	10.0	21.6	12:52
11.02	23.31	14.45	10.1	21.3	12:53
11.10	23.10	14.42	10.1	21.0	12:54
11.13	23.03	14.40	10.1	20.9	12:55
11.00	22.84	14.39	10.0	20.7	12:56
10.92	22.75	14.39	9.9	20.6	12:57
11.03	22.84	14.40	10.0	20.7	12:58
11.16	22.96	14.41	10.2	20.9	12:59
11.32	23.13	14.42	10.3	21.1	13:00
11.52	23.29	14.44	10.5	21.3	13:01
11.45	23.38	14.45	10.5	21.4	13:02
11.33	23.56	14.46	10.4	21.6	13:03
11.19	23.64	14.47	10.3	21.7	13:04
11.09	23.72	14.48	10.2	21.8	13:05
11.05	23.95	14.48	10.2	22.0	13:06
11.08	23.95	14.48	10.2	22.0	13:07
11.07	23.77	14.47	10.2	21.8	13:08
11.14	23.73	14.46	10.2	21.8	13:09
11.14	23.73	14.45	10.2	21.7	13:10
11.09	23.60	14.45	10.1	21.6	13:11
11.13	23.39	14.43	10.1	21.3	13:12
11.25	23.18	14.41	10.2	21.1	13:13
11.31	22.94	14.38	10.2	20.8	13:14
11.31	22.61	14.35	10.2	20.4	13:15
11.33	22.14	14.32	10.2	19.9	13:16
11.36	21.80	14.29	10.1	19.5	13:17
11.43	21.71	14.27	10.2	19.3	13:18
11.55	21.68	14.29	10.3	19.3	13:19
11.63	21.87	14.31	10.4	19.6	13:20
11.73	22.07	14.32	10.5	19.8	13:21
11.79	22.36	14.35	10.6	20.2	13:22
11.69	22.54	14.38	10.6	20.4	13:23
11.44	22.77	14.39	10.4	20.7	13:24
11.19	23.07	14.41	10.2	21.0	13:25
11.02	23.22	14.42	10.0	21.2	13:26
10.92	23.29	14.42	10.0	21.2	13:27
10.95	23.29	14.43	10.0	21.2	13:28
10.86	23.41	14.44	9.9	21.4	13:29
10.78	23.40	14.45	9.9	21.4	13:30
10.68	23.56	14.45	9.8	21.6	13:31
10.66	23.75	14.46	9.8	21.7	13:32
10.73	23.78	14.45	9.8	21.8	13:33
10.78	23.77	14.44	9.9	21.7	13:34
10.77	23.79	14.44	9.8	21.7	13:35
10.74	23.85	14.44	9.8	21.8	13:36

CLIENT:	New Indy	JOB#	220-017		
PLANT:	Oxnard, CA	RUN#	RATA 1		
DATE:	3/3/2020	UNIT ID:	Turbine		
ENGINEER:	KK/JT	RUN START:	8:12 AM		
NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
11.51	21.87	14.46	10.55	20.05	8:12
11.67	21.82	14.45	10.67	19.95	8:13
11.68	21.70	14.41	10.61	19.73	8:14
11.78	21.61	14.45	10.77	19.75	8:15
12.01	21.32	14.44	10.97	19.47	8:16
12.19	21.31	14.43	11.12	19.44	8:17
11.98	21.30	14.44	10.94	19.44	8:18
11.87	21.21	14.44	10.84	19.37	8:19
11.86	21.12	14.44	10.83	19.29	8:20
11.82	21.16	14.44	10.80	19.33	8:21
11.72	21.16	14.44	10.71	19.33	8:22
11.69	21.10	14.45	10.69	19.29	8:23
11.77	21.19	14.45	10.77	19.39	8:24
11.88	21.21	14.46	10.88	19.43	8:25
11.92	21.17	14.46	10.93	19.41	8:26
11.82	21.29	14.47	10.84	19.53	8:27
11.84	21.28	14.47	10.86	19.52	8:28
11.81	21.10	14.48	10.85	19.39	8:29
11.70	21.09	14.48	10.76	19.39	8:30
11.60	21.25	14.48	10.67	19.54	8:31
11.57	21.16	14.48	10.64	19.46	8:32
11.45	20.89	14.47	10.50	19.16	8:33
11.46	20.71	14.45	10.49	18.96	8:34
11.59	20.58	14.43	10.58	18.77	8:35
11.65	20.40	14.42	10.60	18.57	8:36
11.60	20.30	14.40	10.53	18.43	8:37
11.55	20.22	14.39	10.47	18.33	8:38
11.57	20.24	14.40	10.50	18.37	8:39
11.57	20.19	14.40	10.51	18.34	8:40
11.56	20.30	14.41	10.51	18.45	8:41
11.53	20.41	14.42	10.50	18.58	8:42
11.50	20.44	14.42	10.48	18.62	8:43
11.54	20.53	14.43	10.53	18.73	8:44
11.70	**20.99**	**14.44**	**10.69**	**19.18**	**Averages**

CLIENT:	New Indy	JOB#	220-017		
PLANT:	Oxnard, CA	RUN#	RATA 2		
DATE:	3/3/2020	UNIT ID:	Turbine		
ENGINEER:	KK/JT	RUN START:	8:45 AM		
NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
11.48	20.58	14.44	10.49	18.80	8:45
11.36	20.65	14.45	10.39	18.88	8:46
11.36	20.76	14.45	10.38	18.98	8:47
11.38	20.74	14.44	10.40	18.95	8:48
11.36	20.78	14.45	10.40	19.02	8:49
11.34	20.76	14.45	10.37	19.00	8:50
11.36	20.89	14.46	10.41	19.15	8:51
11.30	20.61	14.47	10.36	18.90	8:52
11.33	20.84	14.47	10.39	19.11	8:53
11.36	21.02	14.46	10.41	19.26	8:54
11.27	21.03	14.51	10.41	19.42	8:55
11.03	20.69	14.46	10.11	18.97	8:56
11.14	20.65	14.44	10.17	18.85	8:57
11.44	20.48	14.41	10.40	18.62	8:58
11.48	20.44	14.41	10.43	18.57	8:59
11.66	20.35	14.40	10.58	18.47	9:00
11.70	20.30	14.39	10.61	18.41	9:01
11.74	20.29	14.40	10.65	18.41	9:02
11.72	20.41	14.40	10.65	18.54	9:03
11.62	20.46	14.42	10.58	18.62	9:04
11.53	20.55	14.44	10.53	18.76	9:05
11.50	20.48	14.44	10.50	18.71	9:06
11.44	20.65	14.45	10.47	18.89	9:07
11.46	20.65	14.46	10.50	18.93	9:08
11.38	20.88	14.47	10.44	19.16	9:09
11.31	20.81	14.48	10.39	19.11	9:10
11.30	20.66	14.48	10.38	18.98	9:11
11.32	20.76	14.48	10.42	19.10	9:12
11.33	20.87	14.49	10.43	19.22	9:13
11.19	21.11	14.47	10.26	19.36	9:14
10.96	21.20	14.45	10.02	19.38	9:15
10.89	21.23	14.44	9.95	19.40	9:16
10.91	21.42	14.44	9.96	19.56	9:17
11.36	**20.73**	**14.45**	**10.39**	**18.95**	**Averages**

CLIENT:	New Indy	JOB#	220-017
PLANT:	Oxnard, CA	RUN#	RATA 3
DATE:	3/3/2020	UNIT ID:	Turbine
ENGINEER:	KK/JT	RUN START:	9:18 AM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	Time
10.89	21.51	14.43	9.93	19.61	9:18
11.01	21.43	14.42	10.03	19.52	9:19
11.14	21.44	14.43	10.16	19.55	9:20
11.20	21.65	14.45	10.24	19.79	9:21
11.16	21.95	14.46	10.23	20.12	9:22
11.16	21.89	14.48	10.25	20.11	9:23
11.08	21.99	14.49	10.20	20.24	9:24
11.00	22.07	14.50	10.14	20.33	9:25
10.96	22.13	14.49	10.08	20.36	9:26
11.03	22.39	14.49	10.16	20.62	9:27
11.04	22.39	14.50	10.18	20.65	9:28
11.06	22.57	14.51	10.21	20.84	9:29
11.07	22.45	14.52	10.24	20.76	9:30
11.08	22.33	14.52	10.24	20.63	9:31
11.15	22.34	14.50	10.28	20.61	9:32
11.14	22.36	14.50	10.27	20.60	9:33
11.10	22.11	14.48	10.20	20.31	9:34
11.28	21.97	14.47	10.35	20.16	9:35
11.48	21.73	14.46	10.51	19.90	9:36
11.43	21.68	14.45	10.46	19.84	9:37
11.39	21.75	14.46	10.44	19.93	9:38
11.46	21.56	14.46	10.50	19.76	9:39
11.51	21.74	14.47	10.57	19.96	9:40
11.49	21.81	14.48	10.56	20.05	9:41
11.42	21.98	14.49	10.50	20.22	9:42
11.44	21.93	14.49	10.54	20.20	9:43
11.47	21.83	14.49	10.56	20.10	9:44
11.57	21.99	14.48	10.64	20.22	9:45
11.46	22.15	14.51	10.58	20.45	9:46
11.41	22.14	14.51	10.54	20.45	9:47
11.34	22.19	14.52	10.49	20.53	9:48
11.28	22.14	14.52	10.43	20.48	9:49
11.33	21.51	15.72	14.65	27.34	9:50
11.24	**21.97**	**14.52**	**10.47**	**20.43**	**Averages**

CLIENT:	New Indy	JOB#	220-017
PLANT:	Oxnard, CA	RUN#	RATA 4
DATE:	3/3/2020	UNIT ID:	Turbine
ENGINEER:	KK/JT	RUN START:	10:00 AM

NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
11.55	19.04	14.54	10.71	17.65	10:00
11.92	21.41	14.48	10.96	19.68	10:01
11.96	21.68	14.48	11.00	19.94	10:02
11.76	21.93	14.49	10.82	20.18	10:03
11.60	21.81	14.50	10.69	20.11	10:04
11.54	21.73	14.51	10.65	20.06	10:05
11.49	21.70	14.51	10.61	20.05	10:06
11.41	21.84	14.51	10.54	20.18	10:07
11.30	21.98	14.51	10.43	20.28	10:08
11.04	22.05	14.49	10.17	20.31	10:09
10.84	22.11	14.48	9.96	20.31	10:10
10.57	22.38	14.48	9.71	20.56	10:11
10.31	22.34	14.47	9.47	20.50	10:12
10.31	22.23	14.46	9.45	20.37	10:13
10.39	22.21	14.45	9.50	20.30	10:14
10.43	22.04	14.42	9.50	20.08	10:15
10.66	21.99	14.41	9.69	19.99	10:16
10.99	22.02	14.41	10.00	20.03	10:17
11.03	22.20	14.42	10.04	20.23	10:18
10.93	22.36	14.44	9.98	20.40	10:19
10.99	22.52	14.45	10.05	20.60	10:20
11.15	22.72	14.46	10.21	20.80	10:21
11.09	23.04	14.45	10.16	21.09	10:22
11.02	23.26	14.48	10.12	21.37	10:23
11.10	23.10	14.48	10.21	21.25	10:24
11.11	23.30	14.49	10.22	21.44	10:25
11.00	23.19	14.49	10.14	21.36	10:26
10.98	22.98	14.49	10.11	21.16	10:27
11.08	23.10	14.49	10.20	21.28	10:28
11.09	23.02	14.48	10.20	21.17	10:29
11.11	22.92	14.46	10.18	21.01	10:30
11.12	23.07	14.46	10.18	21.12	10:31
11.10	23.02	14.46	10.17	21.08	10:32
11.09	**22.31**	**14.47**	**10.18**	**20.48**	**Averages**

CLIENT:	New Indy	JOB#	220-017		
PLANT:	Oxnard, CA	RUN#	RATA 5		
DATE:	3/3/2020	UNIT ID:	Turbine		
ENGINEER:	KK/JT	RUN START:	10:33 AM		
NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
11.27	22.80	14.44	10.29	20.81	10:33
11.43	22.86	14.44	10.44	20.88	10:34
11.43	22.78	14.44	10.44	20.80	10:35
11.47	22.73	14.45	10.50	20.80	10:36
11.57	22.90	14.46	10.60	20.97	10:37
11.47	23.08	14.47	10.52	21.16	10:38
11.48	23.13	14.48	10.55	21.25	10:39
11.36	23.32	14.49	10.46	21.46	10:40
11.28	23.27	14.49	10.37	21.41	10:41
11.25	23.36	14.50	10.38	21.55	10:42
11.18	23.53	14.50	10.31	21.70	10:43
11.08	23.72	14.51	10.22	21.90	10:44
11.02	23.52	14.51	10.17	21.71	10:45
11.11	23.54	14.50	10.24	21.72	10:46
11.18	23.61	14.50	10.30	21.75	10:47
11.23	23.46	14.49	10.35	21.61	10:48
11.38	23.29	14.48	10.47	21.42	10:49
11.51	23.03	14.47	10.56	21.13	10:50
11.39	23.12	14.46	10.43	21.17	10:51
11.30	22.99	14.45	10.34	21.03	10:52
11.43	22.94	14.43	10.43	20.93	10:53
11.54	23.27	14.45	10.55	21.28	10:54
11.46	23.23	14.45	10.49	21.26	10:55
11.35	23.44	14.46	10.41	21.49	10:56
11.25	23.68	14.49	10.35	21.79	10:57
11.30	23.58	14.49	10.40	21.70	10:58
11.45	23.73	14.50	10.55	21.87	10:59
11.38	23.60	14.51	10.51	21.79	11:00
11.32	23.70	14.51	10.45	21.89	11:01
11.39	23.81	14.51	10.53	22.00	11:02
11.36	23.74	14.52	10.50	21.94	11:03
11.46	23.71	14.52	10.59	21.92	11:04
11.64	23.76	14.52	10.77	21.98	11:05
11.36	**23.34**	**14.48**	**10.44**	**21.46**	**Averages**

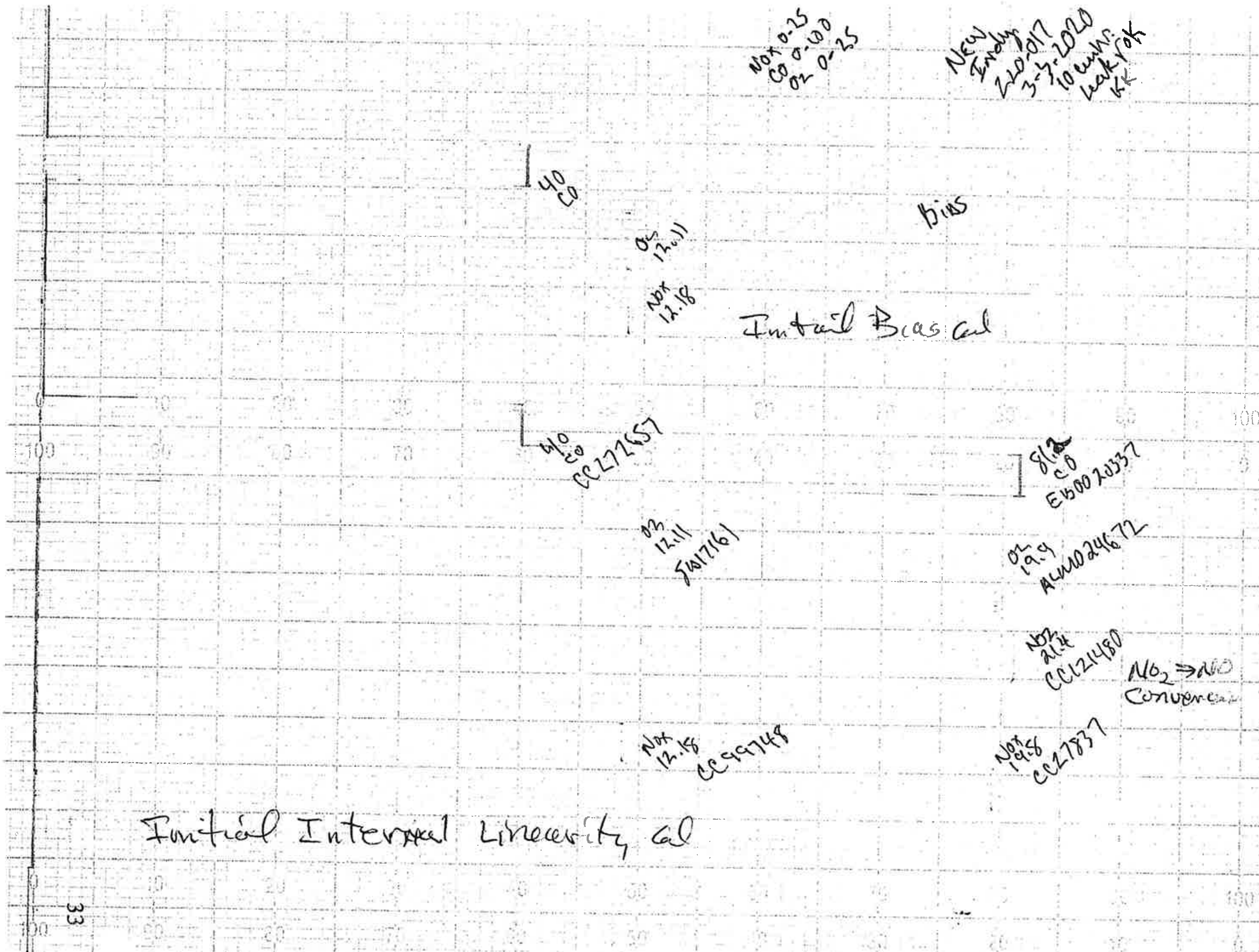
CLIENT:	New Indy	JOB#	220-017		
PLANT:	Oxnard, CA	RUN#	RATA 6		
DATE:	3/3/2020	UNIT ID:	Turbine		
ENGINEER:	KK/JT	RUN START:	11:06 AM		
NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
11.64	23.76	14.52	10.77	21.98	11:06
11.68	23.72	14.52	10.80	21.94	11:07
11.57	23.62	14.52	10.69	21.83	11:08
11.54	23.61	14.51	10.66	21.79	11:09
11.54	23.57	14.5	10.64	21.74	11:10
11.54	23.46	14.49	10.63	21.6	11:11
11.43	23.55	14.48	10.51	21.65	11:12
11.38	23.39	14.48	10.46	21.49	11:13
11.59	23.14	14.48	10.65	21.26	11:14
11.68	23.11	14.48	10.73	21.23	11:15
11.61	23.18	14.48	10.67	21.31	11:16
11.66	23.26	14.49	10.74	21.42	11:17
11.59	23.33	14.5	10.68	21.51	11:18
11.46	23.35	14.5	10.57	21.54	11:19
11.42	23.48	14.51	10.54	21.68	11:20
11.43	23.54	14.51	10.56	21.74	11:21
11.45	23.53	14.52	10.59	21.76	11:22
11.44	23.73	14.51	10.56	21.9	11:23
11.49	23.71	14.51	10.62	21.9	11:24
11.52	23.54	14.52	10.64	21.75	11:25
11.51	23.63	14.52	10.64	21.83	11:26
11.48	23.62	14.52	10.61	21.84	11:27
11.48	23.5	14.51	10.60	21.71	11:28
11.52	23.48	14.5	10.63	21.66	11:29
11.53	23.37	14.49	10.62	21.52	11:30
11.5	23.29	14.48	10.57	21.4	11:31
11.61	23.18	14.47	10.66	21.28	11:32
11.58	23.05	14.47	10.62	21.16	11:33
11.53	23.05	14.47	10.58	21.15	11:34
11.61	23.02	14.48	10.67	21.16	11:35
11.68	22.97	14.49	10.74	21.13	11:36
11.61	23.07	14.49	10.68	21.23	11:37
11.5	23.12	14.49	10.58	21.27	11:38
11.54	**23.39**	**14.50**	**10.63**	**21.56**	**Averages**

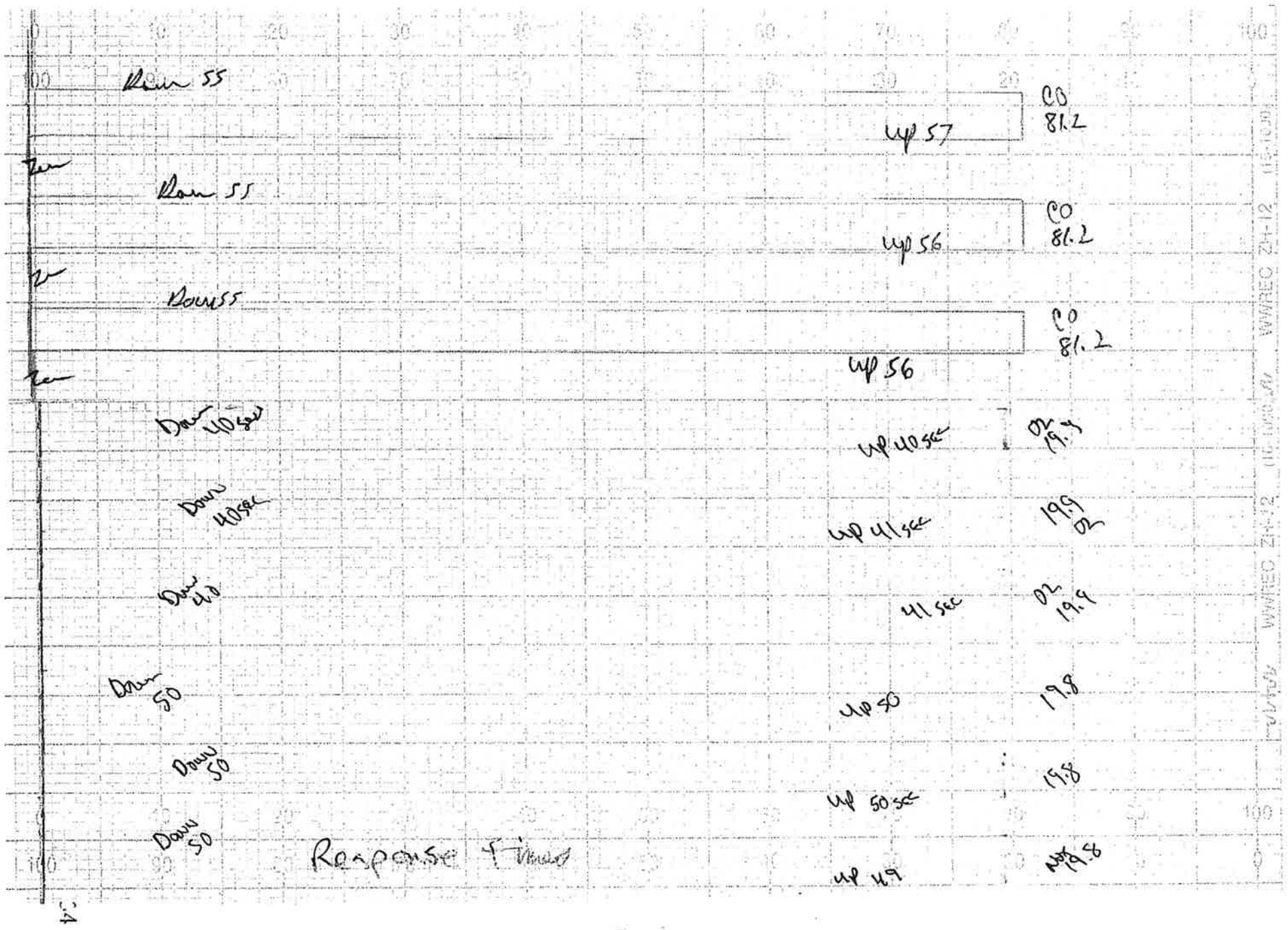
CLIENT:	New Indy	JOB#	220-017		
PLANT:	Oxnard, CA	RUN#	RATA 7		
DATE:	3/3/2020	UNIT ID:	Turbine		
ENGINEER:	KK/JT	RUN START:	12:00 PM		
NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
11.25	23.46	14.51	10.40	21.68	12:00
11.59	23.54	14.52	10.72	21.77	12:01
11.77	23.52	14.53	10.90	21.78	12:02
11.68	23.65	14.53	10.81	21.90	12:03
11.51	23.64	14.51	10.63	21.84	12:04
11.44	23.68	14.52	10.59	21.91	12:05
11.39	23.82	14.53	10.54	22.05	12:06
11.35	23.82	14.52	10.49	22.03	12:07
11.28	23.75	14.53	10.44	21.99	12:08
11.27	23.60	14.52	10.42	21.83	12:09
11.29	23.63	14.51	10.44	21.83	12:10
11.39	23.45	14.50	10.50	21.63	12:11
11.54	23.27	14.48	10.60	21.39	12:12
11.68	23.25	14.47	10.72	21.35	12:13
11.66	23.20	14.46	10.69	21.25	12:14
11.58	23.21	14.45	10.59	21.24	12:15
11.55	23.16	14.46	10.57	21.21	12:16
11.40	23.18	14.46	10.44	21.24	12:17
11.29	23.37	14.47	10.36	21.43	12:18
11.28	23.40	14.47	10.35	21.49	12:19
11.38	23.66	14.47	10.44	21.70	12:20
11.46	23.65	14.47	10.52	21.70	12:21
11.44	23.60	14.49	10.52	21.71	12:22
11.51	23.65	14.49	10.60	21.79	12:23
11.45	23.82	14.51	10.57	21.99	12:24
11.37	23.65	14.50	10.49	21.82	12:25
11.29	23.76	14.51	10.42	21.93	12:26
11.24	23.81	14.52	10.39	22.01	12:27
11.24	23.82	14.51	10.38	22.00	12:28
11.30	23.69	14.51	10.44	21.89	12:29
11.36	23.47	14.51	10.49	21.67	12:30
11.39	23.37	14.50	10.50	21.54	12:31
11.32	23.34	14.49	10.42	21.49	12:32
11.42	**23.54**	**14.50**	**10.53**	**21.70**	**Averages**

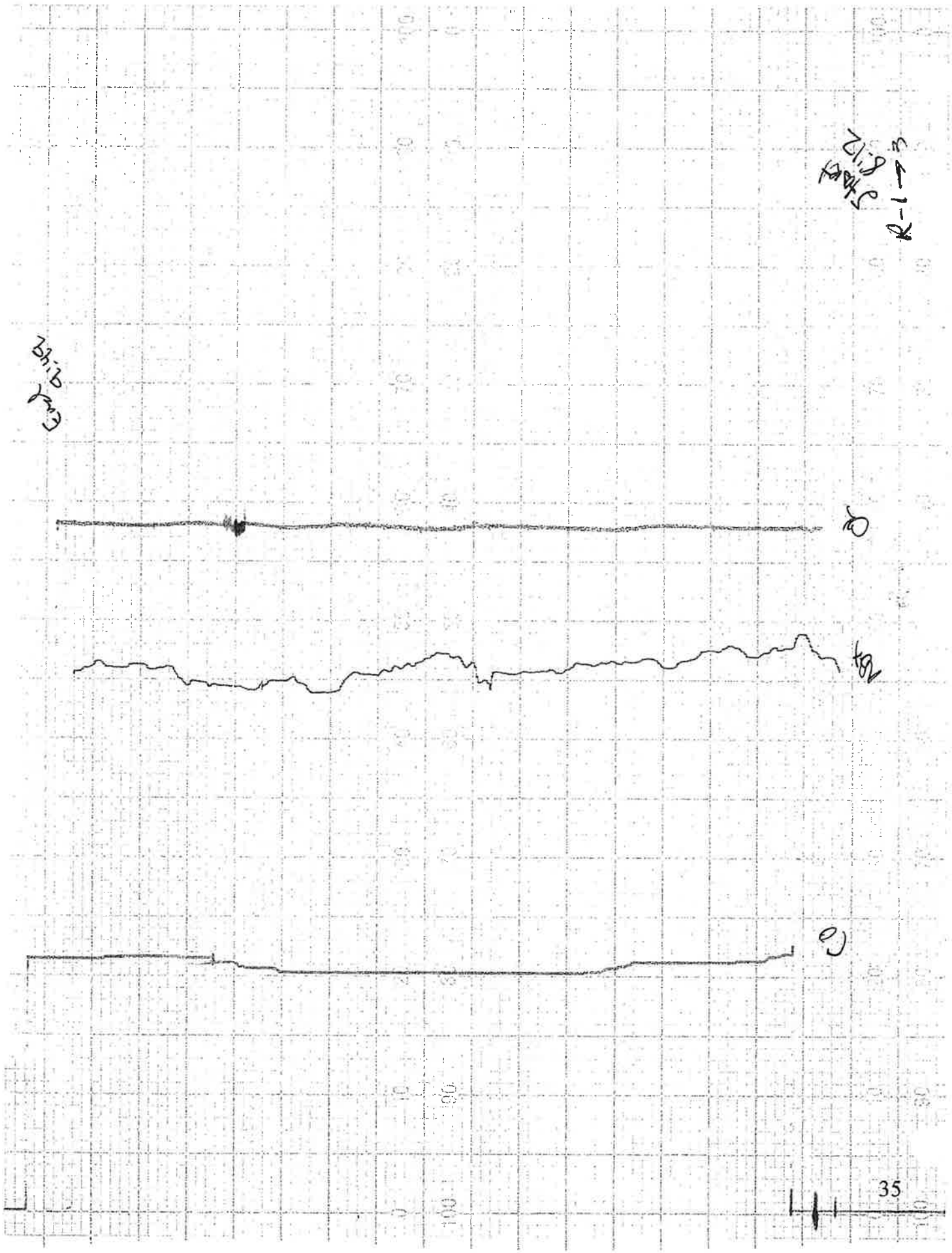
CLIENT:	New Indy	JOB#	220-017
PLANT:	Oxnard, CA	RUN#	RATA 8
DATE:	3/3/2020	UNIT ID:	Turbine
ENGINEER:	KK/JT	RUN START:	12:33 PM

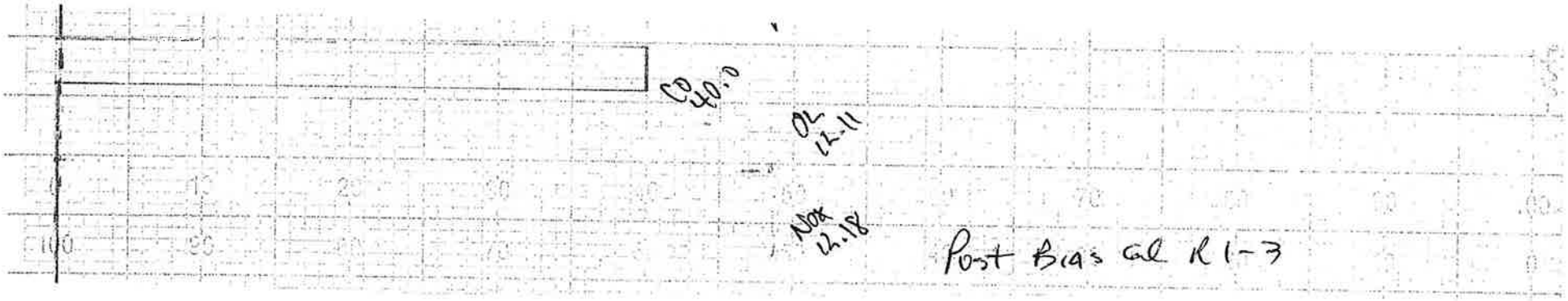
NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
11.24	23.24	14.48	10.32	21.34	12:33
11.27	23.25	14.48	10.36	21.36	12:34
11.28	23.06	14.46	10.34	21.13	12:35
11.33	23.08	14.45	10.36	21.11	12:36
11.30	23.07	14.44	10.33	21.09	12:37
11.24	23.15	14.44	10.27	21.15	12:38
11.25	23.15	14.44	10.27	21.13	12:39
11.20	23.27	14.46	10.26	21.31	12:40
11.13	23.31	14.47	10.21	21.38	12:41
11.01	23.51	14.48	10.11	21.59	12:42
11.10	23.68	14.49	10.21	21.78	12:43
11.14	23.62	14.50	10.26	21.75	12:44
11.05	23.66	14.50	10.19	21.82	12:45
10.94	23.59	14.50	10.09	21.75	12:46
10.97	23.78	14.51	10.13	21.95	12:47
10.95	23.86	14.52	10.12	22.05	12:48
11.01	23.67	14.51	10.18	21.87	12:49
11.03	23.68	14.51	10.18	21.85	12:50
10.92	23.66	14.49	10.05	21.78	12:51
10.90	23.53	14.47	10.00	21.58	12:52
11.02	23.31	14.45	10.09	21.33	12:53
11.10	23.10	14.42	10.11	21.04	12:54
11.13	23.03	14.40	10.10	20.90	12:55
11.00	22.84	14.39	9.96	20.70	12:56
10.92	22.75	14.39	9.90	20.62	12:57
11.03	22.84	14.40	10.01	20.72	12:58
11.16	22.96	14.41	10.15	20.88	12:59
11.32	23.13	14.42	10.31	21.06	13:00
11.52	23.29	14.44	10.52	21.26	13:01
11.45	23.38	14.45	10.47	21.39	13:02
11.33	23.56	14.46	10.38	21.58	13:03
11.19	23.64	14.47	10.27	21.70	13:04
11.09	23.72	14.48	10.18	21.79	13:05
11.14	**23.34**	**14.46**	**10.20**	**21.39**	**Averages**

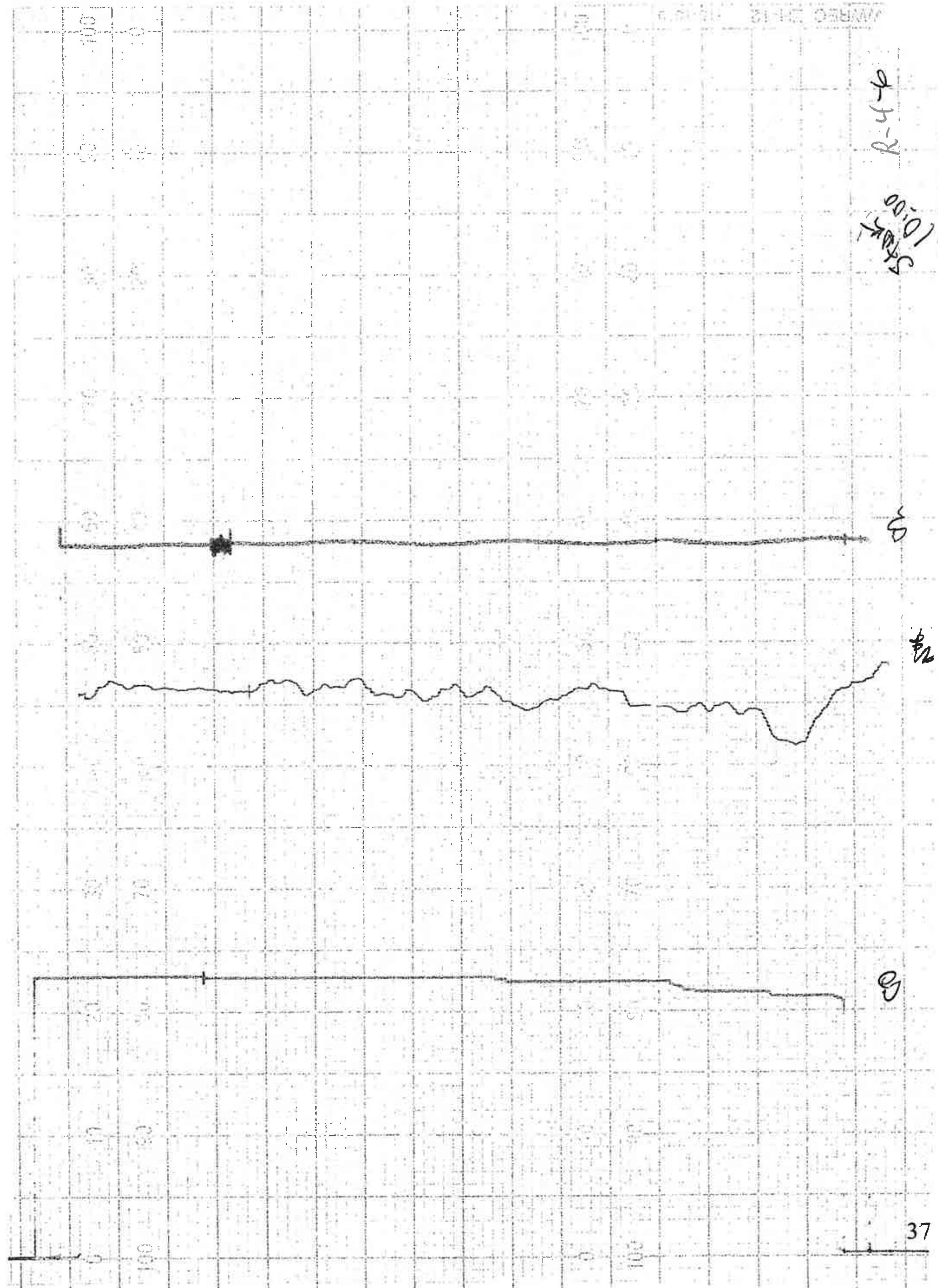
CLIENT:	New Indy	JOB#	220-017		
PLANT:	Oxnard, CA	RUN#	RATA 9		
DATE:	3/3/2020	UNIT ID:	Turbine		
ENGINEER:	KK/JT	RUN START:	1:06 PM		
NOx, ppm	CO, ppm	O2, %	NOx, ppm @ 15% O2	CO, ppm @ 15% O2	TIME
11.09	23.72	14.48	10.18	21.79	13:06
11.05	23.95	14.48	10.16	22.01	13:07
11.08	23.95	14.48	10.18	22.01	13:08
11.07	23.77	14.47	10.17	21.82	13:09
11.14	23.73	14.46	10.21	21.75	13:10
11.14	23.73	14.45	10.20	21.72	13:11
11.09	23.60	14.45	10.14	21.59	13:12
11.13	23.39	14.43	10.14	21.31	13:13
11.25	23.18	14.41	10.24	21.08	13:14
11.31	22.94	14.38	10.24	20.77	13:15
11.31	22.61	14.35	10.19	20.38	13:16
11.33	22.14	14.32	10.17	19.87	13:17
11.36	21.80	14.29	10.14	19.46	13:18
11.43	21.71	14.27	10.18	19.32	13:19
11.55	21.68	14.29	10.31	19.34	13:20
11.63	21.87	14.31	10.41	19.57	13:21
11.73	22.07	14.32	10.52	19.80	13:22
11.79	22.36	14.35	10.63	20.16	13:23
11.69	22.54	14.38	10.57	20.38	13:24
11.44	22.77	14.39	10.38	20.65	13:25
11.19	23.07	14.41	10.18	20.99	13:26
11.02	23.22	14.42	10.04	21.15	13:27
10.92	23.29	14.42	9.95	21.21	13:28
10.95	23.29	14.43	9.98	21.24	13:29
10.86	23.41	14.44	9.92	21.38	13:30
10.78	23.40	14.45	9.86	21.40	13:31
10.68	23.56	14.45	9.77	21.57	13:32
10.66	23.75	14.46	9.76	21.74	13:33
10.73	23.78	14.45	9.81	21.75	13:34
10.78	23.77	14.44	9.85	21.71	13:35
10.77	23.79	14.44	9.84	21.73	13:36
10.74	23.85	14.44	9.82	21.79	13:37
10.71	23.61	14.43	9.77	21.54	13:38
11.1	**23.1**	**14.4**	**10.1**	**21.0**	**Averages**

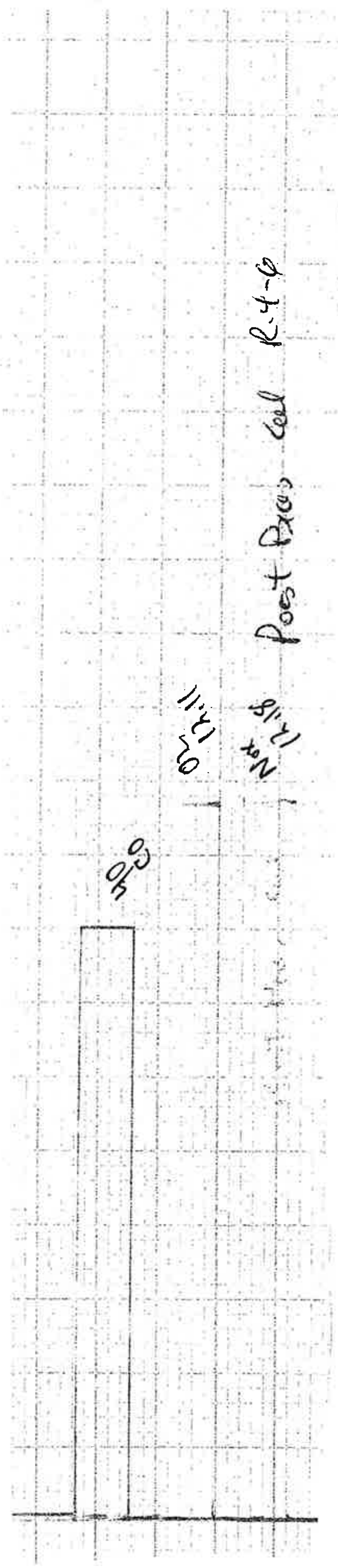

Nox 0-25
CO 0-100
O2 0-25
New Endy 220-017 3-7-2020 10 cm/hr leak ok KK
40 CO
Bias
O2 12.11
Nox 12.18
Initail Bias cal
40 CO CC272657
81.2 CO EB0020337
O2 12.11 SX17161
O2 19.9 ALM024672
NO2 21.4 CC121480
$NO_2 \Rightarrow NO$ Conversion
Nox 12.18 CC99748
Nox 19.8 CC27837
Initial Interval Linearity Cal

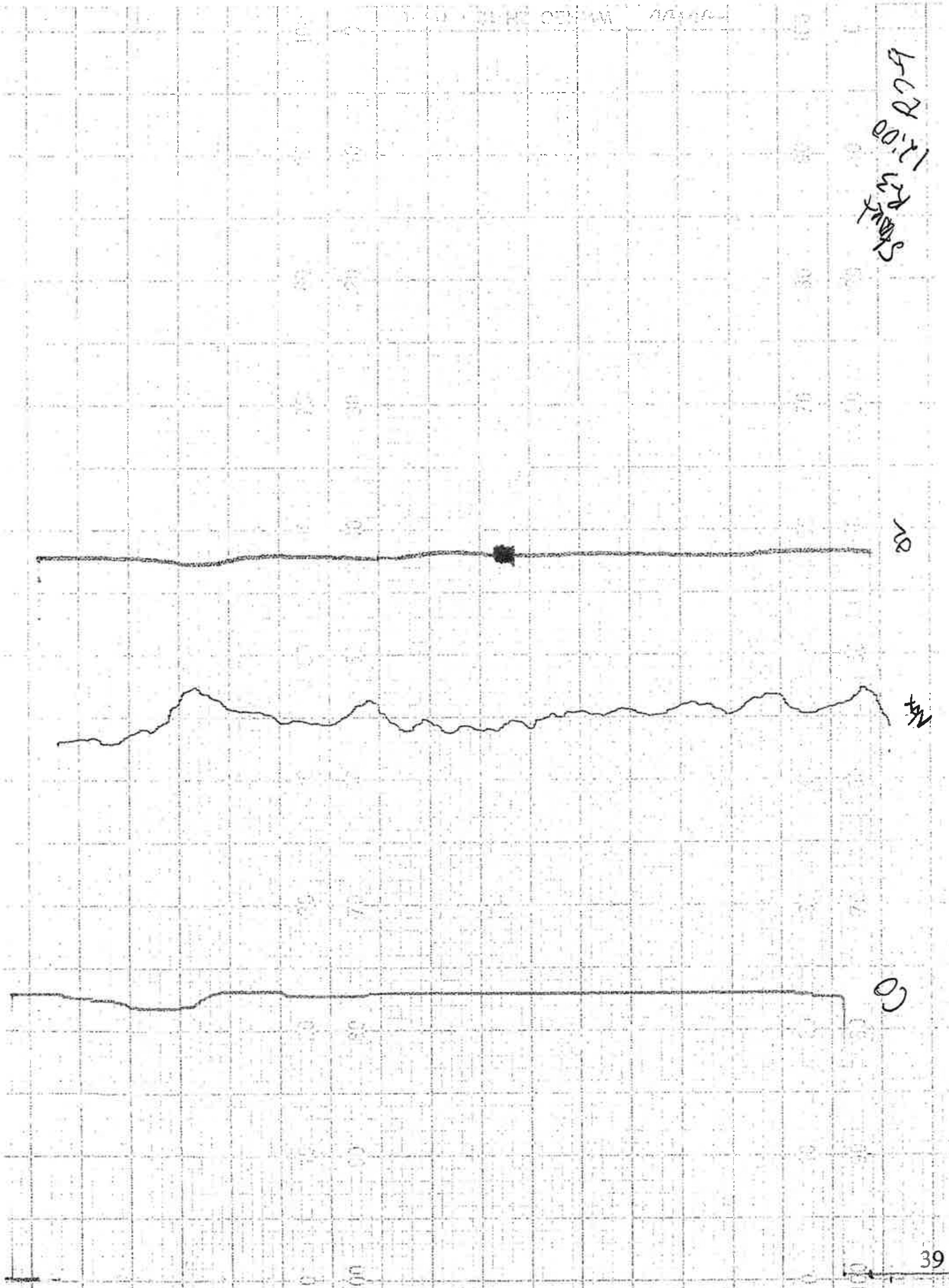

Down 55
Up 57
CO 81.2
Down 55
Up 56
CO 81.2
Down 55
Up 56
CO 81.2
Down 40sec
Up 40sec
02 19.9
Down 40sec
Up 41sec
19.9 02
Down 40
41 sec
02 19.9
Down 50
Up 50
19.8
Down 50
Up 50sec
15.8
Down 50
Up 49
19.8
Response Times

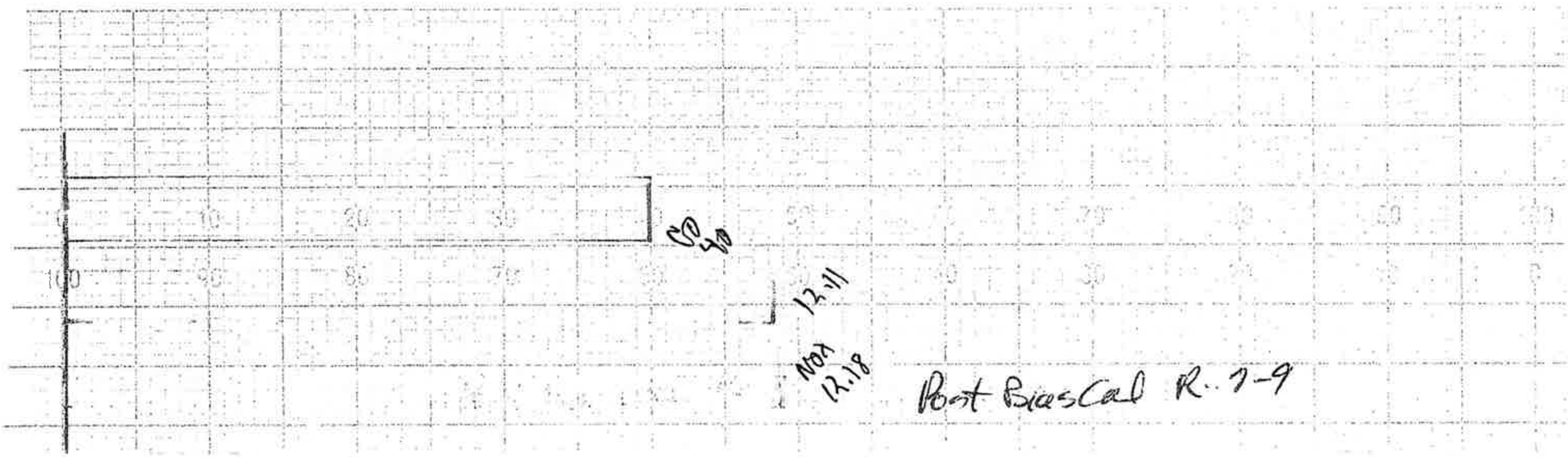



CO
40.0
O2
12.11
NOx
12.18
Post Bias cal R 1-7




40
CO
O2
12.11
Nox
12.18
Post Rxn cell R-4-6


Start R3 12:00 6/29
CO

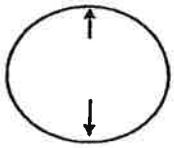

12.11
NOx
12.18
Post Bias Cal R: 7-9

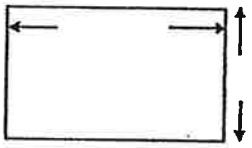
AIR X TESTING

Plant: NEW ENGY	Amb. Temp: 50	Nozzle: 318
Location: OXNARD	Pbar: 29.97	Prob Heat: —
Unit: TURBINE	Pitot: —	Wind Vel.: calm
Date: 3-3-20	Pyro: —	Static Press.: —
Run #: 1-2-3	Mag Δ P: —	O2: 14.5
Cold Box:	Mag Δ H: AA H2O	CO2:
Meter #: 3	% H2O: —	Engineer: KK
Meter Factor: 1.0178	Box Heat: —	Technician: ET

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

Stack Sample Port Location





Imp.	Gross	Tare	Total
1		611.6	
2		595.5	
3		551.7	
4		703.9	

Filter 1: _____

Filter 2: _____

START TIME: 8:12 END TIME: 9:42 "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	Probe Temp.°F	Cyl. Flow
		0				897.670	1.75	63	61		4			
		10				905.6	1.75	65	60		4			
		20				912.8	1.75	67	61		4			
		30				920.0	1.75	68	63		4			
		40				927.2	1.75	69	64		4			
		50				934.4	1.75	70	64		4			
		60				941.6	1.75	71	65		4			
		70				948.8	1.75	71	67		4			
		80				956.0	1.75	72	68		4			
		90				963.2	1.75	73	69		4			
		96				967.257								
Average:		96				69.587	1.75		66.6		4.0			

Leak Checks: Pitots

Pre	Top	Bottom
ΔP		

Post	Top	Bottom
ΔP		

Sample Train Leak Check

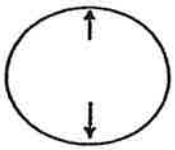
CFM:	.002	In. HG:	17	
CFM:	.002	In. HG:	15	

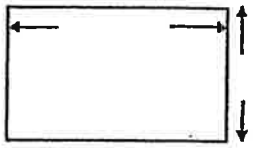
AIRX TESTING

Plant:	New Indy	Amb. Temp:	70	Nozzle:	316
Location:	Oxnard	Pbar:	29.99	Prob Heat:	—
Unit:	Turbine	Pitot:	—	Wind Vel.:	Calm
Date:	3-3-2020	Pyro:	—	Static Press.:	—
Run #:	2-5-6	Mag Δ P:	—	O2:	19.6
Cold Box:	5	Mag Δ H:	1.16x16	CO2:	—
Meter #:	3	% H2O:	—	Engineer:	KK
Meter Factor:	1.0108	Box Heat:	—	Technician:	KK

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

Stack Sample Port Location





Imp.	Gross	Tare	Total
1		647.0	
2		584.7	
3		477.3	
4		641.3	

Filter 1: ____

Filter 2: ____

START TIME: 10:00 END TIME: 11:36 "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	Probe Temp.°F	Cyl. Flow
		0				968.337	1.75	71	69		5			
		10				975.5	1.75	74	69		5			
		20				982.7	1.75	74	70		5			
		30				989.9	1.75	75	71		5			
		40				997.1	1.75	75	71		5			
		50				1004.3	1.75	75	71		5			
		60				1011.5	1.75	76	71		5			
		70				1018.7	1.75	76	71		5			
		80				1025.9	1.75	76	71		5			
		90				1033.1	1.75	76	71		5			
		96				1040.359								
Average:		96				72.022	1.75		72.2		5.0			

Leak Checks: Pitots

Pre	Top	Bottom
ΔP		

Post	Top	Bottom
ΔP		

Sample Train Leak Check

CFM:	.001	In. HG:	15	
CFM:	.001	In. HG:	14	

AIR X TESTING

Plant: New Turky	Amb. Temp: 72	Nozzle: 316	
Location: Oxnard	Pbar: 29.97	Prob Heat: –	
Unit: Turbine	Pitot: –	Wind Vel.: 0-5	
Date: 3-5-20	Pyro: –	Static Press.: –	
Run #: 7-8-9	Mag Δ P: –	O2: 14.5	
Cold Box: 3	Mag Δ H: 141 Wood	CO2: –	
Meter #: J	% H2O: –	Engineer: KE	
Meter Factor: 1.0108	Box Heat: –	Technician: ET	

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

Stack Sample Port Location

Imp.	Gross	Tare	Total
1			
2			
3			
4			

Filter 1: ______

Filter 2: ______

START TIME: 12:00 END TIME: 13:06 "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	Probe Temp.°F	Cyl. Flow
		0				41.608	1.75	75	74		4			
		10				48.8	1.75	77	74		4			
		20				56.0	1.75	78	74		4			
		30				63.2	1.75	78	75		4			
		40				70.5	1.75	79	75		4			
		50				77.7	1.75	80	75		4			
		60				84.9	1.75	80	76		4			
		70				92.1	1.75	81	76		4			
		80				99.3	1.75	81	76		4			
		90				106.5	1.75	81	77		4			
		96				113.753								
Average:		96				72.145	1.75		77.1		4.0			

Leak Checks: Pitots

Pre	Top	Bottom
ΔP		

Post	Top	Bottom
ΔP		

Sample Train Leak Check

CFM:	.002	In. HG:	17	
CFM:	.002	In. HG:	14	

New-Indy Oxnard, LLC
ROSEMOUNT CEMS SOURCE TEST - March 3, 2020

R-1

Stack NOx		Stack CO		Stack O2		Duct Burner Gas Flow		Turbine Gas Flow		Steam Injection		Ammonia Injection		Turbine Load	
RS_NOX PPM		R6_931AIC1111C.CCO		RS_931AIC1111B.O2		DBGASFLOW_A		GTGASFLOW		921-2015.WQ		931FIC1173_MV		921-2015.DWATT	
03-Mar-20 08:12:00	10.80	03-Mar-20 08:12:00	19.53	03-Mar-20 08:12:00	14.05	03-Mar-20 08:12:00	23.58	03-Mar-20 08:12:00	266.35	03-Mar-20 08:12:00	2.47	03-Mar-20 08:12:00	24.78	03-Mar-20 08:12:00	24.90
03-Mar-20 08:13:00	10.89	03-Mar-20 08:13:00	19.45	03-Mar-20 08:13:00	14.02	03-Mar-20 08:13:00	24.56	03-Mar-20 08:13:00	266.35	03-Mar-20 08:13:00	2.47	03-Mar-20 08:13:00	25.12	03-Mar-20 08:13:00	24.91
03-Mar-20 08:14:00	11.00	03-Mar-20 08:14:00	19.33	03-Mar-20 08:14:00	13.98	03-Mar-20 08:14:00	25.13	03-Mar-20 08:14:00	266.35	03-Mar-20 08:14:00	2.45	03-Mar-20 08:14:00	25.24	03-Mar-20 08:14:00	24.78
03-Mar-20 08:15:00	11.15	03-Mar-20 08:15:00	19.33	03-Mar-20 08:15:00	13.97	03-Mar-20 08:15:00	25.16	03-Mar-20 08:15:00	266.35	03-Mar-20 08:15:00	2.44	03-Mar-20 08:15:00	25.25	03-Mar-20 08:15:00	24.77
03-Mar-20 08:16:00	11.10	03-Mar-20 08:16:00	19.35	03-Mar-20 08:16:00	13.98	03-Mar-20 08:16:00	24.54	03-Mar-20 08:16:00	266.35	03-Mar-20 08:16:00	2.44	03-Mar-20 08:16:00	25.50	03-Mar-20 08:16:00	24.77
03-Mar-20 08:17:00	10.79	03-Mar-20 08:17:00	19.37	03-Mar-20 08:17:00	13.99	03-Mar-20 08:17:00	23.03	03-Mar-20 08:17:00	266.35	03-Mar-20 08:17:00	2.44	03-Mar-20 08:17:00	25.59	03-Mar-20 08:17:00	24.77
03-Mar-20 08:18:00	10.70	03-Mar-20 08:18:00	19.46	03-Mar-20 08:18:00	14.02	03-Mar-20 08:18:00	22.23	03-Mar-20 08:18:00	265.27	03-Mar-20 08:18:00	2.44	03-Mar-20 08:18:00	25.65	03-Mar-20 08:18:00	24.80
03-Mar-20 08:19:00	10.90	03-Mar-20 08:19:00	19.44	03-Mar-20 08:19:00	14.01	03-Mar-20 08:19:00	22.39	03-Mar-20 08:19:00	262.72	03-Mar-20 08:19:00	2.44	03-Mar-20 08:19:00	25.71	03-Mar-20 08:19:00	24.88
03-Mar-20 08:20:00	10.91	03-Mar-20 08:20:00	19.48	03-Mar-20 08:20:00	14.02	03-Mar-20 08:20:00	22.93	03-Mar-20 08:20:00	262.31	03-Mar-20 08:20:00	2.44	03-Mar-20 08:20:00	25.66	03-Mar-20 08:20:00	24.83
03-Mar-20 08:21:00	10.66	03-Mar-20 08:21:00	19.53	03-Mar-20 08:21:00	14.05	03-Mar-20 08:21:00	23.97	03-Mar-20 08:21:00	264.85	03-Mar-20 08:21:00	2.44	03-Mar-20 08:21:00	25.84	03-Mar-20 08:21:00	24.81
03-Mar-20 08:22:00	10.81	03-Mar-20 08:22:00	19.52	03-Mar-20 08:22:00	14.04	03-Mar-20 08:22:00	24.11	03-Mar-20 08:22:00	266.34	03-Mar-20 08:22:00	2.44	03-Mar-20 08:22:00	25.91	03-Mar-20 08:22:00	24.75
03-Mar-20 08:23:00	10.85	03-Mar-20 08:23:00	19.67	03-Mar-20 08:23:00	14.09	03-Mar-20 08:23:00	23.01	03-Mar-20 08:23:00	266.35	03-Mar-20 08:23:00	2.44	03-Mar-20 08:23:00	25.86	03-Mar-20 08:23:00	24.79
03-Mar-20 08:24:00	10.98	03-Mar-20 08:24:00	19.50	03-Mar-20 08:24:00	14.03	03-Mar-20 08:24:00	22.43	03-Mar-20 08:24:00	266.35	03-Mar-20 08:24:00	2.44	03-Mar-20 08:24:00	25.83	03-Mar-20 08:24:00	24.94
03-Mar-20 08:25:00	10.99	03-Mar-20 08:25:00	19.47	03-Mar-20 08:25:00	14.02	03-Mar-20 08:25:00	22.54	03-Mar-20 08:25:00	266.35	03-Mar-20 08:25:00	2.46	03-Mar-20 08:25:00	26.14	03-Mar-20 08:25:00	24.92
03-Mar-20 08:26:00	10.97	03-Mar-20 08:26:00	19.43	03-Mar-20 08:26:00	14.01	03-Mar-20 08:26:00	22.33	03-Mar-20 08:26:00	266.35	03-Mar-20 08:26:00	2.48	03-Mar-20 08:26:00	26.12	03-Mar-20 08:26:00	24.89
03-Mar-20 08:27:00	10.92	03-Mar-20 08:27:00	19.42	03-Mar-20 08:27:00	14.01	03-Mar-20 08:27:00	21.68	03-Mar-20 08:27:00	266.35	03-Mar-20 08:27:00	2.46	03-Mar-20 08:27:00	26.11	03-Mar-20 08:27:00	24.84
03-Mar-20 08:28:00	10.79	03-Mar-20 08:28:00	19.65	03-Mar-20 08:28:00	14.09	03-Mar-20 08:28:00	21.20	03-Mar-20 08:28:00	266.35	03-Mar-20 08:28:00	2.41	03-Mar-20 08:28:00	26.18	03-Mar-20 08:28:00	24.81
03-Mar-20 08:29:00	10.53	03-Mar-20 08:29:00	19.80	03-Mar-20 08:29:00	14.07	03-Mar-20 08:29:00	20.97	03-Mar-20 08:29:00	266.35	03-Mar-20 08:29:00	2.39	03-Mar-20 08:29:00	26.15	03-Mar-20 08:29:00	24.69
03-Mar-20 08:30:00	10.42	03-Mar-20 08:30:00	19.54	03-Mar-20 08:30:00	14.05	03-Mar-20 08:30:00	21.20	03-Mar-20 08:30:00	266.35	03-Mar-20 08:30:00	2.44	03-Mar-20 08:30:00	26.27	03-Mar-20 08:30:00	24.73
03-Mar-20 08:31:00	10.50	03-Mar-20 08:31:00	19.44	03-Mar-20 08:31:00	14.02	03-Mar-20 08:31:00	22.05	03-Mar-20 08:31:00	266.35	03-Mar-20 08:31:00	2.48	03-Mar-20 08:31:00	26.38	03-Mar-20 08:31:00	24.90
03-Mar-20 08:32:00	10.63	03-Mar-20 08:32:00	19.42	03-Mar-20 08:32:00	14.01	03-Mar-20 08:32:00	22.84	03-Mar-20 08:32:00	266.35	03-Mar-20 08:32:00	2.46	03-Mar-20 08:32:00	26.63	03-Mar-20 08:32:00	24.84
03-Mar-20 08:33:00	10.81	03-Mar-20 08:33:00	19.51	03-Mar-20 08:33:00	14.04	03-Mar-20 08:33:00	23.54	03-Mar-20 08:33:00	266.35	03-Mar-20 08:33:00	2.45	03-Mar-20 08:33:00	26.56	03-Mar-20 08:33:00	24.82
03-Mar-20 08:34:00	10.80	03-Mar-20 08:34:00	19.25	03-Mar-20 08:34:00	13.95	03-Mar-20 08:34:00	24.10	03-Mar-20 08:34:00	266.35	03-Mar-20 08:34:00	2.47	03-Mar-20 08:34:00	26.62	03-Mar-20 08:34:00	24.83
03-Mar-20 08:35:00	10.54	03-Mar-20 08:35:00	18.80	03-Mar-20 08:35:00	13.96	03-Mar-20 08:35:00	24.47	03-Mar-20 08:35:00	266.35	03-Mar-20 08:35:00	2.48	03-Mar-20 08:35:00	26.62	03-Mar-20 08:35:00	24.84
03-Mar-20 08:36:00	10.38	03-Mar-20 08:36:00	18.49	03-Mar-20 08:36:00	13.99	03-Mar-20 08:36:00	24.35	03-Mar-20 08:36:00	266.35	03-Mar-20 08:36:00	2.45	03-Mar-20 08:36:00	26.62	03-Mar-20 08:36:00	24.78
03-Mar-20 08:37:00	10.34	03-Mar-20 08:37:00	18.54	03-Mar-20 08:37:00	14.01	03-Mar-20 08:37:00	23.59	03-Mar-20 08:37:00	266.35	03-Mar-20 08:37:00	2.48	03-Mar-20 08:37:00	26.62	03-Mar-20 08:37:00	24.77
03-Mar-20 08:38:00	10.40	03-Mar-20 08:38:00	18.48	03-Mar-20 08:38:00	13.99	03-Mar-20 08:38:00	23.49	03-Mar-20 08:38:00	266.35	03-Mar-20 08:38:00	2.47	03-Mar-20 08:38:00	26.77	03-Mar-20 08:38:00	24.77
03-Mar-20 08:39:00	10.59	03-Mar-20 08:39:00	18.49	03-Mar-20 08:39:00	13.99	03-Mar-20 08:39:00	24.33	03-Mar-20 08:39:00	266.35	03-Mar-20 08:39:00	2.48	03-Mar-20 08:39:00	26.80	03-Mar-20 08:39:00	24.79
03-Mar-20 08:40:00	10.74	03-Mar-20 08:40:00	19.04	03-Mar-20 08:40:00	14.02	03-Mar-20 08:40:00	24.48	03-Mar-20 08:40:00	266.35	03-Mar-20 08:40:00	2.48	03-Mar-20 08:40:00	26.80	03-Mar-20 08:40:00	24.77
03-Mar-20 08:41:00	10.64	03-Mar-20 08:41:00	19.54	03-Mar-20 08:41:00	14.02	03-Mar-20 08:41:00	23.68	03-Mar-20 08:41:00	266.35	03-Mar-20 08:41:00	2.46	03-Mar-20 08:41:00	26.88	03-Mar-20 08:41:00	24.75
03-Mar-20 08:42:00	10.88	03-Mar-20 08:42:00	19.21	03-Mar-20 08:42:00	14.07	03-Mar-20 08:42:00	22.95	03-Mar-20 08:42:00	266.35	03-Mar-20 08:42:00	2.48	03-Mar-20 08:42:00	26.91	03-Mar-20 08:42:00	24.77
03-Mar-20 08:43:00	10.86	03-Mar-20 08:43:00	19.29	03-Mar-20 08:43:00	14.06	03-Mar-20 08:43:00	22.32	03-Mar-20 08:43:00	266.35	03-Mar-20 08:43:00	2.46	03-Mar-20 08:43:00	26.91	03-Mar-20 08:43:00	24.81
03-Mar-20 08:44:00	10.82	03-Mar-20 08:44:00	18.79	03-Mar-20 08:44:00	14.10	03-Mar-20 08:44:00	22.06	03-Mar-20 08:44:00	266.35	03-Mar-20 08:44:00	2.48	03-Mar-20 08:44:00	26.99	03-Mar-20 08:44:00	24.96
Average Stack NOx, ppm (15% O2)	**10.78**	**Average Stack CO, ppm (15% O2)**	**19.31**	**Average Stack O2 (%)**	**14.02**	**Average Duct Burner Gas Flow (MSCFH)**	**23.19**	**Average Turbine Gas Flow (MSCFH)**	**266.04**	**Ave. Steam Injection Rate (lb/s)**	**2.45**	**Ave. Ammonia Injection (lb/hr)**	**26.18**	**Ave. Turbine Load (MWh)**	**24.82**

289.23 * 1000/60 = 4820.5 cfm

New-Indy Oxnard, LLC
ROSEMOUNT CEMS SOURCE TEST - March 3, 2020

R-2

Stack NOx		Stack CO		Stack O2		Duct Burner Gas Flow		Turbine Gas Flow		Steam Injection		Ammonia Injection		Turbine Load	
R8_NOX PPM		RS_931AIC1111C.CCO		RS_931AIC1111B.O2		DBGASFLOW_A		GTGASFLOW		921-2015.WQ		931FIC1173_MV		921-2015.DWATT	
03-Mar-20 08:45:00	10.78	03-Mar-20 08:45:00	19.75	03-Mar-20 08:45:00	14.09	03-Mar-20 08:45:00	22.28	03-Mar-20 08:45:00	266.35	03-Mar-20 08:45:00	2.47	03-Mar-20 08:45:00	27.10	03-Mar-20 08:45:00	24.91
03-Mar-20 08:46:00	10.79	03-Mar-20 08:46:00	19.71	03-Mar-20 08:46:00	14.07	03-Mar-20 08:46:00	21.85	03-Mar-20 08:46:00	266.35	03-Mar-20 08:46:00	2.46	03-Mar-20 08:46:00	27.08	03-Mar-20 08:46:00	24.90
03-Mar-20 08:47:00	10.86	03-Mar-20 08:47:00	19.72	03-Mar-20 08:47:00	14.07	03-Mar-20 08:47:00	20.65	03-Mar-20 08:47:00	266.35	03-Mar-20 08:47:00	2.48	03-Mar-20 08:47:00	27.02	03-Mar-20 08:47:00	24.97
03-Mar-20 08:48:00	10.80	03-Mar-20 08:48:00	19.70	03-Mar-20 08:48:00	14.07	03-Mar-20 08:48:00	20.31	03-Mar-20 08:48:00	266.35	03-Mar-20 08:48:00	2.45	03-Mar-20 08:48:00	26.97	03-Mar-20 08:48:00	24.83
03-Mar-20 08:49:00	10.47	03-Mar-20 08:49:00	19.73	03-Mar-20 08:49:00	14.08	03-Mar-20 08:49:00	20.52	03-Mar-20 08:49:00	266.35	03-Mar-20 08:49:00	2.49	03-Mar-20 08:49:00	27.04	03-Mar-20 08:49:00	24.89
03-Mar-20 08:50:00	10.36	03-Mar-20 08:50:00	19.70	03-Mar-20 08:50:00	14.07	03-Mar-20 08:50:00	20.29	03-Mar-20 08:50:00	266.35	03-Mar-20 08:50:00	2.46	03-Mar-20 08:50:00	27.23	03-Mar-20 08:50:00	24.84
03-Mar-20 08:51:00	10.56	03-Mar-20 08:51:00	19.76	03-Mar-20 08:51:00	14.09	03-Mar-20 08:51:00	19.47	03-Mar-20 08:51:00	266.35	03-Mar-20 08:51:00	2.48	03-Mar-20 08:51:00	27.21	03-Mar-20 08:51:00	24.86
03-Mar-20 08:52:00	10.55	03-Mar-20 08:52:00	19.76	03-Mar-20 08:52:00	14.09	03-Mar-20 08:52:00	18.95	03-Mar-20 08:52:00	264.20	03-Mar-20 08:52:00	2.39	03-Mar-20 08:52:00	27.09	03-Mar-20 08:52:00	24.16
03-Mar-20 08:53:00	10.27	03-Mar-20 08:53:00	19.44	03-Mar-20 08:53:00	14.15	03-Mar-20 08:53:00	18.87	03-Mar-20 08:53:00	259.09	03-Mar-20 08:53:00	2.48	03-Mar-20 08:53:00	26.99	03-Mar-20 08:53:00	24.88
03-Mar-20 08:54:00	10.09	03-Mar-20 08:54:00	18.76	03-Mar-20 08:54:00	14.07	03-Mar-20 08:54:00	19.11	03-Mar-20 08:54:00	258.27	03-Mar-20 08:54:00	2.46	03-Mar-20 08:54:00	27.20	03-Mar-20 08:54:00	24.93
03-Mar-20 08:55:00	10.07	03-Mar-20 08:55:00	18.72	03-Mar-20 08:55:00	14.08	03-Mar-20 08:55:00	19.78	03-Mar-20 08:55:00	263.36	03-Mar-20 08:55:00	2.52	03-Mar-20 08:55:00	27.05	03-Mar-20 08:55:00	25.09
03-Mar-20 08:56:00	10.15	03-Mar-20 08:56:00	18.59	03-Mar-20 08:56:00	14.01	03-Mar-20 08:56:00	20.60	03-Mar-20 08:56:00	266.33	03-Mar-20 08:56:00	2.48	03-Mar-20 08:56:00	27.18	03-Mar-20 08:56:00	25.01
03-Mar-20 08:57:00	10.37	03-Mar-20 08:57:00	18.54	03-Mar-20 08:57:00	13.99	03-Mar-20 08:57:00	21.63	03-Mar-20 08:57:00	266.35	03-Mar-20 08:57:00	2.46	03-Mar-20 08:57:00	27.20	03-Mar-20 08:57:00	24.99
03-Mar-20 08:58:00	10.62	03-Mar-20 08:58:00	18.49	03-Mar-20 08:58:00	13.97	03-Mar-20 08:58:00	22.24	03-Mar-20 08:58:00	266.35	03-Mar-20 08:58:00	2.45	03-Mar-20 08:58:00	27.31	03-Mar-20 08:58:00	24.88
03-Mar-20 08:59:00	10.93	03-Mar-20 08:59:00	18.61	03-Mar-20 08:59:00	14.02	03-Mar-20 08:59:00	22.28	03-Mar-20 08:59:00	266.35	03-Mar-20 08:59:00	2.48	03-Mar-20 08:59:00	27.52	03-Mar-20 08:59:00	24.90
03-Mar-20 09:00:00	10.95	03-Mar-20 09:00:00	18.63	03-Mar-20 09:00:00	14.02	03-Mar-20 09:00:00	22.62	03-Mar-20 09:00:00	266.35	03-Mar-20 09:00:00	2.47	03-Mar-20 09:00:00	27.49	03-Mar-20 09:00:00	24.89
03-Mar-20 09:01:00	10.58	03-Mar-20 09:01:00	18.74	03-Mar-20 09:01:00	14.06	03-Mar-20 09:01:00	23.39	03-Mar-20 09:01:00	266.35	03-Mar-20 09:01:00	2.46	03-Mar-20 09:01:00	27.50	03-Mar-20 09:01:00	24.83
03-Mar-20 09:02:00	10.48	03-Mar-20 09:02:00	18.83	03-Mar-20 09:02:00	14.04	03-Mar-20 09:02:00	23.52	03-Mar-20 09:02:00	266.35	03-Mar-20 09:02:00	2.47	03-Mar-20 09:02:00	27.48	03-Mar-20 09:02:00	24.77
03-Mar-20 09:03:00	10.74	03-Mar-20 09:03:00	19.26	03-Mar-20 09:03:00	14.10	03-Mar-20 09:03:00	22.79	03-Mar-20 09:03:00	266.35	03-Mar-20 09:03:00	2.47	03-Mar-20 09:03:00	27.44	03-Mar-20 09:03:00	24.80
03-Mar-20 09:04:00	10.71	03-Mar-20 09:04:00	19.45	03-Mar-20 09:04:00	14.07	03-Mar-20 09:04:00	21.86	03-Mar-20 09:04:00	266.35	03-Mar-20 09:04:00	2.42	03-Mar-20 09:04:00	27.57	03-Mar-20 09:04:00	24.80
03-Mar-20 09:05:00	10.30	03-Mar-20 09:05:00	19.82	03-Mar-20 09:05:00	14.09	03-Mar-20 09:05:00	20.66	03-Mar-20 09:05:00	266.35	03-Mar-20 09:05:00	2.40	03-Mar-20 09:05:00	27.60	03-Mar-20 09:05:00	24.72
03-Mar-20 09:06:00	10.19	03-Mar-20 09:06:00	19.84	03-Mar-20 09:06:00	14.10	03-Mar-20 09:06:00	20.02	03-Mar-20 09:06:00	266.35	03-Mar-20 09:06:00	2.39	03-Mar-20 09:06:00	27.46	03-Mar-20 09:06:00	24.74
03-Mar-20 09:07:00	10.48	03-Mar-20 09:07:00	19.35	03-Mar-20 09:07:00	14.10	03-Mar-20 09:07:00	20.12	03-Mar-20 09:07:00	266.35	03-Mar-20 09:07:00	2.44	03-Mar-20 09:07:00	27.30	03-Mar-20 09:07:00	24.86
03-Mar-20 09:08:00	10.61	03-Mar-20 09:08:00	18.88	03-Mar-20 09:08:00	14.09	03-Mar-20 09:08:00	20.08	03-Mar-20 09:08:00	266.35	03-Mar-20 09:08:00	2.46	03-Mar-20 09:08:00	27.39	03-Mar-20 09:08:00	24.78
03-Mar-20 09:09:00	10.51	03-Mar-20 09:09:00	19.28	03-Mar-20 09:09:00	14.09	03-Mar-20 09:09:00	19.78	03-Mar-20 09:09:00	266.35	03-Mar-20 09:09:00	2.47	03-Mar-20 09:09:00	27.35	03-Mar-20 09:09:00	24.72
03-Mar-20 09:10:00	10.52	03-Mar-20 09:10:00	19.96	03-Mar-20 09:10:00	14.14	03-Mar-20 09:10:00	19.74	03-Mar-20 09:10:00	266.35	03-Mar-20 09:10:00	2.49	03-Mar-20 09:10:00	27.32	03-Mar-20 09:10:00	24.73
03-Mar-20 09:11:00	10.66	03-Mar-20 09:11:00	19.72	03-Mar-20 09:11:00	14.06	03-Mar-20 09:11:00	20.10	03-Mar-20 09:11:00	266.35	03-Mar-20 09:11:00	2.48	03-Mar-20 09:11:00	27.24	03-Mar-20 09:11:00	24.84
03-Mar-20 09:12:00	10.54	03-Mar-20 09:12:00	19.80	03-Mar-20 09:12:00	14.08	03-Mar-20 09:12:00	20.74	03-Mar-20 09:12:00	266.35	03-Mar-20 09:12:00	2.48	03-Mar-20 09:12:00	27.15	03-Mar-20 09:12:00	24.85
03-Mar-20 09:13:00	10.04	03-Mar-20 09:13:00	19.71	03-Mar-20 09:13:00	14.05	03-Mar-20 09:13:00	21.78	03-Mar-20 09:13:00	266.35	03-Mar-20 09:13:00	2.47	03-Mar-20 09:13:00	27.09	03-Mar-20 09:13:00	24.90
03-Mar-20 09:14:00	9.80	03-Mar-20 09:14:00	19.67	03-Mar-20 09:14:00	14.04	03-Mar-20 09:14:00	22.25	03-Mar-20 09:14:00	266.35	03-Mar-20 09:14:00	2.47	03-Mar-20 09:14:00	26.89	03-Mar-20 09:14:00	24.84
03-Mar-20 09:15:00	9.93	03-Mar-20 09:15:00	19.67	03-Mar-20 09:15:00	14.04	03-Mar-20 09:15:00	21.87	03-Mar-20 09:15:00	266.35	03-Mar-20 09:15:00	2.54	03-Mar-20 09:15:00	28.63	03-Mar-20 09:15:00	25.01
03-Mar-20 09:16:00	10.07	03-Mar-20 09:16:00	19.59	03-Mar-20 09:16:00	14.01	03-Mar-20 09:16:00	22.32	03-Mar-20 09:16:00	266.35	03-Mar-20 09:16:00	2.52	03-Mar-20 09:16:00	26.65	03-Mar-20 09:16:00	24.89
03-Mar-20 09:17:00	10.20	03-Mar-20 09:17:00	19.68	03-Mar-20 09:17:00	14.04	03-Mar-20 09:17:00	23.54	03-Mar-20 09:17:00	266.35	03-Mar-20 09:17:00	2.55	03-Mar-20 09:17:00	26.47	03-Mar-20 09:17:00	25.04
Average Stack NOx, ppm (15% O2)	10.45	Average Stack CO, ppm (15% O2)	19.36	Average Stack O2 (%)	14.06	Average Duct Burner Gas Flow (MSCFH)	21.10	Average Turbine Gas Flow (MSCFH)	265.73	Ave. Steam Injection Rate (lb/s)	2.47	Ave. Ammonia Injection (lb/hr)	27.19	Ave. Turbine Load (MWh)	24.85

286.83 * 1000 / 60 = 4780.5 cfm

New-Indy Oxnard, LLC
ROSEMOUNT CEMS SOURCE TEST - March 3, 2020

R-3

Stack NOx		Stack CO		Stack O2		Duct Burner Gas Flow		Turbine Gas Flow		Steam Injection		Ammonia Injection		Turbine Load	
RS_NOX PPM		RS_931AIC1111C.CCO		RS_931AIC1111B.O2		DBGASFLOW_A		GTGASFLOW		921-2016.WQ		931FIC1173_MV		921-2016.DWATT	
03-Mar-20 09:18:00	10.34	03-Mar-20 09:18:00	19.67	03-Mar-20 09:18:00	14.04	03-Mar-20 09:18:00	24.20	03-Mar-20 09:18:00	266.35	03-Mar-20 09:18:00	2.50	03-Mar-20 09:18:00	26.46	03-Mar-20 09:18:00	25.02
03-Mar-20 09:19:00	10.49	03-Mar-20 09:19:00	20.00	03-Mar-20 09:19:00	14.05	03-Mar-20 09:19:00	24.07	03-Mar-20 09:19:00	266.35	03-Mar-20 09:19:00	2.46	03-Mar-20 09:19:00	26.46	03-Mar-20 09:19:00	24.91
03-Mar-20 09:20:00	10.48	03-Mar-20 09:20:00	20.76	03-Mar-20 09:20:00	14.11	03-Mar-20 09:20:00	23.52	03-Mar-20 09:20:00	266.35	03-Mar-20 09:20:00	2.51	03-Mar-20 09:20:00	26.54	03-Mar-20 09:20:00	24.87
03-Mar-20 09:21:00	10.28	03-Mar-20 09:21:00	20.76	03-Mar-20 09:21:00	14.11	03-Mar-20 09:21:00	22.41	03-Mar-20 09:21:00	266.35	03-Mar-20 09:21:00	2.53	03-Mar-20 09:21:00	26.47	03-Mar-20 09:21:00	24.93
03-Mar-20 09:22:00	10.18	03-Mar-20 09:22:00	20.79	03-Mar-20 09:22:00	14.12	03-Mar-20 09:22:00	21.80	03-Mar-20 09:22:00	266.35	03-Mar-20 09:22:00	2.55	03-Mar-20 09:22:00	26.23	03-Mar-20 09:22:00	24.87
03-Mar-20 09:23:00	10.22	03-Mar-20 09:23:00	20.84	03-Mar-20 09:23:00	14.13	03-Mar-20 09:23:00	21.87	03-Mar-20 09:23:00	266.35	03-Mar-20 09:23:00	2.54	03-Mar-20 09:23:00	26.12	03-Mar-20 09:23:00	25.05
03-Mar-20 09:24:00	10.30	03-Mar-20 09:24:00	20.72	03-Mar-20 09:24:00	14.09	03-Mar-20 09:24:00	21.83	03-Mar-20 09:24:00	266.35	03-Mar-20 09:24:00	2.53	03-Mar-20 09:24:00	25.94	03-Mar-20 09:24:00	25.03
03-Mar-20 09:25:00	10.42	03-Mar-20 09:25:00	20.72	03-Mar-20 09:25:00	14.09	03-Mar-20 09:25:00	21.64	03-Mar-20 09:25:00	266.35	03-Mar-20 09:25:00	2.54	03-Mar-20 09:25:00	25.88	03-Mar-20 09:25:00	25.05
03-Mar-20 09:26:00	10.43	03-Mar-20 09:26:00	20.63	03-Mar-20 09:26:00	14.06	03-Mar-20 09:26:00	21.80	03-Mar-20 09:26:00	266.35	03-Mar-20 09:26:00	2.52	03-Mar-20 09:26:00	25.85	03-Mar-20 09:26:00	24.98
03-Mar-20 09:27:00	10.29	03-Mar-20 09:27:00	20.78	03-Mar-20 09:27:00	14.11	03-Mar-20 09:27:00	22.47	03-Mar-20 09:27:00	266.35	03-Mar-20 09:27:00	2.53	03-Mar-20 09:27:00	25.80	03-Mar-20 09:27:00	24.90
03-Mar-20 09:28:00	10.22	03-Mar-20 09:28:00	20.78	03-Mar-20 09:28:00	14.11	03-Mar-20 09:28:00	22.49	03-Mar-20 09:28:00	266.35	03-Mar-20 09:28:00	2.53	03-Mar-20 09:28:00	25.71	03-Mar-20 09:28:00	24.93
03-Mar-20 09:29:00	10.27	03-Mar-20 09:29:00	20.85	03-Mar-20 09:29:00	14.14	03-Mar-20 09:29:00	21.81	03-Mar-20 09:29:00	266.35	03-Mar-20 09:29:00	2.55	03-Mar-20 09:29:00	25.72	03-Mar-20 09:29:00	25.00
03-Mar-20 09:30:00	10.29	03-Mar-20 09:30:00	20.80	03-Mar-20 09:30:00	14.12	03-Mar-20 09:30:00	20.79	03-Mar-20 09:30:00	266.35	03-Mar-20 09:30:00	2.52	03-Mar-20 09:30:00	25.71	03-Mar-20 09:30:00	24.97
03-Mar-20 09:31:00	10.29	03-Mar-20 09:31:00	20.71	03-Mar-20 09:31:00	14.09	03-Mar-20 09:31:00	20.05	03-Mar-20 09:31:00	266.35	03-Mar-20 09:31:00	2.54	03-Mar-20 09:31:00	25.66	03-Mar-20 09:31:00	25.00
03-Mar-20 09:32:00	10.38	03-Mar-20 09:32:00	20.68	03-Mar-20 09:32:00	14.08	03-Mar-20 09:32:00	20.37	03-Mar-20 09:32:00	266.35	03-Mar-20 09:32:00	2.52	03-Mar-20 09:32:00	25.67	03-Mar-20 09:32:00	24.89
03-Mar-20 09:33:00	10.58	03-Mar-20 09:33:00	20.75	03-Mar-20 09:33:00	14.10	03-Mar-20 09:33:00	22.14	03-Mar-20 09:33:00	266.35	03-Mar-20 09:33:00	2.54	03-Mar-20 09:33:00	25.68	03-Mar-20 09:33:00	24.99
03-Mar-20 09:34:00	10.71	03-Mar-20 09:34:00	20.02	03-Mar-20 09:34:00	14.05	03-Mar-20 09:34:00	23.96	03-Mar-20 09:34:00	266.35	03-Mar-20 09:34:00	2.54	03-Mar-20 09:34:00	25.75	03-Mar-20 09:34:00	24.97
03-Mar-20 09:35:00	10.72	03-Mar-20 09:35:00	19.81	03-Mar-20 09:35:00	14.04	03-Mar-20 09:35:00	25.83	03-Mar-20 09:35:00	266.35	03-Mar-20 09:35:00	2.49	03-Mar-20 09:35:00	25.68	03-Mar-20 09:35:00	24.90
03-Mar-20 09:36:00	10.75	03-Mar-20 09:36:00	20.52	03-Mar-20 09:36:00	14.03	03-Mar-20 09:36:00	26.01	03-Mar-20 09:36:00	266.35	03-Mar-20 09:36:00	2.46	03-Mar-20 09:36:00	25.80	03-Mar-20 09:36:00	24.88
03-Mar-20 09:37:00	10.80	03-Mar-20 09:37:00	20.67	03-Mar-20 09:37:00	14.09	03-Mar-20 09:37:00	23.90	03-Mar-20 09:37:00	266.35	03-Mar-20 09:37:00	2.47	03-Mar-20 09:37:00	25.99	03-Mar-20 09:37:00	24.87
03-Mar-20 09:38:00	10.78	03-Mar-20 09:38:00	20.65	03-Mar-20 09:38:00	14.08	03-Mar-20 09:38:00	22.87	03-Mar-20 09:38:00	266.35	03-Mar-20 09:38:00	2.49	03-Mar-20 09:38:00	26.02	03-Mar-20 09:38:00	24.85
03-Mar-20 09:39:00	10.68	03-Mar-20 09:39:00	20.65	03-Mar-20 09:39:00	14.08	03-Mar-20 09:39:00	23.35	03-Mar-20 09:39:00	266.35	03-Mar-20 09:39:00	2.47	03-Mar-20 09:39:00	25.99	03-Mar-20 09:39:00	24.90
03-Mar-20 09:40:00	10.55	03-Mar-20 09:40:00	20.69	03-Mar-20 09:40:00	14.09	03-Mar-20 09:40:00	23.25	03-Mar-20 09:40:00	266.35	03-Mar-20 09:40:00	2.45	03-Mar-20 09:40:00	25.85	03-Mar-20 09:40:00	24.87
03-Mar-20 09:41:00	10.38	03-Mar-20 09:41:00	20.41	03-Mar-20 09:41:00	14.10	03-Mar-20 09:41:00	22.34	03-Mar-20 09:41:00	266.35	03-Mar-20 09:41:00	2.48	03-Mar-20 09:41:00	25.99	03-Mar-20 09:41:00	24.86
03-Mar-20 09:42:00	10.39	03-Mar-20 09:42:00	19.85	03-Mar-20 09:42:00	14.10	03-Mar-20 09:42:00	21.42	03-Mar-20 09:42:00	267.42	03-Mar-20 09:42:00	2.54	03-Mar-20 09:42:00	26.02	03-Mar-20 09:42:00	25.06
03-Mar-20 09:43:00	10.62	03-Mar-20 09:43:00	20.27	03-Mar-20 09:43:00	14.07	03-Mar-20 09:43:00	20.50	03-Mar-20 09:43:00	269.98	03-Mar-20 09:43:00	2.51	03-Mar-20 09:43:00	25.83	03-Mar-20 09:43:00	24.84
03-Mar-20 09:44:00	10.75	03-Mar-20 09:44:00	20.61	03-Mar-20 09:44:00	14.07	03-Mar-20 09:44:00	20.27	03-Mar-20 09:44:00	270.38	03-Mar-20 09:44:00	2.53	03-Mar-20 09:44:00	25.78	03-Mar-20 09:44:00	25.02
03-Mar-20 09:45:00	10.73	03-Mar-20 09:45:00	20.71	03-Mar-20 09:45:00	14.11	03-Mar-20 09:45:00	20.99	03-Mar-20 09:45:00	267.84	03-Mar-20 09:45:00	2.54	03-Mar-20 09:45:00	25.82	03-Mar-20 09:45:00	24.94
03-Mar-20 09:46:00	10.65	03-Mar-20 09:46:00	20.78	03-Mar-20 09:46:00	14.13	03-Mar-20 09:46:00	21.34	03-Mar-20 09:46:00	266.36	03-Mar-20 09:46:00	2.47	03-Mar-20 09:46:00	25.82	03-Mar-20 09:46:00	24.82
03-Mar-20 09:47:00	10.47	03-Mar-20 09:47:00	20.71	03-Mar-20 09:47:00	14.11	03-Mar-20 09:47:00	21.19	03-Mar-20 09:47:00	266.35	03-Mar-20 09:47:00	2.46	03-Mar-20 09:47:00	25.88	03-Mar-20 09:47:00	24.89
03-Mar-20 09:48:00	10.29	03-Mar-20 09:48:00	20.79	03-Mar-20 09:48:00	14.13	03-Mar-20 09:48:00	21.12	03-Mar-20 09:48:00	266.35	03-Mar-20 09:48:00	2.48	03-Mar-20 09:48:00	25.85	03-Mar-20 09:48:00	24.94
03-Mar-20 09:49:00	10.10	03-Mar-20 09:49:00	20.74	03-Mar-20 09:49:00	14.12	03-Mar-20 09:49:00	21.15	03-Mar-20 09:49:00	266.35	03-Mar-20 09:49:00	2.48	03-Mar-20 09:49:00	25.52	03-Mar-20 09:49:00	24.86
03-Mar-20 09:50:00	10.02	03-Mar-20 09:50:00	20.76	03-Mar-20 09:50:00	14.12	03-Mar-20 09:50:00	21.06	03-Mar-20 09:50:00	266.35	03-Mar-20 09:50:00	2.50	03-Mar-20 09:50:00	25.44	03-Mar-20 09:50:00	24.92
Average Stack NOx, ppm (15% O2)	**10.45**	**Average Stack CO, ppm (15% O2)**	**20.57**	**Average Stack O2 (%)**	**14.09**	**Average Duct Burner Gas Flow (MSCFH)**	**22.23**	**Average Turbine Gas Flow (MSCFH)**	**266.68**	**Ave. Steam Injection Rate (lb/s)**	**2.51**	**Ave. Ammonia Injection (lb/hr)**	**25.90**	**Ave. Turbine Load (MWh)**	**24.84**

288.83 × 1000 / 60 = 4813.83 ctm

Avg NH3 = 25.42 lb/h

Avg MWh = 24.87

Average Runs 1-3

4804.94 ctm

R-4

New-Indy Oxnard, LLC
ROSEMOUNT CEMS SOURCE TEST - March 3, 2020

Stack NOx		Stack CO		Stack O2		Duct Burner Gas Flow		Turbine Gas Flow		Steam Injection		Ammonia Injection		Turbine Load	
RS_NOX PPM		RS_931AIC1111C.CCO		RS_931AIC1111B.O2		DBGASFLOW_A		GTGASFLOW		921-2016.WQ		931FIC1173_MV		921-2015.DWATT	
03-Mar-20 10:00:00	11.45	03-Mar-20 10:00:00	20.11	03-Mar-20 10:00:00	14.04	03-Mar-20 10:00:00	21.33	03-Mar-20 10:00:00	266.35	03-Mar-20 10:00:00	2.51	03-Mar-20 10:00:00	25.99	03-Mar-20 10:00:00	24.94
03-Mar-20 10:01:00	11.12	03-Mar-20 10:01:00	19.63	03-Mar-20 10:01:00	14.03	03-Mar-20 10:01:00	20.84	03-Mar-20 10:01:00	266.35	03-Mar-20 10:01:00	2.53	03-Mar-20 10:01:00	26.03	03-Mar-20 10:01:00	24.97
03-Mar-20 10:02:00	10.89	03-Mar-20 10:02:00	19.79	03-Mar-20 10:02:00	14.09	03-Mar-20 10:02:00	19.87	03-Mar-20 10:02:00	266.35	03-Mar-20 10:02:00	2.54	03-Mar-20 10:02:00	25.97	03-Mar-20 10:02:00	24.93
03-Mar-20 10:03:00	10.77	03-Mar-20 10:03:00	19.81	03-Mar-20 10:03:00	14.10	03-Mar-20 10:03:00	19.33	03-Mar-20 10:03:00	266.35	03-Mar-20 10:03:00	2.55	03-Mar-20 10:03:00	26.06	03-Mar-20 10:03:00	24.98
03-Mar-20 10:04:00	10.64	03-Mar-20 10:04:00	19.79	03-Mar-20 10:04:00	14.09	03-Mar-20 10:04:00	19.17	03-Mar-20 10:04:00	266.35	03-Mar-20 10:04:00	2.54	03-Mar-20 10:04:00	25.94	03-Mar-20 10:04:00	24.92
03-Mar-20 10:05:00	10.50	03-Mar-20 10:05:00	19.79	03-Mar-20 10:05:00	14.09	03-Mar-20 10:05:00	19.68	03-Mar-20 10:05:00	266.35	03-Mar-20 10:05:00	2.52	03-Mar-20 10:05:00	25.81	03-Mar-20 10:05:00	24.92
03-Mar-20 10:06:00	10.28	03-Mar-20 10:06:00	20.46	03-Mar-20 10:06:00	14.13	03-Mar-20 10:06:00	19.87	03-Mar-20 10:06:00	266.35	03-Mar-20 10:06:00	2.54	03-Mar-20 10:06:00	25.63	03-Mar-20 10:06:00	24.96
03-Mar-20 10:07:00	9.97	03-Mar-20 10:07:00	20.68	03-Mar-20 10:07:00	14.08	03-Mar-20 10:07:00	19.63	03-Mar-20 10:07:00	266.35	03-Mar-20 10:07:00	2.53	03-Mar-20 10:07:00	25.47	03-Mar-20 10:07:00	24.98
03-Mar-20 10:08:00	9.73	03-Mar-20 10:08:00	20.75	03-Mar-20 10:08:00	14.10	03-Mar-20 10:08:00	19.83	03-Mar-20 10:08:00	266.35	03-Mar-20 10:08:00	2.53	03-Mar-20 10:08:00	25.18	03-Mar-20 10:08:00	24.92
03-Mar-20 10:09:00	9.56	03-Mar-20 10:09:00	20.49	03-Mar-20 10:09:00	14.01	03-Mar-20 10:09:00	20.66	03-Mar-20 10:09:00	266.35	03-Mar-20 10:09:00	2.54	03-Mar-20 10:09:00	24.88	03-Mar-20 10:09:00	24.93
03-Mar-20 10:10:00	9.52	03-Mar-20 10:10:00	20.44	03-Mar-20 10:10:00	14.00	03-Mar-20 10:10:00	21.73	03-Mar-20 10:10:00	266.35	03-Mar-20 10:10:00	2.52	03-Mar-20 10:10:00	24.72	03-Mar-20 10:10:00	24.92
03-Mar-20 10:11:00	9.66	03-Mar-20 10:11:00	20.40	03-Mar-20 10:11:00	13.99	03-Mar-20 10:11:00	23.13	03-Mar-20 10:11:00	266.35	03-Mar-20 10:11:00	2.52	03-Mar-20 10:11:00	24.52	03-Mar-20 10:11:00	24.91
03-Mar-20 10:12:00	9.79	03-Mar-20 10:12:00	20.34	03-Mar-20 10:12:00	13.97	03-Mar-20 10:12:00	23.55	03-Mar-20 10:12:00	266.35	03-Mar-20 10:12:00	2.54	03-Mar-20 10:12:00	24.19	03-Mar-20 10:12:00	24.90
03-Mar-20 10:13:00	9.92	03-Mar-20 10:13:00	19.78	03-Mar-20 10:13:00	13.96	03-Mar-20 10:13:00	22.63	03-Mar-20 10:13:00	266.35	03-Mar-20 10:13:00	2.55	03-Mar-20 10:13:00	24.18	03-Mar-20 10:13:00	24.82
03-Mar-20 10:14:00	9.98	03-Mar-20 10:14:00	20.17	03-Mar-20 10:14:00	14.04	03-Mar-20 10:14:00	22.71	03-Mar-20 10:14:00	266.35	03-Mar-20 10:14:00	2.53	03-Mar-20 10:14:00	24.04	03-Mar-20 10:14:00	24.98
03-Mar-20 10:15:00	9.85	03-Mar-20 10:15:00	20.46	03-Mar-20 10:15:00	14.01	03-Mar-20 10:15:00	24.18	03-Mar-20 10:15:00	266.35	03-Mar-20 10:15:00	2.51	03-Mar-20 10:15:00	23.92	03-Mar-20 10:15:00	24.97
03-Mar-20 10:16:00	10.05	03-Mar-20 10:16:00	20.56	03-Mar-20 10:16:00	14.04	03-Mar-20 10:16:00	24.42	03-Mar-20 10:16:00	266.35	03-Mar-20 10:16:00	2.54	03-Mar-20 10:16:00	23.78	03-Mar-20 10:16:00	24.90
03-Mar-20 10:17:00	10.31	03-Mar-20 10:17:00	20.59	03-Mar-20 10:17:00	14.05	03-Mar-20 10:17:00	22.93	03-Mar-20 10:17:00	266.35	03-Mar-20 10:17:00	2.55	03-Mar-20 10:17:00	23.67	03-Mar-20 10:17:00	25.04
03-Mar-20 10:18:00	10.34	03-Mar-20 10:18:00	20.42	03-Mar-20 10:18:00	13.99	03-Mar-20 10:18:00	21.72	03-Mar-20 10:18:00	266.35	03-Mar-20 10:18:00	2.52	03-Mar-20 10:18:00	23.60	03-Mar-20 10:18:00	25.10
03-Mar-20 10:19:00	10.07	03-Mar-20 10:19:00	20.68	03-Mar-20 10:19:00	14.00	03-Mar-20 10:19:00	20.86	03-Mar-20 10:19:00	266.35	03-Mar-20 10:19:00	2.52	03-Mar-20 10:19:00	23.36	03-Mar-20 10:19:00	25.08
03-Mar-20 10:20:00	9.91	03-Mar-20 10:20:00	21.55	03-Mar-20 10:20:00	14.07	03-Mar-20 10:20:00	20.44	03-Mar-20 10:20:00	267.42	03-Mar-20 10:20:00	2.54	03-Mar-20 10:20:00	23.31	03-Mar-20 10:20:00	25.00
03-Mar-20 10:21:00	9.82	03-Mar-20 10:21:00	20.61	03-Mar-20 10:21:00	14.03	03-Mar-20 10:21:00	20.53	03-Mar-20 10:21:00	269.98	03-Mar-20 10:21:00	2.54	03-Mar-20 10:21:00	23.22	03-Mar-20 10:21:00	24.97
03-Mar-20 10:22:00	9.85	03-Mar-20 10:22:00	20.91	03-Mar-20 10:22:00	14.07	03-Mar-20 10:22:00	20.38	03-Mar-20 10:22:00	270.38	03-Mar-20 10:22:00	2.51	03-Mar-20 10:22:00	23.16	03-Mar-20 10:22:00	24.91
03-Mar-20 10:23:00	10.00	03-Mar-20 10:23:00	21.54	03-Mar-20 10:23:00	14.07	03-Mar-20 10:23:00	19.92	03-Mar-20 10:23:00	267.84	03-Mar-20 10:23:00	2.53	03-Mar-20 10:23:00	23.10	03-Mar-20 10:23:00	25.03
03-Mar-20 10:24:00	10.05	03-Mar-20 10:24:00	20.85	03-Mar-20 10:24:00	14.08	03-Mar-20 10:24:00	19.79	03-Mar-20 10:24:00	266.36	03-Mar-20 10:24:00	2.55	03-Mar-20 10:24:00	23.00	03-Mar-20 10:24:00	24.92
03-Mar-20 10:25:00	10.11	03-Mar-20 10:25:00	21.18	03-Mar-20 10:25:00	14.10	03-Mar-20 10:25:00	20.14	03-Mar-20 10:25:00	266.35	03-Mar-20 10:25:00	2.51	03-Mar-20 10:25:00	22.85	03-Mar-20 10:25:00	24.97
03-Mar-20 10:26:00	10.22	03-Mar-20 10:26:00	20.68	03-Mar-20 10:26:00	14.08	03-Mar-20 10:26:00	20.88	03-Mar-20 10:26:00	266.35	03-Mar-20 10:26:00	2.55	03-Mar-20 10:26:00	22.89	03-Mar-20 10:26:00	24.89
03-Mar-20 10:27:00	10.42	03-Mar-20 10:27:00	20.55	03-Mar-20 10:27:00	14.03	03-Mar-20 10:27:00	22.16	03-Mar-20 10:27:00	266.35	03-Mar-20 10:27:00	2.53	03-Mar-20 10:27:00	22.77	03-Mar-20 10:27:00	24.92
03-Mar-20 10:28:00	10.44	03-Mar-20 10:28:00	20.54	03-Mar-20 10:28:00	14.02	03-Mar-20 10:28:00	23.05	03-Mar-20 10:28:00	266.35	03-Mar-20 10:28:00	2.51	03-Mar-20 10:28:00	22.61	03-Mar-20 10:28:00	24.84
03-Mar-20 10:29:00	10.22	03-Mar-20 10:29:00	20.50	03-Mar-20 10:29:00	14.01	03-Mar-20 10:29:00	23.39	03-Mar-20 10:29:00	266.35	03-Mar-20 10:29:00	2.47	03-Mar-20 10:29:00	22.57	03-Mar-20 10:29:00	24.85
03-Mar-20 10:30:00	10.23	03-Mar-20 10:30:00	20.47	03-Mar-20 10:30:00	14.00	03-Mar-20 10:30:00	23.47	03-Mar-20 10:30:00	266.35	03-Mar-20 10:30:00	2.53	03-Mar-20 10:30:00	22.79	03-Mar-20 10:30:00	24.83
03-Mar-20 10:31:00	10.54	03-Mar-20 10:31:00	20.47	03-Mar-20 10:31:00	14.00	03-Mar-20 10:31:00	23.20	03-Mar-20 10:31:00	266.35	03-Mar-20 10:31:00	2.51	03-Mar-20 10:31:00	22.57	03-Mar-20 10:31:00	24.89
03-Mar-20 10:32:00	10.71	03-Mar-20 10:32:00	20.42	03-Mar-20 10:32:00	13.98	03-Mar-20 10:32:00	23.10	03-Mar-20 10:32:00	266.35	03-Mar-20 10:32:00	2.53	03-Mar-20 10:32:00	22.77	03-Mar-20 10:32:00	24.90
Average Stack NOx, ppm (15% O2)	**10.22**	**Average Stack CO, ppm (15% O2)**	**20.47**	**Average Stack O2 (%)**	**14.04**	**Average Duct Burner Gas Flow (MSCFH)**	**21.47**	**Average Turbine Gas Flow (MSCFH)**	**266.66**	**Ave. Steam Injection Rate (lb/s)**	**2.53**	**Ave. Ammonia Injection (lb/hr)**	**24.08**	**Ave. Turbine Load (MWh)**	**24.95**

288.13 * 1000 / 60 = 4802.17 atm

Avg NH_3 = 23.16 lb/hr

Avg MWh = 25.06

average 4-5-6

4810, 11 atm

R-5

New-Indy Oxnard, LLC
ROSEMOUNT CEMS SOURCE TEST - March 3, 2020

Stack NOx		Stack CO		Stack O2		Duct Burner Gas Flow		Turbine Gas Flow		Steam Injection		Ammonia Injection		Turbine Load	
RS_NOX PPM		RB_931AIC1111C.CCO		RS_931AIC1111B.O2		OBGASFLOW_A		GTGASFLOW		921-2015.WQ		931FIC1173_MV		921-2015.DWATT	
03-Mar-20 10:33:00	10.70	03-Mar-20 10:33:00	20.47	03-Mar-20 10:33:00	14.00	03-Mar-20 10:33:00	23.21	03-Mar-20 10:33:00	266.35	03-Mar-20 10:33:00	2.55	03-Mar-20 10:33:00	22.74	03-Mar-20 10:33:00	24.99
03-Mar-20 10:34:00	10.70	03-Mar-20 10:34:00	20.63	03-Mar-20 10:34:00	14.05	03-Mar-20 10:34:00	22.86	03-Mar-20 10:34:00	266.35	03-Mar-20 10:34:00	2.52	03-Mar-20 10:34:00	22.50	03-Mar-20 10:34:00	24.96
03-Mar-20 10:35:00	10.72	03-Mar-20 10:35:00	20.50	03-Mar-20 10:35:00	14.01	03-Mar-20 10:35:00	21.85	03-Mar-20 10:35:00	266.35	03-Mar-20 10:35:00	2.53	03-Mar-20 10:35:00	22.61	03-Mar-20 10:35:00	24.96
03-Mar-20 10:36:00	10.66	03-Mar-20 10:36:00	20.71	03-Mar-20 10:36:00	14.04	03-Mar-20 10:36:00	21.35	03-Mar-20 10:36:00	266.35	03-Mar-20 10:36:00	2.54	03-Mar-20 10:36:00	22.47	03-Mar-20 10:36:00	24.93
03-Mar-20 10:37:00	10.50	03-Mar-20 10:37:00	21.56	03-Mar-20 10:37:00	14.09	03-Mar-20 10:37:00	21.56	03-Mar-20 10:37:00	266.35	03-Mar-20 10:37:00	2.54	03-Mar-20 10:37:00	22.40	03-Mar-20 10:37:00	24.95
03-Mar-20 10:38:00	10.41	03-Mar-20 10:38:00	21.51	03-Mar-20 10:38:00	14.06	03-Mar-20 10:38:00	21.51	03-Mar-20 10:38:00	266.35	03-Mar-20 10:38:00	2.51	03-Mar-20 10:38:00	22.36	03-Mar-20 10:38:00	24.99
03-Mar-20 10:39:00	10.41	03-Mar-20 10:39:00	21.43	03-Mar-20 10:39:00	14.03	03-Mar-20 10:39:00	21.12	03-Mar-20 10:39:00	266.35	03-Mar-20 10:39:00	2.54	03-Mar-20 10:39:00	22.31	03-Mar-20 10:39:00	24.90
03-Mar-20 10:40:00	10.37	03-Mar-20 10:40:00	21.44	03-Mar-20 10:40:00	14.04	03-Mar-20 10:40:00	20.90	03-Mar-20 10:40:00	266.35	03-Mar-20 10:40:00	2.54	03-Mar-20 10:40:00	22.26	03-Mar-20 10:40:00	24.92
03-Mar-20 10:41:00	10.29	03-Mar-20 10:41:00	21.53	03-Mar-20 10:41:00	14.08	03-Mar-20 10:41:00	20.92	03-Mar-20 10:41:00	266.35	03-Mar-20 10:41:00	2.52	03-Mar-20 10:41:00	22.13	03-Mar-20 10:41:00	24.87
03-Mar-20 10:42:00	10.29	03-Mar-20 10:42:00	21.63	03-Mar-20 10:42:00	14.10	03-Mar-20 10:42:00	20.79	03-Mar-20 10:42:00	266.35	03-Mar-20 10:42:00	2.53	03-Mar-20 10:42:00	22.24	03-Mar-20 10:42:00	24.92
03-Mar-20 10:43:00	10.41	03-Mar-20 10:43:00	21.48	03-Mar-20 10:43:00	14.05	03-Mar-20 10:43:00	20.44	03-Mar-20 10:43:00	266.35	03-Mar-20 10:43:00	2.55	03-Mar-20 10:43:00	22.02	03-Mar-20 10:43:00	24.97
03-Mar-20 10:44:00	10.53	03-Mar-20 10:44:00	21.40	03-Mar-20 10:44:00	14.02	03-Mar-20 10:44:00	20.32	03-Mar-20 10:44:00	266.35	03-Mar-20 10:44:00	2.51	03-Mar-20 10:44:00	22.10	03-Mar-20 10:44:00	24.91
03-Mar-20 10:45:00	10.65	03-Mar-20 10:45:00	21.37	03-Mar-20 10:45:00	14.02	03-Mar-20 10:45:00	20.49	03-Mar-20 10:45:00	266.35	03-Mar-20 10:45:00	2.52	03-Mar-20 10:45:00	22.00	03-Mar-20 10:45:00	24.91
03-Mar-20 10:46:00	10.64	03-Mar-20 10:46:00	21.19	03-Mar-20 10:46:00	14.04	03-Mar-20 10:46:00	21.13	03-Mar-20 10:46:00	266.35	03-Mar-20 10:46:00	2.54	03-Mar-20 10:46:00	22.08	03-Mar-20 10:46:00	24.92
03-Mar-20 10:47:00	10.47	03-Mar-20 10:47:00	20.43	03-Mar-20 10:47:00	13.99	03-Mar-20 10:47:00	22.39	03-Mar-20 10:47:00	266.35	03-Mar-20 10:47:00	2.55	03-Mar-20 10:47:00	22.10	03-Mar-20 10:47:00	24.93
03-Mar-20 10:48:00	10.40	03-Mar-20 10:48:00	20.74	03-Mar-20 10:48:00	14.03	03-Mar-20 10:48:00	23.31	03-Mar-20 10:48:00	266.35	03-Mar-20 10:48:00	2.51	03-Mar-20 10:48:00	22.01	03-Mar-20 10:48:00	24.96
03-Mar-20 10:49:00	10.46	03-Mar-20 10:49:00	21.45	03-Mar-20 10:49:00	14.02	03-Mar-20 10:49:00	23.75	03-Mar-20 10:49:00	266.35	03-Mar-20 10:49:00	2.54	03-Mar-20 10:49:00	22.01	03-Mar-20 10:49:00	25.00
03-Mar-20 10:50:00	10.50	03-Mar-20 10:50:00	20.94	03-Mar-20 10:50:00	13.98	03-Mar-20 10:50:00	23.92	03-Mar-20 10:50:00	266.35	03-Mar-20 10:50:00	2.58	03-Mar-20 10:50:00	22.09	03-Mar-20 10:50:00	25.11
03-Mar-20 10:51:00	10.53	03-Mar-20 10:51:00	21.35	03-Mar-20 10:51:00	14.03	03-Mar-20 10:51:00	23.72	03-Mar-20 10:51:00	266.35	03-Mar-20 10:51:00	2.53	03-Mar-20 10:51:00	22.07	03-Mar-20 10:51:00	25.12
03-Mar-20 10:52:00	10.62	03-Mar-20 10:52:00	21.39	03-Mar-20 10:52:00	14.01	03-Mar-20 10:52:00	23.70	03-Mar-20 10:52:00	267.42	03-Mar-20 10:52:00	2.58	03-Mar-20 10:52:00	22.17	03-Mar-20 10:52:00	25.17
03-Mar-20 10:53:00	10.79	03-Mar-20 10:53:00	21.44	03-Mar-20 10:53:00	14.03	03-Mar-20 10:53:00	23.92	03-Mar-20 10:53:00	269.88	03-Mar-20 10:53:00	2.56	03-Mar-20 10:53:00	22.16	03-Mar-20 10:53:00	25.04
03-Mar-20 10:54:00	10.69	03-Mar-20 10:54:00	21.55	03-Mar-20 10:54:00	14.06	03-Mar-20 10:54:00	23.55	03-Mar-20 10:54:00	270.38	03-Mar-20 10:54:00	2.54	03-Mar-20 10:54:00	21.80	03-Mar-20 10:54:00	25.04
03-Mar-20 10:55:00	10.21	03-Mar-20 10:55:00	21.55	03-Mar-20 10:55:00	14.08	03-Mar-20 10:55:00	22.39	03-Mar-20 10:55:00	267.84	03-Mar-20 10:55:00	2.54	03-Mar-20 10:55:00	22.13	03-Mar-20 10:55:00	25.14
03-Mar-20 10:56:00	10.01	03-Mar-20 10:56:00	21.41	03-Mar-20 10:56:00	14.02	03-Mar-20 10:56:00	21.58	03-Mar-20 10:56:00	267.43	03-Mar-20 10:56:00	2.52	03-Mar-20 10:56:00	22.19	03-Mar-20 10:56:00	25.01
03-Mar-20 10:57:00	10.20	03-Mar-20 10:57:00	21.62	03-Mar-20 10:57:00	14.09	03-Mar-20 10:57:00	21.27	03-Mar-20 10:57:00	269.98	03-Mar-20 10:57:00	2.53	03-Mar-20 10:57:00	22.25	03-Mar-20 10:57:00	25.01
03-Mar-20 10:58:00	10.37	03-Mar-20 10:58:00	21.50	03-Mar-20 10:58:00	14.05	03-Mar-20 10:58:00	21.05	03-Mar-20 10:58:00	270.38	03-Mar-20 10:58:00	2.54	03-Mar-20 10:58:00	22.29	03-Mar-20 10:58:00	25.10
03-Mar-20 10:59:00	10.54	03-Mar-20 10:59:00	21.55	03-Mar-20 10:59:00	14.06	03-Mar-20 10:59:00	20.95	03-Mar-20 10:59:00	267.84	03-Mar-20 10:59:00	2.52	03-Mar-20 10:59:00	22.23	03-Mar-20 10:59:00	25.12
03-Mar-20 11:00:00	10.57	03-Mar-20 11:00:00	21.58	03-Mar-20 11:00:00	14.07	03-Mar-20 11:00:00	20.88	03-Mar-20 11:00:00	266.36	03-Mar-20 11:00:00	2.54	03-Mar-20 11:00:00	22.13	03-Mar-20 11:00:00	25.12
03-Mar-20 11:01:00	10.40	03-Mar-20 11:01:00	21.63	03-Mar-20 11:01:00	14.09	03-Mar-20 11:01:00	20.85	03-Mar-20 11:01:00	266.35	03-Mar-20 11:01:00	2.52	03-Mar-20 11:01:00	22.17	03-Mar-20 11:01:00	25.14
03-Mar-20 11:02:00	10.48	03-Mar-20 11:02:00	21.60	03-Mar-20 11:02:00	14.08	03-Mar-20 11:02:00	20.78	03-Mar-20 11:02:00	266.35	03-Mar-20 11:02:00	2.53	03-Mar-20 11:02:00	22.28	03-Mar-20 11:02:00	25.17
03-Mar-20 11:03:00	10.89	03-Mar-20 11:03:00	21.57	03-Mar-20 11:03:00	14.07	03-Mar-20 11:03:00	20.68	03-Mar-20 11:03:00	266.35	03-Mar-20 11:03:00	2.54	03-Mar-20 11:03:00	22.36	03-Mar-20 11:03:00	25.05
03-Mar-20 11:04:00	11.03	03-Mar-20 11:04:00	21.71	03-Mar-20 11:04:00	14.11	03-Mar-20 11:04:00	20.57	03-Mar-20 11:04:00	266.35	03-Mar-20 11:04:00	2.54	03-Mar-20 11:04:00	22.44	03-Mar-20 11:04:00	25.18
03-Mar-20 11:05:00	10.78	03-Mar-20 11:05:00	21.57	03-Mar-20 11:05:00	14.07	03-Mar-20 11:05:00	20.46	03-Mar-20 11:05:00	266.35	03-Mar-20 11:05:00	2.52	03-Mar-20 11:05:00	22.51	03-Mar-20 11:05:00	25.12
Average Stack NOx, ppm (15% O2)	**10.52**	**Average Stack CO, ppm (15% O2)**	**21.32**	**Average Stack O2 (%)**	**14.05**	**Average Duct Burner Gas Flow (MSCFH)**	**21.76**	**Average Turbine Gas Flow (MSCFH)**	**266.97**	**Ave. Steam Injection Rate (lb/s)**	**2.54**	**Ave. Ammonia Injection (lb/hr)**	**22.23**	**Ave. Turbine Load (MWh)**	**25.02**

288.73 * 1000 / 60 = 4812.17 cfm

R-6

New-Indy Oxnard, LLC
ROSEMOUNT CEMS SOURCE TEST - March 3, 2020

Stack NOx		Stack CO		Stack O2		Duct Burner Gas Flow		Turbine Gas Flow		Steam Injection		Ammonia Injection		Turbine Load	
RS_NOX PPM		RS_931AIC1111C.CCO		RS_931AIC1111B.O2		DBGASFLOW_A		GTGASFLOW		921-2015.WQ		931FIC1173_MV		921-2015.DWATT	
03-Mar-20 11:06:00	10.66	03-Mar-20 11:06:00	21.81	03-Mar-20 11:06:00	14.08	03-Mar-20 11:06:00	20.35	03-Mar-20 11:06:00	266.35	03-Mar-20 11:06:00	2.55	03-Mar-20 11:06:00	22.44	03-Mar-20 11:06:00	25.15
03-Mar-20 11:07:00	10.68	03-Mar-20 11:07:00	21.52	03-Mar-20 11:07:00	14.05	03-Mar-20 11:07:00	20.25	03-Mar-20 11:07:00	266.35	03-Mar-20 11:07:00	2.54	03-Mar-20 11:07:00	22.49	03-Mar-20 11:07:00	25.13
03-Mar-20 11:08:00	10.66	03-Mar-20 11:08:00	21.33	03-Mar-20 11:08:00	13.98	03-Mar-20 11:08:00	20.40	03-Mar-20 11:08:00	267.42	03-Mar-20 11:08:00	2.51	03-Mar-20 11:08:00	22.42	03-Mar-20 11:08:00	25.08
03-Mar-20 11:09:00	10.56	03-Mar-20 11:09:00	21.35	03-Mar-20 11:09:00	14.00	03-Mar-20 11:09:00	20.90	03-Mar-20 11:09:00	269.98	03-Mar-20 11:09:00	2.53	03-Mar-20 11:09:00	22.50	03-Mar-20 11:09:00	25.07
03-Mar-20 11:10:00	10.52	03-Mar-20 11:10:00	21.37	03-Mar-20 11:10:00	14.01	03-Mar-20 11:10:00	21.59	03-Mar-20 11:10:00	270.38	03-Mar-20 11:10:00	2.53	03-Mar-20 11:10:00	22.64	03-Mar-20 11:10:00	25.05
03-Mar-20 11:11:00	10.54	03-Mar-20 11:11:00	20.91	03-Mar-20 11:11:00	14.04	03-Mar-20 11:11:00	22.52	03-Mar-20 11:11:00	267.84	03-Mar-20 11:11:00	2.54	03-Mar-20 11:11:00	22.66	03-Mar-20 11:11:00	25.18
03-Mar-20 11:12:00	10.54	03-Mar-20 11:12:00	20.61	03-Mar-20 11:12:00	14.04	03-Mar-20 11:12:00	23.05	03-Mar-20 11:12:00	268.36	03-Mar-20 11:12:00	2.53	03-Mar-20 11:12:00	22.69	03-Mar-20 11:12:00	25.20
03-Mar-20 11:13:00	10.51	03-Mar-20 11:13:00	20.72	03-Mar-20 11:13:00	14.01	03-Mar-20 11:13:00	23.02	03-Mar-20 11:13:00	268.35	03-Mar-20 11:13:00	2.53	03-Mar-20 11:13:00	22.90	03-Mar-20 11:13:00	25.20
03-Mar-20 11:14:00	10.43	03-Mar-20 11:14:00	21.51	03-Mar-20 11:14:00	14.04	03-Mar-20 11:14:00	22.30	03-Mar-20 11:14:00	268.35	03-Mar-20 11:14:00	2.55	03-Mar-20 11:14:00	22.90	03-Mar-20 11:14:00	25.08
03-Mar-20 11:15:00	10.30	03-Mar-20 11:15:00	21.60	03-Mar-20 11:15:00	14.07	03-Mar-20 11:15:00	20.64	03-Mar-20 11:15:00	266.35	03-Mar-20 11:15:00	2.53	03-Mar-20 11:15:00	22.87	03-Mar-20 11:15:00	25.25
03-Mar-20 11:16:00	10.23	03-Mar-20 11:16:00	21.50	03-Mar-20 11:16:00	14.04	03-Mar-20 11:16:00	19.62	03-Mar-20 11:16:00	266.35	03-Mar-20 11:16:00	2.52	03-Mar-20 11:16:00	22.74	03-Mar-20 11:16:00	25.17
03-Mar-20 11:17:00	10.26	03-Mar-20 11:17:00	21.62	03-Mar-20 11:17:00	14.08	03-Mar-20 11:17:00	19.50	03-Mar-20 11:17:00	266.35	03-Mar-20 11:17:00	2.52	03-Mar-20 11:17:00	22.86	03-Mar-20 11:17:00	25.18
03-Mar-20 11:18:00	10.41	03-Mar-20 11:18:00	21.57	03-Mar-20 11:18:00	14.08	03-Mar-20 11:18:00	19.43	03-Mar-20 11:18:00	267.42	03-Mar-20 11:18:00	2.58	03-Mar-20 11:18:00	22.84	03-Mar-20 11:18:00	25.20
03-Mar-20 11:19:00	10.75	03-Mar-20 11:19:00	21.67	03-Mar-20 11:19:00	14.09	03-Mar-20 11:19:00	19.46	03-Mar-20 11:19:00	269.98	03-Mar-20 11:19:00	2.61	03-Mar-20 11:19:00	22.83	03-Mar-20 11:19:00	25.30
03-Mar-20 11:20:00	10.93	03-Mar-20 11:20:00	21.63	03-Mar-20 11:20:00	14.08	03-Mar-20 11:20:00	19.53	03-Mar-20 11:20:00	271.46	03-Mar-20 11:20:00	2.57	03-Mar-20 11:20:00	22.85	03-Mar-20 11:20:00	25.32
03-Mar-20 11:21:00	10.89	03-Mar-20 11:21:00	21.60	03-Mar-20 11:21:00	14.07	03-Mar-20 11:21:00	19.68	03-Mar-20 11:21:00	271.47	03-Mar-20 11:21:00	2.58	03-Mar-20 11:21:00	22.90	03-Mar-20 11:21:00	25.25
03-Mar-20 11:22:00	10.82	03-Mar-20 11:22:00	21.90	03-Mar-20 11:22:00	14.16	03-Mar-20 11:22:00	19.67	03-Mar-20 11:22:00	270.39	03-Mar-20 11:22:00	2.59	03-Mar-20 11:22:00	22.99	03-Mar-20 11:22:00	25.32
03-Mar-20 11:23:00	10.72	03-Mar-20 11:23:00	21.67	03-Mar-20 11:23:00	14.09	03-Mar-20 11:23:00	19.47	03-Mar-20 11:23:00	267.84	03-Mar-20 11:23:00	2.61	03-Mar-20 11:23:00	23.03	03-Mar-20 11:23:00	25.19
03-Mar-20 11:24:00	10.69	03-Mar-20 11:24:00	21.56	03-Mar-20 11:24:00	14.06	03-Mar-20 11:24:00	10.37	03-Mar-20 11:24:00	267.43	03-Mar-20 11:24:00	2.61	03-Mar-20 11:24:00	23.07	03-Mar-20 11:24:00	25.27
03-Mar-20 11:25:00	10.77	03-Mar-20 11:25:00	21.44	03-Mar-20 11:25:00	14.02	03-Mar-20 11:25:00	19.45	03-Mar-20 11:25:00	269.98	03-Mar-20 11:25:00	2.58	03-Mar-20 11:25:00	23.12	03-Mar-20 11:25:00	25.27
03-Mar-20 11:26:00	10.81	03-Mar-20 11:26:00	21.64	03-Mar-20 11:26:00	14.09	03-Mar-20 11:26:00	19.60	03-Mar-20 11:26:00	270.38	03-Mar-20 11:26:00	2.60	03-Mar-20 11:26:00	23.19	03-Mar-20 11:26:00	25.30
03-Mar-20 11:27:00	10.76	03-Mar-20 11:27:00	21.86	03-Mar-20 11:27:00	14.09	03-Mar-20 11:27:00	19.88	03-Mar-20 11:27:00	267.84	03-Mar-20 11:27:00	2.60	03-Mar-20 11:27:00	23.29	03-Mar-20 11:27:00	25.29
03-Mar-20 11:28:00	10.76	03-Mar-20 11:28:00	21.22	03-Mar-20 11:28:00	14.03	03-Mar-20 11:28:00	20.45	03-Mar-20 11:28:00	267.43	03-Mar-20 11:28:00	2.59	03-Mar-20 11:28:00	23.38	03-Mar-20 11:28:00	25.31
03-Mar-20 11:29:00	10.81	03-Mar-20 11:29:00	20.59	03-Mar-20 11:29:00	14.02	03-Mar-20 11:29:00	21.44	03-Mar-20 11:29:00	269.98	03-Mar-20 11:29:00	2.60	03-Mar-20 11:29:00	23.40	03-Mar-20 11:29:00	25.22
03-Mar-20 11:30:00	10.82	03-Mar-20 11:30:00	20.63	03-Mar-20 11:30:00	14.04	03-Mar-20 11:30:00	21.85	03-Mar-20 11:30:00	271.46	03-Mar-20 11:30:00	2.60	03-Mar-20 11:30:00	23.31	03-Mar-20 11:30:00	25.27
03-Mar-20 11:31:00	10.78	03-Mar-20 11:31:00	20.64	03-Mar-20 11:31:00	14.04	03-Mar-20 11:31:00	21.82	03-Mar-20 11:31:00	271.47	03-Mar-20 11:31:00	2.56	03-Mar-20 11:31:00	23.39	03-Mar-20 11:31:00	25.16
03-Mar-20 11:32:00	10.73	03-Mar-20 11:32:00	20.63	03-Mar-20 11:32:00	14.04	03-Mar-20 11:32:00	21.52	03-Mar-20 11:32:00	270.39	03-Mar-20 11:32:00	2.57	03-Mar-20 11:32:00	23.41	03-Mar-20 11:32:00	25.27
03-Mar-20 11:33:00	10.67	03-Mar-20 11:33:00	20.61	03-Mar-20 11:33:00	14.03	03-Mar-20 11:33:00	21.02	03-Mar-20 11:33:00	267.84	03-Mar-20 11:33:00	2.59	03-Mar-20 11:33:00	23.69	03-Mar-20 11:33:00	25.24
03-Mar-20 11:34:00	10.59	03-Mar-20 11:34:00	20.55	03-Mar-20 11:34:00	14.01	03-Mar-20 11:34:00	20.45	03-Mar-20 11:34:00	267.43	03-Mar-20 11:34:00	2.62	03-Mar-20 11:34:00	23.82	03-Mar-20 11:34:00	25.22
03-Mar-20 11:35:00	10.47	03-Mar-20 11:35:00	20.64	03-Mar-20 11:35:00	14.00	03-Mar-20 11:35:00	19.77	03-Mar-20 11:35:00	269.98	03-Mar-20 11:35:00	2.57	03-Mar-20 11:35:00	23.47	03-Mar-20 11:35:00	25.18
03-Mar-20 11:36:00	10.47	03-Mar-20 11:36:00	21.62	03-Mar-20 11:36:00	14.08	03-Mar-20 11:36:00	19.08	03-Mar-20 11:36:00	270.38	03-Mar-20 11:36:00	2.58	03-Mar-20 11:36:00	23.40	03-Mar-20 11:36:00	25.14
03-Mar-20 11:37:00	10.63	03-Mar-20 11:37:00	21.60	03-Mar-20 11:37:00	14.07	03-Mar-20 11:37:00	18.38	03-Mar-20 11:37:00	267.84	03-Mar-20 11:37:00	2.59	03-Mar-20 11:37:00	23.38	03-Mar-20 11:37:00	25.19
03-Mar-20 11:38:00	10.60	03-Mar-20 11:38:00	21.69	03-Mar-20 11:38:00	14.10	03-Mar-20 11:38:00	18.12	03-Mar-20 11:38:00	267.43	03-Mar-20 11:38:00	2.60	03-Mar-20 11:38:00	23.14	03-Mar-20 11:38:00	25.26
Average Stack NOx, ppm (15% O2)	**10.63**	**Average Stack CO, ppm (15% O2)**	**21.28**	**Average Stack O2 (%)**	**14.05**	**Average Duct Burner Gas Flow (MSCFH)**	**20.41**	**Average Turbine Gas Flow (MSCFH)**	**268.55**	**Ave. Steam Injection Rate (lb/s)**	**2.57**	**Ave. Ammonia Injection (lb/hr)**	**23.02**	**Ave. Turbine Load (MWh)**	**25.21**

288.96 * 1000 / 60 = 4816.0 cfm

R-7

New-Indy Oxnard, LLC
ROSEMOUNT CEMS SOURCE TEST - March 3, 2020

Stack NOx		Stack CO		Stack O2		Duct Burner Gas Flow		Turbine Gas Flow		Steam Injection		Ammonia Injection		Turbine Load	
RS_NOX PPM		RS_931AIC1111C.CCO		RS_931AIC1111B.O2		DBGASFLOW_A		GTGASFLOW		921-2015.WQ		931FIC1173_MV		921-2015.DWATT	
03-Mar-20 12:00:00	10.35	03-Mar-20 12:00:00	21.79	03-Mar-20 12:00:00	14.14	03-Mar-20 12:00:00	19.43	03-Mar-20 12:00:00	270.38	03-Mar-20 12:00:00	2.61	03-Mar-20 12:00:00	22.96	03-Mar-20 12:00:00	25.33
03-Mar-20 12:01:00	10.62	03-Mar-20 12:01:00	21.56	03-Mar-20 12:01:00	14.07	03-Mar-20 12:01:00	20.20	03-Mar-20 12:01:00	267.84	03-Mar-20 12:01:00	2.60	03-Mar-20 12:01:00	22.95	03-Mar-20 12:01:00	25.34
03-Mar-20 12:02:00	10.64	03-Mar-20 12:02:00	21.51	03-Mar-20 12:02:00	14.05	03-Mar-20 12:02:00	20.25	03-Mar-20 12:02:00	267.43	03-Mar-20 12:02:00	2.55	03-Mar-20 12:02:00	22.91	03-Mar-20 12:02:00	25.27
03-Mar-20 12:03:00	10.32	03-Mar-20 12:03:00	21.50	03-Mar-20 12:03:00	14.05	03-Mar-20 12:03:00	18.31	03-Mar-20 12:03:00	269.98	03-Mar-20 12:03:00	2.53	03-Mar-20 12:03:00	22.87	03-Mar-20 12:03:00	25.27
03-Mar-20 12:04:00	10.18	03-Mar-20 12:04:00	21.62	03-Mar-20 12:04:00	14.09	03-Mar-20 12:04:00	18.83	03-Mar-20 12:04:00	270.38	03-Mar-20 12:04:00	2.51	03-Mar-20 12:04:00	22.82	03-Mar-20 12:04:00	25.15
03-Mar-20 12:05:00	10.29	03-Mar-20 12:05:00	21.51	03-Mar-20 12:05:00	14.05	03-Mar-20 12:05:00	19.33	03-Mar-20 12:05:00	267.84	03-Mar-20 12:05:00	2.57	03-Mar-20 12:05:00	22.87	03-Mar-20 12:05:00	25.21
03-Mar-20 12:06:00	10.40	03-Mar-20 12:06:00	21.64	03-Mar-20 12:06:00	14.09	03-Mar-20 12:06:00	18.38	03-Mar-20 12:06:00	267.43	03-Mar-20 12:06:00	2.58	03-Mar-20 12:06:00	23.02	03-Mar-20 12:06:00	25.26
03-Mar-20 12:07:00	10.52	03-Mar-20 12:07:00	21.47	03-Mar-20 12:07:00	14.04	03-Mar-20 12:07:00	18.94	03-Mar-20 12:07:00	269.98	03-Mar-20 12:07:00	2.60	03-Mar-20 12:07:00	23.06	03-Mar-20 12:07:00	25.30
03-Mar-20 12:08:00	10.82	03-Mar-20 12:08:00	21.51	03-Mar-20 12:08:00	14.05	03-Mar-20 12:08:00	19.06	03-Mar-20 12:08:00	271.46	03-Mar-20 12:08:00	2.62	03-Mar-20 12:08:00	23.10	03-Mar-20 12:08:00	25.31
03-Mar-20 12:09:00	10.67	03-Mar-20 12:09:00	21.29	03-Mar-20 12:09:00	14.06	03-Mar-20 12:09:00	19.84	03-Mar-20 12:09:00	271.47	03-Mar-20 12:09:00	2.59	03-Mar-20 12:09:00	23.14	03-Mar-20 12:09:00	25.28
03-Mar-20 12:10:00	10.67	03-Mar-20 12:10:00	21.50	03-Mar-20 12:10:00	14.05	03-Mar-20 12:10:00	20.52	03-Mar-20 12:10:00	271.47	03-Mar-20 12:10:00	2.60	03-Mar-20 12:10:00	23.18	03-Mar-20 12:10:00	25.30
03-Mar-20 12:11:00	10.58	03-Mar-20 12:11:00	21.47	03-Mar-20 12:11:00	14.04	03-Mar-20 12:11:00	20.70	03-Mar-20 12:11:00	271.47	03-Mar-20 12:11:00	2.60	03-Mar-20 12:11:00	23.20	03-Mar-20 12:11:00	25.38
03-Mar-20 12:12:00	10.55	03-Mar-20 12:12:00	21.45	03-Mar-20 12:12:00	14.03	03-Mar-20 12:12:00	21.01	03-Mar-20 12:12:00	270.39	03-Mar-20 12:12:00	2.58	03-Mar-20 12:12:00	23.20	03-Mar-20 12:12:00	25.19
03-Mar-20 12:13:00	10.60	03-Mar-20 12:13:00	21.40	03-Mar-20 12:13:00	14.01	03-Mar-20 12:13:00	21.50	03-Mar-20 12:13:00	267.84	03-Mar-20 12:13:00	2.59	03-Mar-20 12:13:00	23.20	03-Mar-20 12:13:00	25.26
03-Mar-20 12:14:00	10.56	03-Mar-20 12:14:00	21.39	03-Mar-20 12:14:00	14.01	03-Mar-20 12:14:00	21.90	03-Mar-20 12:14:00	267.43	03-Mar-20 12:14:00	2.61	03-Mar-20 12:14:00	23.20	03-Mar-20 12:14:00	25.23
03-Mar-20 12:15:00	10.40	03-Mar-20 12:15:00	21.47	03-Mar-20 12:15:00	14.04	03-Mar-20 12:15:00	22.17	03-Mar-20 12:15:00	269.98	03-Mar-20 12:15:00	2.59	03-Mar-20 12:15:00	23.20	03-Mar-20 12:15:00	25.28
03-Mar-20 12:16:00	10.38	03-Mar-20 12:16:00	21.39	03-Mar-20 12:16:00	14.01	03-Mar-20 12:16:00	22.12	03-Mar-20 12:16:00	271.46	03-Mar-20 12:16:00	2.59	03-Mar-20 12:16:00	23.20	03-Mar-20 12:16:00	25.30
03-Mar-20 12:17:00	10.54	03-Mar-20 12:17:00	21.40	03-Mar-20 12:17:00	14.02	03-Mar-20 12:17:00	21.63	03-Mar-20 12:17:00	271.47	03-Mar-20 12:17:00	2.60	03-Mar-20 12:17:00	23.20	03-Mar-20 12:17:00	25.45
03-Mar-20 12:18:00	10.57	03-Mar-20 12:18:00	21.43	03-Mar-20 12:18:00	14.03	03-Mar-20 12:18:00	21.05	03-Mar-20 12:18:00	271.47	03-Mar-20 12:18:00	2.59	03-Mar-20 12:18:00	23.20	03-Mar-20 12:18:00	25.41
03-Mar-20 12:19:00	10.45	03-Mar-20 12:19:00	21.41	03-Mar-20 12:19:00	14.02	03-Mar-20 12:19:00	20.34	03-Mar-20 12:19:00	271.47	03-Mar-20 12:19:00	2.61	03-Mar-20 12:19:00	23.20	03-Mar-20 12:19:00	25.39
03-Mar-20 12:20:00	10.44	03-Mar-20 12:20:00	21.63	03-Mar-20 12:20:00	14.09	03-Mar-20 12:20:00	19.75	03-Mar-20 12:20:00	271.47	03-Mar-20 12:20:00	2.58	03-Mar-20 12:20:00	23.20	03-Mar-20 12:20:00	25.31
03-Mar-20 12:21:00	10.60	03-Mar-20 12:21:00	21.86	03-Mar-20 12:21:00	14.16	03-Mar-20 12:21:00	19.33	03-Mar-20 12:21:00	271.47	03-Mar-20 12:21:00	2.58	03-Mar-20 12:21:00	23.33	03-Mar-20 12:21:00	25.28
03-Mar-20 12:22:00	10.68	03-Mar-20 12:22:00	21.68	03-Mar-20 12:22:00	14.11	03-Mar-20 12:22:00	19.22	03-Mar-20 12:22:00	271.47	03-Mar-20 12:22:00	2.61	03-Mar-20 12:22:00	23.40	03-Mar-20 12:22:00	25.32
03-Mar-20 12:23:00	10.65	03-Mar-20 12:23:00	21.65	03-Mar-20 12:23:00	14.10	03-Mar-20 12:23:00	19.51	03-Mar-20 12:23:00	271.47	03-Mar-20 12:23:00	2.59	03-Mar-20 12:23:00	23.32	03-Mar-20 12:23:00	25.29
03-Mar-20 12:24:00	10.70	03-Mar-20 12:24:00	21.81	03-Mar-20 12:24:00	14.15	03-Mar-20 12:24:00	19.51	03-Mar-20 12:24:00	271.47	03-Mar-20 12:24:00	2.57	03-Mar-20 12:24:00	23.40	03-Mar-20 12:24:00	25.35
03-Mar-20 12:25:00	10.84	03-Mar-20 12:25:00	21.89	03-Mar-20 12:25:00	14.11	03-Mar-20 12:25:00	19.09	03-Mar-20 12:25:00	271.47	03-Mar-20 12:25:00	2.59	03-Mar-20 12:25:00	23.43	03-Mar-20 12:25:00	25.34
03-Mar-20 12:26:00	10.83	03-Mar-20 12:26:00	21.55	03-Mar-20 12:26:00	14.06	03-Mar-20 12:26:00	18.98	03-Mar-20 12:26:00	271.47	03-Mar-20 12:26:00	2.61	03-Mar-20 12:26:00	23.41	03-Mar-20 12:26:00	25.36
03-Mar-20 12:27:00	10.61	03-Mar-20 12:27:00	21.61	03-Mar-20 12:27:00	14.08	03-Mar-20 12:27:00	19.31	03-Mar-20 12:27:00	271.47	03-Mar-20 12:27:00	2.61	03-Mar-20 12:27:00	23.81	03-Mar-20 12:27:00	25.48
03-Mar-20 12:28:00	10.56	03-Mar-20 12:28:00	21.74	03-Mar-20 12:28:00	14.12	03-Mar-20 12:28:00	19.23	03-Mar-20 12:28:00	271.47	03-Mar-20 12:28:00	2.58	03-Mar-20 12:28:00	23.81	03-Mar-20 12:28:00	25.40
03-Mar-20 12:29:00	10.75	03-Mar-20 12:29:00	21.57	03-Mar-20 12:29:00	14.07	03-Mar-20 12:29:00	18.59	03-Mar-20 12:29:00	271.47	03-Mar-20 12:29:00	2.59	03-Mar-20 12:29:00	23.69	03-Mar-20 12:29:00	25.42
03-Mar-20 12:30:00	10.75	03-Mar-20 12:30:00	21.34	03-Mar-20 12:30:00	14.00	03-Mar-20 12:30:00	18.56	03-Mar-20 12:30:00	271.47	03-Mar-20 12:30:00	2.60	03-Mar-20 12:30:00	23.61	03-Mar-20 12:30:00	25.39
03-Mar-20 12:31:00	10.49	03-Mar-20 12:31:00	21.45	03-Mar-20 12:31:00	14.03	03-Mar-20 12:31:00	19.37	03-Mar-20 12:31:00	271.47	03-Mar-20 12:31:00	2.58	03-Mar-20 12:31:00	23.58	03-Mar-20 12:31:00	25.26
03-Mar-20 12:32:00	10.39	03-Mar-20 12:32:00	21.56	03-Mar-20 12:32:00	14.07	03-Mar-20 12:32:00	20.16	03-Mar-20 12:32:00	271.47	03-Mar-20 12:32:00	2.61	03-Mar-20 12:32:00	23.58	03-Mar-20 12:32:00	25.45
Average Stack NOx, ppm (15% O2)	10.55	Average Stack CO, ppm (15% O2)	21.54	Average Stack O2 (%)	14.06	Average Duct Burner Gas Flow (MSCFH)	19.95	Average Turbine Gas Flow (MSCFH)	270.54	Ave. Steam Injection Rate (lb/s)	2.59	Ave. Ammonia Injection (lb/hr)	23.25	Ave. Turbine Load (MWh)	25.32

290.49 * 1000 / 60 = 4841.5 cfm

Average 7-8-9

4862.6 cfm

New-Indy Oxnard, LLC
ROSEMOUNT CEMS SOURCE TEST - March 3, 2020

Note 8

Stack NOx		Stack CO		Stack O2		Duct Burner Gas Flow		Turbine Gas Flow		Steam Injection		Ammonia Injection		Turbine Load	
R9_NOX PPM		R8_931AIC1111C.CCO		R5_931AIC1111B.O2		DBGASFLOW_A		GTGASFLOW		921-2015.WQ		931FIC1173_MV		921-2015.DWATT	
03-Mar-20 12:33:00	10.54	03-Mar-20 12:33:00	21.32	03-Mar-20 12:33:00	13.89	03-Mar-20 12:33:00	20.92	03-Mar-20 12:33:00	271.47	03-Mar-20 12:33:00	2.59	03-Mar-20 12:33:00	23.69	03-Mar-20 12:33:00	25.36
03-Mar-20 12:34:00	10.65	03-Mar-20 12:34:00	21.03	03-Mar-20 12:34:00	13.99	03-Mar-20 12:34:00	21.55	03-Mar-20 12:34:00	271.47	03-Mar-20 12:34:00	2.60	03-Mar-20 12:34:00	23.57	03-Mar-20 12:34:00	25.35
03-Mar-20 12:35:00	10.72	03-Mar-20 12:35:00	20.57	03-Mar-20 12:35:00	14.04	03-Mar-20 12:35:00	21.99	03-Mar-20 12:35:00	271.47	03-Mar-20 12:35:00	2.60	03-Mar-20 12:35:00	23.57	03-Mar-20 12:35:00	25.47
03-Mar-20 12:36:00	10.78	03-Mar-20 12:36:00	20.43	03-Mar-20 12:36:00	13.99	03-Mar-20 12:36:00	21.68	03-Mar-20 12:36:00	271.47	03-Mar-20 12:36:00	2.59	03-Mar-20 12:36:00	23.67	03-Mar-20 12:36:00	25.50
03-Mar-20 12:37:00	10.76	03-Mar-20 12:37:00	21.07	03-Mar-20 12:37:00	14.03	03-Mar-20 12:37:00	20.35	03-Mar-20 12:37:00	271.47	03-Mar-20 12:37:00	2.58	03-Mar-20 12:37:00	23.64	03-Mar-20 12:37:00	25.37
03-Mar-20 12:38:00	10.77	03-Mar-20 12:38:00	21.51	03-Mar-20 12:38:00	14.04	03-Mar-20 12:38:00	19.49	03-Mar-20 12:38:00	271.47	03-Mar-20 12:38:00	2.59	03-Mar-20 12:38:00	23.55	03-Mar-20 12:38:00	25.40
03-Mar-20 12:39:00	10.78	03-Mar-20 12:39:00	21.49	03-Mar-20 12:39:00	14.04	03-Mar-20 12:39:00	19.28	03-Mar-20 12:39:00	271.47	03-Mar-20 12:39:00	2.59	03-Mar-20 12:39:00	23.51	03-Mar-20 12:39:00	25.34
03-Mar-20 12:40:00	10.69	03-Mar-20 12:40:00	21.53	03-Mar-20 12:40:00	14.08	03-Mar-20 12:40:00	18.88	03-Mar-20 12:40:00	271.47	03-Mar-20 12:40:00	2.60	03-Mar-20 12:40:00	23.42	03-Mar-20 12:40:00	25.25
03-Mar-20 12:41:00	10.39	03-Mar-20 12:41:00	21.68	03-Mar-20 12:41:00	14.09	03-Mar-20 12:41:00	18.23	03-Mar-20 12:41:00	271.47	03-Mar-20 12:41:00	2.57	03-Mar-20 12:41:00	23.56	03-Mar-20 12:41:00	25.22
03-Mar-20 12:42:00	10.26	03-Mar-20 12:42:00	21.66	03-Mar-20 12:42:00	14.10	03-Mar-20 12:42:00	17.82	03-Mar-20 12:42:00	270.39	03-Mar-20 12:42:00	2.60	03-Mar-20 12:42:00	23.40	03-Mar-20 12:42:00	25.20
03-Mar-20 12:43:00	10.37	03-Mar-20 12:43:00	21.75	03-Mar-20 12:43:00	14.12	03-Mar-20 12:43:00	17.75	03-Mar-20 12:43:00	267.84	03-Mar-20 12:43:00	2.61	03-Mar-20 12:43:00	23.44	03-Mar-20 12:43:00	25.29
03-Mar-20 12:44:00	10.39	03-Mar-20 12:44:00	21.64	03-Mar-20 12:44:00	14.08	03-Mar-20 12:44:00	17.65	03-Mar-20 12:44:00	267.43	03-Mar-20 12:44:00	2.57	03-Mar-20 12:44:00	23.40	03-Mar-20 12:44:00	25.28
03-Mar-20 12:45:00	10.27	03-Mar-20 12:45:00	21.67	03-Mar-20 12:45:00	14.09	03-Mar-20 12:45:00	17.49	03-Mar-20 12:45:00	269.98	03-Mar-20 12:45:00	2.59	03-Mar-20 12:45:00	23.28	03-Mar-20 12:45:00	25.21
03-Mar-20 12:46:00	10.29	03-Mar-20 12:46:00	21.61	03-Mar-20 12:46:00	14.07	03-Mar-20 12:46:00	17.65	03-Mar-20 12:46:00	271.46	03-Mar-20 12:46:00	2.61	03-Mar-20 12:46:00	23.68	03-Mar-20 12:46:00	25.27
03-Mar-20 12:47:00	10.49	03-Mar-20 12:47:00	21.67	03-Mar-20 12:47:00	14.09	03-Mar-20 12:47:00	18.25	03-Mar-20 12:47:00	271.47	03-Mar-20 12:47:00	2.59	03-Mar-20 12:47:00	23.42	03-Mar-20 12:47:00	25.30
03-Mar-20 12:48:00	10.55	03-Mar-20 12:48:00	21.55	03-Mar-20 12:48:00	14.05	03-Mar-20 12:48:00	18.88	03-Mar-20 12:48:00	271.47	03-Mar-20 12:48:00	2.59	03-Mar-20 12:48:00	23.28	03-Mar-20 12:48:00	25.33
03-Mar-20 12:49:00	10.43	03-Mar-20 12:49:00	21.48	03-Mar-20 12:49:00	14.03	03-Mar-20 12:49:00	18.86	03-Mar-20 12:49:00	271.47	03-Mar-20 12:49:00	2.61	03-Mar-20 12:49:00	23.19	03-Mar-20 12:49:00	25.32
03-Mar-20 12:50:00	10.44	03-Mar-20 12:50:00	21.42	03-Mar-20 12:50:00	14.01	03-Mar-20 12:50:00	19.35	03-Mar-20 12:50:00	271.47	03-Mar-20 12:50:00	2.58	03-Mar-20 12:50:00	23.18	03-Mar-20 12:50:00	25.15
03-Mar-20 12:51:00	10.62	03-Mar-20 12:51:00	21.06	03-Mar-20 12:51:00	14.01	03-Mar-20 12:51:00	20.21	03-Mar-20 12:51:00	271.47	03-Mar-20 12:51:00	2.58	03-Mar-20 12:51:00	23.12	03-Mar-20 12:51:00	25.21
03-Mar-20 12:52:00	10.58	03-Mar-20 12:52:00	20.53	03-Mar-20 12:52:00	14.01	03-Mar-20 12:52:00	21.58	03-Mar-20 12:52:00	271.47	03-Mar-20 12:52:00	2.59	03-Mar-20 12:52:00	23.09	03-Mar-20 12:52:00	25.13
03-Mar-20 12:53:00	10.25	03-Mar-20 12:53:00	20.50	03-Mar-20 12:53:00	14.00	03-Mar-20 12:53:00	23.68	03-Mar-20 12:53:00	271.47	03-Mar-20 12:53:00	2.60	03-Mar-20 12:53:00	23.05	03-Mar-20 12:53:00	25.10
03-Mar-20 12:54:00	10.14	03-Mar-20 12:54:00	20.32	03-Mar-20 12:54:00	13.94	03-Mar-20 12:54:00	24.61	03-Mar-20 12:54:00	270.39	03-Mar-20 12:54:00	2.61	03-Mar-20 12:54:00	23.02	03-Mar-20 12:54:00	25.13
03-Mar-20 12:55:00	10.32	03-Mar-20 12:55:00	20.48	03-Mar-20 12:55:00	13.99	03-Mar-20 12:55:00	24.01	03-Mar-20 12:55:00	267.84	03-Mar-20 12:55:00	2.60	03-Mar-20 12:55:00	23.03	03-Mar-20 12:55:00	25.19
03-Mar-20 12:56:00	10.45	03-Mar-20 12:56:00	20.47	03-Mar-20 12:56:00	13.99	03-Mar-20 12:56:00	23.61	03-Mar-20 12:56:00	267.43	03-Mar-20 12:56:00	2.58	03-Mar-20 12:56:00	23.10	03-Mar-20 12:56:00	25.26
03-Mar-20 12:57:00	10.49	03-Mar-20 12:57:00	20.38	03-Mar-20 12:57:00	13.96	03-Mar-20 12:57:00	23.49	03-Mar-20 12:57:00	269.98	03-Mar-20 12:57:00	2.61	03-Mar-20 12:57:00	23.17	03-Mar-20 12:57:00	25.35
03-Mar-20 12:58:00	10.64	03-Mar-20 12:58:00	20.68	03-Mar-20 12:58:00	14.00	03-Mar-20 12:58:00	22.89	03-Mar-20 12:58:00	271.46	03-Mar-20 12:58:00	2.58	03-Mar-20 12:58:00	23.32	03-Mar-20 12:58:00	25.25
03-Mar-20 12:59:00	10.93	03-Mar-20 12:59:00	21.44	03-Mar-20 12:59:00	14.02	03-Mar-20 12:59:00	21.61	03-Mar-20 12:59:00	271.47	03-Mar-20 12:59:00	2.60	03-Mar-20 12:59:00	23.36	03-Mar-20 12:59:00	25.21
03-Mar-20 13:00:00	10.97	03-Mar-20 13:00:00	21.51	03-Mar-20 13:00:00	14.04	03-Mar-20 13:00:00	20.40	03-Mar-20 13:00:00	271.47	03-Mar-20 13:00:00	2.60	03-Mar-20 13:00:00	23.41	03-Mar-20 13:00:00	25.27
03-Mar-20 13:01:00	10.66	03-Mar-20 13:01:00	21.51	03-Mar-20 13:01:00	14.04	03-Mar-20 13:01:00	19.30	03-Mar-20 13:01:00	271.47	03-Mar-20 13:01:00	2.58	03-Mar-20 13:01:00	23.39	03-Mar-20 13:01:00	25.18
03-Mar-20 13:02:00	10.47	03-Mar-20 13:02:00	21.54	03-Mar-20 13:02:00	14.05	03-Mar-20 13:02:00	18.86	03-Mar-20 13:02:00	271.47	03-Mar-20 13:02:00	2.59	03-Mar-20 13:02:00	23.28	03-Mar-20 13:02:00	25.21
03-Mar-20 13:03:00	10.43	03-Mar-20 13:03:00	21.54	03-Mar-20 13:03:00	14.05	03-Mar-20 13:03:00	19.32	03-Mar-20 13:03:00	271.47	03-Mar-20 13:03:00	2.61	03-Mar-20 13:03:00	23.22	03-Mar-20 13:03:00	25.25
03-Mar-20 13:04:00	10.38	03-Mar-20 13:04:00	21.48	03-Mar-20 13:04:00	14.03	03-Mar-20 13:04:00	19.60	03-Mar-20 13:04:00	271.47	03-Mar-20 13:04:00	2.58	03-Mar-20 13:04:00	23.17	03-Mar-20 13:04:00	25.26
03-Mar-20 13:05:00	10.29	03-Mar-20 13:05:00	21.60	03-Mar-20 13:05:00	14.07	03-Mar-20 13:05:00	19.64	03-Mar-20 13:05:00	271.47	03-Mar-20 13:05:00	2.60	03-Mar-20 13:05:00	23.14	03-Mar-20 13:05:00	25.37
Average Stack NOx, ppm (15% O2)	10.62	Average Stack CO, ppm (15% O2)	21.22	Average Stack O2 (%)	14.03	Average Duct Burner Gas Flow (MSCFH)	20.26	Average Turbine Gas Flow (MSCFH)	270.85	Ave. Steam Injection Rate (lb/s)	2.59	Ave. Ammonia Injection (lb/hr)	23.34	Ave. Turbine Load (MWh)	25.28

291.11 * 1000 / 60 = 4851.83 cfm

R-9

New-Indy Oxnard, LLC
ROSEMOUNT CEMS SOURCE TEST - March 3, 2020

Stack NOx		Stack CO		Stack O2		Duct Burner Gas Flow		Turbine Gas Flow		Steam Injection		Ammonia Injection		Turbine Load	
RS_NOX PPM		RS_931AIC1111C.CCO		RS_931AIC1111B.O2		DBGASFLOW_A		GTGASFLOW		921-2015.WQ		931FIC1173_MV		921-2015.DWATT	
03-Mar-20 13:06:00	10.30	03-Mar-20 13:06:00	21.61	03-Mar-20 13:06:00	14.08	03-Mar-20 13:06:00	18.74	03-Mar-20 13:06:00	271.47	03-Mar-20 13:06:00	2.58	03-Mar-20 13:06:00	23.32	03-Mar-20 13:06:00	25.30
03-Mar-20 13:07:00	10.44	03-Mar-20 13:07:00	21.77	03-Mar-20 13:07:00	14.13	03-Mar-20 13:07:00	19.96	03-Mar-20 13:07:00	271.47	03-Mar-20 13:07:00	2.60	03-Mar-20 13:07:00	23.28	03-Mar-20 13:07:00	25.31
03-Mar-20 13:08:00	10.51	03-Mar-20 13:08:00	21.64	03-Mar-20 13:08:00	14.08	03-Mar-20 13:08:00	20.35	03-Mar-20 13:08:00	271.47	03-Mar-20 13:08:00	2.59	03-Mar-20 13:08:00	23.33	03-Mar-20 13:08:00	25.30
03-Mar-20 13:09:00	10.47	03-Mar-20 13:09:00	21.40	03-Mar-20 13:09:00	14.01	03-Mar-20 13:09:00	20.98	03-Mar-20 13:09:00	271.47	03-Mar-20 13:09:00	2.60	03-Mar-20 13:09:00	23.36	03-Mar-20 13:09:00	25.37
03-Mar-20 13:10:00	10.53	03-Mar-20 13:10:00	21.31	03-Mar-20 13:10:00	13.98	03-Mar-20 13:10:00	21.83	03-Mar-20 13:10:00	271.47	03-Mar-20 13:10:00	2.59	03-Mar-20 13:10:00	23.53	03-Mar-20 13:10:00	25.33
03-Mar-20 13:11:00	10.70	03-Mar-20 13:11:00	20.75	03-Mar-20 13:11:00	14.00	03-Mar-20 13:11:00	22.98	03-Mar-20 13:11:00	271.47	03-Mar-20 13:11:00	2.59	03-Mar-20 13:11:00	23.48	03-Mar-20 13:11:00	25.30
03-Mar-20 13:12:00	10.74	03-Mar-20 13:12:00	20.34	03-Mar-20 13:12:00	13.96	03-Mar-20 13:12:00	24.20	03-Mar-20 13:12:00	270.39	03-Mar-20 13:12:00	2.58	03-Mar-20 13:12:00	23.44	03-Mar-20 13:12:00	25.21
03-Mar-20 13:13:00	10.60	03-Mar-20 13:13:00	20.27	03-Mar-20 13:13:00	13.93	03-Mar-20 13:13:00	25.50	03-Mar-20 13:13:00	267.84	03-Mar-20 13:13:00	2.60	03-Mar-20 13:13:00	23.44	03-Mar-20 13:13:00	25.11
03-Mar-20 13:14:00	10.57	03-Mar-20 13:14:00	19.45	03-Mar-20 13:14:00	13.88	03-Mar-20 13:14:00	26.60	03-Mar-20 13:14:00	267.43	03-Mar-20 13:14:00	2.61	03-Mar-20 13:14:00	23.56	03-Mar-20 13:14:00	25.20
03-Mar-20 13:15:00	10.72	03-Mar-20 13:15:00	19.18	03-Mar-20 13:15:00	13.84	03-Mar-20 13:15:00	27.45	03-Mar-20 13:15:00	269.98	03-Mar-20 13:15:00	2.59	03-Mar-20 13:15:00	23.64	03-Mar-20 13:15:00	25.28
03-Mar-20 13:16:00	10.78	03-Mar-20 13:16:00	19.15	03-Mar-20 13:16:00	13.83	03-Mar-20 13:16:00	28.18	03-Mar-20 13:16:00	271.46	03-Mar-20 13:16:00	2.60	03-Mar-20 13:16:00	23.65	03-Mar-20 13:16:00	25.35
03-Mar-20 13:17:00	10.75	03-Mar-20 13:17:00	19.20	03-Mar-20 13:17:00	13.85	03-Mar-20 13:17:00	28.77	03-Mar-20 13:17:00	271.47	03-Mar-20 13:17:00	2.58	03-Mar-20 13:17:00	23.93	03-Mar-20 13:17:00	25.38
03-Mar-20 13:18:00	10.76	03-Mar-20 13:18:00	19.36	03-Mar-20 13:18:00	13.91	03-Mar-20 13:18:00	28.43	03-Mar-20 13:18:00	271.47	03-Mar-20 13:18:00	2.61	03-Mar-20 13:18:00	24.03	03-Mar-20 13:18:00	25.41
03-Mar-20 13:19:00	10.82	03-Mar-20 13:19:00	19.55	03-Mar-20 13:19:00	13.87	03-Mar-20 13:19:00	26.85	03-Mar-20 13:19:00	271.47	03-Mar-20 13:19:00	2.59	03-Mar-20 13:19:00	24.30	03-Mar-20 13:19:00	25.41
03-Mar-20 13:20:00	10.84	03-Mar-20 13:20:00	20.26	03-Mar-20 13:20:00	13.92	03-Mar-20 13:20:00	25.79	03-Mar-20 13:20:00	271.47	03-Mar-20 13:20:00	2.60	03-Mar-20 13:20:00	24.28	03-Mar-20 13:20:00	25.32
03-Mar-20 13:21:00	10.80	03-Mar-20 13:21:00	20.41	03-Mar-20 13:21:00	13.97	03-Mar-20 13:21:00	25.46	03-Mar-20 13:21:00	271.47	03-Mar-20 13:21:00	2.59	03-Mar-20 13:21:00	24.21	03-Mar-20 13:21:00	25.38
03-Mar-20 13:22:00	10.65	03-Mar-20 13:22:00	20.54	03-Mar-20 13:22:00	14.01	03-Mar-20 13:22:00	25.05	03-Mar-20 13:22:00	271.47	03-Mar-20 13:22:00	2.58	03-Mar-20 13:22:00	24.21	03-Mar-20 13:22:00	25.24
03-Mar-20 13:23:00	10.38	03-Mar-20 13:23:00	20.50	03-Mar-20 13:23:00	14.00	03-Mar-20 13:23:00	24.53	03-Mar-20 13:23:00	271.47	03-Mar-20 13:23:00	2.60	03-Mar-20 13:23:00	24.05	03-Mar-20 13:23:00	25.31
03-Mar-20 13:24:00	10.24	03-Mar-20 13:24:00	20.55	03-Mar-20 13:24:00	14.02	03-Mar-20 13:24:00	23.92	03-Mar-20 13:24:00	271.47	03-Mar-20 13:24:00	2.60	03-Mar-20 13:24:00	24.00	03-Mar-20 13:24:00	25.34
03-Mar-20 13:25:00	10.30	03-Mar-20 13:25:00	20.81	03-Mar-20 13:25:00	14.02	03-Mar-20 13:25:00	23.19	03-Mar-20 13:25:00	271.47	03-Mar-20 13:25:00	2.60	03-Mar-20 13:25:00	23.95	03-Mar-20 13:25:00	25.27
03-Mar-20 13:26:00	10.28	03-Mar-20 13:26:00	21.39	03-Mar-20 13:26:00	14.01	03-Mar-20 13:26:00	22.43	03-Mar-20 13:26:00	271.47	03-Mar-20 13:26:00	2.57	03-Mar-20 13:26:00	23.91	03-Mar-20 13:26:00	25.30
03-Mar-20 13:27:00	10.16	03-Mar-20 13:27:00	21.38	03-Mar-20 13:27:00	14.00	03-Mar-20 13:27:00	21.82	03-Mar-20 13:27:00	271.47	03-Mar-20 13:27:00	2.59	03-Mar-20 13:27:00	23.76	03-Mar-20 13:27:00	25.23
03-Mar-20 13:28:00	10.10	03-Mar-20 13:28:00	21.43	03-Mar-20 13:28:00	14.02	03-Mar-20 13:28:00	20.98	03-Mar-20 13:28:00	271.47	03-Mar-20 13:28:00	2.60	03-Mar-20 13:28:00	23.65	03-Mar-20 13:28:00	25.30
03-Mar-20 13:29:00	10.15	03-Mar-20 13:29:00	21.58	03-Mar-20 13:29:00	14.07	03-Mar-20 13:29:00	20.56	03-Mar-20 13:29:00	271.47	03-Mar-20 13:29:00	2.61	03-Mar-20 13:29:00	23.59	03-Mar-20 13:29:00	25.31
03-Mar-20 13:30:00	10.16	03-Mar-20 13:30:00	21.56	03-Mar-20 13:30:00	14.07	03-Mar-20 13:30:00	20.14	03-Mar-20 13:30:00	271.47	03-Mar-20 13:30:00	2.60	03-Mar-20 13:30:00	23.47	03-Mar-20 13:30:00	25.37
03-Mar-20 13:31:00	10.13	03-Mar-20 13:31:00	21.39	03-Mar-20 13:31:00	14.01	03-Mar-20 13:31:00	19.72	03-Mar-20 13:31:00	271.47	03-Mar-20 13:31:00	2.60	03-Mar-20 13:31:00	23.58	03-Mar-20 13:31:00	25.36
03-Mar-20 13:32:00	10.15	03-Mar-20 13:32:00	21.38	03-Mar-20 13:32:00	14.01	03-Mar-20 13:32:00	19.41	03-Mar-20 13:32:00	271.47	03-Mar-20 13:32:00	2.58	03-Mar-20 13:32:00	23.39	03-Mar-20 13:32:00	25.32
03-Mar-20 13:33:00	10.27	03-Mar-20 13:33:00	21.35	03-Mar-20 13:33:00	14.00	03-Mar-20 13:33:00	19.27	03-Mar-20 13:33:00	271.47	03-Mar-20 13:33:00	2.59	03-Mar-20 13:33:00	23.26	03-Mar-20 13:33:00	25.27
03-Mar-20 13:34:00	10.23	03-Mar-20 13:34:00	21.37	03-Mar-20 13:34:00	14.01	03-Mar-20 13:34:00	19.55	03-Mar-20 13:34:00	270.39	03-Mar-20 13:34:00	2.58	03-Mar-20 13:34:00	23.25	03-Mar-20 13:34:00	25.28
03-Mar-20 13:35:00	9.86	03-Mar-20 13:35:00	21.38	03-Mar-20 13:35:00	14.01	03-Mar-20 13:35:00	20.41	03-Mar-20 13:35:00	267.84	03-Mar-20 13:35:00	2.59	03-Mar-20 13:35:00	23.30	03-Mar-20 13:35:00	25.25
03-Mar-20 13:36:00	9.91	03-Mar-20 13:36:00	21.34	03-Mar-20 13:36:00	14.00	03-Mar-20 13:36:00	21.48	03-Mar-20 13:36:00	266.36	03-Mar-20 13:36:00	2.61	03-Mar-20 13:36:00	23.12	03-Mar-20 13:36:00	25.21
03-Mar-20 13:37:00	10.18	03-Mar-20 13:37:00	20.93	03-Mar-20 13:37:00	13.94	03-Mar-20 13:37:00	22.83	03-Mar-20 13:37:00	266.35	03-Mar-20 13:37:00	2.61	03-Mar-20 13:37:00	23.05	03-Mar-20 13:37:00	25.37
03-Mar-20 13:38:00	10.25	03-Mar-20 13:38:00	20.17	03-Mar-20 13:38:00	13.90	03-Mar-20 13:38:00	24.12	03-Mar-20 13:38:00	267.42	03-Mar-20 13:38:00	2.56	03-Mar-20 13:38:00	22.88	03-Mar-20 13:38:00	25.25
Average Stack NOx, ppm (15% O2)	**10.42**	**Average Stack CO, ppm (15% O2)**	**20.75**	**Average Stack O2 (%)**	**13.98**	**Average Duct Burner Gas Flow (MSCFH)**	**23.10**	**Average Turbine Gas Flow (MSCFH)**	**270.58**	**Ave. Steam Injection Rate (lb/s)**	**2.59**	**Ave. Ammonia Injection (lb/hr)**	**23.61**	**Ave. Turbine Load (MWh)**	**25.30**

293.68 * 1000/60 = 4894.67 cfm

Avg NH_3 = 23.40 dsm

Avg MWh = 25.30

EPA METHOD 20 MEASUREMENT
SYSTEM PERFORMANCE TIME

RESPONSE TIME

DATE OF TEST: 3-3-2020

PROBE LOCATION: Stack

ANALYZER TYPE & MODEL #

NOx: API 200EH

CO: API 300EM

O2: Teledyne 1400

Span Gas Concentration/Analyzer Full Scale Setting:

NOx; Gas, ppmv: 19.8 — Full Scale setting, ppmv 25

CO; Gas, ppmv: 81.2 — Full Scale setting, ppmv 100

O2; Gas, %: 19.9 — Full Scale setting, % 25

UPSCALE TIME - Analyzer + Sampling System:

Trial #	Nox	CO	O2
1	49	52	41 seconds
2	50	52	41 seconds
3	50	57	40 seconds
Average Response	50	56	41 seconds

DOWNSCALE - Analyzer + Sampling System:

Trial #	Nox	CO	O2
1	50	55	40 seconds
2	50	55	40 seconds
3	50	55	40 seconds
Average Response	50	55	40 seconds

Slower Average	50	56	41 seconds

DESCRIPTION OF METHOD(S) USED

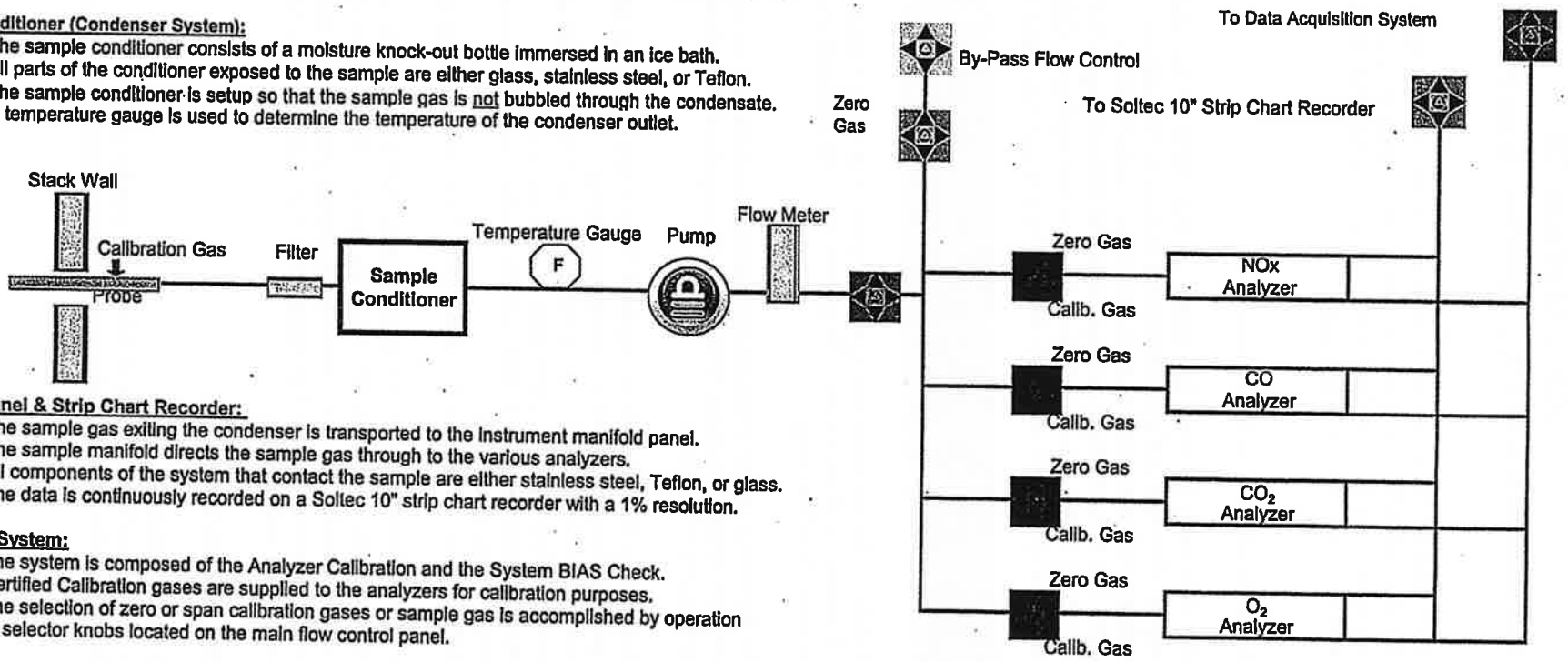
Method 100 – Sample Train Assembly

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 NO_2 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 O_2 by volume.

Carbon Dioxide – Non Dispersive Infrared (NDIR) Analyzer: The instrument measures the differential in 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 CO_2) and a sample cell through which the sample gas flows continuously. The output is in units of percent CO_2 by volume.

EPA Method 20

NOx, SO_2, and Diluent (O_2 or CO_2) Emissions from Stationary Gas Turbines

Principle: A sample of an exhaust gas stream is continuously extracted, conditioned, and conveyed to instrumental analyzers for the determination of NOx and diluent content. During each NOx and diluent determination, a separate measurement of SO_2 emissions is made, using Method 6 or its equivalent. The diluent determination is used to adjust the NOx and SO_2 concentration to a reference condition.

Measurement System: Performance Test Procedures

Calibration check: The difference between the known concentration of the CalGas and the gas concentration exhibited by the gas analyzer when the CalGas is introduced directly to the analyzer.

1) Calibrate the analyzer with zero and mid-level (45-55% of range) CalGas
2) Introduce low-level (20-30% of range) and high-level (80-90% of range) CalGas

Performance Spec: The linear curve determined from the zero and mid-level CalGas responses must predict the actual response of the low-level (NOx only) and high-level (NOx and O_2/CO_2) gases within **2%** of the range.

Sampling System BIAS: The difference between the gas concentrations exhibited by the measurement system when CalGas is introduced at the sampling probe tip / filter and when the same CalGas is introduced directly to the analyzer. *Performance Spec:* less than 5% of the range for the zero, mid-range, and high-range CalGas.

Zero Drift: The difference in the measurement system responses at a zero concentration level during the initial calibration, and final calibration check after a test. No adjustment to the measurement system is allowed at that po
Performance Spec: less than **2%** of the range

Calibration Drift: The difference in the measurement system responses at a mid-range concentration level during the initial calibration, and final calibration check after a test. No adjustment t is allowed at that point.
Performance Spec: less than **2%** of the range

Response time: Time required by data recorder to display 95% of a step change in gas concentration.

1) Introduce zero gas into the system until all readings are stable.
2) Switch to monitor stack effluent until a stable reading can be obtained. Record upscale response time.
3) Introduce high-level CalGas into the system until all readings are stable.
4) Switch to monitor stack effluent until a stable reading can be obtained. Record downscale response time.
5) Repeat the previous 4 steps three times

Performance Spec: No greater than **30 seconds** (or change of < 5% of the measured average concentration for 2 min)

Interference response: The output response of the measurement system to a component in the sample gas, other than the gas component being measured. Introduce the following gases, 500±50 ppm CO, 200±20 ppm SO_2, 10±1 ppm CO_2, 20.9±1 ppm O_2, and determine the total interference output response of the system to these components. Conduct the interference response check on each analyzer prior to its first use in the field.
Performance Spec: less than **2%** of the range

Emission Measurement Test Procedures

- Select sampling site as follows:
  1. Upstream of the point of introduction of dilution air into the duct;
  2. At least 2 stack diameters (or 5 feet whichever is less) upstream of stack outlet.

- Conduct preliminary O_2/CO_2 traverse to determine the sampling points of lowest O_2 or highest CO_2 concentration. Conduct this test at the turbine's lowest operating load mentioned in the test protocol.

- Select minimum # of points:
  1. 8 for stacks with cross-sectional areas < 1.5 m^2 (16.1 ft^2)
  2. 8 + 1 additional sample point per each 0.2m^2 (2.2ft^2) of areas for stacks whose areas 16.1f^2 < A < 107.6ft^2
  3. 49 (48 if circular stacks) for stacks whose cross-sectional areas are > 10.0 m^2 (107.6 ft^2)
  4. Use Method 1 to locate the traverse points

- Conduct preliminary diluent measurement while the turbine is operating at the lowest percent of peak load:
  1. Position probe at first traverse point and begin sampling for at least 1 minute + response time
  2. Do the same for each traverse point, recording the diluent concentration each time
  3. Select the 8 points at which the lowest O_2 (or highest CO_2) concentrations were obtained
  4. Sample at each of these selected points during each run at the different turbine load conditions

- **Three test runs at each load condition specified in the test protocol constitutes a complete test**

- ***Cleaning of sample train:*** Flush probe, lines and sample conditioner with DW, than acetone. Dry with filtered dry air.

- ***Allow Continuous Analyzers to warm up***

- ***Sampling system preparation:*** assemble sample train as shown in Fig 100.1-1, 100.1-2 and 100.1-3. Leak check the vacuum side of the assembly to a minimum of 20" of Hg (gauge). The sampling system should hold 20" of Hg vacuum for 5 minutes with less than 1" Hg loss. Check the pressure side of the system with liquid soap solution and correct any leaks.

- ***Allowable modifications:*** probe heating element can be eliminated if stack is at or below ambient temperature and condensation is not observed. Pitot tube can be eliminated if only concentration measurements are required.

- ***Calibrate analyzers and data recorders:*** introduce CalGases directly to the instruments and make all necessary adjustments to calibrate the analyzer and data recorder. Adjust system components to achieve manufacturer's recommended sampling rates.

- ***Instrument response time:*** establish during semi-annual certification

- ***Sampling system BIAS check:*** **Mandatory**

1. Backflash gas through the probe as necessary to prevent particulate buildup
2. Zero, and either mid-range or high-range (whichever is closest to effluent concentration)
3. Introduce upscale CalGas and record concentration on a form similar to 100.1-5
4. Introduce zero CalGas and record concentration
5. Make no adjustments to the system except those necessary to achieve the correct flow rate.
6. If invalid calibration is exhibited (> 5% of the range), take corrective action and repeat check.
7. If adjustment to the analyzer is required, first repeat the analyzer calibration error check, then repeat the sampling system BIAS check.

- ***NO2 to NO conversion check:*** EPA Method 20 or gas mixture of NO2 in air

Emission Test Procedure:

- Traverse stack to determine presence of stratification

- Single-point gas sampling is acceptable if gas composition is homogenous (<10% variation)

- Determine moisture content and velocity pressures or Mass flow rate may be obtained by stochiometric and gas composition relations

- ***Chart recorder label:*** turn on strip chart recorder and label the chart as to pollutant, source, range, calibration cylinder ID number, certified expiration date, zero and upper range calibration settings, chart speeds, date, time, operator.

- ***Sample probe traverse and minimum sampling time:***

1. Insert probe in stack
2. determine if single point sampling is acceptable
3. if traverse is required, leave the probe at each traverse point for at least the system response time + 1 minute.
4. minimum sampling time of 60 minute is recommended. See District Rules and Regulations and permit conditions for special requirements.
5. When test duration exceeds one hour, conduct zero and span checks every 2 hours. Adjust settings as necessary, mark strip charts and record in log books.

- ***Zero and Calibration DRIFT Tests:***

1. Immediately preceding and following each run, or if adjustments are necessary during the run, repeat the sampling system BIAS procedure. Make no adjustments to the system until after the DRIFT checks are complet Record the information on a form similar to Figure 100.1-5.
2. If run is invalid (sampling system BIAS specs exceeded), repeat entire procedure before repeating run.
3. If both the zero and upscale calibration values are within the sampling system BIAS specs, then use the average of the initial and final BIAS check values to calculate the gas concentration for the run.
4. If the zero or upscale calibration DRIFT exceeds the DRIFT limits, repeat entire procedure before conducting additional runs.

- ***Post Run Leak Check:***

INSTRUMENT INFORMATION

SOURCE EMISSION INSTRUMENTATION LIST

OXIDES OF NITROGEN

Unit No. - 1: Manufacturer: API Model No.: 200 EH Serial No.: 233 Method: Chemiluminescence Range (ppmv) 0-5000	**Unit No. - 6:** Manufacturer: API Model No.: 200 A Serial No.: 1013 Method: Chemiluminescence Range (ppmv) 0-50
Unit No. - 2: Manufacturer: API Model No.: 200 EH Serial No.: 234 Method: Chemiluminescence Range (ppmv) 0-5000	**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
Unit No. - 3: Manufacturer: API Model No.: 200 EH Serial No.: 109 Method: Chemiluminescence Range (ppmv) 0-5000	**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
Unit No. - 4: Manufacturer: API Model No.: 200 EH Serial No.: 442 Method: Chemiluminescence Range (ppmv) 0-5000	
Unit No. - 5: Manufacturer: API Model No.: 200 EH Serial No.: 441 Method: Chemiluminescence Range (ppmv) 0-5000	

AIR X TESTING

SOURCE EMISSION INSTRUMENTATION LIST

OXYGEN

Unit No. - 5:	
Manufacturer:	Teledyne
Model No.:	320-AX
Serial No.:	108743
Method:	Electrochemical
Range (%)	0-5, 10, 25
Unit No. - 7:	
Manufacturer:	Teledyne
Model No.:	320-AX
Serial No.:	108742
Method:	Electrochemical
Range (%)	0-5, 10, 25
Unit No. - 9:	
Manufacturer:	Servomex
Model No.:	1400
Serial No.:	01420/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
Unit No. - 13:	
Manufacturer:	Servomex
Model No.:	1400
Serial No.:	X1420/B707
Method:	Paramagnetic
Range (%)	0-25

AIR TESTING

SOURCE EMISSION INSTRUMENTATION LIST

CARBON MONOXIDE

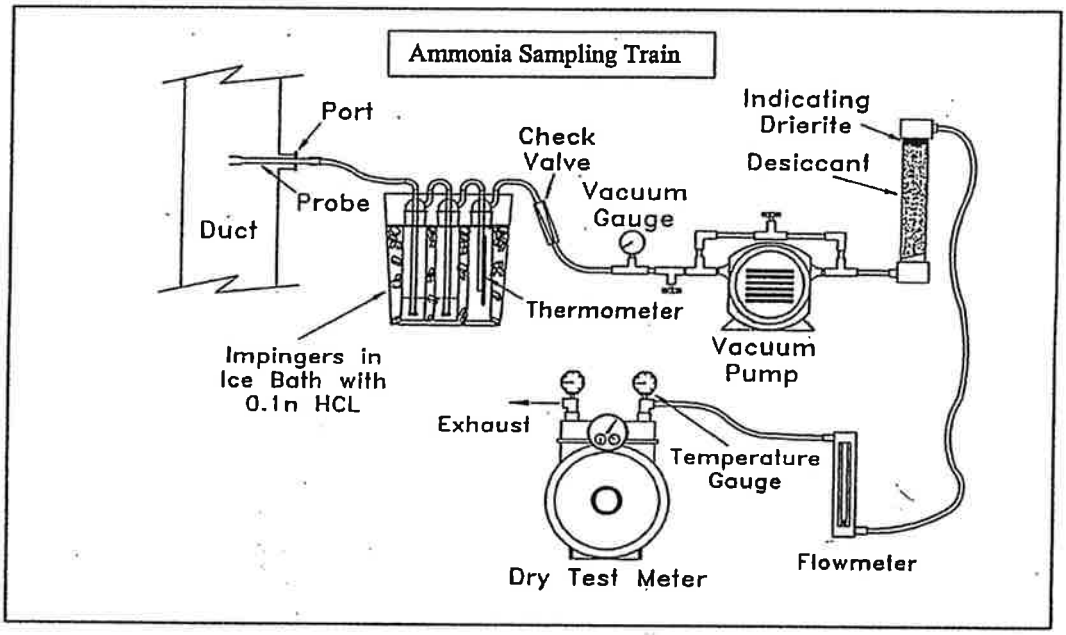
Unit No. - 1: Manufacturer: Model No.: Serial No.: Method: Range (ppmv	 API 300 EM 239 NDIR/GFC 0-5, 10, 25, 50, 100, 250, 500, 1000, 2500, 5000	**Unit No. - 2:** Manufacturer: Model No.: Serial No.: Method: Range (ppmv	 API 300 EM 240 NDIR/GFC 0-5, 10, 25, 50, 100, 250, 500, 1000, 2500, 5000
Unit No.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

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*
$Vo = (17.71)V_m P_b / T_m$ Where: Vo = Corrected sample volume to std conditions; T_m = Average run meter temperature (°R); V_m = Uncorrected meter volume (ft^3); P_b = Barometric pressure (inches Hg); 17.71 = Constant correcting to 70°F & 29.92 in.Hg.	$C = 5.02 \times 10^4 W / V_o$ 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.

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Praxair Distribution, Inc.
5700 S. Alameda Street
Los Angeles CA 90058
Tel: 323-585-2154
Fax: 714-542-6689
PGVP ID: F22018

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information

PRAXAIR PKG OXNARD CA HPS
455 E WOOLEY RD
OXNARD CA 93030

Certificate Modification Date: 11/29/2018
Praxair Order Number: 70784150
Part Number: NI NO12ME-AS

Fill Date: 11/06/2018
Lot Number: 70086831006
Cylinder Style & Outlet: AS CGA 660
Cylinder Pressure and Volume: 2000 psig 140 ft3

Certified Concentration

ProSpec EZ Cert

Expiration Date:	11/20/2021	NIST Traceable
Cylinder Number:	CC99748	Expanded Uncertainty
12.12 ppm	Nitric oxide	± 0.7 %
Balance	Nitrogen	

For Reference Only: *NOx 12.18 ppm*

Certification Information: *Certification Date:* 11/20/2018 *Term:* 36 Months *Expiration Date:* 11/20/2021

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.

Analytical Data: *(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)*

1. ***Component:*** Nitric oxide

Requested Concentration: 12 ppm
Certified Concentration: 12.12 ppm
Instrument Used: Thermo Electron 42i-LS S/N 1030645077
Analytical Method: Chemiluminescence
Last Multipoint Calibration: 11/20/2018

Reference Standard: Type / Cylinder #: GMIS / CC87780
Concentration / Uncertainty: 9.98 ppm ±0.51%
Expiration Date: 10/30/2019
Traceable to: SRM # / Sample # / Cylinder #: PRM#C1170510.01 / N/A / APEX1161172
SRM Concentration / Uncertainty: 10.00 / 0.05
SRM Expiration Date: 01/27/2019

First Analysis Data:					Date	11/13/2018
Z: 0	R: 9.98	C: 12.18	Conc: 12.17			
R: 9.99	Z: 0	C: 12.16	Conc: 12.15			
Z: 0	C: 12.19	R: 9.99	Conc: 12.18			
UOM: ppm		Mean Test Assay:	12.17 ppm			

Second Analysis Data:					Date	11/20/2018
Z: 0	R: 9.98	C: 12.07	Conc: 12.07			
R: 9.98	Z: 0	C: 12.08	Conc: 12.08			
Z: 0	C: 12.08	R: 9.99	Conc: 12.08			
UOM: ppm		Mean Test Assay:	12.07 ppm			

Analyzed By: Henry Koung (H.K.) Henry Koung

Certified By: Amalia Rosi

PRAXAIR

Praxair
5700 South Alameda Street
Los Angeles, CA 90058
Tel: (323) 585-2154 Fax:(714) 542-6689
PGVPID: F22017

DocNumber: 000112832

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

PRAXAIR PKG OXNARD CA HPS
455 E WOOLEY RD
OXNARD CA 93030

Praxair Order Number: 70319550
Customer P. O. Number:
Customer Reference Number:

Fill Date: 7/14/2017
Part Number: NI NO20ME-AS
Lot Number: 70086719512
Cylinder Style & Outlet: AS CGA 660
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	8/1/2020		NIST Traceable
Cylinder Number:	CC27837		Analytical Uncertainty:
19.7	ppm	NITRIC OXIDE	± 1 %
	Balance	NITROGEN	

NOx = 19.8 ppm — NOx for Reference Only

Certifcation Information: *Certification Date:* 8/1/2017 *Term:* 36 Months *Expiration Date:* 8/1/2020

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.

Analytical Data: *(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)*

1. Component: NITRIC OXIDE

Requested Concentration: 20 ppm
Certified Concentration: 19.7 ppm
Instrument Used: Thermo Electron 42i-LS S/N 1030645077
Analytical Method: Chemiluminescence
Last Multipoint Calibration: 7/21/2017

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC457593
Ref. Std. Conc: 20.07 ppm
Ref. Std. Traceable to SRM # : 2629a
SRM Sample # : 50-G-17
SRM Cylinder # : FF31691

First Analysis Data: Date: 7/25/2017

Z: 0	R: 20.1	C: 19.79	Conc:	19.76	
R: 20.1	Z: 0	C: 19.78	Conc:	19.75	
Z: 0	C: 19.78	R: 20.1	Conc:	19.75	
UOM: ppm		Mean Test Assay:		19.754 ppm	

Second Analysis Data: Date: 8/1/2017

Z: 0	R: 20.1	C: 19.72	Conc:	19.691	
R: 20.1	Z: 0	C: 19.7	Conc:	19.671	
Z: 0	C: 19.71	R: 20.1	Conc:	19.681	
UOM: ppm		Mean Test Assay:		19.681 ppm	

Analyzed by: Amalia Real

Certified by: Henry Koung

PRAXAIR
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5700 S. Alameda Street
Los Angeles, CA 90058
Tel: 323-585-2154
Fax: 714-542-6689

Customer & Order Information:

PRAXAIR PKG OXNARD CA HPS
455 E WOOLEY RD,
OXNARD, CA 93030

Praxair Order Number: **71041947**
Customer PO Number: **79026536**

Certificate Issuance Date: **8/13/2019**
Certification Date: **8/13/2019**
Lot Number: **70086922002**
Part Number: **NI NX20MP-AS**
DocNumber: **88150**
Expiration Date: **8/12/2020**

CERTIFICATE OF ANALYSIS
Primary Standard

Component	Requested Concentration (Molar)	Certified Concentration (Molar)	Analytical Reference	Analytical Uncertainty
Nitrogen dioxide (as NOx)	**20 ppm**	**21.4 ppm**	1	**± 1 %**
Nitrogen	**Balance**	**Balance**		

Cylinder Style: **AS**
Cylinder Pressure @ 70 F: **2000 psig**
Cylinder Volume: **142 ft3**
Valve Outlet Connection: **CGA 660**
Cylinder Number(s): **CC121480**

Fill Date: **8/8/2019**
Analysis Date: **8/12/2019**

Filling Method: **Gravimetric**

Comments: **This mixture contains 2% Oxygen.**

Analyst: Henry Koong

Approved Signer: **Leeanna Flores**

Key to Analytical Techniques:

Reference	Analytical Instrument - Analytical Principle
1	MKS MG2031 - FTIR

The gas calibration cylinder standard prepared by Praxair Distribution, Inc. is considered a certified standard. It is prepared by gravimetric, volumetric, or partial pressure techniques. The calibration standard provided is certified against Praxair Distribution, Inc. Reference Materials which are either prepared by weights traceable to the National Institute of Standards and Technology (NIST), Measurement Canada, or by using NIST Standard Reference Materials where available.

Note. All expressions for concentration (e.g., % or ppm) are for gas phase, by volume (e.g., ppmv) unless otherwise noted. Analytical uncertainty is expressed as a Relative % unless otherwise noted.

PRAXAIR

Praxair
5700 South Alameda Street
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Tel: (323) 585-2154 Fax:(714) 542-6689
PGVPID: F22017

DocNumber: 000116258

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

PRAXAIR PKG OXNARD CA HPS
455 E WOOLEY RD
OXNARD CA 93030

Praxair Order Number: 70394045
Customer P. O. Number:
Customer Reference Number:

Fill Date: 10/16/2017
Part Number: EV NICDOXE90-AS
Lot Number: 70086728905
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	10/20/2025	NIST Traceable
Cylinder Number:	SA17161	Analytical Uncertainty:
4.01 %	CARBON DIOXIDE	± 0.5 %
12.11 %	OXYGEN	± 0.3 %
Balance	NITROGEN	

Certifcation Information: *Certification Date:* 10/20/2017 *Term:* 96 Months *Expiration Date:* 10/20/2025

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.

CO2 responses have been corrected for O2 IR broadening effect. 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: 4.01 %
Instrument Used: Horiba VIA-510 S/N 20C194WK
Analytical Method: NDIR
Last Multipoint Calibration: 10/12/2017

First Analysis Data:					Date: 10/20/2017
Z: 0	R: 7	C: 4.02	Conc:	4.003	
R: 7.04	Z: 0	C: 4.03	Conc:	4.013	
Z: 0	C: 4.03	R: 7.05	Conc:	4.013	
UOM: %		Mean Test Assay:		4.009 %	

Reference Standard Type: GMIS
Ref. Std. Cylinder # : DT0008914
Ref. Std. Conc: 7.00 %
Ref. Std. Traceable to SRM # : 1674b
SRM Sample # : 7-H-07
SRM Cylinder # : FF10631

Second Analysis Data:					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 %	

2. Component: OXYGEN

Requested Concentration: 12 %
Certified Concentration: 12.11 %
Instrument Used: PARA 1 OXYMAT 5E
Analytical Method: PARAMAGNETIC
Last Multipoint Calibration: 9/25/2017

First Analysis Data:					Date: 10/20/2017
Z: 0	R: 14.96	C: 12.11	Conc:	12.105	
R: 14.96	Z: 0	C: 12.11	Conc:	12.105	
Z: 0	C: 12.13	R: 14.98	Conc:	12.125	
UOM: %		Mean Test Assay:		12.111 %	

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC81686
Ref. Std. Conc: 14.96%
Ref. Std. Traceable to SRM # : 2659a
SRM Sample # : 71-E-19
SRM Cylinder # : FF22331

Second Analysis Data:					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 %	

Analyzed by: Jose Vasquez

Certified by: Jenna Lockhart

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: A52013
AIR LIQUIDE AMERICA SPECIALTY GASES LLC
8832 DICE ROAD
SANTA FE SPRINGS, CA 90670-2516

P.O. No.: AIRX-FRESNO
Document # : 53195873-007

Customer
ALA-CYL-UNION CITY (LOC 84227)
TRANSFER ACCOUNT
700 DECOTO ROAD
UNION CITY CA 94587
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: ALM024672 **Certification Date:** 02Dec2013 **Exp. Date:** 03Dec2021
Cylinder Pressure: 2000 PSIG **Batch No:** SBO0081471

COMPONENT	CERTIFIED CONCENTRATION (Moles)	ACCURACY (ABSOLUTE / RELATIVE)
CARBON DIOXIDE	8.14 %	0.05 % / 0.6 %
OXYGEN	19.9 %	0.13 % / 0.7 %
NITROGEN	BALANCE	

TRACEABILITY

REFERENCE STANDARD

COMPONENT	CONCENTRATION	UNCERTAINTY	CYLINDER	TYPE/SRM SAMPLE	EXP. DATE
CARBON DIOXIDE	7.0160 %	0.0350 %	K003719	NTRM 1674	03Feb2016
OXYGEN	20.8500 %	0.1300 %	K000461	NTRM 2659/020500	14May2018

ANALYTICAL METHOD

1st Analysis: 02Dec2013

COMPONENT	INSTRUMENT	ANALYTICAL/PRINCIPLE	CALIBRATED	CONCENTRATION
CARBON DIOXIDE	VARIAN B/3400/2806	FID & TCD	02Dec2013	8.136 %
OXYGEN	VARIAN B/3400/2806	FID & TCD	25Nov2013	19.93 %

APPROVED BY: DC

PRAXAIR

Praxair
5700 South Alameda Street
Los Angeles, CA 90058
Tel: (323) 585-2154 Fax:(714) 542-6689
PGVPID: F22017

DocNumber: 000105446

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

PRAXAIR PKG OXNARD CA HPS
455 E WOOLEY RD
OXNARD CA 93030

Praxair Order Number: 70207603
Customer P. O. Number:
Customer Reference Number:

Fill Date: 2/22/2017
Part Number: NI CO40ME-AS
Lot Number: 109705308
Cylinder Style & Outlet: AS CGA 350
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	3/7/2025		
Cylinder Number:	CC272657		NIST Traceable Analytical Uncertainty:
40.0	ppm	CARBON MONOXIDE	± 0.5 %
Balance		NITROGEN	

Certifcation Information: *Certification Date:* 3/7/2017 *Term:* 96 Months *Expiration Date:* 3/7/2025
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.

Analytical Data: *(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)*

1. Component: CARBON MONOXIDE

Requested Concentration: 40 ppm
Certified Concentration: 40.0 ppm
Instrument Used: Horiba VIA-510 S/N 576876015
Analytical Method: NDIR
Last Multipoint Calibration: 3/1/2017

First Analysis Data:						Date: 3/7/2017
Z: 0	R: 50.2	C: 39.8	Conc: 40.012			
R: 50	Z: 0	C: 39.8	Conc: 40.012			
Z: 0	C: 39.8	R: 49.9	Conc: 40.012			
UOM: ppm		Mean Test Assay:	40.012 ppm			

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC186877
Ref. Std. Conc: 50.3 ppm
Ref. Std. Traceable to SRM # : 1678c
SRM Sample # : 04-I-41
SRM Cylinder # : FF18402

Second Analysis Data:						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: ppm		Mean Test Assay:	0 ppm			

Analyzed by: Ying Yu

Certified by: Nassim Haddad

PRAXAIR
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DocNumber: 253976

Praxair Distribution, Inc.
5700 S. Alameda Street
Los Angeles CA 90058
Tel: 323-585-2154
Fax: 714-542-6689
PGVP ID: F22019

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information

PRAXAIR PKG OXNARD CA HPS
455 E WOOLEY RD
OXNARD CA 93030

Certificate Issuance Date: 06/27/2019
Praxair Order Number: 70998288
Part Number: NI CO80ME-AS
Customer PO Number: 78981976

Fill Date: 06/13/2019
Lot Number: 70086916403
Cylinder Style & Outlet: AS CGA 350
Cylinder Pressure and Volume: 2000 psig 140 ft3

Certified Concentration

ProSpec EZ Cert

Expiration Date:	06/18/2027	NIST Traceable
Cylinder Number:	EB0020337	Expanded Uncertainty
81.2 ppm	Carbon monoxide	± 0.4 %
Balance	Nitrogen	

Certification Information:

Certification Date: 06/18/2019 *Term:* 96 Months *Expiration Date:* 06/18/2027

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.

Analytical Data:

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

1. ***Component:*** **Carbon monoxide**

Requested Concentration: 80 ppm
Certified Concentration: 81.2 ppm
Instrument Used: Horiba VIA-510 S/N 576876015
Analytical Method: NDIR
Last Multipoint Calibration: 06/05/2019

Reference Standard: Type / Cylinder #: SRM / FF28593
Concentration / Uncertainty: 98.40 ppm ±0.4065%
Expiration Date: 01/28/2020
Traceable to: SRM # / Sample # / Cylinder #: SRM 1679c / 3-I-45 / FF28593
SRM Concentration / Uncertainty: 98.40 PPM / ±0.40 PPM
SRM Expiration Date: 01/28/2020

First Analysis Data:						Date	06/18/2019
Z:	0	R:	98.4	C:	81.2	Conc:	81.2
R:	98.4	Z:	0	C:	81.2	Conc:	81.2
Z:	0	C:	81.3	R:	98.4	Conc:	81.3
UOM:	ppm				Mean Test Assay:		81.2 ppm

Second Analysis Data:						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:	ppm				Mean Test Assay:		ppm

Analyzed By: Brandon Aguilar

Certified By: Jose Vasquez

DRY GAS METER CALIBRATION

Standard Pressure	29.92	in. hg.	Unit Number: J
Standard Temperature	60	F	Date: 1/7/2020
Ambient pressure	30.02	in. hg.	Leak Check: .004 @ 20"
Ambient temperature	59	F	

	WET GAS		DRY GAS	Temperature					
ΔH in. H20	TIME min.	VOL. cf	VOL. in/out cf	W.G. AVG F	D.G. IN F	D.G. OUT F	D.G. AVG. F	*Y	†ΔH@ in. H20
			38.538		61.0	59.0			
0.75	9.95	5.000	43.498	61.0	61.0	59.0	60.0	1.0043	1.6475
			43.498		62.0	60.0			
0.75	9.98	5.000	48.450	61.0	62.0	60.0	61.0	1.0078	1.6542
			48.450		62.0	60.0			
0.75	9.98	5.000	53.430	61.0	62.0	61.0	61.3	1.0027	1.6535
			53.732		61.0	60.0			
1.50	7.30	5.000	58.658	61.0	61.0	61.0	60.8	1.0108	1.7710
			58.658		62.0	61.0			
1.50	7.32	5.000	63.596	61.0	62.0	61.0	61.5	1.0098	1.7782
			69.374		63.0	61.0			
1.50	7.32	5.000	74.304	61.5	64.0	61.0	62.3	1.0119	1.7790
			74.939		63.0	62.0			
2.25	5.92	5.000	79.868	61.5	63.0	62.0	62.5	1.0108	1.7446
			79.868		63.0	62.0			
2.25	5.92	5.000	84.770	62.0	63.0	62.0	62.5	1.0154	1.7479
			84.770		63.0	62.0			
2.25	5.95	5.000	89.682	62.0	63.0	62.0	62.5	1.0133	1.7657
			90.413		64.0	62.0			
3.00	5.18	5.000	95.309	63.0	63.0	63.0	63.0	1.0138	1.7895
			95.309		64.0	62.0			
3.00	5.18	5.000	100.200	63.0	64.0	63.0	63.3	1.0153	1.7886
			119.438		64.0	62.0			
3.00	5.15	5.000	124.372	63.0	64.0	63.0	63.3	1.0065	1.7679
			124.690		64.0	62.0			
3.75	4.63	5.000	129.581	63.0	64.0	63.0	63.3	1.0135	1.7862
			129.581		64.0	62.0			
3.75	4.62	5.000	134.475	63.0	63.0	63.0	63.0	1.0124	1.7793
			134.475		63.0	63.0			
3.75	4.62	5.000	139.365	63.0	63.0	63.0	63.0	1.0132	1.7793
						AVERAGE		1.0108	1.7488

Validity checks:

Meter Factor: 1.0108

* Y(max - min) ≤.02 ? √

ΔH@ : 1.7488

† | ΔH@ - ΔH@ avg. | ≤ .20 in. H20 ? √

Calibration by: FT Reviewed by: KK

EQUATIONS USED:

Y= (VWG*PBAR*(TDGavg.+460))/((VDG*(PBAR+(ΔH/13.6))*(TWGavg.+460))

ΔH@ = ((0.0319*ΔH)/(PBAR*(TDGavg+460))*(((TWG+460)*T)/VWG)^2

AIRx Testing

CHAIN OF CUSTODY

INVOICE TO: _____ SAME

ATTN:

REPORT TO: PO# _____

AIRx Testing
2472 Eastman Avenue, Unit 34
Ventura, CA 93003
(805) 644-1099 Fax (805) 644-2672

Contact: _____

LAB #220-017 PROJECT Name: New Indy

Samplers: (Signature)

Rush: 24hr. Normal: 10 Day

Sample Method:

Return or Dispose

Sample No.	Sample Date	Sample Time	Comp	Grab	Sample Description	Volume (g) (ml)	Fuel (ng) (oil)	ANALYSIS NH3	REMARKS
1	3-3-20	8:12	X		Run 1	369		X	
2	3-3-20	11:00	X		Run 2	361		X	
3	3-3-20	13:00	X		Run 3	410		X	

Relinquished by: _____

Date: 3/5/2020 Time 15:00

Received by: _____

Date: 3/3/20 Time 1510

Relinquished by: _____

Date: _____ Time: _____

Received by: _____

Date: _____ Time _____

Attachment to 6.a. 74.15N1-0157 and PO0157PC2-Condition 4 (Nebraska Boiler)

Condition No.	Response
74.15 - 1 & 2	Required source test every 24 months will be conducted during next compliance year (Last test was on 11/17/2018).
74.15 - 3	Concentration limits do not apply during cold startup for period of three (3) hours.
74.15 - 4	Records of biennial source test reports will be maintained and submitted to District upon request.
PC2 - 4	Operate CEMS for NOx and oxygen including zero and span drift checks daily, reporting of breakdown, recording of operational parameters, reporting of violation, provision of CEMS data in an approved format.

Month-Year	Monthly		Rolling 12-Months			Emissions							
	Natrual Gas (scf)	Uptime (hours)	Natrual Gas (scf)	Uptime (hours)	Capacity Factor (%)	Nebraska Emissions NOx (tons)	Nebraska Emissions CO (tons)	Cogen Emissions NOx (tons)	Cogen Emissions CO(tons)	Total Emissions NOx (tons)	Total Emissions CO (tons)	Rolling 12 Months NOx (tons)	Rolling 12 Months CO (tons)
May-18	2,725,210	37.68	19,323,605	307	2.069%	0.10	0.42	3.83	9.61	3.93	10.03	43.88	66.06
Jun-18	0	0	19,292,222	306	2.066%	0.00	0.00	3.82	9.24	3.82	9.24	43.95	69.33
Jul-18	0	0	19,292,222	306	2.066%	0.00	0.00	3.96	9.07	3.96	9.07	44.15	72.94
Aug-18	0	0	19,292,222	306	2.066%	0.00	0.00	3.75	8.31	3.75	8.31	44.01	75.34
Sep-18	0	0	19,292,222	306	2.066%	0.00	0.00	3.73	8.53	3.73	8.53	44.02	79.23
Oct-18	3,113,410	46.66	22,145,090	346	2.371%	0.12	0.48	3.71	8.48	3.83	8.97	44.15	82.42
Nov-18	585,105	11.92	22,190,762	349	2.376%	0.03	0.09	3.71	7.06	3.74	7.15	44.24	84.28
Dec-18	0	0	21,636,506	333	2.317%	0.00	0.00	3.89	6.90	3.89	6.90	44.35	86.11
Jan-19	11,373	0.45	21,647,879	333	2.318%	0.00	0.00	3.86	7.05	3.86	7.05	44.35	88.35
Feb-19	0	0	21,404,077	329	2.292%	0.00	0.00	3.60	6.34	3.60	6.34	44.50	89.47
Mar-19	946,474	16.01	22,350,550	345	2.393%	0.04	0.15	3.84	7.24	3.89	7.39	44.48	91.10
Apr-19	0	0	7,381,571	113	0.790%	0.00	0.00	2.44	3.66	2.44	3.66	44.42	92.62
May-19	0	0	4,656,361	75	0.499%	0.00	0.00	3.82	4.76	3.82	4.76	44.32	87.36
Jun-19	1,013,281	17.32	5,669,642	92	0.607%	0.02	0.16	3.40	4.16	3.42	4.31	43.92	82.43
Jul-19	12,516,147	198.38	18,185,790	291	1.947%	0.23	1.94	2.79	3.88	3.02	5.83	42.98	79.20
Aug-19	0	0	18,185,790	291	1.947%	0.00	0.00	3.86	5.44	3.86	5.44	43.09	76.33
Sep-19	0	0	18,185,790	291	1.947%	0.00	0.00	3.77	5.14	3.77	5.14	43.13	72.94
Oct-19	12,356,397	184.65	27,428,777	429	2.937%	0.24	1.92	2.82	3.78	3.06	5.70	42.36	69.67
Nov-19	12,236,751	183.26	39,080,424	600	4.185%	0.20	1.90	2.60	3.45	2.80	5.35	41.42	67.88
Dec-19	0	0	39,080,424	600	4.185%	0.00	0.00	3.95	4.95	3.95	4.95	41.48	65.92
Jan-20	0	0	39,069,051	600	4.183%	0.00	0.00	3.98	5.69	3.98	5.69	41.60	64.56
Feb-20	1,104,655	15.17	40,173,705	615	4.302%	0.02	0.17	3.71	5.15	3.73	5.32	41.73	63.54
Mar-20	0	0	39,227,231	599	4.200%	0.00	0.00	4.18	5.66	4.18	5.66	42.03	61.81
Max. Rolling 12 Months			**40,173,705**	**615**	**4.302%**	**0.240**	**1.94**	**4.18**	**5.69**	**4.18**	**5.83**	**44.42**	**92.62**
Permit Limit			-	-	-	-	-	-	-	-	-	**50.00**	**97.44**
Exceeds Permit Limit?			-	-	-	-	-	-	-	-	-	NO	NO
Excess Emissions (Max. Rolling 12			-	-	-	-	-	-	-	-	-	**-5.58**	**-4.82**
Excess Emissions (Compliance Year)			-	-	-	-	-	-	-	-	-	**-7.97**	**-35.63**

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 performed on 4/13/2018.

Nebraska NOx from CEMS. CO calculated based on 310.64 lb/MMcf as stated in

Attachment to 7.c. PO00157PC2

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-18	1,867,462	1,017	183,714,904	2,056	78,390	7,711,752	64	14,015	1,378,784	14.7	0.06	0.67	9.61	3.83	65.5	42.5
Jun-18	1,869,554	1,022	182,877,238	2,054	69,004	6,749,877	66	13,196	1,290,786	14.7	0.06	0.67	9.24	3.82	68.7	42.6
Jul-18	1,969,477	1,021	192,953,561	2,062	36,815	3,606,820	66	13,845	1,356,379	15.4	0.06	0.70	9.07	3.96	72.4	42.8
Aug-18	1,859,823	988	188,336,506	2,060	39,249	3,974,560	66	12,494	1,265,170	15.9	0.06	0.72	8.31	3.75	74.8	42.6
Sep-18	1,872,085	1,014	184,623,767	2,063	36,997	3,648,606	66	10,956	1,080,497	15.0	0.05	0.68	8.53	3.73	78.6	42.6
Oct-18	1,788,319	1,018	175,652,588	2,065	42,979	4,221,454	65	11,099	1,090,174	14.9	0.05	0.68	8.48	3.71	81.4	42.7
Nov-18	1,874,137	1,015	184,607,664	2,073	39,178	3,859,176	63	16,750	1,649,918	15.2	0.08	0.70	7.06	3.71	83.1	42.8
Dec-18	1,987,099	1,029	193,184,814	2,094	44,728	4,348,480	61	16,152	1,570,326	15.3	0.07	0.70	6.90	3.89	85.0	43.0
Jan-19	1,935,135	1,029	187,986,691	2,095	36,190	3,515,639	59	13,834	1,343,843	15.6	0.06	0.71	7.05	3.86	87.2	43.0
Feb-19	1,798,800	1,034	174,015,672	2,106	37,947	3,670,997	55	12,961	1,253,855	15.5	0.06	0.71	6.34	3.60	88.3	43.1
Mar-19	1,898,159	1,033	183,841,065	2,102	49,527	4,796,778	52	12,514	1,212,030	15.1	0.06	0.69	7.24	3.84	89.8	43.1
Apr-19	1,222,171	1,029	118,818,880	2,151	40,205	3,908,717	54	8,765	852,099	15.3	0.04	0.70	3.66	2.44	91.5	44.1
May-19	1,935,669	975	198,489,438	2,165	57,802	5,927,210	52	7,935	813,659	14.8	0.04	0.68	4.76	3.82	86.6	44.1
Jun-19	1,797,484	1,013	177,424,144	2,160	27,644	2,728,678	48	495	48,905	13.5	0.00	0.62	4.16	3.40	81.6	43.7
Jul-19	1,325,946	1,013	130,841,326	2,098	38,623	3,811,232	48	12,363	1,219,992	13.4	0.06	0.61	3.88	2.79	76.4	42.5
Aug-19	1,949,294	1,007	193,497,518	2,103	47,391	4,704,268	49	6,858	680,746	12.8	0.03	0.59	5.44	3.86	73.5	42.6
Sep-19	1,908,537	1,014	188,274,342	2,107	45,795	4,517,567	50	14,078	1,388,801	13.1	0.06	0.60	5.14	3.77	70.1	42.7
Oct-19	1,424,219	909	156,645,293	2,088	39,177	4,308,959	50	9,199	1,011,733	13.0	0.04	0.59	3.78	2.82	65.4	41.8
Nov-19	1,384,892	1,039	133,355,031	2,036	35,424	3,411,103	50	19,536	1,881,159	13.3	0.09	0.61	3.45	2.60	61.8	40.7
Dec-19	1,937,372	1,032	187,711,656	2,031	67,226	6,513,481	52	16,936	1,640,879	13.3	0.08	0.61	4.95	3.95	59.9	40.7
Jan-20	1,915,866	1,041	184,040,922	2,027	107,986	10,373,295	59	15,202	1,460,327	13.5	0.07	0.62	5.69	3.98	58.5	40.9
Feb-20	1,771,859	1,041	170,207,397	2,023	120,858	11,609,798	67	17,356	1,667,243	13.9	0.08	0.64	5.15	3.71	57.3	41.0
Mar-20	1,975,349	1,043	189,391,083	2,029	106,790	10,238,734	72	14,012	1,343,432	14.0	0.06	0.64	5.66	4.18	55.7	41.3
Max. Rolling 12 Months				2,165.4	-	-	72.1	-	-	15.3	-	0.7	-	-	91.5	44.1
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)				-682	-	-	-782	-	-	-21.2	-	-1.20	-	-	-6.18	-5.9
Excess Emissions (Compliance Year)				-745	-	-	-802	-	-	-21.4	-	-1.21	-	-	-7.85	-6.9

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

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

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

where *X = (8,740 dscf/MMBtu) * ([NOx or CO] lb/lb-mole) * (20.9/(20.9-15)) * (lb-mole/387 scf) * 1E-6 * HHV*

HHV = 1,013 btu/cf (average HHV of fuel analyses over compliance year)

NOx = 46 lb/lb-mole

CO = 28 lb/lb-mole

Work Order Details

195669: MH-PM, 1Y, INSPECT ADMIN OFFICE COMPUTER ROOM GENERATOR

This is an official APCD requirement effective 2014. Maintenance delays shall be reported to APCD Compliance Division.

Required annual maintenance includes:
Change Oil
Change Oil Filter
Change Spark Plugs
Hose & Belt inspection/replacement as needed

PARTS

OIL MOTOR, CASTROL HYSTER P/N - 995 C5W30 – VENDER #28333296 - Johnson Lift Hyster

OIL FILTER, HYSTER P/N - HYS BWB243 – VENDER #28333296 - Johnson Lift Hyster

SPARK PLUG WIRES HYSTER P/N - 995 35-4134 - VENDER #28333296 - Johnson Lift Hyster

SPARK PLUG, HYSTER P/N - 995 764 - VENDER #28333296 - Johnson Lift Hyster

VALVE, PCV HYSTER P/N - HYS 3133057 - VENDER #28333296 - Johnson Lift Hyster

DC24MF GP24 Maeine Battery 750

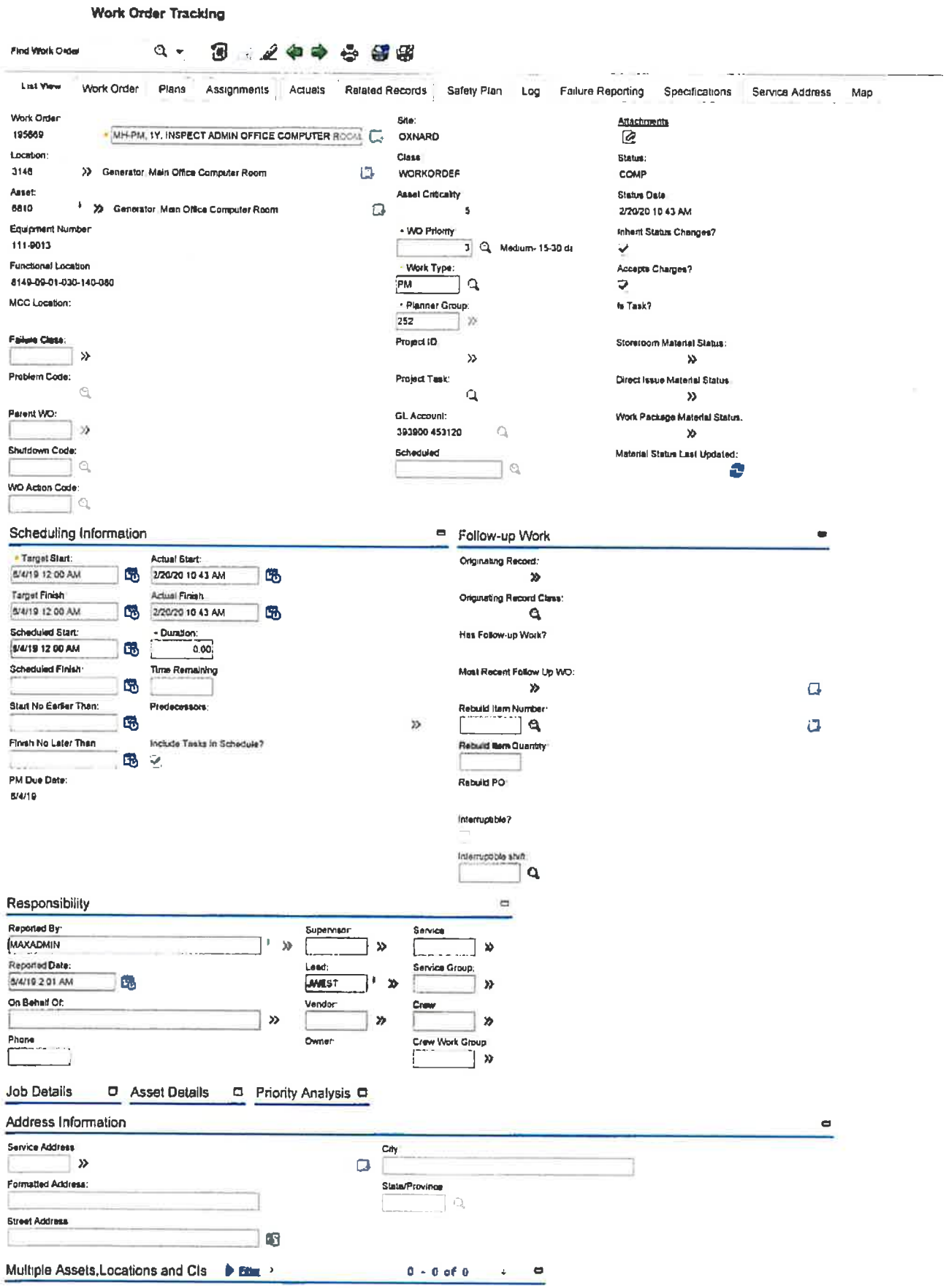
Asset: 6810 Generator, Main Office Computer Room
Location: 3146 Generator, Main Office Computer Room
CI:

Equipment #: 111-9013
Functional Location: 8149-09-01-030-140-080
MCC Location:

Sched Start:	6/4/19
Sched Finish:	
Target Start:	6/4/19
Target Finish:	6/4/19
Actual Start:	2/20/20
Actual Finish:	2/20/20
Report Date:	6/4/19
Reported By:	MAXADMIN
On Behalf Of:	

Site:	OXNARD
Priority:	3
Work Type:	PM
Status:	COMP
Parent:	
Failure Class:	
Problem Code:	
GL Account:	393900.453120

Job Plan:	JP2036
Supervisor:	
Lead:	JWEST
Vendor:	
Person Group:	252
Service:	
Service Group:	
Classification:	


Work Order Tracking
Find Work Order
List View
Work Order
Plans
Assignments
Actuals
Related Records
Safety Plan
Log
Failure Reporting
Specifications
Service Address
Map
Work Order
195669
MH-PM, 1Y, INSPECT ADMIN OFFICE COMPUTER ROOM
Location:
3148
Generator, Main Office Computer Room
Asset:
6810
Generator, Main Office Computer Room
Equipment Number
111-9013
Functional Location
8149-09-01-030-140-080
MCC Location:
Failure Class:
Problem Code:
Parent WO:
Shutdown Code:
WO Action Code:
Site:
OXNARD
Class
WORKORDER
Asset Criticality
5
WO Priority
Medium- 15-30 d
Work Type:
PM
Planner Group:
252
Project ID
Project Task:
GL Account:
393800 453120
Scheduled
Attachments
Status:
COMP
Status Date
2/20/20 10:43 AM
Inherit Status Changes?
Accepts Charges?
Is Task?
Storeroom Material Status:
Direct Issue Material Status
Work Package Material Status:
Material Status Last Updated:
Scheduling Information
Target Start:
5/4/19 12:00 AM
Actual Start:
2/20/20 10:43 AM
Target Finish
5/4/19 12:00 AM
Actual Finish
2/20/20 10:43 AM
Scheduled Start:
5/4/19 12:00 AM
Duration:
0.00
Scheduled Finish
Time Remaining
Start No Earlier Than:
Predecessors:
Finish No Later Than
Include Tasks in Schedule?
PM Due Date:
5/4/19
Follow-up Work
Originating Record:
Originating Record Class:
Has Follow-up Work?
Most Recent Follow Up WO:
Rebuild Item Number
Rebuild Item Quantity
Rebuild PO
Interruptible?
Interruptible shift
Responsibility
Reported By:
MAXADMIN
Reported Date:
5/4/19 2:01 AM
On Behalf Of:
Phone
Supervisor
Lead:
Vendor
Owner
Service
Service Group:
Crew
Crew Work Group
Job Details
Asset Details
Priority Analysis
Address Information
Service Address
Formatted Address:
Street Address
City
State/Province
Multiple Assets,Locations and CIs
0 - 0 of 0

NEW INDY
CONTAINERBOARD

January 3, 2020

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

Attention: Mr. Ed Swede

Subject: 2019 Annual Report for Emergency Generator

Dear Mr. Swede:

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	2019 Hours of Operation	2019 Maintenance Hours
Admin Emergency Generator WINCO PSS35000 88 HP	15	28

If you have any questions, please do not hesitate to contact me at (805) 271-7284.

Sincerely,

Robyn Lebrilla
Environmental Engineer

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:

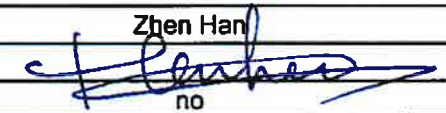
Air Quality Engineer
Ventura County Air Pollution Control District
669 County Square Drive
Ventura, CA 93003

Certification by Responsible Official

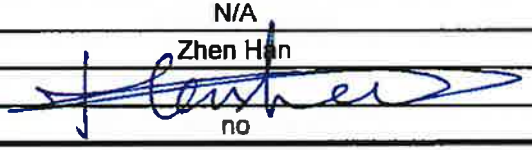
I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this document is true, accurate, and complete.

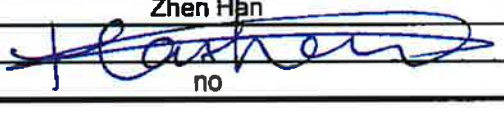
Signature and Title of Responsible Official:	Date:
Signature: [signature]	01/4/2020
Title: Mill Manager	

Stack Opacity Observation Protocol

Object:	Cogen Stack
Date of Observation:	06/18/19
Time of Observation:	2:03 PM
Fuel burned:	Natural Gas
Name of the observing person:	Zhen Han
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

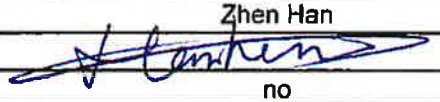
Object:	Paper Forming/Paper Drying
Date of Observation:	06/18/19
Time of Observation:	2:03 PM
Fuel burned:	N/A
Name of the observing person:	Zhen Han
Signature	
Was Visible Emission Other Than Steam Present ?	no

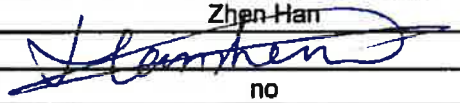
Object:	Maxon Burner
Date of Observation:	06/18/19
Time of Observation:	2:03 PM
Fuel burned:	Natural Gas
Name of the observing person:	Zhen Han
Signature	
Was Visible Emission Other Than Steam Present ?	no

Stack Opacity Observation Protocol

Object:	Cogen Stack
Date of Observation:	09/06/19
Time of Observation:	9:45 AM
Fuel burned:	Natural Gas
Name of the observing person:	Zhen Han
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:	09/06/19
Time of Observation:	9:45 AM
Fuel burned:	N/A
Name of the observing person:	Zhen Han
Signature	
Was Visible Emission Other Than Steam Present ?	no

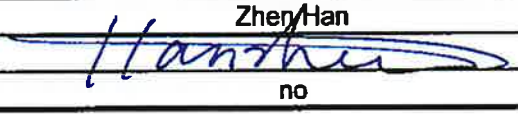
Object:	Maxon Burner
Date of Observation:	09/06/19
Time of Observation:	9:45 AM
Fuel burned:	Natural Gas
Name of the observing person:	Zhen Han
Signature	
Was Visible Emission Other Than Steam Present ?	no

Stack Opacity Observation Protocol

Object:	Cogen Stack
Date of Observation:	12/19/19
Time of Observation:	2:35 PM
Fuel burned:	Natural Gas
Name of the observing person:	Zhen Han
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:	12/19/19
Time of Observation:	2:35 PM
Fuel burned:	N/A
Name of the observing person:	Zhen Han
Signature	
Was Visible Emission Other Than Steam Present ?	no

Object:	Maxon Burner
Date of Observation:	12/19/19
Time of Observation:	2:35 PM
Fuel burned:	Natural Gas
Name of the observing person:	Zhen Han
Signature	
Was Visible Emission Other Than Steam Present ?	no

Stack Opacity Observation Protocol

Object:	Cogen Stack
Date of Observation:	02/26/20
Time of Observation:	8:30 AM
Fuel burned:	Natural Gas
Name of the observing person:	Zhen Han
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:	02/26/20
Time of Observation:	8:30 AM
Fuel burned:	N/A
Name of the observing person:	Zhen Han
Signature	
Was Visible Emission Other Than Steam Present ?	no

Object:	Maxon Burner
Date of Observation:	02/26/20
Time of Observation:	8:30 AM
Fuel burned:	Natural Gas
Name of the observing person:	Zhen Han
Signature	
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 SO_2 concentrations to 0.25 ppm_v for 1 hour and 0.04 ppm_v for 24 hours.

I assume that the most common SO_2 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

SO_2 emissions were based on 300 ppm_v in the stack, which is the limit in Rule 54.B.1.a. This limit cannot be exceed 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 SO_2 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 SO_2 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 SO_2 emissions do not exceed 11.04 lb/day, the 24-hour limit of Rule 54.B.2 will be met. This is equivalent to burning 155 gallons of diesel at 0.5% sulfur per day.

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

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

Ventura County
Air Pollution
Control District

669 County Square Drive
Ventura, California 93003

tel 805/645-1400
fax 805/645-1444
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Michael Villegas
Air Pollution Control Officer

PERMIT TO OPERATE
Number 08244

Valid July 1, 2019 to June 30, 2020

This Permit Has Been Issued To The Following:

Company Name / Address:

Vital Coatings Inc.
2131 Anthony Drive
Ventura, CA 93003

Facility Name / Address:

Vital Coatings Inc.
Portable Architectual Coating Ops.
Ventura County, CA 00000

Permission Is Hereby Granted To Operate The Following:

Portable Architectural Surface Coating Operation, for the coating of process and industrial equipment subject to Rule 74.2, "Architectural Coatings". The surface coating of houses, office buildings, etc. is exempt from permit pursuant to Rule 23.F.7.

Permitte may use portable air compressor engines, provided that they are rated at less than 50 BHP (exempt Rule 23.D.6) or registered and complying with the California ARB Portable Equipment Registration Program (exempt Rule 23.D.9)

This Permit Has Been Issued Subject To The Following Conditions:

1. Permitted Emissions

	Tons/Year	Pounds/Hour
Reactive Organics	1.04	1.00

2. Annual usage shall not exceed 1,000 gallons per year of coatings with maximum ROC (VOC) content of 250 grams per liter of material (2.09 pounds per gallon) as applied, while operating in Ventura County.

   In order to comply with this condition, permittee shall maintain daily records and monthly reports of coatings, surface preparation materials, and coatings application equipment cleanup materials. Monthly usage shall be totaled and the monthly totals summed for the previous twelve months. Material usage totals for any of these twelve (12) month periods in excess of the above limit shall be considered a violation of this condition. Prior to exceeding the above limit, permittee shall submit an application to modify this condition.

3. This permit authorizes painting of stationary structures and their appurtenances (as defined in APCD Rule 74.2) at their permanent sites only.

4. All coating operations shall comply with APCD Rule 74.2,

"Architectural Coatings". The reactive organic compound content of flat coatings shall not exceed 50 grams per liter, computed on a minus water, minus exempt solvent basis as applied. The reactive organic compound content of nonflat coatings used shall not exceed 100 grams per liter, computed on a minus water, minus exempt solvent basis as applied. The reactive organic compound content of the industrial maintenance coatings used shall not exceed 250 grams per liter, computed on a minus water, minus exempt solvent basis as applied. Other coatings used shall meet their specific limit in the Rule 74.2 Table of Standards. Thinning of the coatings shall not cause the coatings to exceed their applicable standard.

5. The permittee shall employ reasonable methods to insure that discharge from the surface coating work area does not cause a nuisance, pursuant to California Health & Safety Code Section 41700 and APCD Rule 51 (Nuisance). Such methods may include, but are not limited to, use of shrouding and covering of objects adjacent to the surface coating activity.

6. The permittee shall not use solvent containing materials for surface preparation. This condition is applied pursuant to Rule 26 and Rule 74.6. Acetone or solvents with an ROC contnt of less than 25 grams per liter may be used in any amount.

7. All ROC containing materials, used or unused, including but not limited to surface coatings, surface preparation materials and cleanup materials shall be stored in closed containers. This condition is applied as Best Available Control Technology (BACT).

8. Portable surface coating equipment may be used anywhere in Ventura County.

9. The District shall be notified at least 48 hours prior to conducting painting operations by leaving a message on the District 24-hour message recorder at (805)654-2797 or by faxing a notification to (805)645-1444.

   The notification shall include the following information:

   a) Identification of operator and the Permit to Operate number (No. 08244).

   b) The location (street address and city) and a description of the painting activity.

   c) The expected starting date and duration of the painting activity.

10. The permittee shall record and maintain the following information on each surface coating operation performed in Ventura County. The records shall be compiled into a monthly report. These records shall be maintained for the previous two years and shall be made available to APCD personnel upon request:

a) The location and a description of the surface coating activities.

b) The starting and ending dates.

c) On a daily or per site basis, record usage as follows: the brand name and product or number for each coating, solvent and thinner used; the mix ratio of the components used; the quantity of each material used; the ROC content of the coatings, as applied, computed on a minus water, minus exempt solvent basis; the coating category (e.g., coating, solvent, thinner, etc.); and the method of application.

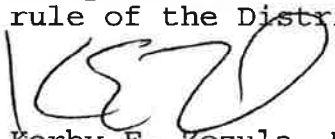
d) On a daily or per site basis, record usage of spray equipment cleanup solvent used, which includes the following: brand and product name or number of each solvent; the quantity of each solvent used; the ROC content; and the method of application.

If purchase records are used to determine the amount of solvents used, then records and manifest of the amounts of solvents disposed of or sent to a recycler must also be maintained.

Within 30 days after receipt of this permit, the permittee may petition the Hearing Board to review any new or modified condition (Rule 22).

This permit, or a copy, shall be posted reasonably close to the subject equipment and shall be accessible to inspection personnel (Rule 19). This permit is not transferable from one location to another unless the equipment is specifically listed as being portable (Rule 20).

This Permit to Operate shall not be construed to allow any emission unit to operate in violation of any state or federal emission standard or any rule of the District.



Kerby E. Zozula, Manager
Engineering Division

For:

Michael Villegas
Air Pollution Control Officer

VENTURA COUNTY
AIR POLLUTION CONTROL DISTRICT
Memorandum

TO: Interested Parties DATE: December 3, 1997

FROM: John Harader

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

Section B of District Rule 57, "Combustion Contaminants - Specific", limits the combustion contaminant emission concentration from any fuel burning equipment. Combustion contaminants are defined in District Rule 2 as particulate matter discharged into the atmosphere from the burning of any kind of material containing carbon in a free or combined state. The emission concentration limit is 0.1 grain per cubic foot of gas calculated to 12 percent of carbon dioxide at standard conditions (0.1 gr/scf @ 12% CO_2). This limit can be converted to a lb/MMBTU emission factor by the following equation from 40 CFR Part 60, Appendix A, Method 19:

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

E = lb/MMBTU emission factor
C = Pollutant concentration (lb/DSCF)
F_c = CO_2 F-factor
= 1430 dscf CO_2/MMBTU for liquid fuels
= 1040 dscf CO_2/MMBTU for natural gas

The pollutant concentration, C, and the $\%CO_2$ values can be wet or dry as long as they are consistent. The $\%CO_2$ of 12 may be used in the equation if the pollutant concentration has been corrected to 12% CO_2:

$$C_{@12\%CO2} = C(12/\%CO_2)$$

The Rule 57.B emission limit is a limit at 12% CO_2; therefore the emission rate equation can be written:

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

For Natural Gas: E = 0.12 lb PM/MMBTU
For Liquid Fuels: E = 0.17 lb PM/MMBTU

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

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

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

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

Compliance with the emission limit for diesel engines < 600 HP has been shown through the conducting of a source test on an engine within Ventura County. This source test was conducted for the purpose of generating an emission factor to be used for Air Toxic "Hot Spots" emission estimations. The measured particulate concentration for this engine was 0.1 gr/dscf at 12 percent CO_2. 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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New-Indy Oxnard, LLC
Attachment to 8.i.Rule 74.11.1 - Title V Annual Certification

Date: 2/6/20
Conducted by: Zhen Han

Formal survey identifying each natural gas-fired water heater, boiler, steam generator and process heater with heat input capacity between 75,000 and 1,000,000 btu/hr.

	North Property Space Heaters	North Property Water Heater	Admin Water Heater	Maintenance Lunch Room Water Heater
Manufacturer	Modine Manufacturing Company	Bradford White Corporation	Rinnai Corporation	Bradford White Corporation
Brand name	Modine	Eco-Defender	Rinnai	Eco-Defender
Model number	PD 300AE0130	URG250T6N	RL94e (REU-VC2837WD-US)	U440T6FRN
Heat input rating	300,000 BTU/hr	40,000 BTU/hr	199,000 BTU/hr	40,000 BTU/hr
Installation date		Nov-15	Jun-17	May-11
Certification status under VCAPCD Rule 74.11.1C or SCAQMD Rule 1146.2	None	Complies with jurisdictions having 10ng/J NOx Regs	Complies with SCAQMD Rule 1146.2 (<14 ng NOx/J)	Complies with SCAQMD Rule 1121
Number of units	4	1	1	1
Comment	Rule 74.11.1C covers NG-fired water heaters, small boilers, steam generator or process heaters - NOT space heaters	Exempt - less than 75000 BTU/hr		Exempt - less than 75000 BTU/hr

NOTES:
* 2 steam cleaners - propane fired
* Sump pumps & welders - portable, not natural gas-fired