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Technical Management Section
South Carolina Department of Health and
Environmental Control
Bureau of Air Quality
2600 Bull Street
Columbia, SC 29201-1708

Re: New Indy Catawba Semi-Annual Reporting; July 1, 2021 – December 31, 2021
Air Permit No. TV-2440-0005

Technical Management Section:

The purpose of this submittal is to meet the semi-annual reporting requirements for the New Indy Catawba LLC mill located at 5300 Cureton Ferry Road in Catawba, South Carolina.

Semi-annual reporting requirements in Section C of the Permit are outlined in this report, and detailed in Attachment A. Additional National Emission Standards for Hazardous Air Pollutants (NESHAP) requirements are included in Attachment B.

Based on information and belief formed after reasonable inquiry, I certify to the best of my knowledge, that the statements and information in this submission are true, accurate, and complete.

If you have any questions or require additional information, please contact Daniel Mallett at (803) 981-8010 or dan.mallett@new-indycb.com.

Sincerely,

Charles Cleveland
Technical Manager

Attachments: Attachment A: Excess Emissions and Continuous Emissions Monitor Report Logs
Attachment B: Additional NESHAP Requirements

cc: EPA Region 4
SCDHEC – BAQ, Air Toxics Section
Stephen Whisonant, Midlands EQC Lancaster
Environmental File 208.21

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TV-2440-0005, Condition C.4 and 2440-0005-DF, Condition C.3

Emission Unit IDs:	02, 03, 04, 06, 07, 08, 09
Equipment IDs:	5210, 5220, 5230, 5240, 5250, 5300, 5300C, 1790, 1790C, 1790Ca, 9700, B-2000, 2505, 2510, 2520, 5105, 5110, 5120, 2723, 2700 (No. 4 Causticizer), 2701, 2702, 2703, 2400, 2500, 5100, 2505C, 5105C, 2723C, 2511C, 2725C, 2726C, 2724C, 2605, 3705, 5260, 5260C, 5270, 2605C, 2610C1, 3705C, 3710C1, 9800, 9801, 9802
Regulation:	S.C. Regulation 61-62.1, Section II; S.C. Regulation 61-62.70.6.a.3.i.B
Description:	Monitoring parameter readings and inspection checks are maintained in logs. Instances of operation outside operational ranges including date, time, cause and correction action taken.

See Attachment A.

TV-2440-0005, Condition C.11 and 2440-0005-DF, Condition C.7

Emission Unit IDs:	01
Equipment IDs:	1300
Regulation:	SC Std. 4 and SC Std. 62.6 opacity and fugitive emission limitations
Description:	Opacity limit of 20%. Visual emissions inspections of the woodyard on a semi-annual basis.

There were no instances of abnormal visual observations recorded during the reporting period.

TV-2440-0005, Condition C.13 and 2440-0005-DF, C.15 and C.18

Emission Unit IDs:	02
Equipment IDs:	5210, 5230, 5250, 5255, 2605, 3705, 5270
Regulation:	NSPS BB and BBa
Description:	Continuous monitoring from B&W No.1 Combination Boiler 1, B&W No.1 Combination Boiler 2, and the HVLC Collection System

Semi-annual compliance is summarized in the Tables 1 and 2 below. Detailed information can be found in Attachment A. Attachment B includes summary information for excess emissions from the HVLC system under the 40 CFR Part 63, Subpart S report.

Table 1. Continuous Emissions Monitoring Summary – Combination Boiler 1 Opacity (2605)

	3rd Quarter	4th Quarter	Semi-Annual Period
Monitor Downtime (%)	0.05	1.19	0.62
Emissions Discrepancies (%)	0.00	0.13	0.06
Overall Compliance (%)	99.95	98.68	99.32

Table 2. Continuous Emissions Monitoring Summary – Combination Boiler 2 Opacity (3705)

	3rd Quarter	4th Quarter	Semi-Annual Period
Monitor Downtime	2.17	2.52	2.35
Emissions Discrepancies (%)	0.27	0.13	0.20
Overall Compliance (%)	97.56	97.35	97.45

Table 3. Continuous Emissions Monitoring Summary – HVLC Collection System (5270)

	3rd Quarter	4th Quarter	Semi-Annual Period
Monitor Downtime	N/A	N/A	N/A
Emissions Discrepancies (%)	0.05	0.22	0.13
Overall Compliance (%)	99.95	99.78	99.87

TV-2440-0005, Condition C.14

Emission Unit IDs:	02, 08
Equipment IDs:	5210, 5240, 2400, 5100, 2605, 3705, 5260, 5260C
Regulation:	SC Reg. 61-62.5 Standard No. 7 {Prevention of Significant Deterioration}
Description:	Daily Unbleached Pulp Production

The daily unbleached pulp production is limited to 1,825 air dried tons unbleached pulp (ADTUBP) per day (12-month rolling average). The rolling average pulp mill production did not exceed the limit during the reporting period.

Table 4. Pulp Mill Daily Production

Month	12-Month Rolling Average (ADTUBP/day)	Corrective Actions Taken if Exceedance Occurred
July-20	1,060	N/A
August-20	1,024	N/A
September-20	953	N/A
October-20	851	N/A
November-20	773	N/A
December-20	687	N/A
January-21	668	N/A
February-21	711	N/A
March-21	750	N/A
April-21	789	N/A
May-21	857	N/A
June-21	924	N/A
July-21	1,010	N/A
August-21	1,080	N/A
September-21	1,208	N/A
October-21	1,344	N/A
November-21	1,477	N/A
December-21	1,596	N/A

TV-2440-0005, Condition C.15

Emission Unit IDs:	03
Equipment IDs:	5300, 5300C
Regulation:	SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries}
Description:	Bleach Plant Scrubber Opacity

The Bleach Plant was permanently retired from service on September 5, 2020. Therefore, there were no excess emissions to report during the reporting period.

TV-2440-0005, Condition C.16

Emission Unit IDs:	04
Equipment IDs:	1790, 1790C, 1790Ca
Regulation:	SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries}
Description:	ClO_2 Generator Opacity

The Chlorine Dioxide Plant was permanently retired from service on September 5, 2020. Therefore, there were no excess emissions during the reporting period.

TV-2440-0005, Condition C.19

Emission Unit IDs:	05
Equipment IDs:	4400
Regulation:	SC Reg. 61-62.5 Standard No. 7 {Prevention of Significant Deterioration}
Description:	Thermo-mechanical pulp production

The thermo-mechanical pulping (TMP) process is limited to 384,900 air dried tons of pulp (ADTP) per year. The TMP process was shut down on May 11, 2020, and did not operate during the reporting period. TMP production did not exceed 384,900 ADTP per year on a 12-month rolling sum during the reporting period.

Table 5. Thermo-Mechanical Pulp Production

Month	Monthly Sum (ADTP/month)	12-Month Rolling Sum (ADTP/yr)
July-20	0	65,728
August-20	0	57,914
September-20	0	57,577
October-20	0	44,106
November-20	0	39,698
December-20	0	32,413
January-21	0	24,607
February-21	0	17,464
March-21	0	9,084
April-21	0	1,967
May-21	0	0
June-21	0	0
July-21	0	0
August-21	0	0
September-21	0	0
October-21	0	0
November-21	0	0
December-21	0	0

TV-2440-0005, Condition C.23 and 2440-0005-DF, Condition C.9

Emission Unit IDs:	06
Equipment IDs:	4600, 4605, 4610, 4100, 4110, 2100, 9701A, 9701B, 9702, 9703, 9704, 2000, 2005, 2010
Regulation:	SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries}
Description:	Papermill Opacity Monitoring

Visual opacity monitoring is performed while emission units combust fuel other than propane or natural gas. If opacity deviations occur, the cause and corrective action are listed in Table 6 below. No observations of abnormal emissions occurred during the reporting period.

Table 6. Papermill Visible Emissions

ID	Source Description	Cause/Corrective Action for Abnormal Emissions
4100	Opacity No. 3 Paper Machine	N/A
2100	Pulp Dryer	N/A

TV-2440-0005, Condition C.26

Emission Unit IDs:	06
Equipment IDs:	4610
Regulation:	(S.C. Regulation 61-62.1, Section II; S.C. Regulation 61-62.70.6.a.3.i.B)
Description:	No. 2 Coater Dryer Fuel Usage

The No. 2 Coat Dryer was permanently retired from service on September 5, 2020. Therefore, there was no fuel usage during the reporting period.

TV-2440-0005, Condition C.27

Emission Unit IDs:	06
Equipment IDs:	9700, B-2000
Regulation:	SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries}
Description:	Starch Silo Opacity

The Starch Silo was permanently retired from service on September 5, 2020. Therefore, there were no abnormal emissions during the reporting period.

TV-2440-0005, Condition C.28

Emission Unit IDs:	06
Equipment IDs:	9700, B-2000
Regulation:	SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries}
Description:	PM Visual Inspections

The Starch Silo was permanently retired from service on September 5, 2020. Therefore, there were no excursions during the reporting period.

TV-2440-0005, Condition C.29

Emission Unit IDs:	06
Equipment IDs:	4120, 4130
Regulation:	SC Reg. 61-62.5, Standard No. 1 {Emissions from Fuel Burning Operations}
Description:	Infrared Dryer and Hot Oil Heating System

The Infrared Dryer and Hot Oil Heating System were permanently retired from service on September 5, 2020. Therefore, there were no abnormal emissions during the reporting period.

TV-2440-0005, Condition C.30

Emission Unit IDs:	06
Equipment IDs:	4120, 4130
Regulation:	SC Reg. 61-62.5, Standard No. 1 {Emissions from Fuel Burning Operations}
Description:	Infrared Dryer and Hot Oil Heating System

Source ID 4120 did not operate during the reporting period and has not operated since 2013. Source ID 4130 also did not operate during the reporting period.

Month	Natural Gas (MMBtu)	12-Month Rolling Sum
July-20	0	29,929
August-20	0	26,370
September-20	0	24,433
October-20	0	20,899
November-20	0	18,656
December-20	0	15,652
January-21	0	11,982
February-21	0	8,375
March-21	0	4,191
April-21	0	989
May-21	0	0
June-21	0	0
July-21	0	0
August-21	0	0
September-21	0	0
October-21	0	0
November-21	0	0
December-21	0	0

TV-2440-0005, Condition C.32

Emission Unit IDs:	06
Equipment IDs:	9900
Regulation:	SC Reg. 61-62.5, Standard No. 1 {Emissions from Fuel Burning Operations}
Description:	Paper Machine Air Makeup Units Fuel Usage

Fuel usage for Source 9900 is listed below in Table 7. This source is permitted to burn 631,540,000 standard cubic feet of natural gas/year (total for all units) and 1,428,571 gallons of propane per year (total for all units). This source did not operate during the reporting period.

Table 7. Air Makeup Unit Fuel Usage

Month	Natural Gas (scf)	12-Month Rolling Sum	Propane (gallons)	12-Month Rolling Sum
July-20	0	215	0	0
August-20	0	151	0	0
September-20	0	83	0	0
October-20	0	68	0	0
November-20	0	67	0	0
December-20	0	67	0	0
January-21	0	67	0	0
February-21	0	67	0	0
March-21	0	66	0	0
April-21	0	1	0	0
May-21	0	0	0	0
June-21	0	0	0	0
July-21	0	0	0	0
August-21	0	0	0	0
September-21	0	0	0	0
October-21	0	0	0	0
November-21	0	0	0	0
December-21	0	0	0	0

TV-2440-0005, Condition C.33

Emission Unit IDs:	06
Equipment IDs:	4110
Regulation:	SC Reg. 61-62.5, Standard No. 7 {PSD}
Description:	Air Flotation Dryer Fuel Usage

The Air Flotation Dryer was permanently retired from service on September 5, 2020. Therefore, there was no fuel usage during the reporting period.

TV-2440-0005, Condition C.35

Emission Unit IDs:	06
Equipment IDs:	4610, 9900
Regulation:	SC Reg. 61-62.1, Section. II(E) {General Requirements-Synthetic Minor}
Description:	No. 2 Coater Dryer and the Paper Machine Air Make Up Units Fuel Consumption

See Sections TV-2440-0005, Condition C.26 and TV-2440-0005, Condition C.32 of this Report.

TV-2440-0005, Condition C.37

Emission Unit IDs:	07
Equipment IDs:	2515, 2520, 2700, 2702, 2703, 5115, 5120
Regulation:	SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries}
Description:	Chemical Recovery Visible Emissions

Visual opacity monitoring is performed for the above listed sources at the frequency listed in Table 8. If opacity deviations occur, the cause and corrective action are also listed in Table 10 below. No abnormal emissions were observed during the reporting period.

Table 8. Chemical Recovery Visible Emissions

ID	VE Frequency	Source Description	Cause/Corrective Action for Abnormal Emissions
2515	Semi-annual	No. 2 Recovery Furnace Precipitator Mix Tank	N/A
2520	Semi-annual	Salt Cake Mix Tank	N/A
5115	Semi-annual	No. 3 Recovery Furnace Precipitator Mix Tank	N/A
5120	Semi-annual	No. 3 Salt Cake Mix Tank	N/A
2700	Semi-annual	Causticizing Equipment	N/A
2702	Daily	Purchased Lime Silo	N/A
2703	Daily	Reburned Lime Silo	N/A

TV-2440-0005, Condition C.39

Emission Unit IDs:	07
Equipment IDs:	2505, 2505C, 2723, 2723C
Regulation:	SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries}; NESHAP, Subpart MM
Description:	No. 2 Recovery Furnace and No. 2 Lime Kiln Opacity

Information regarding the No. 2 Recovery Boiler Opacity monitor can be found in Table 9. Excess emissions and COMS downtime are summarized in Table 10. Detailed Information is provided in Attachment A.

Table 9. No. 2 Recovery Boiler Opacity Monitoring

Process Unit Description:	No. 2 Recovery Boiler
Pollutant:	Opacity
Time Period:	Minutes
Emission Limits:	35%
Monitor Manufacturer(s) and Model Number(s):	Teledyne Monitor Labs / Light Hawk 560 Opacity Monitor
Last CMS Certification or Audit Date:	Certification: October 20, 2006 Last Audit Date: November 11, 2021
Total Source Operating Time in Reporting Period:	242,589 Minutes

Table 10. No. 2 Recovery Boiler Excess Emissions and Downtime Summary

Excess Emissions Summary		
Reason for Excess Emissions	**Duration (minutes)**	
	Over 35%	**Over 20% for 60 minutes**
A. Startup/Shutdown	300	508
B. Malfunctions		
Process/Instrument System	0	0
Control Equipment	202	766
Fuel Problems	0	0
Other Known Cause	30	36
Other Unknown Cause	0	0
Total Number of Incidents	12	11
Excess Emissions/Process Operating Time	0.22%	N/A
Monitor Downtime Summary		
Reason for Monitor Downtime	**Duration (minutes)**	
Monitor Equipment Malfunctions	24	
Non-Monitor Equipment Malfunctions	199	
Quality Assurance	306	
Other Known Cause	0	
Other Unknown Cause	0	
Total Number of Incidents	10	
Percent Monitor Downtime	0.22%	

Information regarding the No. 2 Lime Kiln Opacity monitor can be found in Table 11. Excess emissions and COMS downtime are summarized in Table 12. Detailed Information is provided in Attachment A.

Table 11. No. 2 Lime Kiln Opacity Monitoring

Process Unit Description:	No. 2 Lime Kiln
Pollutant:	Opacity
Time Period:	Minutes
Emission Limits:	20%
Monitor Manufacturer(s) and Model Number(s):	Monitor Labs USI 550 Opacity Monitor
Last CMS Certification or Audit Date:	Certification: October 27, 2012 Last Audit Date: November 8, 2021
Total Source Operating Time in Reporting Period:	240,120 Minutes

Table 12. No. 2 Lime Kiln Excess Emissions and Downtime Summary

Excess Emissions Summary		
Reason for Excess Emissions	**Duration (minutes)**	
	Over 20%	**Over 20% for 60 minutes**
A. Startup/Shutdown	42	0
B. Malfunctions		
Process/Instrument System	0	0
Control Equipment	0	0
Fuel Problems	0	0
Other Known Cause	12	0
Other Unknown Cause	0	0
Total Number of Incidents	7	0
Excess Emissions/Process Operating Time	0.02%	N/A
Monitor Downtime Summary		
Reason for Monitor Downtime	**Duration (minutes)**	
Monitor Equipment Malfunctions	99	
Non-Monitor Equipment Malfunctions	35	
Quality Assurance	584	
Other Known Cause	0	
Other Unknown Cause	0	
Total Number of Incidents	11	
Percent Monitor Downtime	0.30%	

TV-2440-0005, Condition C.40

Emission Unit IDs:	07
Equipment IDs:	2510, 5110, 2511C
Regulation:	SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries}
Description:	No. 2 and No. 3 Smelt Dissolving Tank Opacity

See Attachment A.

TV-2440-0005, Condition C.41

Emission Unit IDs:	07
Equipment IDs:	5105
Regulation:	SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries}; NSPS, Subpart BB
Description:	No. 3 Recovery Boiler Opacity

Information regarding the No. 3 Recovery Boiler Opacity monitor can be found in Table 13. Excess emissions and COMS downtime are summarized in Table 14. Detailed Information is provided in Attachment A.

Table 13. No. 3 Recovery Boiler Opacity Monitoring

Process Unit Description:	No. 3 Recovery Boiler
Pollutant:	Opacity
Time Period:	Minutes
Emission Limits:	35%
Monitor Manufacturer(s) and Model Number(s):	Teledyne Monitor Labs / Light Hawk 560 Opacity Monitor
Last CMS Certification or Audit Date:	Certification: July 31, 2010 Last Audit Date: November 9, 2021
Total Source Operating Time in Reporting Period:	242,673 Minutes

Table 14. No. 3 Recovery Boiler Excess Emissions and Downtime Summary Opacity

Excess Emissions Summary		
Reason for Excess Emissions	**Duration (minutes)**	
	Over 35%	**Over 20% for 60 minutes**
A. Startup/Shutdown	156	504
B. Malfunctions		
Process/Instrument System	0	0
Control Equipment	1068	4128
Fuel Problems	0	0
Other Known Cause	24	1848
Other Unknown Cause	12	84
Total Number of Incidents	66	112
Excess Emissions/Process Operating Time	0.52%	N/A
Monitor Downtime Summary		
Reason for Monitor Downtime	**Duration (minutes)**	
Monitor Equipment Malfunctions	0	
Non-Monitor Equipment Malfunctions	141	
Quality Assurance	434	
Other Known Cause	144	
Other Unknown Cause	0	
Total Number of Incidents	15	
Percent Monitor Downtime	0.30%	

TV-2440-0005, Condition C.42

Emission Unit IDs:	07
Equipment IDs:	5105
Regulation:	SC Reg. 61-62.5, Standard No. 7 {PSD}; NSPS, Subpart BB NESHAP, Subpart MM
Description:	No. 3 Recovery Boiler Opacity

See Section TV-2440-0005, Condition C.41 of this Report and detailed information in Attachment A.

TV-2440-0005, Condition C.44

Emission Unit IDs:	07
Equipment IDs:	2723, 2723C
Regulation:	SC Reg. 61-62.5, Standard No. 7 {PSD}; NSPS, Subpart BB
Description:	No. 2 Lime Kiln

See Section TV-2440-0005, Condition C.39 of this Report and detailed information in Attachment A. The ton per day lime production on a 12-month rolling average basis did not exceed 465.0 tons per day (see Condition C.48) during the reporting period.

TV-2440-0005, Condition C.45

Emission Unit IDs:	07
Equipment IDs:	2700, 2701, 2725C
Regulation:	SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries}; CAM
Description:	Slaker Scrubber Flow

There were no scrubber flow excursion events or downtime observed during the reporting period. See detailed information in Attachment A.

TV-2440-0005, Condition C.46

Emission Unit IDs:	07
Equipment IDs:	2702, 2703, 2726C, 2724C
Regulation:	SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries}; CAM
Description:	Lime Silo Opacity

Daily visual inspections are conducted for visible emissions when unloading the lime silos. No abnormal emissions were observed during the reporting period.

TV-2440-0005, Condition C.48

Emission Unit IDs:	07
Equipment IDs:	2723
Regulation:	SC Reg. 61-62.1, Section II(E) {General Requirements-Synthetic Minor}
Description:	No. 2 Lime Kiln Production

Production from the No. 2 Lime Kiln is limited to 169,725 tons per year on a 12-month rolling sum basis. Lime Kiln production for the reporting period is shown in Table 15.

Table 15. Lime Kiln 2 Production

Month	Tons per Day	12-Month Rolling Avg (TPD)	Monthly	12-Month Rolling Sum (tons)
July-20	310	334	9,610	**122,360**
August-20	318	329	9,858	**120,283**
September-20	235	323	7,050	**118,093**
October-20	0	291	0	**106,437**
November-20	157	277	4,710	**101,337**
December-20	23	247	713	**90,332**
January-21	133	228	4,111	**83,035**
February-21	285	223	7,985	**81,015**
March-21	228	217	7,075	**79,007**
April-21	210	207	6,314	**75,301**
May-21	263	204	8,144	**74,300**
June-21	252	201	7,553	**73,123**
July-21	268	198	8,301	**71,813**
August-21	261	193	8,095	**70,050**
September-21	254	194	7,607	**70,607**
October-21	285	218	8,822	**79,429**
November-21	256	226	7,677	**82,395**
December-21	265	247	8,206	**89,888**

TV-2440-0005, Condition C.51

Emission Unit IDs:	07
Equipment IDs:	5105
Regulation:	SC Reg. 61-62.5, Standard No. 7 {PSD}; SC Reg. 61-62.5, Standard No. 7.1 {NSR}
Description:	Recovery Boiler 3 NOx

NOx emissions from the No. 3 Recovery Furnace are limited to 78 ppmv @8% O_2. See detailed information regarding excess emissions and monitor downtime in Attachment A.

TV-2440-0005, Condition C.52

Emission Unit IDs:	07
Equipment IDs:	2723
Regulation:	SC Reg. 61-62.5, Standard No. 7 {PSD}
Description:	Lime Kiln 2 NOx

Production from the No. 2 Lime Kiln is limited to 169,725 tons per year on a 12-month rolling sum basis. See Section TV-2440-0005, Condition C.48 of this Report.

TV-2440-0005, Condition C.53 and 2440-0005-DF C.15 and C.18

Emission Unit IDs:	07, 08
Equipment IDs:	2400, 2500, 5100, 5260, 5260C, 2605, 3705
Regulation:	SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries}; NSPS, Subpart BB and BBa
Description:	LVHC Scrubber

See detailed information in Attachment A for any variances from established parameters and appropriate corrective action taken during the reporting period. Attachment B includes summary information for excess emissions from the LVHC system under the 40 CFR Part 63, Subpart S report.

TV-2440-0005, Condition C.54

Emission Unit IDs:	07
Equipment IDs:	2505
Regulation:	SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries}
Description:	No. 2 Recovery Boiler TRS

See detailed information regarding excess emissions and monitor downtime in Attachment A for monitor maintenance and monitor downtime. There were no periods of excess emissions above the applicable standard.

TV-2440-0005, Condition C.55

Emission Unit IDs:	07
Equipment IDs:	5105
Regulation:	SC Reg. 61-62.5, Standard No. 7 {PSD}; NSPS, Subpart BB
Description:	Recovery Boiler 3 TRS

No. 3 Recovery Furnace excess emissions of TRS are limited to 5 ppmv @ 8% O_2.

The Department will not consider periods of excess emissions to be indicative of a violation of 40 CFR 60, Subpart BB if the number of 12-hour exceedances from No. 3 Recovery Furnace is less than or equal to 1% of the total number of contiguous 12-hour periods in a quarter (excluding periods of startup, shutdown, or malfunction and periods when the recovery furnace is not operating). Monitor downtime and excess emissions for the reporting period were 0.34% and 0.00% of operating time, respectively.

Detailed information regarding excess emissions and monitor downtime is provided in Attachment A.

TV-2440-0005, Condition C.56

Emission Unit IDs:	07
Equipment IDs:	5105
Regulation:	NSPS, Subpart Db; SC Reg. 61-62.1, Section II(J)(2) {Special Permit Conditions}
Description:	Recovery Boiler 3 Fossil Fuel Capacity Factor

Fuel consumption from the No. 3 Recovery Furnace is included in Table 16.

Table 16. No. 3 Recovery Furnace Fuel Consumption

Month	Natural Gas (scf)	No. 6 Fuel Oil (gallons)	Heat Value NG (MMBtu)	Heat Value FO (MMBtu)	Total Heat Value (MMBtu)	Annual Capacity Factor
Jan-21	52,082,819	402,476	53,625	60,371	113,997	2.48%
Feb-21	14,368,016	59,936	14,841	8,990	23,832	3.00%
Mar-21	18,314,671	109,140	18,866	16,371	35,237	3.76%
Apr-21	0	43,641	60	6,546	6,606	3.91%
May-21	2,433,245	24,072	2,518	3,611	6,129	4.04%
Jun-21	0	18,478	0	2,772	2,772	4.10%
Jul-21	0	21,472	0	3,221	3,221	4.17%
Aug-21	3,570,600	121,971	3,692	18,296	21,988	4.65%
Sep-21	763,149	52,423	789	7,863	8,652	4.84%
Oct-21	0	25,877	0	3,882	3,882	4.92%
Nov-21	6,734,225	93,028	6,932	13,954	20,886	5.38%
Dec-21	8,079,103	114,948	8,315	17,242	25,557	5.93%

TV-2440-0005, Condition C.57

Emission Unit IDs:	07
Equipment IDs:	2510, 5110, 2511C
Regulation:	SC Reg. 61-62.5, Standard No. 4 {Emissions from Process Industries}; NSPS BB; SC Reg. 61-62.5, Standard No. 7 {PSD}
Description:	Smelt Dissolving Tank Scrubber

See detailed information regarding excess emissions and monitor downtime in Attachment A. There were no excess emissions recorded during the reporting period.

TV-2440-0005, Condition C.58

Emission Unit IDs:	07
Equipment IDs:	2723
Regulation:	NSPS, Subpart BB; SC Reg. 61-62.1, Section II(E) {General Requirements-Synthetic Minor Construction Permits}
Description:	No. 2 Lime Kiln TRS

See detailed information regarding excess emissions and monitor downtime in Attachment A. See Lime Kiln Production in Section TV-2440-0005, Condition C.48 of this Report.

TV-2440-0005, Condition C.59

Emission Unit IDs:	07

Equipment IDs:	2723
Regulation:	SC Reg. 61-62.1, Section II(E) {General Requirements-Synthetic Minor Construction Permits}
Description:	No. 2 Lime Kiln VOC and Beryllium

See Lime Kiln Production in Section TV-2440-0005, Condition C.48 of this Report.

TV-2440-0005, Condition C.61

Emission Unit IDs:	08
Equipment IDs:	2550
Regulation:	SC Reg. 61-62.5, Standard No. 1 {Emissions From Fuel Burning Operations}
Description:	Power Boiler

The Power Boiler was permanently retired from service on August 12, 2020. Therefore, there were no excess emissions to report during the reporting period.

TV-2440-0005, Condition C.64

Emission Unit IDs:	08
Equipment IDs:	2605, 3705
Regulation:	SC Reg. 61-62.5, Standard No. 1 {Emissions From Fuel Burning Operations}
Description:	Combination Boilers 1 and 2 Opacity

See Section TV-2440-0005, Condition C.13 of this Report and detailed information in Attachment A.

TV-2440-0005, Condition C.65

Emission Unit IDs:	08
Equipment IDs:	2605, 3705
Regulation:	SC Reg. 61-62.5, Standard No. 1 {Emissions From Fuel Burning Operations}
Description:	Combination Boilers 1 and 2 Opacity

See Section TV-2440-0005, Condition C.13 of this Report and detailed information in Attachment A.

TV-2440-0005, Condition C.66

Emission Unit IDs:	02, 08
Equipment IDs:	5210, 5240, 2400, 5100, 2605, 3705, 5260, 5260C - affected sources and control devices for the optimization project to increase Kraft pulp yield (as permitted under construction permit-DC)
Regulation:	SC Reg. 61-62.5 Standard No. 1 {Emissions from Process Industries}; SC Reg. 61-62.5 Standard No. 7 {PSD}
Description:	TRS and SO_2 from affected sources and control devices for the optimization project to increase Kraft pulp yield

See Sections TV-2440-0005, Condition C.13, C.14, C.53, C.64, and C.65 of this Report and detailed information in Attachment A.

Attachment A

Excess Emissions and Continuous Emissions Monitor Report Logs

NEW INDY CONTAINERBOARD

ID 2605

New-Indy Catawba LLC
P.O. Box 7
5300 Cureton Ferry Road
Catawba, SC 29704

CONTINUOUS EMISSION MONITOR REPORT LOG

Combination Boiler No. 1

Report Period 7/1/2021 to 12/31/2021

Permit Conditions: TV-2440-0005 C.13, C.64, C.65 and TV-2440-0005-DF C.15, C.18
This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

No.	Date	Start Time	% Opacity or ppm	Monitor (Check One)				EP Bypass Time	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)			
There were no excursion events or downtime during the month of July 2021.										
1	8/2/21	1:07 PM	-	X			40	0	STI Quarterly Systems Audit	None
1	9/2/21	3:45 AM	-	x			30	0	Purge failure.	Cleaned purge filters.
1	10/8/21	11:00 PM	50	x			18	0	Transformer failure, shutting down mill operations, resulting in steam demand fluctuations	Adjusted bark and air ratios.
2	10/19/21	3:18 PM	46	x			6	6	Fire in EP Hopper.	Fire water initiated.
3	10/19/21	3:24 PM	-	x			60	60	Fire in EP Hopper. Bypassing EP, which bypasses the monitor.	Fire water initiated.
4	10/20/21	12:36 PM	42	x			6	0	Fire in hopper.	Pulled bark.
5	10/21/21	12:36 AM	48	x			6	0	Fire in west hopper.	Pulled bark. Added fire water.
6	10/22/21	5:12 AM	42	x			6	6	Fire in west hopper.	Pulled bark. Added fire water.
7	10/22/21	5:18 AM	-	x			60	60	Fire in EP Hopper. Bypassing EP, which bypasses the monitor.	Fire water initiated.
8	10/27/21	3:30 AM	50	x			6	6	Fire in EP Hopper. Bypassing EP, which bypasses the monitor.	Fire water initiated.
9	10/27/21	3:36 AM	-	x			60	60	Fire in EP Hopper. Bypassing EP, which bypasses the monitor.	Fire water initiated.
1	11/3/21	4:00 AM	-	x			180	180	Plugged hoppers.	Bypassing EP to allow for cleaning of the hoppers. Switched boiler to natural gas.
2	11/3/21	7:00 AM	-	x			70	70	Plugged hoppers.	Bypassing EP to allow for cleaning of the hoppers. Switched boiler to natural gas.
3	11/4/21	9:40 PM	-	x			35	0	Dirty filters and lenses	Cleaned filters and lenses. Performaned manual calibration.
4	11/10/21	9:30 AM	-	x			72	0	STI Systems Audit	None
5	11/13/21	3:48 AM	61	x			6	0	Fire in EP Southeast Hopper	Fire water initiated.
6	11/13/21	3:54 AM	-	x			54	54	Bypassing EP due to fire. Monitor downtime.	Pulled bark on boiler. Washed out hopper.
7	11/13/21	4:48 PM	45	x			6	0	Fire in EP Southeast Hopper	Fire water initiated.
8	11/13/21	4:54 PM	-	x			114	114	Bypassing EP due to fire. Monitor downtime.	Pulled bark on boiler. Washed out hopper.
9	11/14/21	11:00 PM	45	x			6	0	Fire in EP Southeast Hopper	Fire water initiated.
10	11/14/21	11:06 PM	-	x			72	72	Bypassing EP due to fire. Monitor downtime.	Pulled bark on boiler. Washed out hopper.
11	11/15/21	8:18 PM	46	x			12	0	Fire in EP Southeast Hopper.	Fire water initiated.
12	11/15/21	10:25 PM	-	x			73	73	Bypassing EP due to fire. Monitor downtime.	Pulled bark on boiler. Washed out hopper.
13	11/19/21	5:36 PM	57	x			6	0	Fire in EP Southeast Hopper.	Fire water initiated.
14	11/19/21	5:42 PM	-	x			120	120	Bypassing EP due to fire. Monitor downtime.	Pulled bark on boiler. Washed out hopper.
15	11/21/21	12:30 AM	54	x			12	0	Fire in EP Southeast Hopper.	Fire water initiated.
16	11/21/21	12:42 AM	-	x			84	84	Bypassing EP due to fire. Monitor downtime.	Pulled bark on boiler. Washed out hopper.
17	11/22/21	10:06 AM	54	x			12	0	Fire in EP Southeast Hopper.	Fire water initiated.
18	11/21/21	10:18 AM	-	x			72	72	Bypassing EP due to fire. Monitor downtime.	Pulled bark on boiler. Washed out hopper.

NEW INDY CONTAINERBOARD

ID 2605

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CONTINUOUS EMISSION MONITOR REPORT LOG

Combination Boiler No. 1

Report Period 7/1/2021 to 12/31/2021

Permit Conditions: TV-2440-0005 C.13, C.64, C.65 and TV-2440-0005-DF C.15, C.18
This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

No.	Date	Start Time	% Opacity or ppm	Monitor (Check One)				EP Bypass Time	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)			
19	11/24/21	7:42 AM	53	x			6	0	Fire in EP Southeast Hopper	Fire water initiated.
20	11/24/21	7:48 AM	-	x			54	54	Bypassing EP due to fire. Monitor downtime.	Pulled bark on boiler. Washed out hopper.
21	11/24/21	10:42 PM	66	x			18	0	Fire in EP Center East Hopper	Fire water initiated.
22	11/24/21	11:00 PM	-	x			66	66	Bypassing EP due to fire. Monitor downtime.	Pulled bark on boiler. Washed out hopper.
23	11/25/21	2:30 AM	53	x			12	0	Fire in EP Center East Hopper	Fire water initiated.
24	11/25/21	11:00 PM	-	x			36	36	Bypassing EP due to fire. Monitor downtime.	Pulled bark on boiler. Washed out hopper.
1	12/23/21	8:06 AM	-	x			12	0	Monitor calibration	None
2	12/24/21	3:42 AM	-	x			72	72	Bypassing EP due to fire. Monitor downtime.	Pulled bark on boiler. Washed out hopper.
3	12/28/21	4:48 AM	42	x			6	0	Fire in EP Center East Hopper	Fire water initiated.
4	12/28/21	4:54 AM	-	x			84	84	Bypassing EP due to fire. Monitor downtime.	Pulled bark on boiler. Washed out hopper.
5	12/30/21	11:06 AM	58	x			6	0	Fire in Southeast Hopper.	Pulled bark on boiler. Washed out hopper.
6	12/30/21	11:12 AM	-	x			42	42	Bypassing EP due to fire. Monitor downtime.	Pulled bark on boiler. Washed out hopper.
7	12/31/21	1:48 AM	54	x			12	0	Fire in Southeast Hopper.	Pulled bark on boiler. Washed out hopper.
8	12/31/21	2:00 AM	-	x			60	60	Bypassing EP due to fire. Monitor downtime.	Pulled bark on boiler. Washed out hopper.

NEW INDY CONTAINERBOARD

ID 2605

New-Indy Catawba LLC
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Catawba, SC 29704

CONTINUOUS EMISSION MONITOR REPORT LOG

Combination Boiler No. 2

Report Period 7/1/2021 to 12/31/2021

Permit Conditions: TV-2440-0005 C.13, C.65 and TV-2440-0005-DF C.15, C.18
This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

No.	Date	Start Time	% Opacity or ppm	Monitor (Check One)				EP Bypass Time	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)			
1	7/2/21	9:00 AM	-	x			45		Monitor Fault.	Inspected unit. Performed manual calibration.
2	7/3/21	7:30 AM	-	x			75		Monitor reading negative.	Cleaned lens. Checked alignment. Performed manual calibration.
3	7/6/21	6:06 PM	75	x			6		TR3 Tripped.	Reset power. Cut air flow.
4	7/7/21	12:46 PM	55	x			6		Sudden change in steam demand resulting in inbalance between air/fuel ratio.	Adjusted air/fuel ratio.
5	7/9/21	11:06 AM	45	x			6		Excess air in boiler due to reduced steam demand.	Reduced air flow into boiler.
6	7/14/21	5:30 PM	59	x			12	12	Sudden change in steam demand resulting in inbalance between air/fuel ratio.	Adjusted air/fuel ratio.
7	7/18/21	2:24 PM	44	x			6		TR3 Tripped.	Reset power. Cut air flow.
8	7/19/21	12:06 PM	41	x			12		High steam demand due to RB3 issues.	Reduced bark feed to boiler.
9	7/19/21	7:30 PM	67	x			12		High steam demand due to RB3 issues.	Reduced bark feed to boiler.
10	7/22/21	6:35 AM	-	x			40		Dust drift alarm.	Cleaned filters and lens. Performed manual calibration.
11	7/23/21	2:24 AM	64	x			6	6	Shutting down boiler for scheduled maintenance.	None
1	8/2/21	1:09 PM	-	x			69	0	STI Quarterly Systems Audit	None
2	8/3/21	3:30 AM	78	x			12	12	Mill Operations curtailed. Sudden steam demand change.	Pulled bark.
3	8/4/21	9:12 AM	60	x			12	0	Lost power on precipitator	Pulled bark out
4	8/4/21	1:42 PM	63	x			6	0	Lost power on precipitator	Pulled bark out
5	8/5/21	10:36 PM	46	x			6	0	Mill Operations starting up. Sudden steam demand impacts.	Adjusted boiler oxygen by increasing flow on FD Fan.
6	8/14/21	9:06 AM	-	x			12	0	Monitor fault.	Reset Monitor.
7	8/14/21	4:48 PM	45	x			12	0	Wet Bark due to heavy precipitation event.	Adjusted air and reduced bark combustion.
8	8/14/21	8:54 PM	51	x			12	0	Wet Bark due to heavy precipitation event.	Adjusted air and reduced bark combustion.
9	8/14/21	9:54 PM	80	x			12	0	Wet Bark due to heavy precipitation event.	Adjusted air and reduced bark combustion.
10	8/15/21	9:48 PM	-	x			6	0	Monitor fault.	Reset Monitor.
11	8/16/21	3:06 PM	63	x			6	0	Wet Bark due to heavy precipitation event.	Adjusted air and reduced bark combustion.
12	8/16/21	6:42 PM	48	x			6	0	Wet Bark due to heavy precipitation event.	Adjusted air and reduced bark combustion.
13	8/16/21	8:54 PM	40	x			6	0	Wet Bark due to heavy precipitation event.	Adjusted air and reduced bark combustion.
14	8/18/21	9:18 PM	-	x			6	0	Monitor fault.	Reset Monitor.
15	8/19/21	3:06 PM	45	x			6	0	Unstable boiler operation.	Adjusted air and reduced bark combustion.
16	8/21/21	8:00 AM	-	x			60	0	Failed calibration.	Cleaned lens, adjusted alignment, performed manual calibration.
17	8/21/21	12:06 PM	52	x			6	0	EP Issues.	Adjusted air and reduced bark combustion.
18	8/22/21	4:42 AM	67	x			12	0	High steam demand with RB3 down.	Adjusted air and reduced steaming rate.
19	8/23/21	3:37 PM	-	x			2116	2116	Fire in hoppers. Bypassed the EP, resulting in no opacity readings.	Pulled bark and put out the fire.
20	8/30/21	9:54 AM	74	x			18	0	Sudden paper machine shut down resulting in steam demand change.	Cut air, gas tripped out.
1	9/7/21	4:18 PM	58	x			6	0	Sudden steam demand while placing #2 Turbine Generator onlin.	Increased FD Fan and burner air flow.

NEW INDY CONTAINERBOARD

ID 2605

New-Indy Catawba LLC
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CONTINUOUS EMISSION MONITOR REPORT LOG

Combination Boiler No. 2

Report Period 7/1/2021 to 12/31/2021

Permit Conditions: TV-2440-0005 C.13, C.65 and TV-2440-0005-DF C.15, C.18
This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

No.	Date	Start Time	% Opacity or ppm	Monitor (Check One)				EP Bypass Time	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)			
2	9/9/21	4:54 PM	54	x			6	0	Precipitator field issues.	Adjusted air flow in boiler.
3	9/11/21	10:24 AM	42	x			6	0	High steam header pressure.	Cut bark bark, adjusted precipitator fields.
4	9/14/21	7:24 AM	53	x			6	0	Precipitator field issues.	Cut bark bark, adjusted precipitator fields.
5	9/15/21	12:33 PM	-	x			18	0	STI Preventive Maintenance	None
6	9/18/21	10:06 PM	47	x			6	0	Precipitator field issues.	Adjusted air flow in boiler.
7	9/19/21	4:48 PM	80	x			12	0	Wet bark, precipitator field issues.	Cut back bark, adjusted air flow.
8	9/20/21	4:36 AM	59	x			6	0	Wet bark, precipitator field issues.	Cut back bark, adjusted air flow.
9	9/20/21	10:48 AM	42	x			6	0	Precipitator field issues.	Cut back bark, adjusted air flow.
10	9/22/21	6:42 AM	42	x			6	0	Precipitator field issues.	Cut back bark, adjusted air flow.
11	9/22/21	7:24 AM	47	x			12	0	Precipitator field issues.	Cut back bark, adjusted air flow.
12	9/28/21	7:24 AM	47	x			6	0	Bark piled up on grates, low voltage on EP.	Reduced bark flow to boiler.
13	9/28/21	9:06 AM	52	x			12	0	Bark piled up on grates, low voltage on EP.	Reduced bark flow to boiler.
14	9/29/21	7:36 AM	61	x			12	0	Fire in hoppers.	Pulled bark and put out fire.
1	10/6/21	4:48 PM	41	x			6	0	Precipitator field issues.	Reduced bark firing rate.
2	10/7/21	8:44 AM	-	x			11	0	Purge alarm on monitor.	Aligned stack, cleaned purge filters.
3	10/7/21	10:15 AM	-	x			27	0	Purge alarm on monitor.	Changed optical head side purge switch.
4	10/8/21	9:48 AM	44	x			6	0	Bark piled up on grates, low voltage on EP.	Reduced bark flow to boiler.
5	10/19/21	4:42 PM	-	x			6	0	Monitor fault	Cleaned lens, reset monitor.
6	10/20/21	9:18 AM	56	x			6	0	Precipitator field issues.	Adjusted air flow to boiler.
7	10/23/21	12:21 AM	-	x			8	0	Dirty Lens	Cleaned lens.
8	10/23/21	7:45 AM	-	x			20	0	Failed daily calibration	Calibrated filter check and performed zero calibration.
1	11/2/21	7:00 AM	48	x			6	0	Ash Hoppers Plugged.	Switched to natural gas.
2	11/2/21	7:30 AM	-	x			1330	1330	Ash Hoppers Plugged.	Cleaning ash hoppers. Boiler on natural gas.
3	11/3/21	7:00 AM	-	x			1440	1440	Ash Hoppers Plugged.	Cleaning ash hoppers. Boiler on natural gas.
4	11/4/21	7:00 AM	-	x			162	162	Ash Hoppers Plugged.	Cleaning ash hoppers. Boiler on natural gas.
5	11/4/21	11:18 AM	48	x			12	0	Boiler starting up on biomass.	Adjusted air and bark ratios.
6	11/4/21	5:00 PM	-	x			55	0	Monitor malfunction alarm.	Cleaned lenses. Performed manual calibration.
7	11/10/21	11:36 AM	-	x			42	0	STI Systems Audit	None
8	11/11/21	8:18 AM	-	x			72	0	STI Systems Audit	None
9	11/12/21	5:18 AM	66	x			6	0	Unanticipated high steam loading.	Adjusted air and bark ratios.
10	11/12/21	6:18 AM	41	x			6	0	Unanticipated high steam loading.	Adjusted air and bark ratios.
11	11/12/21	11:54 AM	56	x			12	0	Unanticipated high steam loading.	Adjusted air and bark ratios.
12	11/15/21	11:06 PM	43	x			6	0	High steam loading due to fire in CB1 EP Hopper.	Adjusted air and bark ratios.
13	11/18/21	8:54 PM	54	x			12	0	Low power on precipitator field	Adjusted air and bark ratios.
14	11/22/21	10:30 AM	46	x			18	0	Bark piled up on grates.	Shut down bark screws. Adjusted air ratio.
15	11/24/21	8:24 AM	66	x			12	0	High steam loading due to fire in CB1 EP Hopper.	Adjusted air and bark ratios.
16	11/25/21	1:12 AM	48	x			6	0	High steam loading due to fire in CB1 EP Hopper.	Adjusted air and bark ratios.
17	11/30/21	5:12 AM	50	x			6	0	High steam loading due to RB3 maintenance outage.	Adjusted air and bark ratios.
18	11/30/21	5:42 AM	43	x			6	0	High steam loading due to RB3 maintenance outage.	Adjusted air and bark ratios.
1	12/4/21	4:18 AM	46	x			6	0	TR1 tripped out electrically.	Reset power to TR1.

NEW INDY CONTAINERBOARD

ID 2605

New-Indy Catawba LLC
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CONTINUOUS EMISSION MONITOR REPORT LOG

Combination Boiler No. 2

Report Period 7/1/2021 to 12/31/2021

Permit Conditions: TV-2440-0005 C.13, C.65 and TV-2440-0005-DF C.15, C.18
This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

No.	Date	Start Time	% Opacity or ppm	Monitor (Check One)				EP Bypass Time	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)			
2	12/6/21	5:42 AM	50	x			6	0	Bark buildup on grates in boiler.	Adjusted air and bark ratios.
3	12/6/21	7:54 AM	43	x			6	0	Bark buildup on grates in boiler.	Adjusted air and bark ratios.
4	12/9/21	9:36 AM	41	x			6	0	Precipitator issues	Reduced air and bark ratios.
5	12/10/21	9:35 AM	-	x			27	0	Monitor alarm due to dirty purge filters.	Replaced purge filters, cleaned lenses and performed manual calibration.
6	12/23/21	8:30 AM	-	x			18	0	Monitor calibration	None
7	12/30/21	10:30 AM	42	x			6	0	Precipitator issues	Reduced bark and air ratios

NEW INDY CONTAINERBOARD

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CONTINUOUS EMISSION MONITOR REPORT LOG

High Volume Low Concentration Gas System

ID 2605, ID 3705, ID 5210, ID 5230, ID 5250, ID 5255, ID 5270

Report Period 7/1/2021 to 12/31/2021

Permit Conditions: TV-2440-0005 C.13 and TV-2440-0005-DF C.15, C.18
This report is for indicated emissions from the fiberline, pulp washing systems, oxygen delignification, and screening/knotting systems exceeding 5 minutes duration, or permit condition exceptions.

No.	Date	Start Time	HVLC System Leg	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
1	7/16/2021	2:13 PM	FL: HVLC	10	High Pressure in collection system.	Reset vent.
1	8/4/2021	2:21 AM	FL:HVLC	7	High chip bin temperature during fiberline startup.	Started up mill and reduced steam feed to the chip bin.
2	8/4/2021	2:28 AM	FL:HVLC	5	High chip bin temperature during fiberline startup.	Started up mill and reduced steam feed to the chip bin.
3	8/4/2021	2:48 AM	FL:HVLC	7	High chip bin temperature during fiberline startup.	Started up mill and reduced steam feed to the chip bin.
4	8/24/2021	8:21 AM	FL:HVLC	15	Low steam header pressure.	Increased steam header pressure.
1	9/13/2021	2:30 PM	FL:HVLC	6	Digester system tripped due to fuse issue.	Replaced fuses in the rack room.
2	9/20/2021	9:42 AM	FL:HVLC	12	Low 150# steam header pressure.	Adjusted steam header pressure.
1	10/8/2021	4:12 PM	Powerhouse and Fiberline	34	Transformer Failure, shutting down entire mill.	Returned transformer to operation and resumed mill operations.
2	10/13/2021	10:22 PM	PH:HVLC	37	System tripped on high temperature when switching gases from CB1 to CB2.	Closed manual HVLC valves. Reset gases once temperature cooled.
3	10/29/2021	7:37 AM	FL:HVLC	7	Low steam flow	Increased steam flow
1	11/3/2021	3:06 AM	FL:HVLC	7	Pulp mill shutting down for mill outage maintenance projects.	None
2	11/4/2021	10:32 AM	PH: HVLC	98	CB1 down due to broken coupling on ID fan. Issues switching	Replaced faulty solenoid valve to swap gases to CB2.
3	11/4/2021	2:14 PM	PH: HVLC	85	Belts burned off #2 LVHC fan.	Replaced belts on #2 LVHC fan.
4	11/12/2021	5:13 AM	PH: HVLC	18	High pressure at vent.	Manually closed the auto vent.
1	12/8/2021	10:27 AM	FL:HVLC	6	High chip bin temperature	Adjusted steam flow to chip bin.

NEW INDY CONTAINERBOARD

ID 2505

New-Indy Catawba LLC
P.O. Box 7
5300 Cureton Ferry Road
Catawba, SC 29704

CONTINUOUS EMISSION MONITOR REPORT LOG

Recovery Boiler No. 2

Report Period 7/1/2021 to 12/31/2021

Permit Condition: TV-2440-0005 C.39
This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

No.	Date	Start Time	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
1	7/1/2021	7:30 AM	-	x			210	STI Diagnostic Evaluation due to Recent issues.	Cleaning and calibration.
1	8/2/2021	9:43 AM	-	x			78	STI Quarterly Systems Audit	None
2	8/4/2021	7:12 PM	Avg>20%	x			180	Isolating the north precipitator for repairs.	Pulled liquor.
3	8/15/2021	4:54 AM	80	x			66	South field down on precipitator.	Pulled liquor. Isolated the south field.
4	8/16/2021	3:24 PM	80	x			18	Heavy Precipitation resulting in high readings on the monitor.	None - rain stopped.
5	8/16/2021	3:30 PM	Avg>20%	x			60	TR1 & TR2 tripped out.	Isolated the south side of precipitator after trying unsuccessfully to reset the TR sets. Reduced liquor burning.
6	8/16/2021	4:42 PM	80	x			42	TR1 & TR2 tripped out.	Isolated the south side of precipitator after trying unsuccessfully to reset the TR sets. Reduced liquor burning.
7	8/16/2021	4:48 PM	Avg>20%	x			162	TR1 & TR2 tripped out.	Isolated the south side of precipitator after trying unsuccessfully to reset the TR sets. Reduced liquor burning.
8	8/17/2021	11:18 PM	80	x			40	Heavy Precipitation impacting operation of the precipitators fields.	Returned precipitator operation to normal.
9	8/17/2021	11:18 PM	Avg>20%	x			78	Heavy Precipitation impacting operation of the precipitators fields.	Returned precipitator operation to normal.
1	9/6/2021	11:00 AM	-	x			3	Stack alignment issues.	Aligned monitor.
2	9/11/2021	2:24 AM	80	x			42	Boiler shutting down for annual maintenance outage.	None
3	9/18/2021	3:54 PM	78	x			12	Dirty Liquor Gun	Cleaned liquor gun.
4	9/18/2021	4:06 PM	Avg>20%	x			36	Dirty Liquor Gun	Cleaned liquor gun.
1	10/12/2021	9:30 AM	-	x			18	STI Quarterly Systems Audit	None
1	11/8/2021	4:00 PM	80	x			24	Tube leak in boiler.	Emergency Shutdown of boiler.
2	11/8/2021	4:30 PM	58	x			204	Tube leak in boiler.	Emergency Shutdown of boiler.
3	11/8/2021	8:06 PM	43	x			18	Tube leak in boiler.	Emergency Shutdown of boiler.
4	11/8/2021	9:00 PM	36	x			6	Tube leak in boiler.	Emergency Shutdown of boiler.
5	11/8/2021	9:12 PM	38	x			6	Tube leak in boiler.	Emergency Shutdown of boiler.
6	11/8/2021	4:06 PM	Avg>20%	x			496	Tube leak in boiler.	Emergency Shutdown of boiler.
7	11/9/2021	12:36 AM	Avg>20%	X			6	Tube leak in boiler.	Emergency Shutdown of boiler.
8	11/9/2021	1:18 AM	Avg>20%	X			6	Tube leak in boiler.	Emergency Shutdown of boiler.
9	11/19/2021	2:24 AM	80	x			54	Grounded field in middle precipitator	Isolated north precipitator for repairs.
10	11/19/2021	2:30 AM	Avg>20%	x			102	Grounded field in middle precipitator	Isolated north precipitator for repairs.
11	11/23/2021	4:06 PM	-	x			90	Monitor alignment	Aligned monitor in stack, cleaned lens, performed manual calibration.

NEW INDY CONTAINERBOARD

ID 2505

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CONTINUOUS EMISSION MONITOR REPORT LOG

Recovery Boiler No. 2

Report Period 7/1/2021 to 12/31/2021

Permit Condition: TV-2440-0005 C.39
This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

No.	Date	Start Time	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
12	11/25/2021	9:40 AM	-	x			10	Monitor alignment	Aligned monitor in stack, cleaned lens, performed manual calibration.
1	12/6/21	1:24 AM	Avg>20%	x			142	Drag chain issues in the North side of #2 EP	Reduced liquor combustion rate and adjusted air flows.
2	12/6/21	5:24 AM	Avg>20%	x			42	Drag chain issues in the North side of #2 EP	Reduced liquor combustion rate and adjusted air flows.
3	12/19/21	3:04 AM	-	x			9	Purge alarm on monitor	Aligned stack, cleaned lenses, changed filters and performed manual calibration
4	12/22/21	9:00 AM	-	x			66	Stack alignment issues	Aligned monitor.
5	12/24/21	9:45 AM	-	x			30	Stack alignment issues	Aligned monitor.
6	12/29/21	8:15 AM	-	x			15	Monitor malfunction alarm - purge switch	Replaced purge switcch

NEW INDY CONTAINERBOARD

ID 2723

New-Indy Catawba LLC
P.O. Box 7
5300 Cureton Ferry Road
Catawba, SC 29704

CONTINUOUS EMISSION MONITOR REPORT LOG

Lime Kiln No. 2

Report Period 7/1/2021 to 12/31/2021

Permit Conditions: TV-2440-0005 C.39, C.44
This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

No.	Date	Start Time	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
1	7/15/21	8:20 AM	-	x			70	Preventive Maintenance	Changed air filters and cleaned lenses.
1	8/2/21	8:20 AM	-	x			66	STI Quarterly Systems Audit	None
2	8/3/21	5:42 PM	20	x			6	During start up of kiln operations, lost fire a couple times.	Kiln heated up and air adjustments made.
3	8/14/21	4:24 PM	40	x			12	High readings during heavy precipitation event.	None
4	8/16/21	6:41 AM	-	x			21	Failed calibration.	Inspected monitor and performed manual calibration.
5	8/23/21	10:30 AM	22	x			6	Shut kiln down to repair Primary Air Fan	None
6	8/25/21	12:48 PM	39	x			6	Starting up kiln.	None
There were no excursion events or downtime during the month of September 2021.									
1	10/1/21	10:30 AM	-	x			135	Monthly Preventive Maintenance	Changed filters, aligned optical head, checked linearity with lens kit.
2	10/11/21	9:30 AM	-	x			72	STI Quarterly Systems Audit	None
1	11/1/21	7:45 AM	-	x			45	Monitor Fault.	Excessive dust buildup on lens. Cleaned lens and performed manual calibration.
2	11/5/21	11:36 PM	25	x			6	Dirty Lens during Kiln Startup	Cleaned lens.
3	11/8/21	8:08 AM	-	x			105	STI Systems Audit	STI removed from stack for cleaning and cailbration.
4	11/15/21	7:12 AM	38	x			12	Kiln startup	None
1	12/2/21	12:30 PM	-	x			80	Technician training on QA procedures.	None
2	12/2/21	8:42 PM	22	x			6	Kiln speeding up from start up.	Adjusted air flow to kiln.
3	12/19/21	6:41 PM	-	x			35	Dust Fault Alarm	Changed filters, cleaned lenses, performed manual calibration
4	12/21/21	10:38 AM	-	x			11	Monthly preventive maintenance	None
5	12/27/21	3:48 AM	-	x			78	Purge alarm.	Cleaned lenses, change purge switch reflector side, changed filters

NEW INDY CONTAINERBOARD

ID 2510, ID 5110

New-Indy Catawba LLC
P.O. Box 7
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Catawba, SC 29704

CONTINUOUS EMISSION MONITOR REPORT LOG

Smelt Dissolving Tank Vent Scrubber

Report Period 7/1/2021 to 12/31/2021

Permit Conditions: TV-2440-0005 C.40, C.57
This report is for variations outside of surrogate monitoring parameters or permit exception conditions.

No.	Date	Start Time	Parameter Pump Pressure, Flow, delta P	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
1	7/14/21	9:00 PM	Weak Wash Flow	540	Plugged line.	Determined the line is clear.
2	7/15/21	7:00 AM	Weak Wash Flow	1440	Plugged nozzles in the scrubber.	Working to unplug the nozzles.
3	7/16/21	7:00 AM	Weak Wash Flow	660	Plugged nozzles in the scrubber.	Unplugged nozzles.
There were no excursion events or downtime during the month of August 2021.						
There were no excursion events or downtime during the month of September 2021.						
1	10/10/21	8:16 AM	Weak Wash Flow	1964	Plugged line to flowmeter.	Unplugged the line.
There were no excursion events or downtime during the month of November 2021.						
There were no excursion events or downtime during the month of December 2021.						

NEW INDY CONTAINERBOARD

ID 5105

New-Indy Catawba LLC
P.O. Box 7
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CONTINUOUS EMISSION MONITOR REPORT LOG

Recovery Boiler No. 3

Report Period 7/1/2021 to 12/31/2021

Permit Conditions: TV-2440-0005 C.41, C.42
This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

No.	Date	Start Time	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
1	7/1/21	8:30 AM	36	x			12	TR2 Set issues.	Reduced liquor firing rate.
2	7/1/21	9:00 AM	Avg>20%	x			72	TR2 Set issues.	Reduced liquor firing rate.
3	7/1/21	1:06 PM	Avg>20%	x			36	TR2 Set issues.	Reduced liquor firing rate.
4	7/1/21	9:48 PM	42	x			6	TR2 Set issues.	Reduced liquor firing rate.
5	7/13/21	5:48 PM	Avg>20%	x			6	TR2 Set issues.	Reduced liquor firing rate.
6	7/13/21	7:18 PM	Avg>20%	x			96	TR2 Set issues.	Reduced liquor firing rate.
7	7/13/21	7:48 PM	39	x			6	TR2 Set issues.	Reduced liquor firing rate.
8	7/17/21	11:00 AM	Avg>20%	x			66	East TR Set Issues.	Reset power to TR Set.
9	7/17/21	1:18 PM	37	x			6	Maintenance on Precipitator.	Ceased activity. Returned to service.
10	7/17/21	1:42 PM	Avg>20%	x			72	Maintenance on Precipitator.	Ceased activity. Returned to service.
11	7/17/21	7:42 PM	49	x			12	Lightning strike. Lost ID fan.	Lowered air on boiler.
12	7/17/21	10:00 PM	38	x			6	Lightning strike. Tripped boiler offline.	Lowered air on boiler.
13	7/18/21	1242 AM	59	x			24	Attempting to start up boiler. ID fan tripper.	Lowered air on boiler.
14	7/18/21	1:12 AM	52	x			18	Attempting to start up boiler. ID fan tripper.	Lowered air on boiler.
15	7/18/21	12:54 AM	Avg>20%	x			84	Attempting to start up boiler. ID fan tripper.	Lowered air on boiler.
16	7/18/21	12:42 PM	Avg>20%	x			60	Precipitator issues.	Reduced liquor firing rate.
17	7/19/21	12:00 PM	Avg>20%	x			96	Isolating east inlet gate for precipitator maintenance.	Opened inlet gate to precipitator.
18	7/19/21	12:36 PM	39	x			6	Isolating east inlet gate for precipitator maintenance.	Opened inlet gate to precipitator.
19	7/19/21	1:42 PM	Avg>20%	x			144	Isolating east inlet gate for precipitator maintenance.	Pulled liquor, cut air and closed the inlet and outlet gates to the precipitator.
20	7/19/21	2:24 PM	52	x			48	Isolating east inlet gate for precipitator maintenance.	Pulled liquor, cut air and closed the inlet and outlet gates to the precipitator.
21	7/19/21	4:54 PM	70	x			12	Precipator isolated. When opening doors to access for repairs, dust carried up the stack.	Closed doors. Precipitator isolated.
22	7/19/21	5:06 PM	Avg>20%	x			48	Precipator isolated. When opening doors to access for repairs, dust carried up the stack.	Closed doors. Precipitator isolated.
23	7/19/21	6:00 PM	53	x			36	Increasing liquor to boiler with east precipitator down.	Reduced liquor firing rate.
24	7/19/21	6:06 PM	Avg>20%	x			120	Increasing liquor to boiler with east precipitator down.	Reduced liquor firing rate.
25	7/19/21	7:06 PM	43	x			6	Increasing liquor to boiler with east precipitator down.	Reduced liquor firing rate.
26	7/19/21	8:12 PM	Avg>20%	x			102	Increasing liquor to boiler with east precipitator down.	Reduced liquor firing rate.
27	7/19/21	8:12 PM	65	x			48	Increasing liquor to boiler with east precipitator down.	Reduced liquor firing rate.
28	7/19/21	10:42 PM	41	x			36	Restored liquor firing in boiler.	Adjusted air/liquor ratio.
29	7/19/21	10:54 PM	Avg>20%	x			90	Restored liquor firing in boiler.	Adjusted air/liquor ratio.
30	7/19/21	11:36 PM	42	x			12	Restored liquor firing in boiler.	Adjusted air/liquor ratio.
31	7/20/21	12:48 AM	48	x			12	Restored liquor firing in boiler.	Adjusted air/liquor ratio.
32	7/20/21	1:12 AM	Avg>20%	x			42	Restored liquor firing in boiler.	Adjusted air/liquor ratio.
33	7/20/21	5:12 AM	36	x			6	Adjusting load on boiler. East precipitator down for maintenance.	Adjusted air/liquor ratio.
34	7/20/21	8:12 AM	Avg>20%	x			36	Adjusting load on boiler. East precipitator down for maintenance.	Adjusted air/liquor ratio.

NEW INDY CONTAINERBOARD

ID 5105

New-Indy Catawba LLC
P.O. Box 7
5300 Cureton Ferry Road
Catawba, SC 29704

CONTINUOUS EMISSION MONITOR REPORT LOG

Recovery Boiler No. 3

Report Period 7/1/2021 to 12/31/2021

Permit Conditions: TV-2440-0005 C.41, C.42
This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

No.	Date	Start Time	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
35	7/20/21	10:00 AM	Avg>20%	x			18	Adjusting load on boiler. East precipitator down for maintenance.	Adjusted air/liquor ratio.
36	7/20/21	12:00 PM	Avg>20%	x			18	Adjusting load on boiler. East precipitator down for maintenance.	Adjusted air/liquor ratio.
37	7/20/21	3:36 PM	Avg>20%	x			66	Adjusting load on boiler. East precipitator down for maintenance.	Adjusted air/liquor ratio.
38	7/20/21	3:42 PM	54	x			18	Placing east precipitator online. Maintenance complete.	Power restored on east precipitator.
39	7/21/21	1:12 AM	Avg>20%	x			48	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.
40	7/21/21	2:12 PM	37	x			6	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.
41	7/21/21	2:12 PM	Avg>20%	x			144	TR2 tripped out.	Reset power to TR Set.
42	7/21/21	3:30 PM	48	x			18	TR2 tripped out.	Reset power to TR Set.
43	7/21/21	5:12 PM	Avg>20%	x			60	TR2 tripped out.	Reset power to TR Set.
44	7/21/21	9:36 PM	40	x			6	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.
45	7/21/21	9:42 PM	Avg>20%	x			36	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.
46	7/22/21	9:48 AM	Avg>20%	x			108	TR2 tripped out.	Adjusted air/liquor ratio. Reset TR2 multiple times.
47	7/22/21	10:24 AM	45	x			6	TR2 tripped out.	Adjusted air/liquor ratio. Reset TR2 multiple times.
48	7/22/21	10:36 AM	39	x			6	TR2 tripped out.	Adjusted air/liquor ratio. Reset TR2 multiple times.
49	7/22/21	11:06 AM	36	x			12	TR2 tripped out.	Adjusted air/liquor ratio. Reset TR2 multiple times.
50	7/22/21	11:48 AM	Avg>20%	x			6	TR2 tripped out.	Adjusted air/liquor ratio. Reset TR2 multiple times.
51	7/22/21	12:00 PM	Avg>20%	x			6	TR2 tripped out.	Adjusted air/liquor ratio. Reset TR2 multiple times.
52	7/22/21	1:06 PM	Avg>20%	x			72	TR2 tripped out.	Adjusted air/liquor ratio. Reset TR2 multiple times.
53	7/22/21	4:40 PM	-	x			40	Monitor alignment.	Aligned monitor and performed manual calibration.
54	7/22/21	5:06 PM	Avg>20%	x			12	Precipitator issues.	Adjusted air/liquor ratio.
55	7/22/21	5:12 PM	38	x			6	Precipitator issues.	Adjusted air/liquor ratio.
56	7/22/21	6:24 PM	Avg>20%	x			114	Precipitator issues.	Reduced liquor firing rate.
57	7/22/21	9:36 PM	Avg>20%	x			54	Precipitator issues.	Reduced liquor firing rate.
58	7/23/21	3:24 AM	Avg>20%	x			60	Precipitator issues.	Reduced liquor firing rate.
59	7/24/21	9:06 AM	37	x			6	East TR Set Tripped Out.	Reset power to TR Set.
60	7/24/21	4:42 PM	Avg>20%	x			60	TR2 tripped out.	Reset power to TR Set.
61	7/24/21	7:30 PM	Avg>20%	x			24	TR2 tripped out.	Reset power to TR Set.
62	7/25/21	8:00 AM	Avg>20%	x			12	East TR Set Tripped Out.	Reset power to TR Set.
63	7/25/21	1:18 PM	Avg>20%	x			60	East TR Set Tripped Out.	Reset power to TR Set.
64	7/25/21	7:12 PM	39	x			6	East TR Set Tripped Out.	Reset power to TR Set.
65	7/25/21	7:12 PM	Avg>20%	x			150	East TR Set Tripped Out.	Reset power to TR Set.
66	7/26/21	3:06 PM	Avg>20%	x			66	East TR Set Tripped Out.	Reset power to TR Set.
67	7/27/21	1:06 PM	Avg>20%	x			66	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.
68	7/27/21	2:42 PM	Avg>20%	x			120	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.
69	7/27/21	3:06 AM	Avg>20%	x			48	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.
70	7/27/21	5:24 AM	Avg>20%	x			42	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.
71	7/27/21	2:00 PM	Avg>20%	x			30	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.
72	7/27/21	10:42 PM	Avg>20%	x			72	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.
73	7/28/21	9:48 AM	Avg>20%	x			66	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.

NEW INDY CONTAINERBOARD

ID 5105

New-Indy Catawba LLC
P.O. Box 7
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CONTINUOUS EMISSION MONITOR REPORT LOG

Recovery Boiler No. 3

Report Period 7/1/2021 to 12/31/2021

Permit Conditions: TV-2440-0005 C.41, C.42

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

No.	Date	Start Time	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
74	7/28/21	11:42 PM	Avg>20%	x			42	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.
75	7/29/21	5:24 AM	Avg>20%	x			6	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.
76	7/29/21	10:48 AM	-	x			5	QA	Cleaned lens, checked alignment.
77	7/29/21	11:30 AM	Avg>20%	x			30	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.
78	7/29/21	5:24 PM	Avg>20%	x			54	Precipitator tripped offline.	Adjusted liquor combustion and air settings.
79	7/29/21	5:24 PM	49	x			6	Precipitator tripped offline.	Adjusted liquor combustion and air settings.
80	7/29/21	9:54 PM	40	x			6	East and middle fields tripped offline.	Reset power to TR Set.
81	7/30/21	3:12 AM	Avg>20%	x			72	Lost steam flow on boiler.	Adjusted fuel flows.
82	7/30/21	3:12 AM	46	x			6	Lost steam flow on boiler.	Adjusted fuel flows.
83	7/31/21	10:30 AM	Avg>20%	x			42	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.
1	8/1/21	1:24 AM	Avg>20%	x			18	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.
2	8/1/21	6:30 AM	Avg>20%	x			12	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.
3	8/2/21	11:07 AM	-	x			61	STI Quarterly Systems Audit	None
4	8/2/21	5:48 PM	41	x			30	West Precipitator Isolated for maintenance.	Pulled liquor.
5	8/2/21	5:54 PM	Avg>20%	x			102	West Precipitator Isolated for maintenance.	Pulled liquor.
6	8/2/21	6:42 PM	45	x			24	West Precipitator Isolated for maintenance.	Pulled liquor.
7	8/2/21	7:54 PM	46	x			6	West Precipitator Isolated for maintenance.	Pulled liquor.
8	8/3/21	5:12 AM	70	x			18	West Precipitator Isolated for maintenance.	Pulled liquor.
9	8/3/21	5:30 AM	Avg>20%	x			90	West Precipitator Isolated for maintenance.	Pulled liquor.
10	8/3/21	6:18 AM	37	x			6	West Precipitator Isolated for maintenance.	Pulled liquor.
11	8/3/21	6:54 AM	46	x			72	West Precipitator Isolated for maintenance.	Pulled liquor.
12	8/3/21	8:00 AM	Avg>20%	x			66	West Precipitator Isolated for maintenance.	Pulled liquor.
13	8/3/21	7:48 PM	48	x			6	Placed the west precipitator back online after repairs completed.	Pulled liquor.
14	8/4/21	3:00 PM	Avg>20%	x			18	Boiler tripped offline.	Relit boiler and adjusted air/fuel ratio.
15	8/6/21	4:36 AM	Avg>20%	x			42	Mill starting up. Sudden steam demand.	Adjusted liquor combustion and air settings.
16	8/6/21	6:54 PM	Avg>20%	x			78	Fuel to Air Ratio issues.	Reduced liquor combustion and adjusted air settings.
17	8/7/21	12:48 PM	Avg>20%	x			192	Black out on the boiler.	Adjusted air and pulled liquor.
18	8/11/21	12:24 AM	Avg>20%	x			24	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.
19	8/11/21	9:43 AM	-	x			4	QA	Cleaned lens, aligned stack.
20	8/11/21	10:54 AM	Avg>20%	x			72	TR1 Set Trip Out	Reset the TR Set
21	8/11/21	11:00 AM	50	x			12	TR1 Set Trip Out	Reset the TR Set
22	8/15/21	11:12 PM	Avg>20%	x			12	Inlet field malfunction.	Reduced air to boiler.
23	8/16/21	11:48 PM	Avg>20%	x			36	Inlet field malfunction.	Reduced air to boiler.
24	8/20/21	5:00 AM	Avg>20%	x			78	East side TR2 malfunction	Reduced liquor combustion and adjusted air settings.
25	8/20/21	8:30 PM	Avg>20%	x			156	East side TR2 malfunction	Reduced liquor combustion and adjusted air settings.
26	8/21/21	5:42 AM	Avg>20%	x			18	East side TR2 malfunction	Reduced liquor combustion and adjusted air settings.
27	8/21/21	6:24 AM	Avg>20%	x			6	East side TR2 malfunction	Reduced liquor combustion and adjusted air settings.
28	8/21/21	6:48 AM	Avg>20%	x			12	East side TR2 malfunction	Reduced liquor combustion and adjusted air settings.
29	8/21/21	7:54 AM	Avg>20%	x			12	East side TR2 malfunction	Reset the TR Set
30	8/21/21	9:06 AM	Avg>20%	x			48	East side TR2 malfunction	Reset the TR Set

NEW INDY CONTAINERBOARD

ID 5105

New-Indy Catawba LLC
P.O. Box 7
5300 Cureton Ferry Road
Catawba, SC 29704

CONTINUOUS EMISSION MONITOR REPORT LOG

Recovery Boiler No. 3

Report Period 7/1/2021 to 12/31/2021

Permit Conditions: TV-2440-0005 C.41, C.42
This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

No.	Date	Start Time	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
31	8/21/21	1:54 PM	Avg>20%	x			12	East side TR2 malfunction	Reset the TR Set
32	8/22/21	6:48 PM	39	x			6	Shutting down boiler for maintenance.	Opened inlet gate to the precipitator.
33	8/24/21	9:12 AM	65	x			36	Boiler starting up.	Reduced liquor combustion and adjusted air settings.
34	8/24/21	9:18 AM	Avg>20%	x			72	Boiler starting up.	Reduced liquor combustion and adjusted air settings.
35	8/24/21	10:48 AM	38	x			12	Boiler starting up.	Reduced liquor combustion and adjusted air settings.
36	8/24/21	2:06 PM	43	x			6	Boiler starting up.	Reduced liquor combustion and adjusted air settings.
37	8/24/21	2:42 PM	Avg>20%	x			42	Boiler starting up.	Reduced liquor combustion and adjusted air settings.
38	8/24/21	8:24 PM	Avg>20%	x			222	Starting up #1 precipitator.	Cut back air, cleaned oil guns, adjusted dampers.
39	8/24/21	9:00 PM	47	x			12	Starting up #1 precipitator.	Cut back air, cleaned oil guns, adjusted dampers.
40	8/24/21	9:48 PM	58	x			12	Starting up #1 precipitator.	Cut back air, cleaned oil guns, adjusted dampers.
41	8/24/21	10:48 AM	55	x			12	Starting up #1 precipitator.	Cut back air, cleaned oil guns, adjusted dampers.
42	8/25/21	8:30 AM	48	X			6	Precipitator Issues	Adjusted air and pulled liquor.
43	8/25/21	9:06 AM	Avg>20%	x			24	Precipitator Issues	Adjusted air and pulled liquor.
44	8/25/21	1:30 PM	41	x			6	Precipitator Issues	Adjusted air and pulled liquor.
45	8/25/21	2:00 PM	Avg>20%	x			42	Precipitator Issues	Pulled liquor. Isolated the precipitator.
46	8/25/21	2:54 PM	61	x			30	Precipitator Issues	Pulled liquor. Isolated the precipitator.
47	8/25/21	3:00 PM	Avg>20%	x			120	Precipitator Issues	Pulled liquor. Isolated the precipitator.
48	8/25/21	3:36 PM	70	x			36	Precipitator Issues	Pulled liquor. Isolated the precipitator.
49	8/26/21	5:00 AM	41	x			6	East inlet field tripped.	Reset field.
50	8/26/21	8:00 AM	41	x			6	ESP Malfunction	Reduced liquor combustion and adjusted air settings.
51	8/26/21	8:12 AM	70	x			36	ESP Malfunction	Reduced liquor combustion and adjusted air settings.
52	8/26/21	8:12 AM	Avg>20%	x			84	ESP Malfunction	Reduced liquor combustion and adjusted air settings.
53	8/26/21	10:48 AM	65	x			24	ESP Malfunction	Reduced liquor combustion and adjusted air settings.
54	8/26/21	10:54 AM	Avg>20%	x			66	ESP Malfunction	Reduced liquor combustion and adjusted air settings.
55	8/26/21	1:42 PM	49	x			36	Drag chain failure in ESP	Stopped liquor burning, replaced drag chain.
56	8/26/21	1:42 PM	Avg>20%	x			324	Drag chain failure in ESP	Stopped liquor burning, replaced drag chain.
57	8/26/21	3:00 PM	38	x			6	Drag chain failure in ESP	Stopped liquor burning, replaced drag chain.
58	8/26/21	3:12 PM	35	x			18	Drag chain failure in ESP	Stopped liquor burning, replaced drag chain.
59	8/26/21	3:48 PM	35	x			6	Drag chain failure in ESP	Stopped liquor burning, replaced drag chain.
60	8/26/21	5:12 PM	70	x			72	Drag chain failure in ESP	Stopped liquor burning, replaced drag chain.
61	8/28/21	7:36 PM	Avg>20%	x			24	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.
62	8/31/21	6:48 AM	Avg>20%	x			12	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.
1	9/3/21	11:48 AM	Avg>20%	x			18	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.
2	9/8/21	3:12 PM	53	x			18	Ash collection conveyor issues in east side precipitator.	Isolated east side of precipitator and repaired.
3	9/8/21	3:18 PM	Avg>20%	x			54	Ash collection conveyor issues in east side precipitator.	Isolated east side of precipitator and repaired.
4	9/9/21	9:55 AM	-	x			40	Boiler starting up from tube leak repair - performed stack alignment.	Performed manual calibration - no issues.
5	9/9/21	7:48 PM	Avg>20%	x			30	Boiler steaming load swinging.	Reduced liquor combustion and adjusted air settings.
6	9/10/21	6:24 PM	Avg>20%	x			84	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.
7	9/11/21	5:00 AM	Avg>20%	x			30	Steam load fluctuating as RB2 shutting down for annual outage.	Adjusted liquor combustion and air settings.

NEW INDY CONTAINERBOARD

ID 5105

New-Indy Catawba LLC
P.O. Box 7
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Catawba, SC 29704

CONTINUOUS EMISSION MONITOR REPORT LOG

Recovery Boiler No. 3

Report Period 7/1/2021 to 12/31/2021

Permit Conditions: TV-2440-0005 C.41, C.42
This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

No.	Date	Start Time	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
8	9/11/21	5:36 AM	Avg>20%	x			6	Steam load fluctuating as RB2 shutting down for annual outage.	Adjusted liquor combustion and air settings.
9	9/11/21	9:00 AM	Avg>20%	x			90	High steam load associated with RB2 annual outage.	Adjusted liquor combustion and air settings.
10	9/11/21	11:12 AM	Avg>20%	x			24	High steam load associated with RB2 annual outage.	Adjusted liquor combustion and air settings.
11	9/11/21	12:30 PM	Avg>20%	x			246	High steam load associated with RB2 annual outage.	Adjusted liquor combustion and air settings.
12	9/12/21	9:11 AM	-	x			12	Monitor QA	Clean lens, adjust alignment and perform manual calibration.
13	9/13/21	3:12 AM	Avg>20%	x			48	High steam load associated with RB2 annual outage.	Adjusted liquor combustion and air settings.
14	9/13/21	11:12 AM	Avg>20%	x			48	High steam load associated with RB2 annual outage.	Adjusted liquor combustion and air settings.
15	9/13/21	1:36 PM	Avg>20%	x			48	High steam load associated with RB2 annual outage.	Adjusted liquor combustion and air settings.
16	9/13/21	1:36 PM	41	x			6	High steam load associated with RB2 annual outage.	Adjusted liquor combustion and air settings.
17	9/14/21	5:42 PM	Avg>20%	x			36	High steam load associated with RB2 annual outage.	Adjusted liquor combustion and air settings.
18	9/15/21	9:37 AM	-	x			48	STI Preventive Maintenance	None
19	9/16/21	7:48 PM	Avg>20%	x			6	High steam load associated with RB2 annual outage.	Adjusted liquor combustion and air settings.
20	9/18/21	3:36 PM	Avg>20%	x			12	Fuel to Air Ratio issues.	Adjusted liquor combustion and air settings.
21	9/20/21	9:30 AM	Avg>20%	x			54	Black liquor solids fluctuating, resulting in boiler operating swings.	Adjusted liquor combustion and air settings.
22	9/20/21	5:54 PM	Avg>20%	x			24	Black liquor solids fluctuating, resulting in boiler operating swings.	Adjusted liquor combustion and air settings.
23	9/20/21	9:42 PM	Avg>20%	x			12	Black liquor solids fluctuating, resulting in boiler operating swings.	Adjusted liquor combustion and air settings.
24	9/21/21	11:42 AM	Avg>20%	x			24	Black liquor solids fluctuating, resulting in boiler operating swings.	Adjusted liquor combustion and air settings.
1	10/2/21	3:06 PM	Avg>20%	x			12	Black liquor solids fluctuating, resulting in boiler operating swings.	Adjusted liquor combustion and air settings.
2	10/4/21	7:54 PM	Avg>20%	x			12	Black liquor solids fluctuating, resulting in boiler operating swings.	Adjusted liquor combustion and air settings.
3	10/5/21	12:20 PM	-	x			20	Quality Assurance	Cleaned lens and adjusted alignment.
4	10/12/21	11:12 AM	-	x			60	STI Quarterly Systems Audit	None
5	10/16/21	5:48 PM	Avg>20%	x			36	Boiler tripped offline, restarting boiler.	Adjusted liquor combustion and air settings.
6	10/16/21	9:00 PM	Avg>20%	x			54	Boiler tripped offline, restarting boiler.	Adjusted liquor combustion and air settings.
7	10/18/21	1:42 AM	Avg>20%	x			6	Black liquor solids fluctuating, resulting in boiler operating swings.	Adjusted liquor combustion and air settings.
8	10/18/21	2:06 AM	Avg>20%	x			12	Black liquor solids fluctuating, resulting in boiler operating swings.	Adjusted liquor combustion and air settings.
9	10/19/21	4:18 AM	Avg>20%	x			12	Black liquor solids fluctuating, resulting in boiler operating swings.	Adjusted liquor combustion and air settings.
1	11/8/21	5:24 PM	Avg>20%	x			12	Steam load shift associated with RB2 going down	Cut liquor and adjusted air flow through boiler.
2	11/9/21	12:48 PM	-	x			114	STI Systems Audit	None
3	11/10/21	8:54 PM	39	x			6	TR2 & TR3 Sets Trip Out	Reset Power

NEW INDY CONTAINERBOARD

ID 5105

New-Indy Catawba LLC
P.O. Box 7
5300 Cureton Ferry Road
Catawba, SC 29704

CONTINUOUS EMISSION MONITOR REPORT LOG

Recovery Boiler No. 3

Report Period 7/1/2021 to 12/31/2021

Permit Conditions: TV-2440-0005 C.41, C.42

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

No.	Date	Start Time	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
4	11/24/21	4:06 PM	41	x			6	TR3 Field Issues	Cut liquor and adjusted air flow through boiler.
5	11/24/21	4:06 PM	Avg>20%	x			30	TR3 Field Issues	Cut liquor and adjusted air flow through boiler.
6	11/28/21	10:00 AM	70	x			60	TR2 & TR3 Sets Trip Out	Pulled liquor, adjusted air, replaced west middle field breaker.
7	11/28/21	11:06 AM	48	x			168	TR2 & TR3 Sets Trip Out	Pulled liquor, adjusted air, replaced west middle field breaker.
8	11/28/21	10:12 AM	Avg>20%	x			258	TR2 & TR3 Sets Trip Out	Pulled liquor, adjusted air, replaced west middle field breaker.
9	11/29/21	10:12 AM	Avg>20%	x			36	TR2 & TR3 Set Issues	Reduced liquor feed rate and adjusted air.
10	11/30/21	4:30 AM	47	x			18	Boiler shutting down for maintenance	None
1	12/3/21	9:12 PM	-	x			126	Stack alignment, cleaned lens	Boiler starting up, stack warming up, required alignment.
2	12/5/21	11:15 PM	-	x			15	Stack alignment, cleaned lens	None
3	12/6/21	12:36 PM	-	x			60	Power to perforated plate rappers off.	Energized the rappers.
4	12/9/21	8:00 AM	-	x			84	Stack alignment, cleaned lens	None
5	12/22/21	10:36 AM	-	x			30	Quality assurance	None

NEW INDY CONTAINERBOARD

ID 2725C

New-Indy Catawba LLC
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Catawba, SC 29704

CONTINUOUS EMISSION MONITOR REPORT LOG

Slaker Scrubber

Report Period 7/1/2021 to 12/31/2021

Permit Conditions: TV-2440-0005 C. 45, C.46
This report is for variations outside of surrogate monitoring parameters or permit condition exceptions.

No.	Date	Start Time	Parameter	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
			Flow			
There were no excursion events or downtime during the month of July 2021.						
There were no excursion events or downtime during the month of August 2021.						
There were no excursion events or downtime during the month of September 2021.						
There were no excursion events or downtime during the month of October 2021.						
There were no excursion events or downtime during the month of November 2021.						
There were no excursion events or downtime during the month of December 2021.						

NEW INDY CONTAINERBOARD

ID 5105

New-Indy Catawba LLC
P.O. Box 7
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Catawba, SC 29704

CONTINUOUS EMISSION MONITOR REPORT LOG

Recovery Boiler No. 3

Report Period 7/1/2021 to 12/31/2021

Permit Condition: TV-2440-0005 C.51

This report is for indicated excessive NOx (reported in ppm), monitor downtime or repair (including O2 monitor), or permit condition exceptions.

No.	Date	Start Time	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	NOx	O2	Duration (Minutes)		
There were no excursion events or downtime during the month of July 2021.									
1	8/3/21	11:50 AM	-		x		47	STI Quarterly Systems maintenance.	None
There were no excursion events or downtime during the month of September 2021.									
There were no excursion events or downtime during the month of October 2021.									
There were no excursion events or downtime during the month of November 2021.									
There were no excursion events or downtime during the month of December 2021.									

NEW INDY CONTAINERBOARD

ID 5260C

New-Indy Catawba LLC
P.O. Box 7
5300 Cureton Ferry Road
Catawba, SC 29704

CONTINUOUS EMISSION MONITOR REPORT LOG

TRS Scrubber on NCG System

Report Period 7/1/2021 to 12/31/2021

Permit Conditions: TV-2440-0005 C.53 and TV-2440-0005-DF C.15, C.18
This report is for variations outside of surrogate monitoring parameters or permit condition exceptions.

No.	Date	Start Time	Parameter	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
			Flow and ph			
There were no excursion events or downtime during the month of July 2021.						
There were no excursion events or downtime during the month of August 2021.						
There were no excursion events or downtime during the month of September 2021.						
There were no excursion events or downtime during the month of October 2021.						
There were no excursion events or downtime during the month of November 2021.						
There were no excursion events or downtime during the month of December 2021.						

NEW INDY CONTAINERBOARD

ID 2400, ID 2605, ID 3705

New-Indy Catawba LLC
P.O. Box 7
5300 Cureton Ferry Road
Catawba, SC 29704

CONTINUOUS EMISSION MONITOR REPORT LOG

Low Volume High Concentration Gas System

Report Period 7/1/2021 to 12/31/2021

Permit Conditions: TV-2440-0005 C.53 and TV-2440-0005-DF C.15, C.18

This report is for indicated emissions from the digester and/or multiple effect evaporator systems exceeding 5 minutes duration, or permit condition exceptions.

No.	Date	Start Time	LVHC System Leg	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
1	7/9/2021	9:00 AM	LVHC - PH	9	Low 150# steam header due to #2 turbine generator shutting down.	Increased header pressure.
2	7/16/2021	9:32 PM	LVHC - PH	30	Inspecting for possible blown rupture disk.	Returned system to operation.
3	7/17/2021	5:27 PM	LVHC - PH	52	LVHC Collect Valve Malfunction	Repaired valve.
1	8/24/2021	8:21 AM	LVHC - PH	13	Low steam header pressure.	Increased header pressure.
1	9/7/2021	3:17 AM	LVHC - PH	14	Steam inbalance due to RB3 going down for tube leak.	Balanced steam load.
2	9/7/2021	4:06 AM	LVHC - PH	95	Steam inbalance due to RB3 going down for tube leak.	Balanced steam load.
3	9/11/2021	5:30 AM	LVHC - PH	10	Low 150 # steam header pressure due to #2 turbine generator issues.	Increased header pressure.
4	9/13/2021	2:24 PM	LVHC - PH	7	Digester system tripped due to fuse issue.	Replaced fuses in the rack room.
5	9/14/2021	5:26 AM	LVHC - PH	9	Low steam header pressure.	Increased header pressure.
6	9/20/2021	9:42 AM	LVHC - PH	10	Low steam header pressure.	Increased header pressure.
7	9/21/2021	11:16 PM	LVHC - All	158	Blown fuse on Genius Block	Troubleshoot system, isolate to the genius block and replace the fuse.
1	10/2/2021	11:00 PM	LVHC - PH	54	Blown fuses in Genius Block	Replaced fuses.
2	10/8/2021	4:08 AM	LVHC - PH	23	Blown fuses in Genius Block	Replaced fuses.
3	10/8/2021	4:12 PM	LVHC - All	34	Transformer failure shutting mill down.	Restored transformer and restarted mill.
1	11/4/2021	8:01 AM	LVHC - PH	46	Mill shutting down, over-pressurization of the system.	Mill down.
2	11/4/2021	10:32 AM	LVHC - PH	98	CB1 down due to broken coupling on ID fan. Issues switching gases to CB2.	Replaced faulty solenoid valve to swap gases to CB2.
3	11/29/2021	7:50 PM	LVHC - PH	7	Lost the CB1 Ignitor flame.	Relit the ignitor flame.
4	11/29/2021	8:04 PM	LVHC - PH	7	Lost the CB1 Ignitor flame.	Relit the ignitor flame.
5	11/29/2021	10:37 PM	LVHC - PH	5	Lost the CB1 Ignitor flame.	Relit the ignitor flame.
1	12/11/2021	1:07 AM	LVHC - PH	15	Igniter flame tripped out.	Relit the ignitor flame.
2	12/18/2021	8:37 PM	LVHC - PH	9	Low steam header pressure.	Increased header pressure.
3	12/21/2021	5:33 AM	LVHC - PH	30	Low LVHC gas flow	Evaporator issues

NEW INDY CONTAINERBOARD

ID 2505

New-Indy Catawba LLC
P.O. Box 7
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Catawba, SC 29704

CONTINUOUS EMISSION MONITOR REPORT LOG

Recovery Boiler No. 2

Report Period 7/1/2021 to 12/31/2021

Permit Condition: TV-2440-0005 C.54
This report is for indicated excessive TRS (reported in ppm), monitor downtime or repair (including O2 monitor), or permit condition exceptions.

No.	Date	Start Time	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
There were no excursion events or downtime during the month of July 2021.									
1	8/16/21	8:30 AM	-		x		60	Low calibration gas bottle	Replaced bottle.
1	9/20/21	8:45 AM	-		x		135	Leak at probe box.	Repaired leak, dialed in citi-cell. Performed manual calibration.
1	10/1/21	7:30 AM	-		x		35	Failed Oxygen Span Drift	Inspected System, Performed Manual Calibration. Passed.
2	10/5/21	8:35 AM	-		x		148	Failed Oxygen Span Drift	Calibrated Citicell, performed manual calibration. Passed.
3	10/25/21	8:45 AM	-		x		120	Failed Oxygen Span Drift	Calibrated Citicell, performed manual calibration. Passed.
4	10/26/21	8:05 AM	-		x		225	Failed Oxygen Span Drift	Changed citicell. Performed manual calibration.
5	10/29/21	6:45 AM	-		x		225	Failed daily calibration.	Changed span gas cylinder. Repaired air leaks, performed manual calibration.
1	11/20/21	11:00 AM	-		x		70	High temperature alarm on cooler	Replaced cooler and reset the alarm.
1	12/21/21	1:00 PM	-		x		105	Preventive maintenance.	Rebuilt adi transfer pump,charcoal,scrubber beads,check all parameters ,ran manual cal and adjust as needed.

NEW INDY CONTAINERBOARD

ID 5105

New-Indy Catawba LLC
P.O. Box 7
5300 Cureton Ferry Road
Catawba, SC 29704

CONTINUOUS EMISSION MONITOR REPORT LOG

Recovery Boiler No. 3

Report Period 7/1/2021 to 12/31/2021

Permit Condition: TV-2440-0005 C.55
This report is for indicated excessive TRS (reported in ppm), monitor downtime or repair (including O2 monitor), or permit condition exceptions.

No.	Date	Start Time	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
1	7/3/21	8:45 AM	-		x		90	Failed calibration.	Changed TRS Gas bottle. Performed manual calibration.
2	7/21/21	1:23 PM	-		x		31	Quality Assurance	Inspect system. Perform manual calibration.
1	8/16/21	9:30 AM	-		x		120	Failed daily calibration.	Replaced cal gas bottle, refilled scrubber water, resaturated beads, performed manual calibration.
2	8/19/21	8:30 PM	-		x		70	Failed daily calibration.	Monitor adjustments. Performed manual calibration.
There were no excursion events or downtime during the month of September 2021.									
There were no excursion events or downtime during the month of October 2021.									
1	11/4/21	8:25 AM	-		x		449	Failed morning calibration.	Changed Citi Cell and holder. Calibrated Citi Cell. Performed manual calibration.
1	12/22/21	8:15 AM	-		x		60	Preventive maintenance.	Changed charcoal,scrubber beads,rebuilt adi transfer pump,filled waters,ran manual cal and adjust as needed.

NEW INDY CONTAINERBOARD

ID 2723

New-Indy Catawba LLC
P.O. Box 7
5300 Cureton Ferry Road
Catawba, SC 29704

CONTINUOUS EMISSION MONITOR REPORT LOG

Lime Kiln No. 2

Report Period 7/1/2021 to 12/31/2021

Permit Condition: TV-2440-0005 C.58
This report is for indicated excessive TRS (reported in ppm), monitor downtime or repair (including O2 monitor), or permit condition exceptions.

No.	Date	Start Time	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
1	7/1/21	8:20 AM	-		x		315	Failed calibration - oxygen span drift	Changed oxygen cell. Performed manual calibration.
2	7/3/21	7:04 AM	-		x		46	Failed calibration - oxygen span drift	Adjusted citicell. Performed manual calibration.
3	7/3/21	12:16 PM	-		x		29	Questionable readings.	Performed calibrated gas check. Meter checked out okay.
4	7/4/21	12:18 PM	-		x		17	Questionable readings.	Performed calibrated gas check. Meter checked out okay.
5	7/6/21	6:27 AM	-		x		18	Failed oxygen span drift.	Adjusted citicell. Performed manual calibration.
6	7/7/21	1:00 AM	-		x		150	Oxygen span drift warning.	Adjusted oxygen span and zero.
7	7/24/21	6:20 AM	-		x		6	Failed oxygen span calibration.	Performed manual calibration. Passed.
1	8/29/21	6:29 AM	-		x		17	Failed oxygen span calibration.	Adjusted oxygen span, performed manual calibration. Passed.
There were no excursion events or downtime during the month of September 2021.									
1	10/12/21	6:35 AM	-		x		55	Failed TRS Span	Cleaned eductor and performed manual calibration.
1	11/22/21	8:45 AM	-		x		20	Failed oxygen span drift calibration.	Recalibrated oxygen span.
2	11/23/21	6:35 AM	-		x		17	Failed oxygen span drift calibration.	Recalibrated oxygen span.
1	12/2/21	9:45 AM	-		x		75	Technical training session with the calibration of the i43 modure and TRS inferface controls.	None
2	12/8/21	6:40 AM	-		x		30	Failed oxygen span drift calibration.	Adjusted oxygen span and performed manual calibration.
3	12/21/21	7:25 AM	-		x		155	Preventive maintenance.	change charcoal in scrubber,change scrubber beads,rebuild adi transfer pump,change blue inline filters.

NEW INDY CONTAINERBOARD

ID 9801

New-Indy Catawba LLC
P.O. Box 7
5300 Cureton Ferry Road
Catawba, SC 29704

CONTINUOUS EMISSION MONITOR REPORT LOG

Steam Stripper

Report Period 7/1/2021 to 12/31/2021

Permit Condition: MACT S
This report is for variations outside of 15-day average collection (7.2 #/ODTP) and treatment (6.6 #/ODTP).

No.	Date	Start Time	Parameter	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
			Flow and Steam			
There were no excursion events or downtime during the month of July 2021.						
1	8/23/2021	12:00 AM	Avg. lbs Collected < 7.2 Avg. lbs Removed < 6.6	21600	The Multi-Effect Evaporator Systems experienced operational issues beginning August 16, 2021 that caused black liquor to carry over into the foul evaporator condensate that is collected and routed to the Condensate Steam Stripper System. The black liquor in the condensate feed stream accumulated on the heat transfer surfaces (e.g., preheaters), thereby negatively impacting the foul condensate treatment of HAPs in the Condensate Steam Stripper.	The Mill began continuously feeding defoamer into the Evaporator Systems to prevent foaming and black liquor carryover to the foul condensate. The Mill also increased the ESFR beginning on August 31st to improve treatment efficiency in the steam stripper, and began sending stripped condensate samples for analysis. The stripped condensate liquid concentration results indicated that the steam stripper was fouled; therefore, the Mill sought and obtained approval to shutdown the Condensate Steam Stripper for maintenance. The maintenance on the Condensate Steam Stripper System was completed on September 27, 2021.
There were no excursion events or downtime during the month of September 2021.						
There were no excursion events or downtime during the month of October 2021.						
There were no excursion events or downtime during the month of November 2021.						
There were no excursion events or downtime during the month of December 2021.						

Attachment B

Additional NESHAP, Subpart S, and Subpart MM Requirements

GASEOUS AND OPACITY EXCESS EMISSION AND CONTINUOUS MONITORING SYSTEM PERFORMANCE

HAP(s) Monitored:	Methanol
Time Period:	15-day rolling average
Reporting Period:	July 1, 2021 through December 31, 2021
Process Unit Description:	Condensate Collection and Treatment System
Emission Limits:	Collect 7.2 lbs. Methanol/ODTUBP (40 CFR 63.446 (c)(3)) Treat (remove) 6.6 lbs. Methanol/ODTUBP (40 CFR 63.446 (e)(4)) or reduce methanol 92% or more by weight (40 CFR 63.446 (e)(3))
Operating Parameters:	Steam Flow Effective Steam Ratio > 19.7 needed to reduce methanol 93%. Determined during a performance test in October 2021.
Monitor Manufacturer(s) and Model Number(s):	Condensate Flow – Rosemount /3051CD2A22A1JB4L4M6T1F6 Steam Flow - Rosemount /3051CD2A22A1JB4L4M6T1E5 Condensate Temperature – Rosemount/3144D5E5B4T1M5
Last CMS Certification or Audit Date:	Condensate Flow (calibration): 5/3/2021 Steam Flow (calibration): 5/3/2021 Condensate Temperature (calibration): 4/29/2021
Total Source Operating Time in Reporting Period:	4,416 Hours

EMISSION DATA SUMMARY

Reason for Excess Emissions	Duration
A. Startup/Shutdown	0 Hour
B. Malfunctions	
Process/Instrument System	0 Hour
Control/Operating/Collection	0 Hour
Fuel Problems	0 Hour
Other Known Cause	360 Hours
Other Unknown Cause	0 Hour
Total Number of Incidents	N/A
Excess Emissions / Process Operating Time	N/A %

CMS PERFORMANCE SUMMARY[1]

Reason for Monitor Downtime	Duration
Monitor Equipment Malfunctions	N/A
Non-Monitor Equipment Malfunctions	N/A
Quality Assurance/Quality Assurance Calibrations	N/A
Other Known Cause	N/A
Other Unknown Cause	N/A
Total Number of Incidents	N/A
Percent Monitor Downtime	N/A

[1] CMS downtime for steam flow effective steam ratio was defined in initial performance test report as failure to obtain good quality data for 80% of the daily operating time, without backup measurement.

GASEOUS AND OPACITY EXCESS EMISSION AND CONTINUOUS MONITORING SYSTEM PERFORMANCE

HAP(s) Monitored:	Methanol
Time Period:	15-day rolling average
Reporting Period:	July 1, 2021 through December 31, 2021
Process Unit Description:	Condensate Collection and Treatment System
Emission Limits:	Collect 7.2 lbs. Methanol/ODTUBP (40 CFR 63.446 (c)(3)) Treat (remove) 6.6 lbs. Methanol/ODTUBP (40 CFR 63.446 (e)(4)) or reduce methanol 92% or more by weight (40 CFR 63.446 (e)(3))
Operating Parameters:	Number of Aerators in Operation > 52 needed to reduce methanol 93%. Determined during a performance test in October 2021.
Monitor Manufacturer(s) and Model Number(s):	Condensate Flow – Rosemount /3051CD2A22A1JB4L4M6T1F6 Steam Flow - Rosemount /3051CD2A22A1JB4L4M6T1E5 Condensate Temperature – Rosemount/3144D5E5B4T1M5
Last CMS Certification or Audit Date:	Condensate Flow (calibration): 5/3/2021 Steam Flow (calibration): 5/3/2021 Condensate Temperature (calibration): 4/29/2021
Total Source Operating Time in Reporting Period:	4,416 Hours

EMISSION DATA SUMMARY

Reason for Excess Emissions	Duration
A. Startup/Shutdown	0 Hour
B. Malfunctions	
Process/Instrument System	0 Hour
Control/Operating/Collection	0 Hour
Fuel Problems	0 Hour
Other Known Cause	360 Hours
Other Unknown Cause	0 Hour
Total Number of Incidents	N/A
Excess Emissions / Process Operating Time	N/A %

CMS PERFORMANCE SUMMARY[2]

Reason for Monitor Downtime	Duration
Monitor Equipment Malfunctions	N/A
Non-Monitor Equipment Malfunctions	N/A
Quality Assurance/Quality Assurance Calibrations	N/A
Other Known Cause	N/A
Other Unknown Cause	N/A
Total Number of Incidents	N/A
Percent Monitor Downtime	N/A

[2] CMS downtime for number of aerators in operation was defined in initial performance test report as failure to obtain data for an operating day.

GASEOUS AND OPACITY EXCESS EMISSION AND CONTINUOUS MONITORING SYSTEM PERFORMANCE

HAP(s) Monitored:	Methanol
Reporting Period:	July 1, 2021 through December 31, 2021
Process Unit Description:	Condensate Collection and Treatment System
Company:	New Indy Catawba LLC – Catawba Mill
Emission Limits:	Collect 7.2 lbs. Methanol/ODTUBP (40 CFR 63.446 (c)(3)) Treat (remove) 6.6 lbs. Methanol/ODTUBP (40 CFR 63.446 (e)(4) or reduce methanol 92% or more by weight (40 CFR 63.446 (e)(3))
Operating Parameters:	Steam Flow Effective Steam Ratio > 19.7 needed to reduce methanol 93%. Determined during a performance test in October 2021. Number of Aerators in Operation > 52 needed to reduce methanol 93%. Determined during a performance test in October 2021.

§63.10(c)(5): Date / time during which the CMS was inoperative except for zero and high-level checks:	N/A
§63.10(c)(6): Date / time during which the CMS was out of control:	N/A
§63.10(c)(7): Specific identification of each period of excess emissions and parameter monitoring exceedances, that occurs during startups, shutdowns, and malfunction of the affected source:	N/A
§63.10(c)(8): Specific identification of each period of excess emissions and parameter monitoring exceedances, that occurs during periods other than startups, shutdowns, and malfunction of the affected source:	See Page A-24 of Appendix A.
§63.10(c)(10): Nature and cause of any malfunction:	See Page A-24 of Appendix A.
§63.10(c)(11): Corrective action taken or preventive measures adopted:	See Page A-24 of Appendix A.
§63.10(c)(12): Nature of repairs or adjustments to the CMS that was inoperative or out of control:	N/A
§63.10(c)(13): Total process operating time during the reporting period:	4,416 Hours
§63.8(c)(7) and (8): Reporting requirements for a CMS that is out of control:	N/A

GASEOUS AND OPACITY EXCESS EMISSION AND CONTINUOUS MONITORING SYSTEM PERFORMANCE

HAP(s) Monitored:	Methanol
Time Period:	Hours
Reporting Period:	July 1, 2021 through December 31, 2021
Process Unit Description:	LVHC System – Combination Boilers
Emission Limits:	Reduce total HAP emission using a boiler, lime kiln, or recovery furnace by introducing the HAP emission stream with the primary fuel or into the flame zone. Total excess emission less than 1%.
Operating Parameters:	N/A
Monitor Manufacturer(s) and Model Number(s):	N/A
Last CMS Certification or Audit Date:	N/A
Total Source Operating Time in Reporting Period:	4,415 hours

EMISSION DATA SUMMARY

Reason for Excess Emissions	Duration
A. Startup/Shutdown	0.98 Hours
B. Malfunctions	
Process/Instrument System	0 Hour
Control/Operating/Collection	0 Hour
Other Known Cause	11.27 Hours
Other Unknown Cause	0 Hour
Total Number of Incidents	22
Excess Emissions / Process Operating Time	0.28 %

CMS PERFORMANCE SUMMARY

A CMS is not required when LVHC gases are incinerated in a combination boiler.

There were no changes in the continuous monitoring systems or control devices since the last reporting period. The process was converted from producing bleached pulp to unbleached pulp.

GASEOUS AND OPACITY EXCESS EMISSION AND CONTINUOUS MONITORING SYSTEM PERFORMANCE

HAP(s) Monitored:	Methanol
Time Period:	Hours
Reporting Period:	July 1, 2021 through December 31, 2021
Process Unit Description:	HVLC System – Combination Boilers
Emission Limits:	Reduce total HAP emission using a boiler, lime kiln, or recovery furnace by introducing the HAP emission stream with the primary fuel or into the flame zone. Total excess emission less than 4%.
Operating Parameters:	N/A
Monitor Manufacturer(s) and Model Number(s):	N/A
Last CMS Certification or Audit Date:	N/A
Total Source Operating Time in Reporting Period:	4,415 hours

EMISSION DATA SUMMARY

Reason for Excess Emissions	Duration
A. Startup/Shutdown	0.57 Hours
B. Malfunctions	
Process/Instrument System	0 Hour
Control/Operating/Collection	0 Hour
Other Known Cause	5.33 Hours
Other Unknown Cause	0 Hour
Total Number of Incidents	15
Excess Emissions / Process Operating Time	0.13 %

CMS PERFORMANCE SUMMARY

A CMS is not required when HVLC gases are incinerated in a combination boiler.

There were no changes in the continuous monitoring systems or control devices since the last reporting period. The process was converted from producing bleached pulp to unbleached pulp.

The location of Subpart MM information is detailed in Table MM-1 below. The information has also been uploaded to CEDRI as a PDF of this document as the 40 CFR §63.867(d)(2) Excess Emissions Report Excel template is in development. The information below reflects the July 1, 2021 through December 31, 2021 reporting period.

Table MM-1. Subpart MM Information

Equipment ID	Source Description	Subpart MM Information Location
2505	No. 2 Recovery Furnace	Main Report Section TV-2440-0005, Condition C.39
5105	No. 3 Recovery Furnace	Main Report Section TV-2440-0005, Condition C.41
2723	No. 2 Lime Kiln	Main Report Section TV-2440-0005, Condition C.39
2510, 5110	No. 2 and No. 3 Smelt Dissolving Tank Vent	Tables MM-2, MM-3 and MM-4, below

Table MM-2. Smelt Dissolving Tank Opacity Monitoring

Process Unit Description:	No. 2 and No. 3 Smelt Dissolving Tank Vent
Pollutant:	Particulate Matter
Time Period:	Hours
Emission Limits:	0.2 lbs/ton BLS
Operating Parameters:	Differential Pressure > 1.5 inches of water column Liquid Flow Rate > 65 gpm
Monitor Manufacturer(s) and Model Number(s):	DP – Rosemount 3051CD2A02A1AM5E55 Liquid Flow Rate – Foxboro IMT25PDAB10N-AB
Last CMS Certification or Audit Date:	Audits: DP – Rosemount: 10/22/2021 Liquid Flow Rate – Foxboro: 10/25/2021
Total Source Operating Time in Reporting Period:	4,384 Hours

Table MM-3. Smelt Dissolving Tank Excess Emissions and Downtime Summary

Excess Emissions Summary		
Reason for Excess Emissions	**Duration (hrs)**	
	Differential Pressure Duration (hrs)	**Liquid Flow Rate Duration (hrs)**
A. Startup/Shutdown	0	0
B. Malfunctions		
Process/Instrument System	0	0
Control Equipment	0	0
Fuel Problems	0	0
Other Known Cause	0	44.00
Other Unknown Cause	0	0
Total Number of Incidents	0	3
Excess Emissions/Process Operating Time	0.00%	1.00%
Monitor Downtime Summary		
Reason for Monitor Downtime	**Duration (hrs)**	
Monitor Equipment Malfunctions	0	0
Non-Monitor Equipment Malfunctions	0	0
Quality Assurance	0	0
Other Known Cause	0	32.73
Other Unknown Cause	0	0
Total Number of Incidents	0	1
Percent Monitor Downtime	0.00%	0.75%

TABLE MM-4
SMELT DISSOLVING TANK
EXCESS EMISSIONS AND CONTINUOUS MONITORING SYSTEM PERFORMANCE REPORT

NEW INDY CONTAINERBOARD

ID 2510, ID 5110

New-Indy Catawba LLC
P.O. Box 7
5300 Cureton Ferry Road
Catawba, SC 29704

CONTINUOUS EMISSION MONITOR REPORT LOG

Smelt Dissolving Tank Vent Scrubber

Report Period 7/1/2021 to 12/31/2021

Permit Conditions: TV-2440-0005 C.40, C.57

This report is for variations outside of surrogate monitoring parameters or permit exception conditions.

No.	Date	Start Time	Parameter Pump Pressure, Flow, delta P	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
1	7/14/21	9:00 PM	Weak Wash Flow	540	Plugged line.	Determined the line is clear.
2	7/15/21	7:00 AM	Weak Wash Flow	1440	Plugged nozzles in the scrubber.	Working to unplug the nozzles.
3	7/16/21	7:00 AM	Weak Wash Flow	660	Plugged nozzles in the scrubber.	Unplugged nozzles.
There were no excursion events or downtime during the month of August 2021.						
There were no excursion events or downtime during the month of September 2021.						
1	10/10/21	8:16 AM	Weak Wash Flow	1964	Plugged line to flowmeter.	Unplugged the line.
There were no excursion events or downtime during the month of November 2021.						
There were no excursion events or downtime during the month of December 2021.						