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**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION**

**MEMORANDUM**

**June 17, 2026**

TO: Files

THROUGH: Legal

THROUGH: Rick Groshong, Environmental Manager III  
Compliance and Enforcement Group

THROUGH: Brad Flaming, Environmental Programs Manager  
Surveillance Section

FROM: Hanna Thornberg, Environmental Programs Specialist  
Surveillance Section

cc: Pamela Alexander  
EHS Superintendent  
Continental Carbon Co  
1006 E Oakland Ave  
Ponca City, OK 74601  
(580) 763-8128

SUBJECT: Full Compliance Evaluation at **Continental Carbon Co  
Carbon Black Production Facility**  
Section 10, Township 25N, Range 2E, Kay County  
Latitude: 36.66616; Longitude: -97.07163  
Driving Directions: From junction of Hwy 60 and Hwy 177, travel one mile south  
DEQ FAC ID: 333  
FCE ID: 10917

***Introduction***

On April 16, 2026, from 1020 to 1615 hours, with an approximately one hour break for lunch, an unannounced full compliance evaluation (“FCE”) was conducted at Continental Carbon Co (“CCC”), Carbon Black Production Facility (“CBPF”). Hanna Thornberg and Oba Hughes, Environmental Programs Specialists, and Brad Flaming, Environmental Programs Manager, Department of Environmental Quality (“DEQ”), Air Quality Division, and Mary Corkery, Engineering Intern, DEQ, Water Quality Division, conducted the evaluation. Pamela Alexander, EHS Superintendent, and Donny Curfman, Plant Manager, represented CCC. Lauren Jech and Laura Finley, attorneys representing CCC, also attended the inspection. Cara Ahrens, Senior EHS Manager, joined the meeting via Teams. Proper credentials were presented by DEQ personnel

upon arrival. Hard hats, safety glasses, hearing protection, long sleeves, and steel-toed boots were required protective equipment.

**History/Process Description**

CBPF (SIC 2895) is a carbon black manufacturing plant. At the time of the inspection, the facility was operating under Permit No. 2017-0914-TVR2 (**OnBase Document ID (“OID”) 5700603**), issued August 21, 2018, and Permit No. 2017-0914-C (M-3) (**OID 611032**), issued August 20, 2025. A complete process description and current equipment list can be found in Permit No. 2017-0914-C (M-3). Note that construction permit 2004-302-C (M-4) was also active at the time of the inspection; however, the primary differences between it and Permit No. 2017-0914-C (M-3) are related to emission limit values. The permit history for the last five years, including any currently active construction permits, and the Title V renewal status are shown in the tables below:

| Permit No.        | Date Issued                    | OID     | Permit Details   |
|-------------------|--------------------------------|---------|--|
| 92-092-C (M-1)    | August 28, 1997                | 5685284 | Construction permit modification; correct procedural problem associated with installation of thermal oxidizers   |
| 2004-302-C (M-2)  | April 25, 2016                 | 5740403 | Construction permit modification; incorporate requirements of consent decree 5:15-cv-00290-F (“CD”): replace 3 thermal oxidizers with 2 clean gas and energy cogeneration (“COGEN”) units (“CGEU”); add limits to main bag filter emissions during transition; add PM control requirements |
| 2017-0914-TVR2    | August 21, 2018                | 5700603 | Title V permit renewal; update PM testing method   |
| 2004-302-C (M-4)  | November 30, 2018              | 5700492 | Construction permit modification; add alternative operating scenario   |
| 2017-0914-C (M-3) | August 20, 2025                | 6110032 | Construction permit modification; increase NOx, CO, SO <sub>2</sub> limits based on actual operation of CGEUs; update hourly emission limits for transition events   |
| 2023-0099-TVR3    | February 2, 2023 (Application) | 5701427 | Title V permit renewal application; update PM testing method   |

| Last Title V Renewal No. | Date Issued     | Title V Permit Expiration Date | *Title V Permit Renewal Deadline |
|--------------------------|-----------------|--------------------------------|----------------------------------|
| 2017-0914-TVR2           | August 21, 2018 | August 21, 2023                | February 22, 2023                |

\*The Title V permit renewal application is due 180 days prior to the permit expiration date.

CCC applied timely for the third Title V renewal on February 2, 2023 (**OID 5701427**). The permit is currently in technical review.

**Emissions/Source Classification**

CBPF is classified as a Prevention of Significant Deterioration (“PSD”) major source under Permit No. 2017-0914-C (M-3) for emissions of nitrogen oxides (“NOx”), carbon monoxide (“CO”), and sulfur oxides (“SOx”). Facility-wide potential emissions are 297.85 TPY of NOx, 2,216.70 TPY of CO, and 1,171.91 TPY of SOx. The facility is a minor source of volatile organic compounds (“VOC”) and particulate matter (“PM”). Facility-wide potential emissions are 57.67 TPY of VOC and 53.39 TPY of PM. The facility is also a major source of hazardous air pollutants (“HAP”) with potential emissions of 42.20 TPY of carbon disulfide (“CS<sub>2</sub>”) under Permit No. 2017-0914-TVR2. It appears that CBPF became an area source of HAPs with potential CS<sub>2</sub> emissions of 8.21 TPY once the CGEUs were installed. However, until CCC notifies DEQ via permit application or submits the classification change via CEDRI, per 40 CFR § 63.9(j) and (k), the facility is still subject to major source Part 63 Subparts YY, ZZZZ, and DDDDD. Significant potential emissions from other non-criteria air pollutants are 23.94 TPY of ammonia (“NH<sub>3</sub>”) and 17.46 TPY of hydrogen sulfide (“H<sub>2</sub>S”).

Emission inventory (“EI”) submittals for 2022-2025 (**OIDs 5823830, 5858949, 6160087, 6268814**) were reviewed for compliance. A summary of emissions in TPY with the resulting percent changes is provided in the table below.

| Pollutant        | 2022    | % Change | 2023    | % Change | 2024    | % Change | 2025   |
|------------------|---------|----------|---------|----------|---------|----------|--------|
| CO               | 1558.65 | 19.65    | 1864.98 | -19.68   | 1497.99 | -47.28   | 789.80 |
| NOx              | 138.56  | 16.63    | 161.60  | 15.78    | 187.09  | -19.51   | 150.59 |
| VOC              | 22.33   | 84.19    | 41.12   | -41.86   | 23.91   | -55.00   | 10.76  |
| PM               | 45.88   | -9.74    | 41.41   | 4.74     | 43.37   | -36.73   | 27.44  |
| SO <sub>2</sub>  | 409.60  | -47.72   | 214.15  | 1.01     | 216.31  | 9.61     | 237.09 |
| NH <sub>3</sub>  | 17.89   | -6.75    | 16.68   | 4.44     | 17.42   | -39.80   | 10.49  |
| CS <sub>2</sub>  | 1.81    | 32.16    | 2.39    | -56.68   | 1.04    | -70.52   | 0.31   |
| H <sub>2</sub> S | 3.64    | 32.63    | 4.82    | -55.84   | 2.13    | -72.29   | 0.59   |

The 2025 EI was representative of what was observed on-site. Emergency Generator 5 is only listed in the 2025 EI. CCC stated that this unit is equivalent to the diesel generator labeled Cogen 1 in the permit draft for Permit No. 2023-0099-TVR3. This unit has a startup date of August 11, 2021. Records of hours of operation were provided and indicate that it operated in 2022-2024.

Failure to report the unit in the EIs for these years is a violation of OAC 252:100-5-2.1(b) and will be listed in the *Exit Interview/Summary* section below.

Additionally, this engine appears to have been unpermitted. CCC submitted a construction permit application (2017-0914-C (M-5)) on September 15, 2023, to replace Reactor #21 (**OID 5659482**). The application also stated that emergency generator Pond 1 had been replaced with Cogen 1, which had been set in 2019. Pond 1 had been removed from the permit with the issuance of Permit No. 2017-0914-TVR2 in August 2018, though it reappeared in later issued construction permits 2004-302-C (M-4) and 2017-0914-C (M-3). The application for Permit No. 2017-0914-C (M-5) was withdrawn on September 19, 2025 (**OID 6134604**). The addition of Cogen 1, which is subject to NSPS Subpart IIII, required a minor permit modification. Commencing operation of the engine prior to submitting the application is a violation of OAC 252:100-8-7.2(b)(1)(E). This violation will be listed in the *Exit Interview/Summary* section below.

Significant emissions reported between 2022 and 2023 were reviewed in the previous FCE and were due to changes in production amounts. CCC reported significant (>30%) changes in VOC, CS<sub>2</sub>, and H<sub>2</sub>S emissions in 2024 and significant changes in CO, VOC, PM, NH<sub>3</sub>, CS<sub>2</sub>, and H<sub>2</sub>S emissions in 2025. Ms. Alexander stated that the reduction in emissions is due to lower throughput each year and reduced production/hours of operation.

#### ***State/Federal Regulatory Applicability***

OAC 252:100-19 (PM)

Section 19-4 specifies a PM emissions limitation of 0.6 lb/MMBTU from existing fuel-burning equipment with a rated heat input of 10 MMBTUH or less. AP-42 (7/98), Table 1.4-2, lists the total PM emissions for natural gas to be 7.6 lb/MMft<sup>3</sup> or about 0.0076 lb/MMBTU.

**The permit requires the use of natural gas for the boilers and for the sections of the reactors which combust natural gas to heat the feedstock to produce carbon black to ensure compliance with Subchapter 19.**

Section 19-12 specifies allowable PM emission rates from directly fired fuel-burning units and industrial processes.

**The emission points from the CGEUs combine emissions from reactor sections used to convert the feedstock into carbon black, main bag filters, boilers, and waste gas combustors. Therefore, total allowable PM is the sum of the allowable for each directly fired fuel-burning unit and industrial process. Permitted emissions appear to be in compliance with allowable emissions of this subchapter.**

OAC 252:100-25 (Visible Emissions and PM)

No discharge of greater than 20% opacity is allowed except for short-term occurrences which consist of not more than one six-minute period in any consecutive 60 minutes, not to exceed three such periods in any consecutive 24 hours. In no case shall the average of any six-minute period exceed 60% opacity.

**Paragraph 33 of the CD requires daily Method 22s for all PM emission equipment identified in Appendix B to the CD. If visible emissions are detected, CCC shall identify, address, and resolve the source of visible emissions as expeditiously as practicable. If the visible emissions event is not resolved within 24 hours, a six-minute observation in accordance with Method 9**

**is required at least once every eight hours (during daylight hours), until visible emissions are less than 5% over the six-minute average. See discussion under Specific Condition (“SC”) 13.c of Permit No. 2017-0914-C (M-3) of the *On-Site Evaluation* section below.**

OAC 252:100-29 (Fugitive Dust)

No person shall cause or permit the discharge of any visible fugitive dust emissions beyond the property line on which the emissions originate in such a manner as to damage or to interfere with the use of adjacent properties, or cause air quality standards to be exceeded, or interfere with the maintenance of air quality standards.

**CCC is currently required to do (using best management practices (“BMP”)) the following so as to minimize fugitive emissions of carbon black:**

- 1) maintain and repair the Unit No. 4 bag filter system to prevent excessive temperatures (this is no longer a concern due to plant operation changes on controls),**
- 2) conduct product loading operations in such a manner to minimize any fugitive emissions of carbon black,**
- 3) promptly clean any and all areas within the facility where carbon black has been spilled, blown, deposited, or accumulated,**
- 4) place bag filters into sealed containers, when possible, prior to removal or replacement of bag filters from their compartments, and**
- 5) conduct a routine inspection program wherein all high-speed processing equipment within the facility is inspected and lubricated.**

**Further, CCC has installed a pulse jet bagfilter system within the shipping department loading area to control the release of fugitive carbon black emissions. Ms. Alexander confirmed that CCC complies with the above requirements. At the time of the inspection, no fugitive dust was observed leaving the CBPF property.**

OAC 252:100-31 (Sulfur Compounds)

Part 2 (31-7(b)) specifies that emissions of H<sub>2</sub>S from any new or existing source shall not result in a 24-hour average ambient air concentration of H<sub>2</sub>S at any given point of 0.2 ppm or greater.

**CCC conducted AERSCREEN modeling which resulted in a concentration of 0.09 ppm H<sub>2</sub>S, which is in compliance with this Subchapter.**

Part 5 limits sulfur dioxide emissions from new equipment (constructed after July 1, 1972). For gaseous fuels, the limit is 0.2 lb/MMBTU heat input.

**The section of the reactor in Unit 4 which combusts natural gas to heat the feedstock to produce carbon black is subject to this standard. The AP-42 (7/98), Chapter 1.4, Table 1.4-2 emission factor of 0.6 pound of SO<sub>2</sub> per million cubic feet equates to approximately 0.0006 lb/MMBTU, which is in compliance with this subchapter. The permit requires the fuel-burning section of the reactor of Unit 4 to be fired with commercial grade natural gas. See discussion under SC 4 of Permit No. 2017-0914-C (M-3) of the *On-Site Evaluation* section below.**

OAC 252:100-37 (Volatile Organic Compounds)

Part 3 requires storage tanks constructed after December 28, 1974, with a capacity of 400 gallons or more and storing a VOC with a vapor pressure greater than 1.5 psia to be equipped with a permanent submerged fill pipe or with an organic vapor recovery system.

**All of the tanks constructed after 1974 store liquids with vapor pressures less than 1.5 psia except for the gasoline/diesel tanks, which have a capacity of 300 gallons, and are not subject.**

Part 7 requires fuel-burning and refuse-burning equipment to be cleaned, operated, and maintained so as to minimize VOC emissions.

**Ms. Alexander stated that all fuel-burning equipment is operated and maintained in a manner to minimize emissions of VOC.**

Prevention of Significant Deterioration (PSD), 40 CFR Part 52

CBPF is an existing PSD source with potential emissions of NO<sub>x</sub>, CO, and SO<sub>x</sub> above the major source threshold of 250 TPY. Any future modification must be evaluated in the context of PSD significance levels (100 TPY CO, 40 TPY NO<sub>x</sub>, 40 TPY SO<sub>2</sub>, 40 TPY VOC, 25 TPY PM, 15 TPY PM-10, 10 TPY PM-2.5).

**The changes requested for Permit No. 2017-0914-C (M-3), which were to increase NO<sub>x</sub>, SO<sub>2</sub>, and CO limits based on actual operation of the CGEUs, required that the physical changes authorized by Permit No. 2004-302-C (M-2) be re-evaluated for PSD applicability. The project emission increase for CO from the CGEUs is above the PSD significance level (1,812.39 TPY). Therefore, PSD review, including best available control technology (“BACT”) and modeling, was required for CO from the CGEUs.**

**The BACT analysis, as summarized in the permit memo of Permit No. 2017-0914-C (M-3), resulted in CCC selecting good combustion practices and a CO emission limit of 169.75 lb/hr and 743.51 TPY from each CGEU.**

NSPS, 40 CFR Part 60

Subparts D, Da, Db, Dc, Steam Generating Units

These Subparts affect steam generating units based on various rated heat input capacities and construction dates.

**Boilers #1 and #2 are not steam-generating units and each have a rated heat input capacity of 6.28 MMBTUH, which is below the applicability threshold of these Subparts. Therefore, they are not subject.**

Subparts K, Ka, Kb, Volatile Organic Liquid (“VOL”) Storage Vessels

These Subparts affects VOL storage vessels with various capacities and construction dates.

**The carbon black oil tanks are not subject because they were constructed prior to the effective date of Subpart K (June 11, 1973).**

Subpart IIII, Stationary Compression Ignition Internal Combustion Engines (“CI-ICE”)

This Subpart affects stationary CI-ICE based on power and displacement ratings, depending on date of construction, beginning with those constructed after July 11, 2005.

**Emergency generator, Cogen 1, is a Generac SD350 469-hp diesel engine with a manufacture date of March 12, 2018, and SN 3002796227. Note that the permit draft for Permit No. 2023-0099-TVR3 indicates that the engine is 476-hp, with a manufacture date of 2019 and SN**

**F3BE9685SA. CCC stated in a follow-up records request that the former is the correct information (OID 6329368, ODEQ Records Request #2). During the on-site inspection, an engine plate could not be located. SN F3BE9685SA was stamped on the equipment; however, it was unclear whether it was the SN of the engine or other equipment. CCC stated that the start-up date for the generator was August 11, 2021.**

**EPA requires manufacturers of 2007 and later model year stationary CI-ICE with a displacement of less than 30 liters per cylinder to certify the engines to the applicable emissions standards under this Subpart (§ 60.4202). The generator is EPA-certified per the spec sheet found on the Generac website.**

**Cogen 1 is equipped with a non-resettable hour meter and hours of operation were provided upon request (OID 6329368, Request No. 1c). The logs indicate that the 100-hour per year limitation (§ 60.4211(f)(2)) for non-emergency situations has not been exceeded.**

**CCC stated that Cogen 1 is fueled with ultra-low-sulfur diesel.**

Subpart JJJJ, Stationary Spark Ignition Internal Combustion Engines (“SI-ICE”)

This Subpart promulgates emission standards for new SI engines ordered after June 12, 2006, that are manufactured after certain dates, and for SI engines modified or reconstructed after June 12, 2006.

**There are three emergency SI-ICE at CBPF. Unit 1&2, Unit 3, and Unit 4 were manufactured prior to June 12, 2006, and are therefore not subject. Permit Nos. 2004-302-C (M-4) and 2017-0914-C (M-3) list a fourth engine, Pond 1. Mr. Curfman stated that this engine has not been on site in many years. It appears it was removed from Permit No. 2017-0914-TVR2 but was mistakenly included in the subsequent construction permits. This issue has been corrected in the permit draft for Permit No. 2023-0099-TVR3, which is in technical review.**

NESHAP, 40 CFR Part 63

Subpart SS, Closed Vent Systems (“CVS”), Control Devices, Recovery Devices, and Routing to a Fuel Gas System or a Process

**CBPF is subject to the requirements of § 63.1103(f) of NESHAP Subpart YY. CCC has opted to reduce total HAP emissions by venting emissions from the main unit filter process vents through a CVS to the waste gas combustors and/or to a steam boiler/COGEN unit capable of reducing HAP emissions by 98% or more, meeting the requirements of Subpart SS (§ 63.982(a)(2)). Because CCC utilizes non-flare devices with the CVS (§ 63.982(c)), CBPF must comply with the following requirements:**

**§ 63.983: CBPF’s CVS are designed and operated to collect the emissions from the carbon reactors and to route them to the waste gas combustors and COGEN units as required by § 63.983(a)(1). This system is to be operated at all times when emissions are vented to it as required by § 63.983(a)(2), and the system does not contain bypass lines. The CVS is constructed of hard-piping; therefore, CCC is required to conduct annual inspections for audible, visible, and olfactory (“AVO”) indications of leaks per § 63.983(b)(1)(i)(B).**

CCC refers to these inspections as leak detection and repair (“LDAR”). LDAR records were provided upon request (OID 6329368, Folder LDAR Records) and indicate that the last four LDAR events occurred on:

- August 24-26, 2022
- December 12-14, 2023
- September 4, 2024
- November 18, 2025

DEQ considers “annual” requirements to be performed timely if they occur within the 12<sup>th</sup> month from the previous activity. Therefore, based on records provided, the 2023 AVO inspections were conducted 104 days late, and the 2025 AVO inspections were conducted 49 days late. This violation will be listed in the *Exit Interview/Summary* section below.

Per § 63.983(d)(1), if there are AVO leaks at the time of the annual inspection, CCC is required to eliminate the leak or monitor the equipment according to the procedures in § 63.983(c), which requires Method 21 monitoring. A first attempt at repair is required within 5 days after a leak is detected, and repairs must be completed within 15 days of detection per § 63.983(d)(2). Per the records provided, there were 12 leaks identified in the COGEN area during the 2023 inspections. The date of the initial inspection appears to be December 14, 2023; however, repair dates are listed as September 8, 2023. Additionally, CCC stated in a records request that there were no components on delay of repair (“DOR”) during the 2023 inspection; however, each of these components is listed with a DOR code of “WOP,” which stands for waiting on parts. Waiting on parts is not listed as an acceptable reason for DOR per § 63.983(d)(3). It cannot be determined based on this information if CCC is in compliance with the first attempt and final repair deadlines or DOR requirements of Subpart SS. These violations will be listed in the *Exit Interview/Summary* section below.

One other leak was identified at the Production Unit 3 Drum Exhaust Fan on November 18, 2025. This component was placed on DOR due to needing to shut down the unit for several days to complete the repair, which is allowed per § 63.983(d)(3).

CCC stated that there are no components designated as difficult to monitor (“DTM”) or unsafe to monitor (“UTM”).

The initial inspection (June 2005) of the CVS as specified in § 63.983(b)(1)(i)(A) was discussed in a previous FCE.

§ 63.988: CBPF uses the waste gas combustors and the CGEUs to meet the 98 wt% HAP reduction specified in Subpart YY, which demonstrates compliance with § 63.988(a)(1). Mr. Curfman stated that these control devices are operated at all times when emissions are vented to them in compliance with § 63.988(a)(2), except during periods of Startup, Shutdown, and Malfunction (“SSM”). SSM events were previously reported semiannually

in the MACT Periodic Reports; however, this requirement ended on May 18, 2022, per § 63.1103(f)(3).

Performance testing of CBPF’s thermal oxidizers was conducted in 2004 as required by Permit No. 98-176-TV (M-2) and § 63.988(b). The results demonstrated the required 98 wt% reduction in HAP emissions. The CGEUs operate in the same temperature range as the thermal oxidizers; therefore, the switch to the CGEUs should provide the same level or greater control of HAP emissions.

Mr. Curfman stated that the waste gas combustors and CGEU boilers are equipped with thermocouples to continuously monitor temperature. However, any boiler or process heater in which all vent streams are introduced as primary fuel or are used as primary fuel is exempt from monitoring (§ 63.988(c)). Therefore, the CGEU boilers are exempt from monitoring. Additionally, the Subpart SS definition of “incinerator” is an enclosed combustion device that is used for destroying organic compounds. The waste gas combustors are not used for this purpose at CBPF; rather, they are used to combust the waste gas as fuel to heat the rotary dryers. Therefore, there are no temperature monitoring requirements under this Subpart. There are temperature monitoring requirements for the waste gas combustors under SC 9 of Permit No. 2017-0914-TVR2; see discussion below.

§ 63.998: CCC is required to maintain records of all AVO inspections, including date of inspections with a statement that no leaks were detected per § 63.998(d)(1)(iv). The records provided for the 2024 COGEN inspections do not include a statement that no leaks were detected or verification that inspections occurred. Similarly, the 2023 COGEN inspections have some components highlighted red, which appear to correspond to leaks, but the remaining components do not include a statement that no leaks were detected or verification that inspections occurred. This violation will be listed in the *Exit Interview/Summary* section below.

Per § 63.1103(f)(4), beginning on May 18, 2022, phrases referenced in Subpart SS regarding “during startup, shutdown, and malfunction” no longer apply.

§ 63.999: Per § 63.1110(e)(2), periodic reports are due no later than 60 days after the end of each 6-month period. CCC has aligned the timing of submittals to be on the same schedule as the Title V periodic report (semiannual reports (“SAR”)) in compliance with § 63.1110(h). Per § 63.1110(e)(1), the reports shall include all information specified in Subpart YY and subparts referenced by Subpart YY, which includes Subpart SS.

CCC has submitted the following MACT periodic reports since the last FCE

| OID     | Reporting Period      | Received   | Late? |
|---------|-----------------------|------------|-------|
| 5972267 | 8/1/2024 to 1/31/2025 | 2/26/2025  | no    |
| 6118802 | 2/1/2025 to 7/31/2025 | *8/28/2025 | no    |
| 6243422 | 8/1/2025 to 1/31/2026 | 2/26/2026  | no    |

\*postmarked date

**The reports include total source operating time, to demonstrate compliance with § 63.999(c)(1). The information recorded in § 63.998(d)(1)(iii)(B) through (E) is required to be included per § 63.999(c)(2)(i). The MACT periodic reports do not contain this information. This violation will be listed in the *Exit Interview/Summary* section below.**

**The requirements of § 63.999(c)(6) do not apply to CBPF because temperature monitoring is not currently required under this Subpart as discussed above.**

Subpart YY, HAPs for Source Categories: Generic Maximum Achievable Control Technology Pursuant to §63.1103(f), this Subpart is applicable to each new and existing carbon black production process unit located at a major source, as defined in section 112(a) of the Clean Air Act.

**CBPF is a major source of HAP emissions; therefore, it is subject to this Subpart. Subjectivity to Subpart YY was also confirmed in Applicability Determination (“AD”) No. 98-176-AD (M-5). See discussion under SC 14 of the *On-Site Evaluation* section below.**

Subpart ZZZZ, Reciprocating Internal Combustion Engines (“RICE”)

This Subpart affects any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions.

**CBPF is a major source of HAPs with four emergency generators on-site. Cogen 1 complies with the requirements of this Subpart by complying with NSPS Subpart III. Unit 1&2, Unit 3, and Unit 4 are existing emergency stationary RICE subject to this Subpart. See discussion under SC 15 of Permit No. 2017-0914-C (M-3) of the *On-Site Evaluation* section below.**

Subpart DDDDD, Industrial, Commercial and Institutional Boilers and Process Heaters

This Subpart establishes emission limitations, work practice standards, and requires specific compliance demonstrations for boilers and process heaters that are located at major sources of HAPs.

**CBPF is a major source of HAPs, and Boilers #1 and #2 meet the definition of units designed to burn gas 1 subcategory with a heat input capacity greater than 5 MMBTUH and less than 10 MMBTUH. The boilers are therefore subject to this Subpart. See SC 16 of Permit No. 2017-0914-C (M-3) of the *On-Site Evaluation* below.**

CAM, 40 CFR Part 64

Compliance Assurance Monitoring (“CAM”) applies to any pollutant specific emission unit at a major source that is required to obtain a Title V permit, if it meets all of the following criteria:

- It is subject to an emission limit or standard for an applicable regulated air pollutant.
- It uses a control device to achieve compliance with the applicable emission limit or standard.
- It has potential emissions, prior to the control device, of the applicable regulated air pollutant greater than the major source thresholds.

**NO<sub>x</sub>, CO, PM, VOC, and SO<sub>2</sub> emissions from the carbon black production units are controlled by the two CGEUs, each consisting of one COGEN electric unit combusting the**

tail gas from the reactors (destroys CO and VOC), followed by one selective catalytic reduction system (“SCR”) for control of NOx emissions, one dry scrubber for control of SO<sub>2</sub>, and secondary bag filters for PM emissions. NOx, CO, and SOx each have an emission limit and a PTE greater than 100 TPY. NOx and SO<sub>2</sub> are required by SC 1.EUG 5.d of Permit No. 2017-0914-C (M-3) to be monitored using CEMS, which is considered presumptively acceptable monitoring per § 64.4(b)(2). Therefore, no further justification for the appropriateness of that monitoring is necessary for these two pollutants. The COGEN electric unit is a process unit, not a control device; therefore, CO and VOC do not require CAM. See SC 24 of Permit No. 2017-0914-C (M-3) of the *On-Site Evaluation* below for an evaluation of compliance with the CAM plan for PM.

***Evaluation/Enforcement History***

The tables below summarize the FCEs and partial compliance evaluations (“PCE”) that have occurred in the last five years. All of the PCEs listed were conducted in response to complaints of carbon black residue leaving the CBPF property and/or rotting pipes and waste gas leaks.

| FCE ID | FCE Date  | Violations   | Enforcement Case ID | Enforcement Case Closed |
|--------|-----------|--|---------------------|-------------------------|
| 9404   | 8/26/2021 | 1. LDAR inspection records were not provided in violation of § 63.999(c)(2)(i) (Subpart SS).<br>2. Biennial compliance reports were not submitted for Boiler #1 and #2 in violation of § 63.7550(b) (Subpart DDDDD).   | 10432               | 5/3/2023                |
| 10414  | 6/24/2024 | 1. Excess emissions (“EE”)<br>2. The SAR covering 8/1/2022 to 1/31/2023 was submitted 13 days late in violation of Standard Condition III(C) of Permit No. 2017-0914-TVR2.<br>3. The semiannual NESHAP Subpart YY report covering 8/1/2022 to 1/31/2023 was submitted 13 days late in violation of § 63.1111(b)(1).<br>4. Biennial compliance reports were not submitted for Boiler #1 and #2 in violation of § 63.7550(b) (Subpart DDDDD).<br>5. According to the 2022 and 2023 EIs and performance testing conducted in October 2022, the COGEN units emitted CO and PM emissions in excess of the limits found in Permit No. 2004-302-C (M-4), SC 1.EUG 9*. | 13265               | NA                      |

\*Should be SC 1.EUG 5

| PCE ID | PCE Date  | Violations | Enforcement Case ID | Enforcement Case Closed |
|--------|-----------|------------|---------------------|-------------------------|
| 55845  | 3/16/2021 | None       | NA                  | NA                      |

|       |           |  |       |            |
|-------|-----------|--|-------|------------|
| 61244 | 8/23/2022 | 1. Failure to limit emissions from CGEU Unit 1. CGEU 1 had a total of 112.08 lb/hr of PM and an average of 34.99% opacity between June 21, 2022, and July 3, 2022. This exceeded the 5.63 lb/hr PM emission limit and 5% opacity standard for 12 consecutive days in violation of SCs 1 and 13(c) of Permit No. 2004-302-C (M-4) and the CD.   | 10629 | 4/22/2024  |
|       |           | 2. Failure to limit emissions from CGEU Unit 1. CGEU 1 had a total of 82.70 lb/hr of PM and an average of 27.22 % opacity between August 19, 2022 and September 9, 2022. This exceeded the 5.63 lb/hr PM emission limit and 5% opacity standard for 21 consecutive days in violation of SCs 1 and 13(c) of Permit No. 2004-302-C (M-4) and the CD. Additionally, immediate notice was not submitted to DEQ in violation of OAC 252:100-9-7(a). |       |            |
|       |           | 3. Failure to limit emissions from CGEU Unit 2. CGEU 2 had a total of 303.25 lb/hr of PM and an average of 68.81% opacity between July 27, 2022, and September 9, 2022. This exceeded the 5.66 lb/hr PM emission limit and 5% opacity standard for 44 consecutive days in violation of SC 1 and 13(c) of Permit No. 2004-302-C (M-4) and the CD.   |       |            |
| 62818 | 3/9/2023  | None   | NA    | NA         |
| 63059 | 6/12/2023 | 1. Failure to timely submit a 30-day EE report in violation of OAC 252:100-9-7.  | 11603 | 10/23/2023 |
| 63206 | 4/3/2024  | 1. Failure to control fugitive dust in violation of OAC 252:100-29.  | 12755 | 1/8/2025   |
|       |           | 2. EE of PM and opacity in violation of OAC 252:100-9-8(a).  |       |            |
| 63322 | 3/18/2025 | 1. Failure to submit immediate notices and 30-day reports for EE events in violation of OAC 252:100-9.   | 13430 | 7/16/2025  |
| 63434 | 7/7/2025  | None   | NA    | NA         |
| 63547 | 2/25/2026 | None   | NA    | NA         |

Eleven enforcement cases have been opened, closed, or remain open against CBPF in the last five years and are summarized in the table below.

| Enforcement Case ID   | Date Opened | Method of Discovery | Enforcement Case Closed |
|---|-------------|---------------------|-------------------------|
| 7877  | 5/5/2015    | NA                  | NA                      |
| This case tracks completion of the requirements of Federal CD Case No. 5:15-cv-00290F.                |             |                     |                         |
| 8456  | 9/16/2016   | FCE 7401            | 6/26/2025               |
| 1. Failure to submit notifications of compliance status in violation of § 63.7545(e) (Subpart DDDDD). |             |                     |                         |

|  |                  |                            |                   |
|--|------------------|----------------------------|-------------------|
| 2. Failure to submit initial notifications in violation of § 63.7545(c) (Subpart DDDDD).   |                  |                            |                   |
| 3. Failed stack test on TO #1 for PM10 in 2015 in violation of SC 20 of Permit No. 2004-302-TVR (M-2).   |                  |                            |                   |
| 4. Failed stack test on TO #4 for PM10 in 2015 in violation of SC 20 of Permit No. 2004-302-TVR (M-2).   |                  |                            |                   |
| 5. Failure to submit EE reports for the failed stack tests listed in Violations 3 and 4 above in violation of OAC 252:100-9-7.   |                  |                            |                   |
| <b>8637</b>  | <b>2/2/2017</b>  | <b>Self-Disclosure</b>     | <b>8/15/2025</b>  |
| 1. Failed stack test on TO #1 for PM10 in 2016 in violation of SC 20 of Permit No. 2004-302-TVR (M-2).   |                  |                            |                   |
| <b>9894</b>  | <b>7/31/2020</b> | <b>FCE 8348</b>            | <b>6/26/2025</b>  |
| 1. Failed stack test on TO #4 for PM10 in 2017 in violation of SC 20 of Permit No. 2004-302-TVR (M-2).   |                  |                            |                   |
| 2. Failure to submit an SAR in violation of SC 19 of Permit No. 2004-302-TVR (M-2).  |                  |                            |                   |
| <b>10381</b>   | <b>5/4/2022</b>  | <b>FCE 9056</b>            | <b>6/26/2025</b>  |
| 1. Failure to comply with § 63.983(b)(1)(i)(B) and § 63.998(d) (Subpart SS) by not providing LDAR inspection records for 2019 and 2020.  |                  |                            |                   |
| 2. Failure to comply with Standard Condition III(C) and SC 19 of Permit Nos. 2004-302-TVR (M-2) and 2017-0914-TVR2 by not submitting TO maintenance records in the SARs.   |                  |                            |                   |
| 3. Failure to comply with Standard Condition III(C) and SC 19 of Permit Nos. 2004-302-TVR (M-2) and 2017-0914-TVR2 by not submitting continuous temperature data for the TOs and waste gas combustors during times when the temperatures fell outside of the established temperature range in the SARs. Compliance could not be determined with SC 9(b), 16(a), 16(d) and 21 of Permit No. 2017-0914-TVR2 and § 63.988(b)(i) (Subpart SS). |                  |                            |                   |
| 4. Failure to comply with Standard Condition III(C) and SC 19 of Permit Nos. 2004-302-TVR (M-2) and 2017-0914-TVR2 by not submitting total natural gas usage for each boiler in the SARs. Compliance could not be determined with SC 16(g) of Permit No. 2017-0914-TVR2.   |                  |                            |                   |
| 5. Failure to comply with Standard Condition III(C) and SC 19 of Permit Nos. 2004-302-TVR (M-2) and 2017-0914-TVR2 by not submitting Subpart ZZZZ maintenance records and emergency generator operating hours in the SARs.   |                  |                            |                   |
| 6. Failure to comply with SC 18 and Standard Conditions IV(A) and (B) of Permit No. 2017-0914-TVR2 by not certifying the compliance status throughout the ACC certification period as continuous or intermittent with each SC.   |                  |                            |                   |
| 7. Failure to comply with § 63.6602 and SC 14 of Permit No. 2017-0914-TVR2 by not conducting maintenance requirements listed under #5 of Table 2c to Subpart ZZZZ.   |                  |                            |                   |
| 8. Failure to comply with § 63.6655(f)(1) and SCs 14(k) and 16(j) by not maintaining emergency generator operating hour records.   |                  |                            |                   |
| 9. Failure to comply with § 63.7550(b)(1-4) and SC 15(v) of Permit Nos. 2004-302-TVR (M-2) and 2017-0914-TVR2 by not submitting Subpart DDDDD biennial compliance reports in 2018 and 2020 for Boiler #1 and in 2017, 2019, and 2021 for Boiler #2.  |                  |                            |                   |
| 10. Failure to comply with SC 20(B) of Permit No. 2017-0914-TVR2 by not providing test plans to DEQ 30 days prior to three performance tests.  |                  |                            |                   |
| <b>10432</b>   | <b>5/12/2022</b> | <b>FCE 9404</b>            | <b>5/3/2023</b>   |
| See FCE table above.   |                  |                            |                   |
| <b>10629</b>   | <b>9/7/2022</b>  | <b>Complaint PCE 61244</b> | <b>4/22/2024</b>  |
| See PCE table above.   |                  |                            |                   |
| <b>11603</b>   | <b>6/9/2023</b>  | <b>Complaint PCE 63059</b> | <b>10/23/2023</b> |

|   |            |                     |           |
|---|------------|---------------------|-----------|
| See PCE table above.  |            |                     |           |
| 12755   | 4/22/2024  | Complaint PCE 63206 | 1/8/2025  |
| See PCE table above.  |            |                     |           |
| 13265   | 11/21/2024 | FCE 10414           | NA        |
| See FCE table above.  |            |                     |           |
| 13430   | 4/30/2025  | Complaint PCE 63322 | 7/16/2025 |
| See PCE table above.  |            |                     |           |
| 14271   | 5/27/2026  | Self-Disclosure     | *6/1/2026 |
| 1. Failure to submit biennial compliance reports due January 31, 2024, and January 31, 2026, as required by NESHAP Subpart DDDDD. |            |                     |           |

\*Closed to address in this evaluation

**Annual Compliance Certifications/Semiannual Reports**

CBPF is classified as a major source and is required to submit Annual Compliance Certifications (“ACC”) no later than 30 days after the anniversary date of the issuance of the facility’s initial Title V Permit. The facility’s initial permit was issued on April 21, 2000; however, CBPF uses alternative ACC and SAR submittal dates as outlined in SCs 18 and 19 of Permit No. 2017-0914-TVR2 and SCs 20 and 21 of Permit No. 2017-0914-C (M-3). Therefore, ACCs are due no later than August 30 each year. SARs are due on March 2 and August 30 each year. The following ACCs and SARs have been submitted since the last FCE:

| ACCs |         |               |                       |            |       |            |
|------|---------|---------------|-----------------------|------------|-------|------------|
| ACC  | OID     | Contents      | Reporting Period      | Received   | Late? | Deviations |
| 1    | 6115821 | Records       | 8/1/2024 to 7/31/2025 | *8/28/2025 | no    | yes        |
|      | 6119838 | Certification |                       |            |       |            |
|      | 6119837 | Deviations    |                       |            |       |            |

| SARs |         |              |                       |            |       |            |
|------|---------|--------------|-----------------------|------------|-------|------------|
| SAR  | OID     | Contents     | Reporting Period      | Received   | Late? | Deviations |
| 1    | 5971801 | Records      | 8/1/2024 to 1/31/2025 | 2/26/2025  | **yes | yes        |
|      | 6115858 | Deviations   |                       | 8/28/2025  |       |            |
| 2    | 6119837 | Deviations   | 2/1/2025 to 7/31/2025 | *8/28/2025 | no    | yes        |
|      | 6115819 | Records      |                       |            |       |            |
| 3    | 6250491 | All Contents | 8/1/2025 to 1/31/2026 | 2/26/2026  | no    | yes        |

\*Postmarked date

\*\*The deviations table was not submitted with the SAR. It was attached to the subsequent SAR submitted on August 28, 2025. Failure to timely submit the full report will be listed as a violation of Standard Condition III(C) of Permit Nos. 2017-0914-TVR2 and 2004-302-C (M-4).

The ACC does not certify compliance with all conditions of Permit No. 2017-0914-TVR2 or 2004-302-C (M-4). The SC numbers are not always listed in the Permit and Condition Number column,

making review difficult. Some SCs are labeled as 2017-0914-TVR2, but the text listed under Applicable Requirement is from Permit No. 2004-302-C (M-4). Sometimes an SC is labeled as 2004-302-TVR, which was cancelled in 2015. Failure to certify compliance with all active permit conditions is a violation of SC 18 of Permit No. 2017-0914-TVR2, and SC 20 of Permit No. 2004-302-C (M-4). This violation will be listed in the *Exit Interview/Summary* section below.

The deviations reported in the SARs all appear to be associated with EE events. However, none of the deviations are reported with any citation of which SC or rule was violated, thereby leaving the deviations tables incomplete. Additionally, the pollutant is commonly listed as carbon black, but should be listed as PM. This will be listed as a violation of Standard Condition III(C) of Permit Nos. 2017-0914-TVR2, 2004-302-C (M-4), and 2017-0914-C (M-3) in the *Exit Interview/Summary* section below.

Numerous non-EE violations were discovered during this FCE (see *Exit Interview/Summary* section below), and none were reported as deviations in the SARs. This will be listed as a violation of Standard Condition III(C) of Permit Nos. 2017-0914-TVR2, 2004-302-C (M-4), and 2017-0914-C (M-3) in the *Exit Interview/Summary* section below.

### Excess Emissions

CCC has reported several EE events for pollutants and opacity/visible emissions since the last FCE. The table below summaries EE events of pollutants.

| EE ID (30-day) | EE ID (Imm.)      | Event Date | Immediate Notice  | 30-Day Report          | Pollut.         | *Point of Emissions per Submittal                  | *Point of Emissions per Permit | Limit As Reported       | **Source of Limit                 | Amount of Excess | Duration (min) | Event Reason |
|----------------|-------------------|------------|-------------------|------------------------|-----------------|--|--------------------------------|-------------------------|-----------------------------------|------------------|----------------|--------------|
| HQM-T7NS-M24HD | HQ7-E383-113P0    | 10/9/2024  | 10/10/2024        | 10/28/2024             | SO <sub>2</sub> | 213166 - Waste Gas GoGen Units or "CoGen System 2" | EUG 5: CGEU 2 / EPN #41        | 158 ppmvd               | EUG 5: 7-day rolling average (CD) | 18.02 ppmvd      | 11,760         | Malfunction  |
| HQB-0P39-5WVXA | <sup>2</sup> none | 12/23/2024 | none              | <sup>3</sup> 2/10/2025 | SO <sub>2</sub> | COGEN 1  | EUG 5: CGEU 1 / EPN #40        | 158 ppmvd               | EUG 5: 7-day rolling average (CD) | 36.5 ppmvd       | 11,040         | Malfunction  |
| HQD-90JB-KM6CQ | <sup>1</sup> none | 2/14/2025  | <sup>1</sup> none | 5/23/2025              | PM              | 47431 - Production Unit 1                          | Production Unit 1 / EPN #3     | 7.86 lb/hr              | EUG 2/8: EPN #3                   | 169.29 lb/hr     | 33             | Malfunction  |
| HQD-90WR-3NBXC | <sup>1</sup> none | 2/21/2025  | <sup>1</sup> none | 5/23/2025              | PM              | 47431 - Production Unit 1                          | Production Unit 1 / EPN #3     | 7.86 lb/hr              | EUG 2/8: EPN #3                   | 202.37 lb/hr     | 23             | Malfunction  |
| HQD-91J3-W41AJ | <sup>1</sup> none | 3/6/2025   | <sup>1</sup> none | 5/23/2025              | PM              | 47431 - Production Unit 1                          | Production Unit 1 / EPN #3     | <sup>6</sup> 7.82 lb/hr | Incorrect                         | 22.59 lb/hr      | 32             | Malfunction  |
| HQD-91MW-W7314 | <sup>1</sup> none | 3/10/2025  | <sup>1</sup> none | 5/23/2025              | PM              | 47472 - Production Unit 3                          | Production Unit 3 / EPN # 11   | <sup>7</sup> 7.86 lb/hr | Incorrect                         | 104.27 lb/hr     | 840            | Malfunction  |

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|                |                |           |           |            |                 |                                |                            |                           |                                   |              |        |                        |
|----------------|----------------|-----------|-----------|------------|-----------------|--------------------------------|----------------------------|---------------------------|-----------------------------------|--------------|--------|------------------------|
| HQM-Q026-T85XF | HQB-HYG0-BPP4R | 3/11/2025 | 3/11/2025 | 4/3/2025   | PM              | CB Unit 1 Vent Stack (EPN 3)   | Production Unit 1 / EPN #3 | 7.86 lb/hr                | EUG 2/8: EPN #3                   | 202.37 lb/hr | 1,920  | <sup>13</sup> Shutdown |
| HQB-HXX0-RWSGH | HQB-CM7P-8W05P | 3/16/2025 | 3/17/2025 | 3/26/2025  | SO <sub>2</sub> | COGEN 1                        | EUG 5: CGEU 1 / EPN #40    | 158 ppmvd                 | EUG 5: 7-day rolling average (CD) | 11.9 ppmvd   | 6,110  | Malfunction            |
| HQD-48B8-CQS15 | HQC-2D8S-NC6KB | 4/21/2025 | 4/22/2025 | 5/14/2025  | TPM             | COGEN 1                        | EUG 5: CGEU 1 / EPN #40    | 5.63 lb/hr                | EUG 5: EPN #40                    | 106.5 lb/hr  | 3,153  | Malfunction            |
| HQD-G6V8-6N05V | HQD-49Q9-ACEZ7 | 5/20/2025 | 5/20/2025 | 46/20/2025 | PM              | COGEN 1                        | EUG 5: CGEU 1 / EPN #40    | 5.63 lb/hr                | EUG 5: EPN #40                    | 127.33 lb/hr | 32,040 | Malfunction            |
| HQD-G743-NGW66 | HQD-49V3-3CGMV | 5/23/2025 | 5/23/2025 | 6/20/2025  | SO <sub>2</sub> | COGEN 1                        | EUG 5: CGEU 1 / EPN #40    | 158 ppmvd                 | EUG 5: 7-day rolling average (CD) | 0.24 ppmvd   | 10,070 | Malfunction            |
| HQH-Z2ZE-H7CMM | HQD-G5JC-ZPZJ0 | 6/18/2025 | 6/18/2025 | 7/1/2025   | PM              | Carbon Black Unit 1            | Production Unit 1 / EPN #3 | 7.86 lb/hr                | EUG 2/8: EPN #3                   | 258.06 lb/hr | 28     | <sup>13</sup> Shutdown |
| HQE-VD91-K82T1 | Email; no ID   | 7/17/2025 | 7/17/2025 | 8/5/2025   | PM              | COGEN 1                        | EUG 5: CGEU 1 / EPN #40    | 5.63 lb/hr                | EUG 5: EPN #40                    | 127.33 lb/hr | 210    | Malfunction            |
| HQE-ZZQW-SJTJG | Email; no ID   | 7/28/2025 | 7/28/2025 | 8/5/2025   | PM              | Carbon Black Unit 1            | Production Unit 1 / EPN #3 | 7.86 lb/hr                | EUG 2/8: EPN #3                   | 485.93 lb/hr | 30     | <sup>13</sup> Shutdown |
| HQF-H7N5-KMAFY | HQF-5E20-6GCT7 | 8/7/2025  | 8/7/2025  | 9/5/2025   | TPM             | Unit 1 Vent Stack              | Production Unit 1 / EPN #3 | 7.86 lb/hr                | EUG 2/8: EPN #3                   | 113.6 lb/hr  | 28     | Malfunction            |
| HQG-2NX0-RSYY6 | HQF-H8CT-A2PWH | 9/4/2025  | 59/5/2025 | 10/3/2025  | PM              | 213166 – Waste Gas GoGEN Units | EUG 5: CGEU 1 / EPN #40    | 5.65 lb/hr                | EUG 5: EPN #40                    | 99.56 lb/hr  | 175    | Malfunction            |
| HQG-C42E-266FT | HQF-TP9F-CW3Z0 | 9/19/2025 | 9/22/2025 | 10/16/2025 | TPM             | CGEUH 1                        | EUG 5: CGEU 1 / EPN #40    | <sup>8</sup> 12.24 lb/hr  | Incorrect                         | 120.72 lb/hr | 130    | Malfunction            |
| HQG-DNST-CP3V5 | HQF-ZD45-E5Y1S | 9/23/2025 | 9/23/2025 | 10/17/2025 | TPM             | 47467 - Production Unit 2      | Production Unit 2 / EPN #7 | <sup>9</sup> 3.90 lb/hr   | Incorrect                         | 415.02 lb/hr | 23     | Malfunction            |
| HQM-NKDB-M6W2F | HQK-8P2M-PQGEF | 2/2/2026  | 2/3/2026  | 3/3/2026   | SO <sub>2</sub> | 47431 - Production Unit 1      | EUG 5: CGEU 1 / EPN #40    | 158 ppmvd                 | EUG 5: 7-day rolling average (CD) | 46.02 ppmvd  | 5,400  | Malfunction            |
| HQM-NM55-4MP29 | HQK-FSTQ-Z51ZQ | 2/13/2026 | 2/13/2026 | 3/13/2026  | TPM             | 47431 - Production Unit 1      | Production Unit 1 / EPN #3 | <sup>105</sup> 3.36 lb/hr | Incorrect                         | 122.23 lb/hr | 130    | Malfunction            |
| HQP-6YRM-TCP5B | HQN-A3NH-NYATK | 4/22/2026 | 4/22/2026 | 5/20/2026  | PM              | Co-Gen System 1 – EPN 40       | EUG 5: CGEU 1 / EPN #40    | <sup>105</sup> 3.36 lb/hr | Incorrect                         | 109.28 lb/hr | 394    | Malfunction            |

|                |                |           |           |           |    |                           |                            |                           |           |             |    |                       |
|----------------|----------------|-----------|-----------|-----------|----|---------------------------|----------------------------|---------------------------|-----------|-------------|----|-----------------------|
| HQP-6YGV-NB92M | HQN-A428-5T6DW | 4/27/2026 | 4/27/2026 | 5/27/2026 | PM | Unit 1 Vent Stack – EPN 3 | Production Unit 1 / EPN #3 | <sup>11</sup> 12.46 lb/hr | Incorrect | 99.67 lb/hr | 17 | Malfunction           |
| HQP-1Q3P-AX916 | HQN-ANN1-TEBA1 | 5/4/2026  | 5/5/2026  | 6/3/2026  | PM | CGEU 1 / EPN #40          | EUG 5: CGEU 1 / EPN #40    | <sup>12</sup> 16.80 lbs   | Incorrect | 250.47 lbs  | 15 | <sup>13</sup> Startup |

\*The points of emissions listed in the reports do not always directly match an emission point listed in the active permit. CCC confirmed the names of emission points as listed in the permit in a records request (**OID 6329368, PO Records Request 2026**). CCC was advised during the on-site inspection to submit EE notices and reports using the name of emission points as listed in the current active permit. Failure to include the correct permit established identifier from which the EEs occurred is a violation of OAC 252:100-9-7(b)(3) and will be listed in the *Exit Interview/Summary* section below.

\*\*This column refers to the source of the limit as listed in the SCs of the active permit at the time of the event.

<sup>1</sup>These missing immediate notices were addressed in Enforcement Case 13430.

<sup>2</sup>When asked about this missing immediate notice, CCC referred to the February 10, 2025, report as the immediate notice. This report, however, was a 30-day report, and no immediate notice was submitted. Failure to submit an immediate notice no later than 4:30 pm the following working day of the first occurrence of EEs is a violation of OAC 252:100-9-7(a) and will be listed in the *Exit Interview/Summary* section below.

<sup>3</sup>The 30-day report was due to be submitted on January 22, 2025. It was submitted 19 days late on February 10, 2025. No extension was requested. This is a violation of OAC 252:100-9-7(b) and will be listed in the *Exit Interview/Summary* section below.

<sup>4</sup>The 30-day report was due to be submitted on June 19, 2025. It was submitted 1 day late on June 20, 2025. No extension was requested. This is a violation of OAC 252:100-9-7(b) and will be listed in the *Exit Interview/Summary* section below.

<sup>5</sup> The date of the event was listed as September 5, 2025, on the immediate notice. The actual event date was September 4, 2025. Failure to accurately report the event start date in the immediate notice is a violation of OAC 252:100-9-7(a)(3) and will be listed in the *Exit Interview/Summary* section below.

<sup>6</sup>The limit listed in the 30-day report appears to be a typo. The limit should be 7.86 lb/hr. The amount of excess appears to be calculated correctly with a limit of 7.86 lb/hr. This will be listed as an AOC in the *Exit Interview/Summary* section below.

<sup>7</sup>The limit listed is associated with Production Unit 1 / EPN #3 in Permit No. 2004-302-C (M-4); however, the report states that the EE is from Production Unit 3, which has a permit limit of 8.00 lb/hr in Permit No. 2004-302-C (M-4). The reported EE is therefore overcalculated. Failure to list

the correct applicable authorized emission limit is a violation of OAC 252:100-9-7(b)(4), and failure to accurately calculate the EE is a violation of OAC 252:100-9-7(b)(5). These violations will be listed in the *Exit Interview/Summary* section below.

<sup>8</sup>12.24 lb/hr is a NO<sub>x</sub> lb/hr limit for Production Unit 3 / EPN #11 in Permit No. 2017-0914-C (M-3). The 30-day report for this event specified that the source of the emissions was CGEUH1, which CCC confirmed in a records request was equivalent to EUG 5: CGEU 1 / EPN #40. Additionally, the report specifies total particulate matter (“TPM”) as the pollutant in exceedance. Therefore, the reported EE is not calculated correctly. Failure to list the correct applicable authorized emission limit is a violation of OAC 252:100-9-7(b)(4), and failure to accurately calculate the EE is a violation of OAC 252:100-9-7(b)(5). These violations will be listed in the *Exit Interview/Summary* section below.

<sup>9</sup>3.90 is a NO<sub>x</sub> TPY limit for Production Unit 2 / EPN #7 in Permit No. 2017-0914-C (M-3). The 30-day report specified TPM is the pollutant in exceedance. Therefore, the reported EE is not calculated correctly. Failure to list the correct applicable authorized emission limit is a violation of OAC 252:100-9-7(b)(4), and failure to accurately calculate the EE is a violation of OAC 252:100-9-7(b)(5). These violations will be listed in the *Exit Interview/Summary* section below.

<sup>10</sup>5.36 lb/hr is listed in the total potential criteria pollutant emissions table and in the CAM Plan Background section for CGEU 1 / EPN #40 of the permit memo of Permit No. 2017-091-C (M-3). This is not a limit that is listed in the SCs of Permit No. 2017-0914-C (M-3). Additionally, EE event HQM-NM55-4MP29 is listed with Production Unit 1 / EPN #3 as the emission point, which is not associated with the 5.36 lb/hr limit anywhere in the permit memo or permit specific conditions. Therefore, the reported EEs are not calculated correctly. Failure to list the correct applicable authorized emission limit is a violation of OAC 252:100-9-7(b)(4), and failure to accurately calculate the EE is a violation of OAC 252:100-9-7(b)(5). These violations will be listed in the *Exit Interview/Summary* section below.

<sup>11</sup>12.46 lb/hr is the NO<sub>x</sub> lb/hr limit for Production Unit 1 / EPN #3 in Permit No. 2017-0914-C (M-3). The 30-day report specified PM is the pollutant in exceedance. Therefore, the reported EE is not calculated correctly. Failure to list the correct applicable authorized emission limit is a violation of OAC 252:100-9-7(b)(4), and failure to accurately calculate the EE is a violation of OAC 252:100-9-7(b)(5). These violations will be listed in the *Exit Interview/Summary* section below.

<sup>12</sup>16.80 lbs is not listed in any of the permits in the memos or the SCs; it is unclear where this limit comes from. Therefore, the reported EE is not calculated correctly. Failure to list the correct applicable authorized emission limit is a violation of OAC 252:100-9-7(b)(4), and failure to accurately calculate the EE is a violation of OAC 252:100-9-7(b)(5). These violations will be listed in the *Exit Interview/Summary* section below.

<sup>13</sup>The event reason is listed as shutdown or startup; however, per the event description, the event was caused by a malfunction that forced a shutdown or a malfunction that occurred during startup.

Failure to accurately report the primary cause of the event is a violation of OAC 252:100-9-7(b)(6) and will be listed in the *Exit Interview/Summary* section below.

OAC 252:100-9-8(a) defines all periods of EEs to be violations regardless of cause; therefore, all of the events listed above are violations that will be listed in the *Exit Interview/Summary* section below. Mitigating factors may provide relief from civil or administrative penalties that would otherwise be assessed by DEQ for EEs that occur during periods of startup, shutdown, and malfunction. However, mitigating factors are prohibited if the EE was an exceedance of a federally promulgated emission limit, including, but not limited to, 40 CFR Parts 60, 61, and 63. Paragraph 62 of CD 5:15-cv-00290-F summarizes stipulated penalties for violations of any emissions limit listed in the CD. Therefore, mitigating factors are also prohibited for any EE that is an exceedance of a CD limit.

The following events are violations of the 7-day rolling average SO<sub>2</sub> limit in the CD and therefore do not qualify for mitigating factors. These events will be listed as violations in the *Exit Interview/Summary* section below.

- HQM-T7NS-M24HD on 10/9/2024; lasted more than 8 days
- HQB-0P39-5WVXA on 12/23/2024; lasted more than 8 days
- HQB-HXX0-RWSGH on 3/16/2025
- HQD-G743-NGW66 on 5/23/2025; lasted 7 days
- HQM-NKDB-M6W2F on 2/2/2026

Event HQD-G6V8-6N05V, which occurred on May 20, 2025, is a violation of the lb/hr PM limit for CGEU 1 / EPN #40 established in SC 1.EUG 5 of Permit No. 2004-302-C (M-4) and lasted more than 7 days (22 days). The event was reportedly due to a malfunction and is being evaluated to see if it qualifies for mitigation of penalties under OAC 252:100-9-8(b).

The table below summarizes EE events of opacity/visible emissions.

| EE ID (30-Day) | EE ID (Imm.)   | Event Date | Immediate Notice | 30-Day Report          | *Point of Emissions per Submittal | *Point of Emissions per Permit | Duration of EE Episode (min) | Actual Opacity (%) | Event Reason          |
|----------------|----------------|------------|------------------|------------------------|-----------------------------------|--------------------------------|------------------------------|--------------------|-----------------------|
| HQM-Q026-T85XF | HQB-HYG0-BPP4R | 3/11/2025  | 3/11/2025        | 4/3/2025               | CB Unit 1 Vent Stack (EPN 3)      | Production Unit 1 / EPN #3     | 1,920                        | 55                 | Malfunction           |
| HQD-48B8-CQS15 | HQC-2D8S-NC6KB | 4/21/2025  | 4/23/2025        | 5/14/2025              | COGEN 1                           | EUG 5: CGEU 1 / EPN #40        | 3,153                        | 26                 | Malfunction           |
| HQD-G6V8-6N05V | HQD-49Q9-ACEZ7 | 5/20/2025  | 5/20/2025        | <sup>1</sup> 6/20/2025 | COGEN 1                           | EUG 5: CGEU 1 / EPN #40        | 32,040                       | 26                 | Malfunction           |
| HQH-Z2ZE-H7CMM | HQD-G5JC-ZPZJ0 | 6/18/2025  | 6/18/2025        | 7/1/2025               | Carbon Black Unit 1               | Production Unit 1 / EPN #3     | 28                           | 64                 | <sup>2</sup> Shutdown |

|                |                |           |                       |            |                                |                            |     |    |                       |
|----------------|----------------|-----------|-----------------------|------------|--------------------------------|----------------------------|-----|----|-----------------------|
| HQE-VD91-K82T1 | Email; no ID   | 7/17/2025 | 7/17/2025             | 8/5/2025   | COGEN 1                        | EUG 5: CGEU 1 / EPN #40    | 210 | 40 | Malfunction           |
| HQE-ZZQW-SJTJG | Email; no ID   | 7/28/2025 | 7/28/2025             | 8/5/2025   | Carbon Black Unit 1            | Production Unit 1 / EPN #3 | 30  | 64 | <sup>2</sup> Shutdown |
| HQF-H7N5-KMAFY | HQF-5E20-6GCT7 | 8/7/2025  | 8/7/2025              | 9/5/2025   | Unit 1 Vent Stack              | Production Unit 1 / EPN #3 | 28  | 37 | Malfunction           |
| HQG-2NX0-RSYY6 | HQF-H8CT-A2PWH | 9/4/2025  | <sup>2</sup> 9/5/2025 | 10/3/2025  | 213166 - Waste Gas GoGen Units | EUG 5: CGEU 1 / EPN #40    | 180 | 33 | Malfunction           |
| HQG-C42E-266FT | HQF-TP9F-CW3Z0 | 9/19/2025 | 9/22/2025             | 10/16/2025 | CGEUH 1                        | EUG 5: CGEU 1 / EPN #40    | 130 | 40 | Malfunction           |
| HQG-DNST-CP3V5 | HQF-ZD45-E5Y1S | 9/23/2025 | 9/23/2025             | 10/17/2025 | 47467 - Production Unit 2      | Production Unit 2 / EPN #7 | 23  | 80 | Malfunction           |
| HQM-NM55-4MP29 | HQK-FSTQ-Z51ZQ | 2/13/2026 | 2/13/2026             | 3/13/2026  | 47431 - Production Unit 1      | Production Unit 1 / EPN #3 | 130 | 39 | Malfunction           |
| HQP-6YRM-TCP5B | HQN-A3NH-NYATK | 4/22/2026 | 4/22/2026             | 5/20/2026  | CoGen System 1 - EPN 40        | EUG 5: CGEU 1 / EPN #40    | 394 | 36 | Malfunction           |
| HQP-6YGV-NB92M | HQN-A428-5T6DW | 4/27/2026 | 4/27/2026             | 5/27/2026  | Unit 1 Vent Stack - EPN 3      | Production Unit 1 / EPN #3 | 17  | 30 | Malfunction           |
| HQP-1Q3P-AX916 | HQN-ANN1-TEBA1 | 5/4/2026  | 5/5/2026              | 6/3/2026   | CGEU 1 / EPN #40               | EUG 5: CGEU 1 / EPN #40    | 15  | 28 | <sup>2</sup> Startup  |

\*The points of emissions listed in the submittals do not always directly match an emission point listed in the active permit. CCC confirmed the names of emission points as listed in the permit in a records request. CCC was advised during the on-site inspection to submit EE notices and reports using the name of emission points as listed in the current active permit. Failure to include the correct permit established identifier from which the EEs occurred is a violation of OAC 252:100-9-7(b)(3) and will be listed in the *Exit Interview/Summary* section below.

<sup>1</sup>The 30-day report was due to be submitted on June 19, 2025. It was submitted 1 day late on June 20, 2025. No extension was requested. This is a violation of OAC 252:100-9-7(b) and will be listed in the *Exit Interview/Summary* section below, as discussed above.

<sup>2</sup>The date of the event was listed as September 5, 2025, on the immediate notice. The actual event date was September 4, 2025. Failure to accurately report the event start date in the immediate notice is a violation of OAC 252:100-9-7(a)(3) and will be listed in the *Exit Interview/Summary* section below, as discussed above.

<sup>2</sup>The event reason is listed as shutdown or startup; however, per the event description, the event was caused by a malfunction that forced a shutdown or a malfunction that occurred during startup. Failure to accurately report the primary cause of the event is a violation of OAC 252:100-9-7(b)(6) and will be listed in the *Exit Interview/Summary* section below as discussed above.

OAC 252:100-9-8(a) defines all periods of EEs to be violations regardless of cause; therefore, all of the events listed above are violations that will be listed in the *Exit Interview/Summary* section below.

The following PM events were not reported as opacity events, and there is no indication that they should have been since Method 9s were either not conducted or did not show higher than 20%:

- HQD-90JB-KM6CQ on 2/14/2025 at Production Unit 1 / EPN # 3
  - Per the 30-day report, Method 9 was not conducted.
- HQD-90WR-3NBXC on 2/21/2025 at Production Unit 1 / EPN # 3
  - Per the 30-day report, Method 9 was not conducted.
- HQD-91J3-W41AJ on 3/6/2025 at Production Unit 1 / EPN # 3
  - CCC reported in the 30-day report that Method 9 was conducted with a high reading of 20%.
- HQD-91MW-W7314 on 3/10/2025 at Production Unit 3 / EPN # 11
  - Per the 30-day report, Method 9 was not conducted.

Event HQD-G6V8-6N05V, which occurred on May 20, 2025, lasted more than 7 days (22 days), and was discussed above as it was also reported as a PM event.

### ***On-Site Evaluation***

CBPF was evaluated on April 16, 2026. From 1020 to 1230 hours, the inspectors met with CCC staff and conducted a visual inspection of all equipment. From 1345 to 1615 hours, the inspectors re-entered the plant and observed samples of the final carbon black product and then conducted a review of records and permit conditions. At the time of the inspection, only Production Units 1, 2, and 4, and both CGEUs were operating. Production Unit 3 was down.

The following SCs of **Permit No. 2017-0914-C (M-3), which was issued on August 20, 2025,** were evaluated based on observations made during the inspection, records obtained from CCC, and documentation archived at DEQ. The SCs from **Permit No. 2004-302-C (M-4), which was issued on November 30, 2018,** are included in Permit No. 2017-0914-C (M-3), other than changed emission limits. Any differences are detailed in the below SCs.

1. Points of emissions and limitations for each point: [OAC 252:100-8-6(a)(1)]

**EUG 1:** Emission units (EU) Boiler #1 and Boiler #2.

- a. The boilers shall only be fueled with commercial grade natural gas.

**Mr. Curfman confirmed that the boilers are only fueled with commercial-grade natural gas.**

| EU        | Point  | Manufacturer | MMBTUH | Serial # | Const. Date |
|-----------|--------|--------------|--------|----------|-------------|
| Boiler #1 | EPN #1 | Superior     | 6.1    | 8631     | 1980        |
| Boiler #2 | EPN #2 | Superior     | 6.28   | 17817    | 2015        |

| EU        | NO <sub>x</sub> |      | CO    |      | VOC   |      | SO <sub>2</sub> |      | PM <sub>10</sub> /PM <sub>2.5</sub> |      |
|-----------|-----------------|------|-------|------|-------|------|-----------------|------|-------------------------------------|------|
|           | lb/hr           | TPY  | lb/hr | TPY  | lb/hr | TPY  | lb/hr           | TPY  | lb/hr                               | TPY  |
| Boiler #1 | 0.60            | 2.63 | 0.50  | 2.20 | 0.03  | 0.14 | 0.004           | 0.02 | 0.05                                | 0.22 |
| Boiler #2 | 0.62            | 2.72 | 0.52  | 2.27 | 0.03  | 0.15 | 0.004           | 0.02 | 0.05                                | 0.22 |

The 2022-2025 EIs were reviewed and demonstrate compliance with the above TPY emission limits, which are equal to or stricter than those listed in Permit No. 2017-0914-TVR2.

**EUG 2: Main Bag Filters (MBF)**

Emissions from these emission points include transition emissions of the production units and reactor heat load emissions.

Summary of Emission Sources

**EUG 2 Main Bag Filters (MBF)**

| EU     | Point         | Name       |
|--------|---------------|------------|
| MBF #1 | EPN #3 (N/C)  | Unit No. 1 |
| MBF #2 | EPN #7 (N/C)  | Unit No. 2 |
| MBF #3 | EPN #11 (N/C) | Unit No. 3 |
| MBF #4 | EPN #20 (N/C) | Unit No. 4 |

N/C – Normally Closed

**EUG 8 Reactors**

| EU     | Point                  | Unit No.                 | Const. Date |
|--------|------------------------|--------------------------|-------------|
| RX #11 | EPN #3, 40, or 41      | Unit No. 1 - Reactor #11 | 1955        |
| RX #12 | EPN #3, 40, or 41      | Unit No. 1 - Reactor #12 | 1955        |
| RX #21 | EPN #4, 40, or 41      | Unit No. 2 - Reactor #21 | 1955        |
| RX #31 | EPN #11, 13, 40, or 41 | Unit No. 3 - Reactor #31 | 1959        |
| RX #32 | EPN #11, 13, 40, or 41 | Unit No. 3 - Reactor #32 | 1959        |
| RX #41 | EPN #20, 40, or 41     | Unit No. 4 - Reactor #4  | 1991        |

- a. During periods other than heat load operation, reactor startup, shutdown, and malfunction, the main bag filter heat load vents shall be closed.

**Mr. Curfman confirmed that the MBF heat load vents are closed during periods other than heat load operation, and reactor startup, shutdown, and malfunction.**

- b. All carbon black product and PM emissions generated by the reactor shall be vented to a main bag filter. Direct venting to the atmosphere of any carbon black product or PM emissions generated by the reactor is prohibited at all times.

**Mr. Curfman confirmed that all carbon black product and PM emissions generated by the reactors are vented to a MBF and never to atmosphere.**

Emission Limitations

| Point  | EU No. | Emissions Unit Name                   | NO <sub>x</sub>    |      | CO                 |        | VOC                |      |
|--------|--------|---------------------------------------|--------------------|------|--------------------|--------|--------------------|------|
|        |        |                                       | lb/hr <sup>1</sup> | TPY  | lb/hr <sup>1</sup> | TPY    | lb/hr <sup>1</sup> | TPY  |
| EPN 3  | MBF 1  | Production Unit 1 – Transition Events | 12.46              | 7.57 | 2,122.29           | 203.10 | 94.71              | 9.08 |
|        | Rx 11  | Reactor 11 - Heat Load                |                    |      |                    |        |                    |      |
|        | Rx 12  | Reactor 12 - Heat Load                |                    |      |                    |        |                    |      |
| EPN 7  | MBF 2  | Production Unit 2 – Transition Events | 13.35              | 3.90 | 1,039.51           | 98.90  | 16.25              | 1.58 |
|        | Rx 21  | Reactor 21 - Heat Load                |                    |      |                    |        |                    |      |
| EPN 11 | MBF 3  | Production Unit 3 – Transition Events | 12.24              | 8.06 | 2,159.69           | 206.43 | 96.38              | 9.24 |
|        | Rx 31  | Reactor 31 - Heat Load                |                    |      |                    |        |                    |      |
|        | Rx 32  | Reactor 32 - Heat Load                |                    |      |                    |        |                    |      |
| EPN 20 | MBF 4  | Production Unit 4 – Transition Events | 29.38              | 8.09 | 2,246.00           | 214.63 | 100.23             | 9.60 |
|        | Rx 41  | Reactor 41 - Heat Load                |                    |      |                    |        |                    |      |

<sup>1</sup>Hourly emissions assume the worst case hourly emission rate between reactor heat load and transition events for each unit as these activities do not take place within the same hour.

| Point  | EU No. | Emissions Unit Name                   | PM/PM <sub>10</sub> /PM <sub>2.5</sub> |      | SO <sub>2</sub>    |      |
|--------|--------|---------------------------------------|--|------|--------------------|------|
|        |        |                                       | lb/hr <sup>1</sup>                     | TPY  | lb/hr <sup>1</sup> | TPY  |
| EPN 3  | MBF 1  | Production Unit 1 – Transition Events | 1.25                                   | 0.22 | 1.31               | 0.13 |
|        | Rx 11  | Reactor 11 - Heat Load                |  |      |                    |      |
|        | Rx 12  | Reactor 12 - Heat Load                |  |      |                    |      |
| EPN 7  | MBF 2  | Production Unit 2 – Transition Events | 1.45                                   | 0.20 | 8.70               | 0.88 |
|        | Rx 21  | Reactor 21 - Heat Load                |  |      |                    |      |
| EPN 11 | MBF 3  | Production Unit 3 – Transition Events | 1.27                                   | 0.24 | 1.33               | 0.14 |
|        | Rx 31  | Reactor 31 - Heat Load                |  |      |                    |      |
|        | Rx 32  | Reactor 32 - Heat Load                |  |      |                    |      |
| EPN 20 | MBF 4  | Production Unit 4 – Transition Events | 1.32                                   | 0.24 | 1.38               | 0.14 |
|        | Rx 41  | Reactor 41 - Heat Load                |  |      |                    |      |

<sup>1</sup>Hourly emissions assume the worst case hourly emission rate between reactor heat load and transition events for each unit as these activities do not take place within the same hour.

TPY emissions for EPN 3, 7, 11, and 20 are reported in the 2022-2025 EIs under the following emission points:

- Production Unit 1/2/3/4
- Production Unit 1/2/3/4 – Transition Events
- Reactor 11/12/21/31/41/32

Emissions from these points for each Production Unit (EPN 3, 7, 11, and 20) were totaled to verify compliance with the above limits. The tables listed above are also listed in Permit No. 2004-302-C (M-4), SC 1, (issued November 30, 2018), though the limits are less restrictive here. The table below summarizes the TPY emissions for EPN 3, 7, 11, and 20. Emissions in tan are in exceedance of the 2018 and 2025 permit limits.

| EPN 3           |            |            |        |        |        |       |
|-----------------|------------|------------|--------|--------|--------|-------|
|                 | Limit 2018 | Limit 2025 | 2022   | 2023   | 2024   | 2025  |
| CO              | 157.18     | 203.1      | 106.67 | 189.20 | 107.64 | 19.96 |
| NOx             | 7.41       | 7.57       | 8.63   | 15.70  | 14.80  | 13.22 |
| VOC             | 7.04       | 9.08       | 4.91   | 8.71   | 5.06   | 1.12  |
| PM              | 0.19       | 0.22       | 0.69   | 1.25   | 1.16   | 1.01  |
| SO <sub>2</sub> | 0.11       | 0.13       | 0.07   | 0.12   | 0.10   | 0.08  |

| EPN 11          |            |            |       |        |       |       |
|-----------------|------------|------------|-------|--------|-------|-------|
|                 | Limit 2018 | Limit 2025 | 2022  | 2023   | 2024  | 2025  |
| CO              | 160.26     | 206.43     | 96.94 | 230.10 | 99.96 | 29.75 |
| NOx             | 7.90       | 8.06       | 13.41 | 14.78  | 14.64 | 13.44 |
| VOC             | 7.16       | 9.24       | 5.11  | 10.51  | 4.71  | 1.56  |
| PM              | 0.21       | 0.24       | 1.05  | 1.19   | 1.14  | 1.03  |
| SO <sub>2</sub> | 0.11       | 0.14       | 0.11  | 0.12   | 0.10  | 0.08  |

| EPN 7           |            |            |       |       |       |      |
|-----------------|------------|------------|-------|-------|-------|------|
|                 | Limit 2018 | Limit 2025 | 2022  | 2023  | 2024  | 2025 |
| CO              | 76.63      | 98.9       | 38.62 | 76.70 | 42.03 | 8.69 |
| NOx             | 3.85       | 3.90       | 5.22  | 3.93  | 4.48  | 3.88 |
| VOC             | 1.23       | 1.58       | 0.82  | 1.33  | 0.51  | 0.29 |
| PM              | 0.17       | 0.20       | 0.44  | 0.39  | 0.39  | 0.30 |
| SO <sub>2</sub> | 0.64       | 0.88       | 0.15  | 0.19  | 0.11  | 0.04 |

| EPN 20          |            |            |        |        |        |       |
|-----------------|------------|------------|--------|--------|--------|-------|
|                 | Limit 2018 | Limit 2025 | 2022   | 2023   | 2024   | 2025  |
| CO              | 166.26     | 214.63     | 161.88 | 323.57 | 149.67 | 70.64 |
| NOx             | 7.92       | 8.09       | 8.52   | 15.88  | 18.15  | 16.24 |
| VOC             | 7.45       | 9.60       | 7.36   | 14.70  | 6.99   | 3.43  |
| PM              | 0.21       | 0.24       | 0.70   | 1.31   | 1.42   | 1.25  |
| SO <sub>2</sub> | 0.11       | 0.14       | 0.09   | 0.14   | 0.13   | 0.11  |

Reported NOx and PM emissions for EPN 3, 7, 11, and 20 were in exceedance of the above limits in 2025 and those of SC 1. EUG 2/8 of Permit No. 2004-302-C (M-4), in 2022, 2023, and 2024, with the exception of NOx emissions from EPN 7 in 2025. Additionally, CO, VOC, and SO<sub>2</sub> emissions were in exceedance of the TPY limits in 2023 for EPN 3, 7, 11, and 20, with the exception of SO<sub>2</sub> for EPN 7. In response to this issue, CCC stated in a records request (OID 6329368, PO Records Request 2026) that the emissions exceedances are due to the COGEN units initially being under-permitted since CCC is the first carbon black company to install a COGEN system, and therefore the emission limits were based on theoretical emissions. CCC stated that the emission limits were raised in Permit No. 2017-0914-C (M-3) in order to account for actual emissions; however, the reported emissions remain in exceedance of the new (2025) limits. Additionally, the limits listed in the permit draft for Permit No. 2023-099-TVR3 are the same as those listed above. This violation will be listed below in the *Exit Interview/Summary* section for this evaluation.

- a. Transition event duration shall not exceed 10 minutes per event when transitioning between (A) an operational mode in which oil, natural gas, and combustion air are all fed to the reactor burner and the reactor is manufacturing carbon black and generating Tail Gas, and (B) an operational mode, including, but not limited to, during periods of Startup and Shutdown, in which no oil but only natural gas and combustion air are supplied to the reactor.
- b. Total number of transitional events shall not exceed 760 per year for all four (4) reactors
- c. Records of duration of each transition event and the total number of transition events in any 12 months shall be maintained.

**Records of transition events are reported in the SARs in documents labeled WEG [year] (OIDs 5971801, 6250491). The WEG [year] report was not included in the SAR covering 2/1/2025 to 7/31/2025. Additionally, events that occurred in January 2026 were not included in the SAR covering 8/1/2025 to 1/31/2026. Failure to provide these records in the SARs is a violation of Standard Condition III(C) of Permit Nos. 2017-0914-C (M-3) and Permit No. 2004-302-C (M-4), which both list the requirement to maintain records of transition events in SC 18. This will be listed in the *Exit Interview/Summary* section below.**

**Records showing 12-month rolling totals of number of transition events for all four reactors were requested for August 2024 through January 2026. CCC only provided totals, and not rolling totals, for each reactor for August to December 2024, all of 2025, and January of 2026. Based on totals provided, it appears unlikely that the 760-event limit would have been exceeded. The total number of events reported between January 2024 and January 2026 was [REDACTED]. Failure to provide these records in the SARs is a violation of Standard Condition III(C) of Permit Nos. 2017-0914-C (M-3) and Permit No. 2004-302-C (M-4), which both list the requirement to maintain records of transition events in SC 18. This will be listed in the *Exit Interview/Summary* section below.**

**Between January 2024 and January 2026, as reported in the last three SARs, there were [REDACTED] transition events that exceeded 10 minutes. During the on-site inspection, Ms. Ahrens stated that for each of these events, CCC conducts a Method 9 reading and submits an EE report. Of the [REDACTED] transition events that exceeded 10 minutes, [REDACTED] did not have EE reports submitted. It should be noted that many of these events occurred on the same day and from multiple production units at the same time. [REDACTED] of the events lasted more than one hour. Records of Method 9 events over the past two years were also requested to show compliance with SC 13.c below. The records provided (OID 6329368, Folder #13) only included seven events.**

**Failure to comply with the 10-minute limit for transition events [REDACTED] times between January 2024 and January 2026 will be listed as a violation of SC 1.EUG 2/8.a of Permit Nos. 2004-302-C (M-4) and 2017-0914-C (M-3) in the *Exit Interview/Summary* section below.**

**EUG 4: Cleanup Bag Filters (CUBF)**

| Point   | Emission Unit | Emission Unit Name | PM/PM <sub>10</sub> /PM <sub>2.5</sub> |      |
|---------|---------------|--------------------|--|------|
|         |               |                    | lb/hr                                  | TPY  |
| EPN #10 | CBF #1        | Unit No. 1         | 0.20                                   | 0.87 |
| EPN #6  | CBF #2        | Unit No. 2         | 0.05                                   | 0.24 |
| EPN #14 | CBF #3        | Unit No. 3         | 0.03                                   | 0.12 |
| EPN #24 | CBF #4        | Unit No. 4         | 0.10                                   | 0.45 |
| EPN #23 | CBF #5        | Shipping Dock      | 0.09                                   | 0.39 |
| EPN #34 | CBF #6        | Shipping Dock      | 0.09                                   | 0.39 |
| EPN #35 | CBF #7        | Sealed Bin #1      | 0.01                                   | 0.04 |
| EPN #35 | CBF #8        | Sealed Bin #2      | 0.01                                   | 0.04 |
| EPN #33 | CBF #9        | Transloading       | 0.01                                   | 0.04 |

**The 2022-2025 EIs were reviewed and demonstrate compliance with the above TPY emission limits, which are equivalent to the limits listed in Permit No. 2017-0914-TRV2.**

**EUG 5: Clean Gas and Energy Units**

Emissions from these emission points include emissions from EUG 2: Main Bag Filters, EUG 3: Exhaust Bag Filters, EUG 5: CGEUs, EUG 6: Pellet Dryers, EUG 8: Reactors, and EUG 9: waste gas combustors.

Summary of Emission Sources

**EUG 5 Clean Gas and Energy Units (CGEU)**

| EU      | Point   | Name                                  | Const. Date |
|---------|---------|---------------------------------------|-------------|
| CGEU 1  | EPN #40 | Clean Gas and Energy Unit 1           | 2017        |
| CGEU 2  | EPN #41 | Clean Gas and Energy Unit 2           | 2017        |
| CGEUH 1 | EPN #40 | Clean Gas and Energy Unit 1-Heat Load | 2017        |
| CGEUH 2 | EPN #41 | Clean Gas and Energy Unit 2-Heat Load | 2017        |

- a. The clean gas and energy units shall each consist of a tail gas boiler, selective catalytic reduction system, and a dry scrubber with a baghouse.

**Mr. Curfman confirmed that the CGEUs each consist of a tail gas boiler, selective catalytic reduction system, and dry scrubber with a baghouse.**

**EUG 6 Pellet Dryers**

| EU        | Point   | Unit No.   | Const. Date |
|-----------|---------|------------|-------------|
| Dryer #11 | EPN #40 | Unit No. 1 | 1954        |
| Dryer #12 | EPN #40 | Unit No. 1 | 1954        |
| Dryer #21 | EPN #40 | Unit No. 2 | 1954        |

|           |         |            |      |
|-----------|---------|------------|------|
| Dryer #31 | EPN #41 | Unit No. 3 | 1959 |
| Dryer #32 | EPN #41 | Unit No. 3 | 1959 |
| Dryer #41 | EPN #41 | Unit No. 4 | 1991 |

**EUG 9 Waste Gas Combustors (WGC)**

| EU      | Points  | Name              | MMBTUH | Const. Date |
|---------|---------|-------------------|--------|-------------|
| WGC #11 | EPN #40 | WGC 11- Heat Load | 19.3   | 1954        |
| WGC #12 | EPN #40 | WGC 12- Heat Load | 19.3   | 1954        |
| WGC #22 | EPN #40 | WGC 21- Heat Load | 19.3   | 1954        |
| WGC #31 | EPN #41 | WGC 31- Heat Load | 19.3   | 1959        |
| WGC #32 | EPN #41 | WGC 32- Heat Load | 19.3   | 1959        |
| WGC #41 | EPN #41 | WGC 41- Heat Load | 24.75  | 1991        |

CCC reported emissions from the above pellet dryers and WGC in the 2022-2024 EIs. Mr. Curfman stated that the equipment is still present on-site and in use.

Emission Limitations

Emission limitations for the clean gas energy units are listed in the following table.

| Pollutants  | 7-Day Rolling Average Emission Limits                               | 365-Day Rolling Average Emission Limits                            | 3-hr Average Emission Limits   |
|---|---|--|--------------------------------|
| SO <sub>2</sub>   | No less than 120 ppmvd and no greater than 158 ppmvd (at 0% oxygen) | No less than 80 ppmvd and no greater than 130 ppmvd (at 0% oxygen) |                                |
| NO <sub>x</sub>   | No greater than 54 ppmvd (at 0% oxygen)                             | No greater than 38 ppmvd (at 0% oxygen)                            |                                |
| PM  |   |  | No greater than 0.0069 gr/dscf |
| NO <sub>x</sub> Limits for Heat Load, Startup, and Shutdown: No greater than 50 TPY (in total for all reactors and boilers) for the prior 365 days) |   |  |                                |
| BACT Limit for CO: No greater than 169.75 lb/hr and 743.51 TPY  |   |  |                                |

It should be noted that this condition incorrectly lists SO<sub>2</sub> limits as ranges. The CD outlines two options (A and B) for final SO<sub>2</sub> emission limits. Option B, which is what is listed in the SC above, was meant to be one number (an upper limit) within the range of 120 ppmvd and 158 ppmvd, as determined in the Optimization and Demonstration Study per Appendix E of the CD. The Final SO<sub>2</sub> Optimization and Demonstration Study results were submitted to EPA and DEQ on August 30, 2024 (OID 5783585). Per the results, final SO<sub>2</sub> emission limits should be set at 158 ppmvd @ 0% O<sub>2</sub> for the 7-day average and 130 ppmvd @ 0% O<sub>2</sub> for the 365-day average. The table above should be corrected in the next permit update. This will be listed as an AOC in the *Exit Interview/Summary* section below.

Records of 7-day rolling averages and 365-day rolling averages for SO<sub>2</sub> and NO<sub>x</sub> were requested for the period of August 2024 through January 2026. CCC provided these records for the period of January 2024 through December 2025 (OID 6329368, Folders #8, #28 (1&3)). Compliance cannot be determined during the month of January 2026 due to a lack of records. This violation will be listed in the *Exit Interview/Summary* section below.

Additionally, failure to provide these records in the SARs is a violation of Standard Condition III(C) of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4), which both list the requirement to maintain records of NO<sub>x</sub> and SO<sub>2</sub> CEMS data in SC 18. This violation will be listed in the *Exit Interview/Summary* section below.

The list below summarizes days that the provided CEMS data was in exceedance of the permitted limits.

#### CGEU1 Violations of Limits in Table Above

1. The CEMS records show a 7-day rolling average for SO<sub>2</sub> of greater than 158 ppmvd @ 0% O<sub>2</sub> on the following dates:
  - 1/23/2024; 1 day
  - 2/29/2024; 1 day
  - 3/21/2024 to 3/24/2024; 4 days
  - 9/11/2024 to 9/12/2024; 2 days
  - 12/24/2024 to 1/2/2025; 10 days
  - 3/14/2025 to 3/16/2025; 3 days
  - 4/13/2025 to 4/19/2025; 7 days
  - 4/23/2025; 1 day
  - 5/22/2025 to 5/29/2025; 8 days
  - 11/23/2025 to 11/30/2025; 8 days
  - Total between January 2024 and December 2025: 45 days
2. CCC reported no 365-day rolling averages for SO<sub>2</sub> greater than 130 ppmvd @ 0% O<sub>2</sub>.
3. CCC reported no exceedances of the 7-day rolling average for NO<sub>x</sub>.
4. CCC reported no exceedances of the 365-day rolling average for NO<sub>x</sub>.

#### CGEU2 Violations of Limits in Table Above

1. The CEMS records show a 7-day rolling average for SO<sub>2</sub> of greater than 158 ppmvd @ 0% O<sub>2</sub> on the following dates:
  - 1/21/2024; 1 day
  - 2/1/2024 to 2/2/2024; 2 days
  - 6/23/2024 to 6/26/2024; 4 days
  - 10/3/2024 to 10/16/2024; 14 days
  - 12/12/2025 to 12/21/2025; 10 days
  - Total between January 2024 and December 2025: 31 days

2. CCC reported no 365-day rolling averages for SO<sub>2</sub> greater than 130 ppmvd @ 0% O<sub>2</sub>.
3. The CEMS records show exceedances of the 7-day rolling average for NO<sub>x</sub> on the following dates:
  - 12/5/2025 to 12/21/2025; 17 days
4. CCC reported no exceedances of the 365-day rolling average for NO<sub>x</sub>.

Per Paragraph 32 of the CD, CCC is required to demonstrate compliance with the PM limit of 0.0069 gr/dscf for each COGEN unit by conducting annual stack tests. The last stack tests were conducted on October 13, 2022, for CGEU1 and on October 11-12, 2022, for CGEU2. The results were in exceedance of the limit for both COGENs, which was addressed in Enforcement Case 13265. However, the COGENs have not been tested since the failed tests. Therefore, DEQ alleges that the COGENs have been operating out of compliance with the PM limits ever since. This violation will be listed in the *Exit Interview/Summary* section below.

Records of 365-day rolling sums of NO<sub>x</sub> emissions during heat load, startup, and shutdown for the period of August 2024 through January 2026 were requested. CCC provided a summary of monthly and annual NO<sub>x</sub> emissions for heat load (OID 6329368, Folder #8). The records provided are not 365-day rolling sums and do not appear to account for startup and shutdown. The records provided show 52.19 TPY in 2025 for all reactors from heat load. Compliance cannot entirely be determined due to a lack of records, but it appears the 50 TPY-limit was at minimum exceeded in 2025. These violations will be listed in the *Exit Interview/Summary* section below.

Reported emissions in the 2022-2024 EIs are in compliance with the TPY BACT limit for CO. Additionally per SC 1.EUG 5.f below, compliance with the CO BACT limit is ensured via good combustion practice.

The following table lists combined emissions from Emission Points 40 and 41.

| Point  | NO <sub>x</sub> |        | CO     |        | VOC   |       | PM/PM <sub>10</sub> /<br>PM <sub>2.5</sub> |       | SO <sub>2</sub> |        |
|--------|-----------------|--------|--------|--------|-------|-------|--|-------|-----------------|--------|
|        | lb/hr           | TPY    | lb/hr  | TPY    | lb/hr | TPY   | lb/hr                                      | TPY   | lb/hr           | TPY    |
| EPN 40 | 58.39           | 127.95 | 172.92 | 744.39 | 3.12  | 12.75 | 5.65                                       | 23.57 | 162.43          | 585.30 |
| EPN 41 | 58.39           | 127.95 | 172.92 | 744.39 | 3.12  | 12.75 | 5.65                                       | 23.57 | 162.43          | 585.30 |

The previous FCE cited violations for exceeding the permit limits for CO and PM for EPN 40 and EPN 41 in performance tests and/or the 2022 and 2023 EIs. Reported CO emissions from EPN 40 and EPN 41 exceeded the limits of Permit No. 2004-302-C (M-4) in the 2024 EI as well; however, the CO limits were significantly increased with the issuance of Permit No. 2017-0914-C (M-3) in August 2025. Therefore, a violation will be listed in *Exit*

**Interview/Summary** section below; however, no further action is required. Emissions reported in the 2022-2025 EIs are in compliance with the limits listed above.

- a. Each of the dry scrubbers shall be designed to achieve 95% removal of SO<sub>2</sub> emissions at all times.

Records showing the designed SO<sub>2</sub> removal efficiency of the dry scrubbers were provided upon request (OID 6329368, Folder #8). The diagram provided states that the SO<sub>x</sub> removal efficiency at max conditions is 93.56%. Failure to operate at 95% removal efficiency will be listed in the *Exit Interview/Summary* section below.

- b. Permittee shall demonstrate compliance with the control efficiency by monitoring operating parameters as specified in Appendix B of this permit.
- c. Permittee shall follow the protocol specified in Appendix B of this permit for control design, optimization and demonstration, and compliance with final emission limits.

**Appendix B of Permit No. 2017-0914-C (M-3) is Appendix E from the CD, and is the Protocol for Setting Final SO<sub>2</sub> limits. The Appendix requires an optimization and demonstration study in order to establish optimum operating levels to minimize SO<sub>2</sub> emissions for the following parameters: sorbent injection (type and chemical composition of sorbent and sorbent injection rate), pressure drop, and emission rates (outlet SO<sub>2</sub> concentration and actual removal efficiency). The Final SO<sub>2</sub> Optimization and Demonstration Study results were submitted to EPA and DEQ on August 30, 2024 (OID 5783585). This is a CD-imposed requirement that is still being evaluated. Communication with EPA indicated that the study is under review. DEQ will partner with EPA to further evaluate CD compliance, after which, stipulated penalties associated with any alleged CD violations may be assessed in a separate action.**

- d. Permittee shall use a CEMS to monitor SO<sub>2</sub> and NO<sub>x</sub> emissions for each of the two emission points during process system operation. Permittee shall install, calibrate, certify, maintain, and operate all CEMS in accordance with the equipment manufacturer's specifications and reference methods specified in 40 CFR 60.13 that are applicable to CEMS, and Part 60, Appendixes A and F, and the applicable performance specification test of 40 CFR Part 60, Appendix B, to demonstrate compliance with the SO<sub>2</sub> and NO<sub>x</sub> emission limits. Per Appendix F to Part 60, Paragraph 5.1.1, Relative Accuracy Test Audit (RATA) must be conducted at least once every four calendar quarters.

**The CEMS units for CGEU1 and CGEU2 were observed during the on-site inspection. Calibration gas bottles were observed to be unexpired.**

**Per Appendix F, Section 5, each CEMS must be audited at least once each calendar quarter. A cylinder gas audit ("CGA") or relative accuracy audit ("RAA") may be conducted in three of four calendar quarters, but in no more than three quarters in succession. In a response to a records request, CCC stated that they believe CGAs are not required per this SC, and they have not been conducting them. Since this SC states that the CEMS must be operated in**

accordance with Appendix F, this will be listed as a violation in the *Exit Interview/Summary* section below.

Since the CEMS requirement comes from the CD and not an NSPS rule, CCC is not required to report semiannual EE and downtime summaries as specified in § 60.7(c). However, per paragraph 53(d) of the CD, CCC is required to submit summaries of CEMS downtime in the semi-annual CD progress reports. CD Progress Report #20 stated that [REDACTED]; however, the CEMS data provided upon request has intermittent readings during this period. Therefore, it appears the unit was not down continuously during this period. The CEMS downtime summaries should list specific days that the CEMS was not operational. The other three CD progress reports did not include any downtime information. Failure to report downtime summaries in the CD progress reports will be listed as a violation in the *Exit Interview/Summary* section below.

The table below summarizes the last three RATAs conducted for CGEU1 and CGEU2. Note that prior to the most recent RATA, CCC was conducting RATAs at the Inlet/SCR as part of their contract with Babcock & Wilcox Company, who were the manufacturers of the scrubber system, in order to ensure that the system was operating as designed. Only the CEMS on the outlets/stacks are required to be tested per the CD.

| Process Unit         | Year | OID                | Audit Type | Test Date         | Pollutant       | Units                     | Limit | Results | Pass/Fail |
|----------------------|------|--------------------|------------|-------------------|-----------------|---------------------------|-------|---------|-----------|
| CGEU1 Inlet / SCR    | 2023 | 5624172            | RATA       | Dec 12 & 14, 2023 | NOx             | ppmvw @ 0% O <sub>2</sub> | ≤20%  | 15.0%   | pass      |
|                      |      |                    |            |                   | SO <sub>2</sub> | ppmvw @ 0% O <sub>2</sub> | ≤20%  | 15.3%   | pass      |
|                      | 2025 | 6329368, Folder #8 | RATA       | Feb 6-7, 2025     | NOx             | ppmvw @ 0% O <sub>2</sub> | ≤20%  | 1.9%    | pass      |
|                      |      |                    |            |                   | SO <sub>2</sub> | ppmvw @ 0% O <sub>2</sub> | ≤20%  | 8.4%    | pass      |
| CGEU1 Outlet / Stack | 2023 | 5624172            | RATA       | Dec 12 & 14, 2023 | NOx             | ppmvw @ 0% O <sub>2</sub> | ≤20%  | 1.5%    | pass      |
|                      |      |                    |            |                   | SO <sub>2</sub> | ppmvw @ 0% O <sub>2</sub> | ≤20%  | 7.9%    | pass      |
|                      | 2025 | 6329368, Folder #8 | RATA       | Feb 6-7, 2025     | NOx             | ppmvw @ 0% O <sub>2</sub> | ≤20%  | 4.2%    | pass      |
|                      |      |                    |            |                   | SO <sub>2</sub> | ppmvw @ 0% O <sub>2</sub> | ≤20%  | 5.2%    | pass      |
|                      | 2026 | 6329368, Folder #8 | RATA       | Jan 14, 2026      | NOx             | ppmvw @ 0% O <sub>2</sub> | ≤20%  | 11.2%   | pass      |
|                      |      |                    |            |                   | SO <sub>2</sub> | ppmvw @ 0% O <sub>2</sub> | ≤20%  | 6.2%    | pass      |
| CGEU2 Inlet / SCR    | 2023 | 5624172            | RATA       | Dec 14 & 16, 2023 | NOx             | ppmvw @ 0% O <sub>2</sub> | ≤20%  | 9.8%    | pass      |
|                      |      |                    |            |                   | SO <sub>2</sub> | ppmvw @ 0% O <sub>2</sub> | ≤20%  | 11.1%   | pass      |
|                      | 2024 | 6329368, Folder #8 | RATA       | Dec 19-20, 2024   | NOx             | ppmvw @ 0% O <sub>2</sub> | ≤20%  | 2.9%    | pass      |
|                      |      |                    |            |                   | SO <sub>2</sub> | ppmvw @ 0% O <sub>2</sub> | ≤20%  | 13.2%   | pass      |
| CGEU2 Outlet / Stack | 2023 | 5624172            | RATA       | Dec 14 & 16, 2023 | NOx             | ppmvw @ 0% O <sub>2</sub> | ≤20%  | 23.0%   | fail      |
|                      |      |                    |            |                   | SO <sub>2</sub> | ppmvw @ 0% O <sub>2</sub> | ≤20%  | NA      | NA        |
|                      | 2024 |                    | RATA       | Dec 19-20, 2024   | NOx             | ppmvw @ 0% O <sub>2</sub> | ≤20%  | 16.0%   | pass      |

|      |                       |      |              |                 |                           |      |       |      |
|------|-----------------------|------|--------------|-----------------|---------------------------|------|-------|------|
|      | 6329368,<br>Folder #8 |      |              | SO <sub>2</sub> | ppmvw @ 0% O <sub>2</sub> | ≤20% | 11.4% | pass |
| 2026 | 6329368,<br>Folder #8 | RATA | Jan 13, 2026 | NO <sub>x</sub> | ppmvw @ 0% O <sub>2</sub> | ≤20% | 10.7% | pass |
|      |                       |      |              | SO <sub>2</sub> | ppmvw @ 0% O <sub>2</sub> | ≤20% | 10.3% | pass |

The December 14/16, 2023, RATA results for the CGEU2 outlet do not list results in ppmvw @ 0% O<sub>2</sub> for NO<sub>x</sub> or SO<sub>2</sub> on the summary page (OID 5624172, p. 10). Since the NO<sub>x</sub> and SO<sub>2</sub> limits established by the CD are listed in ppmvw @ 0% O<sub>2</sub>, the RATA results should be calculated for the same units per Appendix F, 6.1. The RATA data sheet for NO<sub>x</sub> for units in ppmvw @ 0% O<sub>2</sub> (OID 5624172, p. 25) lists a relative accuracy (“RA”) of 23.0%, which is in exceedance of the 20% limit established in Appendix B, PS 2, 13.2. There is no data sheet included in the report for SO<sub>2</sub> for units in ppmvw @ 0% O<sub>2</sub>; therefore, compliance cannot be determined. Failure to submit a passing RATA for NO<sub>x</sub> and SO<sub>2</sub> for CGEU2 in Q4 2023 will be listed as violations in the *Exit Interview/Summary* section below.

Since the CEMS requirement comes from the CD and not an NSPS rule, CCC is not required to submit 30-day RATA notifications as specified in § 60.7(a)(5). There are no notification requirements in the CD either. That being said, CCC does submit initial RATA notifications at least 30 days before a test. Reschedule notifications do not always appear to correspond to final test dates.

RATAs are required to be conducted every four calendar quarters per Appendix F, 5.1.1. The February 2025 RATA on CGEU1 was conducted one quarter late. The RATA was required to be conducted in Q4 of 2024. The initial notification had a planned test date during the week of October 14, 2024. CCC submitted three reschedule notifications, one with no explanation, one due to mechanical malfunction, and one due to inclement weather. The RATA was ultimately conducted on February 6-7, 2025. A statement provided in CD Progress Report #20 explained that [REDACTED]. The RATA was further delayed due to weather. The RATA was eventually conducted [REDACTED]. CEMS data provided, as discussed above in SC 1.EUG 5, indicated that the CEMS was operating sporadically throughout Q3 and Q4 of 2024.

The January 2026 RATA on CGEU2 was conducted one quarter late. The RATA was required to be conducted in Q4 of 2025. The initial notification has a planned test date during the week of November 17, 2025. One reschedule notification was submitted on November 14, 2025, with a planned date during the week of December 15, 2025. There were no subsequent reschedule notifications, and the RATA was ultimately conducted on January 13, 2026. These violations for two late RATAs will be listed in the *Exit Interview/Summary* section below.

RATA results are required to be submitted within 60 days of each evaluation per § 60.13(c)(2). The RATA results for the January 2026 tests were submitted timely in response

to a records request associated with PCE 63547 on March 12, 2026. The RATA results for the December 2024 and February 2025 tests were submitted upon request for this evaluation. Additionally, failure to provide these records in the SARs is a violation of Standard Condition III(C) of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4), which both list the requirement to maintain records of CEMS RATA tests in SC 18. Failure to timely submit the results of the RATA tests will be listed as a violation in the *Exit Interview/Summary* section below.

- e. Permittee shall conduct annual stack tests for PM. No two annual tests shall be conducted less than 11 months apart. The reference methods and procedures for performing PM stack tests and for determining compliance with the applicable PM 3-hour average emission limit shall be those specified in 40 CFR 60.8(f) and 40 CFR Part 60, Appendix A-3, Reference Method 5/5B. Each test shall consist of three separate runs performed under representative operating conditions, not including periods of startup, shutdown, or malfunction. The sampling time for each run shall be at least sixty (60) minutes and the minimum sample volume of each run shall be 30 ft<sup>3</sup> (dry volume, standard temperature basis).

CCC has not conducted a PM stack test since October 11-12, 2022. CCC stated that the annual stack test for 2026 has been scheduled. A violation for three missed annual stack tests on each CGEU will be listed in the *Exit Interview/Summary* section below.

- f. Compliance with the CO BACT limit shall be ensured by good combustion practice.

Mr. Curfman stated that the CGEUs are operated with good combustion practice.

**EUG 6: Dryer Firebox Stacks (N/C)**

| EU    | Point  | Name                   | Const. Date |
|-------|--------|------------------------|-------------|
| FS 11 | EPN 5  | Dryer 11 Firebox Stack | 1954        |
| FS 12 | EPN 8  | Dryer 12 Firebox Stack | 1954        |
| FS 21 | EPN 9  | Dryer 21 Firebox Stack | 1954        |
| FS 31 | EPN 12 | Dryer 31 Firebox Stack | 1959        |
| FS 32 | EPN 13 | Dryer 32 Firebox Stack | 1959        |
| FS 41 | EPN 21 | Dryer 41 Firebox Stack | 1991        |

| EU No. | Emissions Unit Name    | NO <sub>x</sub> |      | CO    |       | VOC   |       | PM/PM <sub>10</sub> /PM <sub>2.5</sub> |      |
|--------|------------------------|-----------------|------|-------|-------|-------|-------|--|------|
|        |                        | lb/hr           | TPY  | lb/hr | TPY   | lb/hr | TPY   | lb/hr                                  | TPY  |
| FS 11  | Dryer 11 Firebox Stack | 0.24            | 1.05 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04                                   | 0.16 |
| FS 12  | Dryer 12 Firebox Stack | 0.24            | 1.05 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04                                   | 0.16 |
| FS 21  | Dryer 21 Firebox Stack | 0.50            | 2.18 | <0.01 | <0.01 | <0.01 | <0.01 | 0.08                                   | 0.33 |
| FS 31  | Dryer 31 Firebox Stack | 0.28            | 1.23 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05                                   | 0.21 |

|       |                        |      |      |       |       |       |       |      |      |
|-------|------------------------|------|------|-------|-------|-------|-------|------|------|
| FS 32 | Dryer 32 Firebox Stack | 0.28 | 1.23 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | 0.21 |
| FS 41 | Dryer 41 Firebox Stack | 0.48 | 2.12 | <0.01 | <0.01 | 0.01  | 0.03  | 0.11 | 0.47 |

The 2022-2025 EIs were reviewed. The tables listed above are also listed in Permit No. 2004-302-C (M-4), SC 1, (issued November 30, 2018), though the limits are less restrictive here. Reported NOx and PM emissions were in exceedance of the above limits in 2025 and those of SC 1.EUG 6 of Permit No. 2004-302-C (M-4) in 2022, 2023, and 2024, with the exception of Dryer 11, 12, and 21 in 2025. VOC emissions from Dryer 41 were also in exceedance in 2022-2025. The table below summarizes the TPY emissions reported in the EIs. Emissions in tan are in exceedance of the 2018 and 2025 permit limits. This violation will be listed below in the *Exit Interview/Summary* section for this evaluation.

| Dryer 11 Firebox |            |            |      |      |      |      |
|------------------|------------|------------|------|------|------|------|
|                  | Limit 2018 | Limit 2025 | 2022 | 2023 | 2024 | 2025 |
| CO               | 0.0008     | <0.01      | 0.00 | 0.00 | 0.00 | 0.00 |
| NOx              | 1.05       | 1.05       | 1.80 | 1.70 | 1.56 | 0.58 |
| VOC              | 0.0037     | <0.01      | 0.01 | 0.01 | 0.01 | 0.00 |
| PM               | 0.16       | 0.16       | 0.27 | 0.26 | 0.24 | 0.09 |

| Dryer 12 Firebox |            |            |      |      |      |      |
|------------------|------------|------------|------|------|------|------|
|                  | Limit 2018 | Limit 2025 | 2022 | 2023 | 2024 | 2025 |
| CO               | 0.0008     | <0.01      | 0.00 | 0.00 | 0.00 | 0.00 |
| NOx              | 1.05       | 1.05       | 1.80 | 1.70 | 1.56 | 0.58 |
| VOC              | 0.0037     | <0.01      | 0.01 | 0.01 | 0.01 | 0.00 |
| PM               | 0.16       | 0.16       | 0.27 | 0.26 | 0.24 | 0.09 |

| Dryer 21 Firebox |            |            |      |      |      |      |
|------------------|------------|------------|------|------|------|------|
|                  | Limit 2018 | Limit 2025 | 2022 | 2023 | 2024 | 2025 |
| CO               | 0.0016     | <0.01      | 0.00 | 0.00 | 0.00 | 0.00 |
| NOx              | 2.18       | 2.18       | 3.40 | 2.74 | 2.54 | 1.96 |
| VOC              | 0.0077     | <0.01      | 0.01 | 0.01 | 0.01 | 0.01 |
| PM               | 0.33       | 0.33       | 0.52 | 0.42 | 0.39 | 0.30 |

| Dryer 31 Firebox |            |            |      |      |      |      |
|------------------|------------|------------|------|------|------|------|
|                  | Limit 2018 | Limit 2025 | 2022 | 2023 | 2024 | 2025 |
| CO               | 0.0008     | <0.01      | 0.00 | 0.00 | 0.00 | 0.00 |
| NOx              | 1.07       | 1.23       | 1.84 | 1.78 | 1.78 | 1.37 |
| VOC              | 0.0038     | <0.01      | 0.00 | 0.00 | 0.00 | 0.00 |
| PM               | 0.16       | 0.21       | 0.32 | 0.31 | 0.31 | 0.24 |

| Dryer 32 Firebox |            |            |      |      |      |      |
|------------------|------------|------------|------|------|------|------|
|                  | Limit 2018 | Limit 2025 | 2022 | 2023 | 2024 | 2025 |
| CO               | 0.0008     | <0.01      | 0.00 | 0.00 | 0.00 | 0.00 |
| NOx              | 1.07       | 1.23       | 1.84 | 1.78 | 1.78 | 1.37 |
| VOC              | 0.0038     | <0.01      | 0.00 | 0.00 | 0.00 | 0.00 |
| PM               | 0.16       | 0.21       | 0.32 | 0.31 | 0.31 | 0.24 |

| Dryer 41 Firebox |            |            |      |      |      |      |
|------------------|------------|------------|------|------|------|------|
|                  | Limit 2018 | Limit 2025 | 2022 | 2023 | 2024 | 2025 |
| CO               | 0.0016     | <0.01      | 0.00 | 0.00 | 0.00 | 0.00 |
| NOx              | 2.22       | 2.12       | 4.21 | 4.20 | 4.77 | 3.48 |
| VOC              | 0.0079     | 0.03       | 0.07 | 0.07 | 0.07 | 0.05 |
| PM               | 0.34       | 0.47       | 0.94 | 0.94 | 1.06 | 0.77 |

- a. All PM emissions from each dryer other than from the firebox shall be directed to the Exhaust Bag Filters for recovery of product. The exhaust bag filters shall not vent to the atmosphere and shall be directed to the outlet of the CGEU boiler outlets prior to the SCR.

**Mr. Curfman confirmed that all PM emissions from the dryers are directed to the Exhaust Bag Filters, which are directed to the CGEU boiler outlets prior to the SCR.**

**EUG 7:** Feedstock Oil Tanks are grandfathered. There is no lb/hr or TPY emission limits applied to these units under Title V but they are limited to the existing equipment as they are.

| <b>EU</b> | <b>Point</b> | <b>Contents</b>  | <b>Barrels</b> | <b>Gallons</b> |
|-----------|--------------|------------------|----------------|----------------|
| FS Tanks  | EPN #18a     | Carbon Black Oil | 5,000          | 210,000        |
|           | EPN #18b     | Carbon Black Oil | 5,000          | 210,000        |
|           | EPN #18c     | Carbon Black Oil | 5,000          | 210,000        |
|           | EPN #18d     | Carbon Black Oil | 65,000         | 2,730,000      |
|           | EPN #18e     | Carbon Black Oil | 500            | 21,000         |
|           | EPN #18e     | Carbon Black Oil | 500            | 21,000         |

**Emissions from the feedstock oil tanks were reported in the 2022-2024 EIs as required.**

**EUG 10:** Carbon Black Tanks

| <b>EU</b> | <b>Point</b>  | <b>Contents</b> |
|-----------|---------------|-----------------|
| CB Tanks  | TK 11         | Carbon Black    |
|           | TK 12         | Carbon Black    |
|           | TK 13         | Carbon Black    |
|           | TK 14-15      | Carbon Black    |
|           | TK 16-17      | Carbon Black    |
|           | TK 21-22      | Carbon Black    |
|           | TK 23         | Carbon Black    |
|           | TK 31         | Carbon Black    |
|           | TK 32         | Carbon Black    |
|           | TK 33-36      | Carbon Black    |
|           | TK 41-44, OQ4 | Carbon Black    |
|           | TK 45-49      | Carbon Black    |
|           | TK OQ1        | Carbon Black    |
|           | TK OQ2        | Carbon Black    |
|           | TK OQ3        | Carbon Black    |
|           | SB Tanks      | Carbon Black    |

**Emissions from the carbon black tanks were reported in the 2022-2024 EIs as required.**

- a. The carbon black tanks shall be controlled by either a fabric filtration device that is equipped with cartridge filters specified by their supplier to achieve PM collection efficiency at least 99%. Per the CD, Appendix A and Appendix D, the facility shall spend at least \$475,000 in project dollars for the purchase, installation, and use of continuous-duty, cartridge dust collector technology (“Dust Collectors”) to minimize PM emissions from the carbon black product storage tanks. The Dust Collectors shall replace existing bag

filters and shall include cartridge filters utilizing nanofiber technology to provide high removal efficiency of PM.

**CCC showed the inspectors the stored cartridge filters, which were labeled Donaldson Torit P032358-016-340, during the on-site inspection. Donaldson was contacted in order to obtain a spec sheet. Through email correspondence, Donaldson stated that the Ultra-Web Powercore filters are rated MERV 15, which reduces PM 2.5, capturing 85-90% of fine particulates (OID 6330576). Failure to comply with 99% collection efficiency will be listed as a violation in the *Exit Interview/Summary* section below.**

b. Permittee shall monitor the control device as specified in Specific Condition 13.

**See discussion under SC 13 below.**

2. Upon issuance of an operating permit, the facility shall be authorized to operate this facility continuously (24 hours per day, every day of the year). [OAC 252:100-8-6(a)(1)]

**Mr. Curfman stated that the facility operates continuously.**

3. Each boiler in EUG 1 shall have a permanent identification plate attached which shows the make, model number, and serial number. [OAC 252:100-45]

**The boilers were observed to be equipped with identification plates specifying the following:**

| EU ID     | Manufacturer | Model   | MMBTUH | SN    | Const. Date |
|-----------|--------------|---------|--------|-------|-------------|
| Boiler #1 | Superior     | 5-X-751 | 6.28   | 18066 | 2015        |
| Boiler #2 | Superior     | 5-X-751 | 6.28   | 17817 | 2015        |

**Note that the MMBTUH and SN listed for Boiler #1 were listed correctly in Permit No. 2017-0914-TVR2 but reverted to old numbers in Permit Nos. 2004-302-C (M-4) and 2017-0914-C (M-3). The numbers appear to be corrected in the draft for Permit No. 2023-0099-TVR3, which is currently in review; therefore, no further action is required.**

4. The carbon black reactors associated with Units No. 1, 2, and 3 shall be fired with pipeline grade natural gas or feedstock oil. The section of the carbon black reactor, associated with Unit No. 4, which is used to provide heat to the reactor to convert the feedstock into carbon black, shall be fired with pipeline-grade natural gas. All supplemental fuel supplied to the waste gas combustors and thermal oxidizers shall also be pipeline-grade natural gas. [OAC 252:100-31]

**Mr. Curfman stated that the equipment listed above is fired with pipeline grade natural gas purchased from Oklahoma Natural Gas. The most recent natural gas bill was provided upon request (OID 6329368, Folder #9).**

5. The bypass stacks on the MBF's and the Dryer firebox stacks shall be utilized only during heat load operation, transition, start-up, shut-down, and malfunction of the facility.

[OAC 252:100-8-6(a)(1)]

**CCC stated on-site and in a records request that there are no bypass stacks on the MBFs or dryer firebox stacks and that they would request to remove this condition in the next permit update.**

6. All off-gases from the carbon black reactors at the facility shall be oxidized in either the CGEUs and/or the waste gas combustors. The waste gas combustors may be taken off-line during normal operation, however, waste gas shall be routed to the CGEUs during these times.

[OAC 252:100-8-6(a)(1)]

**Mr. Curfman confirmed that all off-gases from the reactors are oxidized in either the CGEUs or the waste gas combustors. If the waste gas combustors are offline, there is no waste gas and the system cannot operate; therefore, waste gas is not routed to the CGEUs when the waste gas combustors are off-line.**

7. Total NO<sub>x</sub> emissions from heat load operation, startup, and shutdown from the reactors and boilers shall not exceed 50 tons for the prior 365 days. Permittee shall demonstrate compliance with this 365-day rolling sum emission limit by performing the following calculation for each day, summing as described, to derive cumulative NO<sub>x</sub> emissions in tons.

$$X = \sum_{i=1}^{365} \left[ \frac{\phi * consumption_i}{2000 \text{ lbs}} \right]$$

Where:

“X” = cumulative NO<sub>x</sub> emissions (tons) during preceding 365 days

“φ” = 0.48 lbs NO<sub>x</sub>/MMBtu

“i” = each Day in the preceding 365 Days

consumption<sub>i</sub> = the amount of energy input from natural gas and feedstock

(in MMBtu) to the Process System per Day for each Day *i* of Heat Load

Operation, Startup, or Shutdown. For any Day in which no Heat Load

Operation, Startup, or Shutdown occur, consumption<sub>i</sub> shall equal zero.

**As discussed above under SC 1.EUG 5, records of 365-day rolling sums of NO<sub>x</sub> emissions during heat load, startup, and shutdown for the period of August 2024 through January 2026 were requested. CCC provided a summary of monthly and annual NO<sub>x</sub> emissions for heat load (OID 6329368, Folder #8). The records provided are not 365-day rolling sums and do not appear to account for startup and shutdown. The records provided show 52.19 TPY in 2025 for all reactors from heat load. Compliance cannot entirely be determined due to a lack of records, but it appears the 50 TPY-limit was at minimum exceeded in 2025. These violations will be listed in the *Exit Interview/Summary* section below.**

8. The CGEUs shall be operated in conjunction with the reactors while the reactors are producing carbon black. This requires oil to be injected into the reactors. The CGEUs shall only be fueled with pipeline quality natural gas or waste gas from carbon black production for warm-up.

**Mr. Curfman stated that the CGEUs are operated in conjunction with the reactors while the reactors are producing carbon black, and the CGEUs are fueled only with pipeline quality natural gas or waste gas from the carbon black production for warm-up.**

9. The permittee shall maintain and operate the particulate monitoring/sensing devices installed on the exhaust stream associated with each of the facility's main bag filter:

- a. The permittee shall operate the particulate monitoring/sensing devices continuously except during periods of device unit shutdown, maintenance, calibration, testing, malfunction and/or failure. Individual monitoring/sensing devices shall not be required to be operated during periods when production within the identified unit is ceased (i.e., oil is not injected into the unit reactor). The continuous particulate monitoring/sensing devices shall be operated in the normal operating range recommended by the manufacturer or as agreed in writing per the CD.

**This condition references the "PM Early Warning System" as outlined in Appendix D of the CD. Mr. Curfman stated that the particulate monitoring/sensing devices on the MBFs are operated continuously except during periods of device unit shutdown, maintenance, calibration, testing, malfunction and/or failure. CCC stated that they operate the continuous particulate monitoring/sensing devices in the operating range recommended by the manufacturer.**

- b. If a continuous particulate monitoring/sensing device signals that there has been an exceedance of a defined particulate level, immediate action shall be taken to determine and isolate the source until repairs can be made.

**If a continuous particulate monitoring/sensing device signals that there has been an exceedance of [REDACTED], CCC stated that they take immediate action to isolate the source until repairs can be made. The PM early warning system is a CD-imposed requirement that is still being evaluated. Communication with EPA indicated that the PM Early Warning System is under review. DEQ will partner with EPA to further evaluate CD compliance, after which, stipulated penalties associated with any alleged CD violations may be assessed in a separate action.**

**CCC submits semiannual progress reports in order to demonstrate compliance with the CD. The reports include data related to each PM Early Warning System alarm event. See discussion of CD 5:15-cv-00290-F near the end of this evaluation below.**

- c. The permittee shall keep particulate monitoring/sensing device replacement parts on hand for any equipment failures.

**Replacement parts for the particulate monitoring/sensing devices were observed in a storage room during the inspection.**

- d. The permittee shall keep and maintain the Baghouse Recordkeeping Plan for each of the MBFs.
  - (1). Identity of the baghouse (by production unit and type),
  - (2). Date(s) on which maintenance is performed, type of maintenance, and
  - (3). Disposal used bagfilters to a licensed landfill.

**The Baghouse Recordkeeping plan was requested. In response, CCC provided the facility's housekeeping plan regarding cleaning up leaks and spills, which also included the Best Management Practices Plan that is listed in SC 11.a of Permit No. 2017-0914-C (M-3) below. Records of dates of bag replacements were also provided (OID 6329368, Folder #11, Bag Filter Records). Failure to provide these records in the SARs is a violation of Standard Condition III(C) of Permit Nos. 2017-0914-C (M-3) and Permit No. 2004-302-C (M-4), which both list the requirement to maintain records required by SC 9 in SC 18. This will be listed in the *Exit Interview/Summary* section below.**

**The records do not include information regarding how and where used bag filters are disposed. A violation for failing to provide this record will be listed as a violation in the *Exit Interview/Summary* section below.**

10. All air discharges from the bagging operation, screening operation, and associated conveying equipment shall be processed by a baghouse or an equivalent PM emissions control device with a design efficiency of 99% or more. The permittee shall maintain accessible monitoring equipment to verify the pressure drop across the baghouse. [OAC 252:100-8-6(a)(3)(A&B)]

**Mr. Curfman confirmed that all air discharges from the bagging operation, screening operation, and associated conveying equipment is processed by a baghouse with a design efficiency of 99% or more. CCC stated that their filters are provided by Cleanova Micronics. Through email correspondence, Cleanova provided an efficiency statement for the filters used for pulse jet and reverse air baghouses at CBPF (OID 6330576). Cleanova's ePTFE filters have 99.999% removal efficiency of PM 2.5, and their filters without ePTFE have 99.9% removal efficiency at one micron or larger. CCC appears to be in compliance with the baghouse design efficiency required by this SC.**

**The pressure drop across the baghouses is monitored digitally from the control room, and an alarm alerts personnel of pressure issues. The system was observed during the inspection.**

11. The permittee shall take all reasonable precautions to minimize emissions of fugitive dust and prevent visible fugitive dust emissions from crossing the boundary of the property on which those emissions originated. These actions shall include, but not be limited to: [OAC 252:100-29]

- a. Implement the Particulate Emissions Best Management Practices Control Plan in accordance with Consent Decree 5:15-cv-00290-F, dated May 7, 2015.
  - (1). All operations and maintenance personnel shall be trained to both recognize leaks and spills of carbon black, and to report them to the proper plant

personnel for response. Visual observation of the physical condition of plant process equipment that conveys, stores, loads, unloads, and packages carbon black, including at connection points between equipment and/or sections of piping, and of the physical condition of containers and bags used to package carbon black, shall be part of the daily responsibilities of the operations and maintenance personnel to help ensure that potential leaks are addressed before they occur.

**Mr. Curfman stated that operations and maintenance personnel conduct daily checks of all process equipment to prevent carbon black leaks.**

- (2). All carbon black product shall be stored in tanks, silos, or closed bags. No carbon black product shall be stored in open piles.

**Mr. Curfman stated that all carbon black is stored in tanks, silos, or closed bags. There were a couple of torn open bags observed during the inspection in the afternoon. Mr. Curfman stated that he had just been notified that they had just recently fallen off of a pallet.**

- (3). All product and off-quality carbon black shall be shipped off-site in closed bags, sealed cardboard boxes (or landfill), or sealed rail cars, hoppers, or bulk transport trucks.

**Mr. Curfman confirmed that all carbon black is shipped in closed bags and sealed cardboard boxes or sealed in rail cars, hoppers, or bulk transport trucks.**

- (4). All process equipment at the facility shall be designed, operated, and maintained in a manner intended to minimize leaks and spills of carbon black and fugitive particulate emissions. In addition, the facility shall develop and implement practices to collect carbon black dust otherwise emitted from product conveyance, packaging, and storage operations, and either recycle it back into the manufacturing process or convey it to a packaging system. Where practicable, the operation of such equipment, including carbon black product conveyors, elevators, and packing units, shall be conducted under negative pressure and served by vacuum systems that collect carbon black.

**Mr. Curfman confirmed that all process equipment is designed, operated, and maintained in a manner to minimize leaks and spills of carbon black and fugitive particulate emissions. Practices used to collect carbon black dust include running two sweepers daily, using sprinklers for fugitive dust, and using a water hose for washing down equipment. One sprinkler was observed to be operating during the inspection. Mr. Curfman stated that operation of equipment is conducted under negative pressure and served by vacuum systems that collect carbon black.**

- (5). All process equipment shall be located either indoors or in outdoor areas that have paved or rock/gravel ground surfaces.

**All process equipment was observed to be located indoors or in outdoor areas with paved or rock/gravel ground surfaces.**

- (6). Events that trigger the PM Early Warning system shall be handled pursuant to the protocol in appendix D of the consent decree. Leaks and spills of all carbon black that are otherwise identified shall be investigated and addressed (cleaned up and repaired) either immediately upon discovery or as quickly as practicable. When immediate repair or isolation is not feasible, the actions taken to complete the repair shall be documented. Incident reports for spills or leaks of carbon black shall be created to document cause and corrective actions.

**Mr. Curfman stated that all leaks and spills of carbon black are investigated and addressed immediately or as quickly as practicable. Records of incident reports for the past two years were requested. In response, CCC provided Method 9 and Method 22 reports and stated they believe this condition is in reference to the PM Early Warning System (OID 6329368, Folder #12, ODEQ Records Request #2). Since the SC references leaks and spills that are “otherwise identified,” records of all leaks and spills at the facility should be documented.**

**CCC stated that there were no incidents that caused a spill or leak of carbon black which needed to be cleaned up. However, while on-site during Complaint PCE 63547 on February 25, 2026, DEQ observed an area east of Production Unit 4 that had stored off spec material with broken bags. The wet sprinklers were running on these piles. During the afternoon on-site inspection on April 16, 2026, DEQ observed a broken bag that had fallen off a pallet that was not present during the morning walk-through. DEQ believes these observations qualify as spills that should be documented in incident reports per this SC. Failure to maintain these records will be listed as a violation in the *Exit Interview/Summary* section below.**

- (7). Special precautions shall be taken during maintenance actions to minimize particulate emissions from the equipment on which maintenance is being performed. Prior to conducting maintenance or baghouse bag replacement on equipment that is prone to accumulation of carbon black on its interior surfaces, including, but not limited to, on the Main Bag Filters, elevators, and conveyors, and storage tanks and silos, the responsible maintenance personnel shall identify and take steps necessary to minimize the generation of particulate emissions at the equipment being maintained during the maintenance or bag replacement activity. The specific approaches taken to minimize particulate emissions during maintenance or bag replacement shall be developed on a case-specific basis based on the judgment of the

maintenance personnel and shall include, as relevant, but need not be limited to, activities such as the following:

- Vacuuming carbon black from the equipment prior to beginning the maintenance,
- Vacuuming or washing down the equipment when an appropriate stage in the maintenance activity has been reached,
- If units are equipped with vents, closing vents during maintenance to prevent drafting of PM, except when conducting a safety or hazard analysis and concluding in writing that closing the vent would create an unsafe or unhealthy work atmosphere, and
- Sealing filter bags removed from Main Bag Filters inside plastic bags.

**Mr. Curfman stated that maintenance personnel vacuums equipment prior to beginning maintenance and during maintenance activities. Vents are closed during maintenance when appropriate, and filter bags removed from the MBFs are sealed inside plastic bags.**

- (8). Accessible floor and/or grounds surfaces in the carbon black production areas shall be swept or washed as needed in order to minimize particulate emissions attributable to leaks or spills of carbon black that are not otherwise identified and/or addressed during the daily visual assessments. All material collected through these actions shall either be incorporated into the production process, or used as product of commercial distribution, or properly disposed of in accordance with applicable regulatory standards.

**Mr. Curfman stated that floor and ground surfaces are swept and washed as needed.**

- b. Conduct product loading operations in such a manner so as to minimize, to the extent possible, any fugitive emissions of carbon black.

**Mr. Curfman confirmed that product loading operations are conducted so as to minimize fugitive emissions.**

- c. Maintain a routine inspection program whereby all high speed processing equipment, including all large blowers, within the facility are inspected and lubricated according to a schedule of inspection.

**Mr. Curfman stated that CCC has a routine inspection program whereby all high-speed processing equipment is inspected and lubricated.**

12. The permittee shall install and continuously operate a PM Early Warning System to monitor the PM emitted from each PM monitor point in accordance with Appendix A of this permit.

**See discussion under Appendix A below.**

13. For each of the following PM emission units listed in the table below, the permittee shall conduct a Method 22 visual assessment once each operating day to determine if there are any detectable visible emissions.

| <b>Emission Unit Group</b> | <b>Name</b>  |
|----------------------------|--|
| EUG 2                      | Main Bag Filters                                   |
| EUG 6                      | Carbon Black Pellet Dryers                         |
| EUG 8                      | Reactors   |
| EUG 10                     | Carbon Black Product Storage Tanks, Silos, or Bins |

- a. In the event that any visible emissions are observed, permittee shall identify, address, and resolve the source of visible emissions as expeditiously as practicable.
- b. If the visible emissions event occurs after the date of continuous operation of the PM early warning system, the event shall be considered resolved once the PM early warning system alarm is below the action level.
- c. If the visible emissions event is not resolved within 24 hours, once visibility conditions are sufficient for a Method 9 observation, permittee shall conduct a six minute observation in accordance with Method 9 at least once every eight (8) hours (during daylight hours), until visible emissions from the PM emission unit that triggered the event are less than 5% over the six minute average.
- d. Permittee shall maintain a record of each visual assessment conducted.

**Records of daily Method 22 assessments were requested. The records provided (OID 6329368, Folder #13) indicate assessments occur at “Shipping Location 4-5” on non-holiday weekdays and at “Production Locations 1 2 3” on most days. It is unclear from these records if all the equipment listed above is included in these areas. The records also only indicate that the assessment was “completed.” There is no information regarding findings of any emissions. The records also indicate several days when no assessment was conducted or only a portion of the Production Locations (1, 2, or 3) were assessed. Based on the records provided, it appears that CCC does not conduct daily Method 22 assessments consistently on all required equipment, and the records appear incomplete regarding findings. These violations will be listed in the *Exit Interview/Summary* section below.**

**Failure to provide these records in the SARs is a violation of Standard Condition III(C) of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4), which both list the requirement to maintain records required by SC 13 in SC 18. This will be listed in the *Exit Interview/Summary* section below.**

**Ms. Alexander stated that CCC complies with the requirements of SC 13.c as described above. Since the Method 22 records do not contain findings, compliance cannot be determined with SC 13 c. Records of seven Method 9 events were provided (OID 6329368, Folder #13), but it cannot be confirmed if other Method 9s were required to be conducted. This violation will be listed in the *Exit Interview/Summary* section below.**

14. The permittee shall comply with all applicable requirements of the NESHAP (40 CFR Part 63) Subpart YY including but not limited to: [40 CFR §§63.1100 through 63.1114]

**§ 63.1100:** Per Table 1, CCC's only affected points are process vents.

**§ 63.1103:** CCC is subject to the carbon black production standards and applicability for existing sources as listed in Table 8 of Subpart YY (§ 63.1103(f)(3)(i)). The control standards are only applicable to carbon black production main unit filter process vents. CCC is not required to perform applicability tests or other applicability assessment procedures specified in § 63.1104 if they opt to comply with the most stringent requirements for an applicable emission point pursuant to this Subpart. Table 8 lists the following requirements:

- i. Reduce emissions of HAP by using a flare meeting the requirements of NESHAP Subpart SS; or
- ii. Reduce emissions of total HAP by 98 wt% or to a concentration of 20 ppmv, whichever is less stringent, by venting emissions through a CVS to any combination of control devices meeting the requirements of § 63.982(a)(2).

CCC currently reduces total HAP emissions by 98 wt% by venting the emissions from the main unit filter process vents through a CVS to the waste gas combustors or the CGEUs, which meets the requirements of § 63.982(a)(2) and is the most stringent option. See discussion under NESHAP Subpart SS in the *State/Federal Regulatory Applicability* section above.

**§ 63.1108:** Performance testing of CBPF's thermal oxidizers was conducted in 2004 as required by Permit No. 98-176-TV (M-2). The results indicated that emissions of H<sub>2</sub>S, COS, CS<sub>2</sub>, and non-methane hydrocarbons were below 20 ppmv. The CGEUs operate in the same temperature range as the thermal oxidizers; therefore, the switch to the CGEUs should provide the same level or greater control of HAP emissions.

**§ 63.1110:** The Notifications of Initial Startup and Compliance Status were discussed in previous FCEs. Per § 63.1110(e)(2), periodic reports are due no later than 60 days after the end of each 6-month period. CCC has aligned the timing of submittals to be on the same schedule as the Title V periodic report (SARs) in compliance with § 63.1110(h). Per § 63.1110(e)(1), the reports shall include all information specified in Subpart YY and subparts referenced by this Subpart, which includes Subpart SS.

CCC's periodic reports previously included information specified in § 63.1111 for SSM. Per § 63.1111(a), (b), and (c), the SSM requirements no longer apply to carbon black production affected sources after May 18, 2022. Therefore, the only reporting required is that which is listed in § 63.999 of Subpart SS. See discussion under NESHAP Subpart SS in the *State/Federal Regulatory Applicability* section above.

15. The permittee shall comply with all applicable requirements of the NESHAP (40 CFR Part 63) for Stationary Reciprocating Internal Combustion Engines (RICE), Subpart ZZZZ, for each affected engine, including but not limited to: [40 CFR §§63.6580 through 63.6675]

**Unit 1&2, Unit 3, and Unit 4 are three existing emergency stationary RICE subject to the requirements of Table 2c of this Subpart, which are as follows:**

- **Change oil and filter every 500 hours of operation or within 1 year + 30 days, whichever comes first.**
- **Inspect spark plugs every 1,000 hours of operation within 1 year + 30 days, whichever comes first.**
- **Inspect all hoses and belts every 500 hours of operation or within 1 year + 30 days, whichever comes first.**

**Maintenance inspection records were included in the February 2025 SAR for Unit 1 & 2 (SN 2079790), Unit 4 (SN 2083539) and Unit 3 (SN 9120059) for a maintenance event that occurred on November 8, 2024. It should be noted that the SN for Unit 3 is listed as 2077604 in the permit memo of Permit No. 2017-0914-C (M-3). The maintenance records for Unit 3 alternate between SN 9120059 and SN 2077604. DEQ requests consistency in records and permitting in order to better track maintenance of Unit 3. This will be listed as an AOC in the *Exit Interview/Summary* section below.**

**Additional maintenance records were provided upon request (OID 6329368, Folder #14c). Failure to provide all maintenance records in the SARs is a violation of Standard Condition III(C) of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4), which both list the requirement to maintain records required by NESHAP Subpart ZZZZ in SC 18, and Permit No. 2017-0914-TVR2, which lists the same requirement in SC 16. This will be listed in the *Exit Interview/Summary* section below.**

**The table below summarizes maintenance events that specified that spark plugs, hoses/belts, and or oil/oil filters were inspected or changed. Several other reports were submitted but did not specify type of maintenance.**

| <b>Date of Maintenance</b> | <b>Unit</b> | <b>Spark Plugs</b> | <b>Hoses/ Belts</b> | <b>Oil/ Oil Filter</b> | <b>Unit Hours</b> |
|----------------------------|-------------|--------------------|---------------------|------------------------|-------------------|
| *8/8/2023                  | Unit 1 & 2  | yes                | yes                 | no                     | 743.5             |
| 11/8/2024                  |             | no                 | yes                 | no                     | 762.6             |
| 6/18/2025                  |             | no                 | no                  | yes                    | NA                |
| 8/6/2025                   |             | yes                | yes                 | no                     | NA                |
| 11/20/2025                 |             | yes                | yes                 | no                     | 826.0             |
| 11/8/2024                  | Unit 3      | no                 | yes                 | no                     | 542.5             |
| 6/18/2025                  |             | no                 | no                  | yes                    | NA                |

|            |        |     |     |     |       |
|------------|--------|-----|-----|-----|-------|
| *8/8/2023  | Unit 4 | yes | yes | no  | 640.6 |
| 11/8/2024  |        | no  | yes | no  | 665.1 |
| 2/6/2025   |        | yes | yes | no  | 670.3 |
| 5/15/2025  |        | yes | yes | yes | 675.7 |
| 6/18/2025  |        | no  | no  | yes | NA    |
| 11/20/2025 |        | yes | yes | no  | 698.6 |

\*Records from previous FCE

Since the generators do not operate more than the 500/1000 hour limits of Subpart ZZZZ, CCC is required to conduct maintenance within 1 year + 30 days of the previous maintenance activity. Based on records provided for this FCE and the previous FCE, it appears that the following violations occurred:

- **Spark Plugs Inspections**
  - More than 1 year + 30 days passed between spark plugs inspections on Unit1 &2 (8/8/2023 to 8/6/2025).
  - There are no records of spark plugs inspections on Unit 3.
  - More than 1 year + 30 days passed between spark plugs inspections on Unit 4 (8/8/2023 to 2/6/2025).
- **Hoses/Belts Inspections**
  - More than 1 year + 30 days passed between hoses/belts inspections on Unit1 &2 and Unit 4 (8/8/2023 to 11/8/2024).
  - More than 1 year + 30 days passed between hoses/belts inspections on Unit 3 (no records identified during the period reviewed prior to 11/8/2024 inspection).
- **Oil/Oil Filter Changes**
  - More than 1 year + 30 days passed between oil and oil filter changes on Unit 1&2 and Unit 3 (no records identified during the period reviewed prior to 6/18/2025 changes).
  - More than 1 year + 30 days passed between oil and oil filter changes on Unit 4 (no records identified during the period reviewed prior to 5/15/2025 changes).

These violations of § 63.6640(a) and Table 2c will be listed in the *Exit Interview/Summary* section below.

Mr. Curfman stated that the emergency generators are equipped with non-resettable hour meters in compliance with § 63.6625(f). In order for the generators to be considered emergency stationary RICE under this Subpart, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, is prohibited per § 63.6640(f). Additionally, the generator may be operated for a maximum of 100 hours per calendar year for maintenance checks and readiness testing.

Records of total operating hours were included with the August 2025 SAR, but not with the February 2025 or February 2026 SAR. Failure to provide these records in the SARs is a

violation of Standard Condition III(C) of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4), which both list the requirement to maintain records required by NESHAP Subpart ZZZZ in SC 18, and Permit No. 2017-0914-TVR2, which lists the same requirement in SC 16. This will be listed in the *Exit Interview/Summary* section below. Records were provided upon request (OID 6329368, Folder #14d, Request No. 1c).

Records showing a breakdown of emergency generator usage going back to 2022 were requested, including the purpose of operation (emergency, maintenance and testing, non-emergency). It is unclear from the records provided what the breakdown of operating hours is, though the descriptions appear to be for maintenance checks and readiness testing. Unit 2 operated 168 hours in 2023, which would be in exceedance of the 100 hour-limit for maintenance checks and readiness testing. Compliance with the limits of § 63.6640(f) cannot be determined. This violation will be listed in the *Exit Interview/Summary* section below.

16. The permittee shall comply with all applicable requirements of the NESHAP (40 CFR Part 63) for Industrial, Commercial and Institutional Boilers and Process Heaters, Subpart DDDDD, for each affected boiler, including but not limited to: [40 CFR 63.7480 through 63.7575]

CBPF is a major source of HAPs, and Boilers #1 and #2 meet the definition of units designed to burn gas 1 subcategory with a heat input capacity greater than 5 MMBTUH and less than 10 MMBTUH. The boilers are therefore subject to this Subpart.

Boiler #1 has an initial startup date of January 5, 2016, and Boiler #2 has an initial startup date of March 30, 2015. CCC is required to conduct tune-ups on Boilers #1 and #2 every two years per §§ 63.7500(e), 63.7515(d), and 63.7540(a)(11). Each biennial tune-up must be conducted no more than 25 months after the previous tune-up per § 63.7515(d). Per § 63.7540(a)(10)(i), the burner must also be inspected any time prior to the tune-up, or it may be delayed until the next scheduled unit shutdown.

Per § 63.7550(b)(1) and (2), biennial compliance reports are required to be submitted by January 31, covering 24 months, with a reporting period of January 1 through December 31. The reports should include the information listed in § 63.7550(c)(5)(i)-(iii), (xiv), and (xvii). Violations were issued with the previous three FCEs for failing to submit biennial compliance reports. During the period reviewed for this evaluation, one report should have been submitted for the period of January 1, 2024, to December 31, 2025, by January 31, 2026. Failure to submit the biennial report will be listed as a violation in the *Exit Interview/Summary* section below.

This violation was submitted in a Self-Disclosure on May 21, 2026 (Enforcement Case 14271); however, the case was closed in order to address the violation in this inspection report. The disclosure acknowledged a failure to submit the biennial compliance reports that were due on January 31, 2024, and on January 31, 2026. It should be noted that a violation was already issued in FCE 10414 (Enforcement Case 13265) for failure to submit the 2024 biennial report. A records request for the current FCE was sent to CCC on April 20, 2026. The request asked for the most recent biennial report as it was unable to be located in DEQ's

records or in CEDRI. CCC’s self-disclosure was not submitted until one month later. Additionally, this violation is a recurring noncompliance issue as it has been issued in the last three FCEs conducted at CBPF (FCE 9056 in 2020, FCE 9404 in 2021, and FCE 10414 to 2024). Since this violation was already identified by DEQ and the issue is recurring, CCC did not meet the requirements of OAC 252:4-9-5 and all eight of the necessary criteria for full credit for mitigation of penalties.

The table below summarizes the last three biennial compliance reports.

| OID / *CEDRI CROMERR Doc ID           | Reporting Period       | Date Received               | Report On Time? | EU ID     | Frequency     | Last Tune-Up & Boiler Inspection | Tune-up On Time?  |
|---------------------------------------|------------------------|-----------------------------|-----------------|-----------|---------------|----------------------------------|-------------------|
| *13cd0944-6d9e-42a4-ac38-fe4cacce637e | 1/1/2019 to 12/31/2021 | 4/20/2022                   | no              | Boiler #1 | every 2 years | 1/27/2022                        | yes               |
|                                       |                        |                             |                 | Boiler #2 | every 2 years | 1/27/2022                        |                   |
| Not submitted                         | 1/1/2022 to 12/31/2023 | Not submitted               | no              | Boiler #1 | every 2 years | Feb 2024 per FCE 10414           | yes per FCE 10414 |
|                                       |                        |                             |                 | Boiler #2 | every 2 years | Feb 2024 per FCE 10414           |                   |
| 6311614                               | 1/1/2024 to 12/31/2025 | 5/21/2026 (Self-Disclosure) | no              | Boiler #1 | every 2 years | 11/11/2024                       | cannot determine  |
|                                       |                        |                             |                 | Boiler #2 | every 2 years | 11/11/2024                       |                   |

A biennial compliance report was attached to the Self-Disclosure and listed a tune-up date of November 11, 2024, for both boilers. Records of the last two biennial tune-ups and burner inspections were requested. The records provided (OID 6329368, Folder #15) show maintenance reports for what appear to be repairs covering November 11 to December 18, 2024, for the north boiler (Boiler #1) and August 28, 2024, to October 9, 2024, for the south boiler (Boiler #2). Additional maintenance/repair reports were provided for April 7, 2026, for Boiler #1, and for February 16, 2026, for Boiler #2. Based on records provided, November 11, 2024, is not the tune-up date for both boilers and should not have been listed in the biennial report as such. Failure to accurately report tune-up dates in the biennial report will be listed as a violation in the *Exit Interview/Summary* section below.

Additionally, it cannot be determined that the tune-up and burner inspection requirements of § 63.7540(a)(10)(i) through (iv) were followed. The records provided appear to be service calls due to repair requirements. Following the February 2024 tune-ups cited by FCE 10414, subsequent tune-ups were required by the end of March 2026. Since compliance cannot be determined, a violation will be listed in the *Exit Interview/Summary* section below.

17. To demonstrate compliance with OAC 252:100-31-7(b), emissions of H<sub>2</sub>S from the main bagfilters during transition periods shall not exceed 2,205.15 lb/24 hr rolling period. The Permittee shall demonstrate compliance by:

- a. Either showing less than 8 transition events for all reactors in a 24-hour period at no greater than 4% sulfur content of the feedstock or by preparing daily calculations of H<sub>2</sub>S emissions

based on actual number and duration of transition events occurred, actual sulfur content, and amount of oil fed to the reactors, assuming 70% sulfur becomes H<sub>2</sub>S (based on previous stack test data showing 25-40% sulfur retention and industry standard).

- b. Analyzing sulfur content of feedstock oils being processed at least once during every operating week (exclusive of analysis on holidays and weekends) day in which oil is received (within 24-hours of receipt). If the pipeline is operating and plant receiving oil from Phillips, or if vendor oil trucks make delivery over the weekend, oil sampling shall be required within 24-hours of receipt.

**CCC provided reports of transition events (labeled WEG [year]) in the February 2025 and February 2026 SARs (OIDs 5971801, 6250491). The report was not included with the August 2025 SAR; however, per the WEG report submitted with the February 2026 SAR, there were several transition events to report during the period covered by the August 2025 SAR. Additionally, reports for January 2026 were not included in the February 2026 SAR. Additional records were provided upon request (OID 6329368, Folder 7.SC1.EUG 28.b and c). Failure to provide these records in all SARs is a violation of Standard Condition III(C) of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4), which both list the requirement to maintain records of transition events in SC 18. This will be listed in the *Exit Interview/Summary* section below.**

**Based on the WEG reports, there are numerous instances of more than 8 transition events in a 24-hour period; however, the sulfur content of the feedstock at the time of each event is listed as less than 4%. Therefore, there is no violation.**

**CCC also provides reports of daily and weekly analyses of sulfur content of feedstock, which are labeled Sulfur [year] and [year] %S – Feedstock & Product, respectively, in the SARs (OIDs 5971801, 6115819, 6250491). All three submittals of Sulfur [year] only include results [REDACTED]. The missing records were provided upon request (OID 6329368, Folder #16); however, they do not match the [REDACTED] data originally submitted, nor do daily totals align with the weekly totals listed in the weekly reports. Failure to provide these records in all SARs is a violation of Standard Condition III(C) of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4), which both list the requirement to maintain records of fuel sulfur content of all feedstock required by SC 17 in SC 18. This will be listed in the *Exit Interview/Summary* section below. The data provided show sulfur content of the feedstock is less than 4% as required. It appears that CCC analyzes sulfur content frequently; however, there is not a requirement to maintain records of when oil is received. Therefore, it cannot be determined if analyses were conducted within 24 hours of receipt.**

18. The permittee shall maintain records of operations as listed below. These records shall be maintained on-site or at a local field office for at least five years after the date of recording and shall be provided to regulatory personnel upon request. [OAC 252:100-8-6 (a)(3)(B)]

- a. Operation and maintenance of the CGEUs.

**These records were requested; however, the records provided are invoices for parts purchased and maintenance conducted on the CEMS by CEMTEK (OID 6329368, Folder #17). This record should include operating hours and records of maintenance conducted on the CGEUs. Failure to provide this record is a violation and will be listed in the *Exit Interview/Summary* section below. Additionally, failure to provide these records in the SARs is a violation of Standard Condition III(C) of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4),**

- b. Records of oil feed to all units and fuel sulfur content of all feedstock required by Specific Condition No. 17.

**See SC 17 of Permit No. 2017-0914-C (M-3) above. Records of oil feed are included in the SARs and labeled as [year] Feedstock – 12 mo. Rolling (OIDs 5971801, 6115819, 6250491). Many of the records, including this one, do not specify units for the data provided. Mr. Curfman stated during the on-site inspection that the units for this record are gal/hr. DEQ requests that all records provided are appropriately labeled with units. This will be listed as an AOC in the *Exit Interview/Summary* section below. Fuel sulfur content is included in the SARs as [year] %S – Feedstock & Product (OIDs 5971801, 6115819, 6250491).**

- c. Total natural gas usage for each boiler (natural gas consumed is metered and stored on Data Historian, hours are monitored and third-party services the boilers).

**Records of natural gas usage for the boilers is included in the SARs and labeled as Plant Boiler NG Usage [year] (OIDs 5971801, 6115819, 6250491). The data provided in the SARs lists total hours and weeks of operation per month for each boiler. Records showing natural gas usage by volume were requested, but the same records that were in the SARs were provided (OID 6329368, Folder #18). Failure to provide records of natural gas usage will be listed as a violation in the *Exit Interview/Summary* section below.**

- d. Total amount of Carbon Black Oil used (monthly and 12 month rolling total).

**Records of oil feed (monthly and 12-month rolling totals) are included in the SARs and labeled as [year] Feedstock – 12 mo. Rolling (OIDs 5971801, 6115819, 6250491). See discussion regarding this record above under SC 18.b.**

- e. Records required by NESHAP Subparts YY, DDDDD, and ZZZZ.

**See SCs 14-16 of Permit No. 2017-0914-C (M-3) above.**

- f. Records required by Specific Conditions No. 9, 11, and 13.

**See SCs 9, 11, and 13 of Permit No. 2017-0914-C (M-3) above.**

- g. Records of transition events for production units including duration of each transition event and the total number of transition events in any 12 months.

**See SCs 1.EUG 2/8.c and 17 of Permit No. 2017-0914 (M-3) above. The total number of transition events in any 12 months (or 12-month rolling totals) are not included in the SARs. This portion of this SC was added with the issuance of Permit No. 2017-0914 (M-3) in August 2025. Therefore, it should have been included in the February 2026 SAR. This is a violation of Standard Condition III(C) and will be listed in the *Exit Interview/Summary* section below.**

h. Records of NO<sub>x</sub> and SO<sub>2</sub> CEMS data.

**See SC 1.EUG 5 of Permit No. 2017-0914-C (M-3) above.**

i. Records of CEMS RATA tests data.

**See SC 1.EUG 5.d of Permit No. 2017-0914-C (M-3) above.**

j. Records of annual stack test data.

**As discussed above under SC 1.EUG 5.e, CCC has not conducted a PM stack test since October 11-12, 2022.**

k. Records as required by Appendix A of this permit.

**See Appendix A of Permit No. 2017-0914-C (M-3) below.**

l. Records of monitored operating parameters as specified in Appendix B of this permit.

**See SC 1.EUG 5.b and c above.**

19. The following records shall be maintained on-site to verify Insignificant Activities. No recordkeeping is required for those operations which qualify as Trivial Activities.

[OAC 252:100-8-6 (a)(3)(B)]

- a. Receipts for fuel storage/dispensing equipment operated solely for facility owned vehicles: Records of the type and amount of fuel dispensed (annual) via purchasing records as dispensing stations do not have flow meters.

**CCC submits records in the SARs labeled [year] Gas & Diesel Usage Report (OIDs 5971801, 6115819, 6250491). The records are PDFs converted from spreadsheets, though columns and rows are not fully labeled and the document is difficult to understand. During the on-site inspection, Ms. Alexander explained that the columns of numbers under each month are separate purchases. Additionally, there are, again, no units listed for the data. Mr. Curfman stated that the units for the records are gallons. As discussed above, DEQ requests that all records provided are appropriately labeled with units, and columns and rows of data are clearly labeled. This will be listed as an AOC in the *Exit Interview/Summary* section below.**

- b. For fluid storage tanks with a capacity of less than 39,894 gallons and a true vapor pressure less than 1.5 psia: Records of the capacity of the tanks and the contents.

**These records were provided upon request (OID 6329368, #19 – Insignificant Activities).**

- c. For activities (except for trivial activities) that have the potential to emit less than 5 TPY (actual) of any criteria pollutant: The type of activity and the amount of emissions or a surrogate measure of the activity (annual).

**In a records request, CCC stated that there were no other activities at CBPF that had the potential to emit less than 5 TPY from August 2024 through January 2026.**

20. Notwithstanding the issuance date of the original Title V permit (April 21, 2000), there is hereby established an alternative date of July 31st for Annual Compliance Certification and Semi-annual Reporting submittal purposes. Pursuant to such alternative date, the permittee shall submit to the Air Quality Division of DEQ, with a copy to the US EPA, Region 6, a certification of compliance with the terms and conditions of this permit no later than 30 days after July 31st of each year. [OAC 252:100-8-6 (c)(5)(A) & (D)]

**See *Annual Compliance Certifications/Semiannual Reports* section above.**

21. No later than 30 days after each six (6) month period, after the alternative date of July 31<sup>st</sup>, the permittee shall submit to AQD a report of the results of any required monitoring. All instances of deviations from permit requirements since the previous report shall be clearly identified in the report. Permittee shall assure that no semi-annual report is filed longer than 6 months.

[OAC 252:100-8-6 (a)(3)(C)(i) and (ii)]

**See *Annual Compliance Certifications/Semiannual Reports* section above.**

22. No later than 180 days after initial startup of the proposed project (complete by April 1, 2021), the permittee shall conduct initial performance test(s) and submit a written report of the results to the AQD.

- a. Performance testing by the permittee shall use the following test methods specified in 40 CFR Part 60.
  - Method 1: Sample and Velocity Traverses for Stationary Sources.
  - Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate.
  - Method 3: Gas Analysis for Carbon Dioxide, Excess Air, and Dry Molecular Weight.
  - Method 4: Determination of Moisture in Stack Gases.
  - Method 5/5B: Determination of PM Emissions from Stationary Sources.
  - Method 6C: Determination of SO<sub>2</sub> Emissions from Stationary Sources.
  - Method 7E: Determination of NO<sub>x</sub> Emissions from Stationary Sources.
  - Method 10: Determination of CO Emissions from Stationary Sources.
- b. A copy of the test plan shall be provided to AQD at least 30 days prior to each test date.

- c. Performance testing shall be conducted while each reactor is operating within 10% of the rate at which operating permit authorization will be sought.

**Initial performance tests were reviewed in FCE 10414.**

23. The permittee shall submit a request for modification of the current Title V operating permit application within 180 days of issuance of this permit.

**CCC had not requested a modification of Permit No. 2017-0914-TVR2 at the time of the inspection and was notified of the violation during the on-site inspection. This violation will be listed in the *Exit Interview/Summary* section below. CCC subsequently submitted a modification request on May 4, 2025 (OID 6296064); therefore, no further action is required.**

24. Compliance Assurance Monitoring (CAM) Requirements and Specifications for the tunnel kiln EU-04 are as follows: [40 CFR Part 64]  
**This condition should refer to the CGEUs, EPN 40 and 41, not the tunnel kiln, EU-04. This should be corrected in the next permit update and will be listed as an AOC in the *Exit Interview/Summary* section below.**

**Monitoring Requirements for the CGEUs**

|                                 | <b>PM/PM<sub>10</sub>/PM<sub>2.5</sub></b>   |
|---------------------------------|--|
| I. Indicator                    | 1. Daily Visual Emission Observation<br>2. Continuous monitoring of PM   |
| Measurement Approach            | 1. Visible emissions are assessed daily by EPA Method 22.<br>2. PM is monitored continuously using PM sensor and PM Early Warning System.  |
| II. Indicator Range             | 1. Observation of visible emissions.<br>2. An excursion occurs when particulate level exceeds a defined level set per manufacturer's recommendation.   |
| A. QIP Threshold                | Not applicable   |
| III. Performance Criteria       |  |
| A. Data Representativeness      | The monitoring system consists of PM sensors and PM early warning system. These equipment are installed and operated in accordance with manufacturer's specifications.   |
| B. QA/QC Practices and Criteria | PM Sensors and PM Early Warning Systems are operated and maintained per manufacturer's recommendation, including the following:<br>- Replacement parts are kept on hand for any equipment failures.<br>- Visually inspect and clean sensor semiannually.<br>- Annually inspect comprehensively and make any necessary repairs. |
| C. Monitoring Frequency         | - Daily VEOs.<br>- Continuous monitoring of PM.  |
| D. Data Collection Procedures   | PM monitored data are recorded continuously on Data Historian. Excursions trigger alarms up to and including shutdown of relevant operations. Corrective action, logging, and reporting in semiannual reports will be triggered if controlled shutdowns fail in the event of an excursion or during a Force Majeure event.     |
| E. Averaging period             | No averaging, provide continuous detection monitoring of excess PM emissions.  |

Ms. Alexander stated that operators conduct daily visual emission observations via EPA Method 22. See discussion regarding Method 22 records under SC 13 of Permit No. 2017-0914-C(M-3) above.

CCC continuously monitors PM emissions using the PM Early Warning System. Records of alarm events are reported in CBPF's semiannual CD Progress Reports. This is a CD-imposed requirement that is still being evaluated. Communication with EPA indicated that the PM Early Warning System is under review. DEQ will partner with EPA to further evaluate CD compliance, after which, stipulated penalties associated with any alleged CD violations may be assessed in a separate action.

Replacement parts were observed to be kept on hand during the inspection. Records of semiannual sensor inspections and annual system inspections were requested. In response, CCC provided a plan for "particulate monitor daily PMs" and daily maintenance log sheets (OID 6329368, Folder #2c). The records indicate that the transmitter and receiver lenses are cleaned daily. A violation for failure to provide record of comprehensive annual inspections will be listed in the *Exit Interview/Summary* section below.

The Data Collection Procedures in the table above are unclear as written. Per DEQ Permitting, a revision of the language will be included in Permit No. 2023-0099-TVR3, which is currently in internal review. The draft language is currently written as "*PM monitored data are recorded continuously on Data Historian. Excursions trigger alarms and may include shutdown of relevant operations. Corrective action, logging, and reporting in semiannual reports will be triggered if no controlled shutdowns occur in the event of an excursion or during a Force Majeure event.*" Appendix A below specifies the corrective action and logging requirements for when the alarm is triggered.

#### APPENDIX A: PM EARLY WARNING SYSTEM

1. Permittee shall install a PM Early Warning System at the Facility to monitor the PM emitted from each PM Monitor Point. Each PM Monitor Point shall be set to a specific alarm action level, such that an alarm is triggered when the PM at a PM Monitor Point exceeds the normal range of PM according to the manufacturer's recommendations during operation of the Process System.

CCC continuously monitors PM emissions using the PM Early Warning System. The alarm level baseline is set at [REDACTED] of scale per manufacturer's recommendations. This is a CD-imposed requirement that is still being evaluated. Communication with EPA indicated that the PM Early Warning System is under review. DEQ will partner with EPA to further evaluate CD compliance, after which, stipulated penalties associated with any alleged CD violations may be assessed in a separate action.

2. Permittee shall operate each PM Early Warning System at all times of Heat Load Operation and Process System Operation, except for during system breakdowns, repairs, maintenance, calibration checks, and zero and span adjustments of the applicable PM Early Warning System. The minimum degree of data availability shall be at least 90 percent for the first three years following the

Effective Date of the Consent Decree, and 95% thereafter, based on a quarterly average of the operating time of the emission unit or activity being monitored.

3. In the event that an alarm is triggered for any PM Early Warning System, Defendant shall investigate the cause of the alarm as expeditiously as practicable by performing each of the following tasks:

- a. Reviewing the data output for the relevant PM Early Warning System to determine whether the alarm corresponds to an actual exceedance of the alarm action level;
- b. If review of the data confirms an exceedance of the alarm action level, Permittee shall conduct a visual assessment (Method 22) of the equipment monitored by the pertinent PM Early Warning System to determine if there are any detectable visual emissions. Defendant shall also conduct an appropriate equipment inspection to seek to identify the source of the alarm.
- c. If the visual assessment or other observations identify a process, equipment or other condition(s) causing an increase in PM emissions that may be responsible for triggering the relevant alarm, determining whether the relevant equipment can be isolated to reduce the excess PM emissions below alarm levels, without requiring a Process System Shutdown;
- d. If the relevant equipment can be isolated without requiring Process System Shutdown, isolating and repairing such equipment prior to returning it to service;
- e. If the relevant equipment cannot be isolated without requiring Process System Shutdown, such as if there is a leak from a dryer, a broken bag in a baghouse, or a Malfunction of any other component that cannot be isolated to the extent necessary to prevent continued excess PM emissions, shutting down the relevant equipment and only returning it to service after it has been repaired;
- f. If the triggering event has not been identified and resolved within 24 hours, having a Method 9 Trained Observer (i) conduct a visual assessment of the equipment monitored by the pertinent PM Early Warning System to determine if there are any detectable visual emissions, and, (ii) in the event that any such visible emissions are observed, conduct a six minute observation in accordance with Method 9 to determine if opacity levels are greater than 20%, and (iii) if
- g. opacity levels are greater than 20%, conduct a six minute observation in accordance with Method 9 once every 8 hours (during daylight hours) until visible emissions are less than 20% of opacity levels;
- h. If, after investigation, the source of any elevated PM emissions cannot be identified, shutting down the subject equipment as soon as practicable to prevent further alarms and to minimize emissions and ensure the safety of employees and the community and only returning the equipment to service after the source of the excess emissions has been identified and repaired.

4. Notwithstanding the foregoing, to the extent that recorded information for the relevant PM Early Warning System indicates that operations have returned to normal operating ranges, below levels triggering an alarm condition, Defendant is not otherwise obligated to continue with implementation of the steps listed above, and may continue operation of the relevant equipment.

5. Permittee shall maintain a record of any event that triggers the alarm for any PM Early Warning System sufficient to meet the requirements in Section XIII (Recordkeeping and Reporting Requirements) of this Consent Decree.
6. Permittee shall perform routine maintenance of each PM Early Warning System installed in accordance with any manufacturer recommendations and the following requirements:
  - a. On at least a semiannual basis, Permittee shall visually inspect and clean each sensor within the PM Early Warning System, in accordance with manufacturer recommendations, to ensure continued effective operation of the PM Early Warning System.
  - b. On at least an annual basis, Permittee shall comprehensively inspect the PM Early Warning System and make any necessary repairs.
7. The PM Early Warning System shall not be required to quantitatively measure PM emissions.

#### **APPENDIX B: PROTOCOL FOR SETTING FINAL SO<sub>2</sub> EMISSION LIMITS**

1. If Permittee elects to comply with the applicable Final 7-day Rolling Average Emissions Limits and Final 365-day Rolling Average Emissions Limits for SO<sub>2</sub> set forth in Section VI (SO<sub>2</sub> Control Technology, Emissions Limits, and Monitoring Requirements) of the Consent Decree, pursuant to Option B, the Permittee shall follow the protocol specified in this Appendix.

**The Final SO<sub>2</sub> Optimization and Demonstration Study results were submitted to EPA and DEQ on August 30, 2024 (OID 5783585). See discussion under SC 1.EUG 5 of Permit No. 2017-0914-C (M-3) above. Communication with EPA indicated that the study is under review.**

2. Design Considerations. Permittee's proposed design for each DGS shall consider, at a minimum, the following parameters:

- a. Absorber Vessel
  - i. Volume
  - ii. Dimensions
  - iii. Pressure Drop
  - iv. Internal Configuration
  - v. Location in Process Train
- b. Sorbent Injection (for DGS only)
  - i. Type and chemical composition of sorbent
  - ii. Sorbent injection rate
- c. Flue Gas Characteristics
  - i. Inlet/Outlet SO<sub>2</sub>/SO<sub>3</sub> Concentrations
  - ii. Flue Gas Volumetric Flow
  - iii. Inlet/Outlet Temperature Range
  - iv. Inlet/Outlet Particulate Loading and Characteristics

- d. Designed to Removal Efficiency
- e. Safety Considerations

If Permittee elects to pursue installation of an Alternative Equivalent Pollution Control Technology, Permittee shall propose a list of design considerations and operating parameters with supporting rationale for use in lieu of those listed in Paragraphs 2 and 3 of this Appendix for the Alternative Equivalent Pollution Control Technology that includes design considerations and operating parameters that have a significant effect on percent removal of SO<sub>2</sub>. Permittee shall submit this information when Permittee submits the proposal for approval of the Alternative Equivalent Pollution Control Technology in accordance with Paragraph 19 of this Consent Decree.

3. Optimization and Demonstration Study. Permittee shall conduct an 18 Month Optimization and Demonstration Study, which shall begin no later than the applicable Date of Continuous Operation set forth in Paragraph 17 of this Consent Decree. Defendant shall submit a protocol consistent with the applicable design considerations for each Optimization and Demonstration Study to EPA no later than 3 Months prior to commencement of the Optimization and Demonstration Study, which shall identify, at a minimum, the operating parameters set forth in 3.a. and 3.b. below. During the first 3 Months of each Optimization and Demonstration Study, Defendant shall operate the applicable DGS or Alternative Equivalent Pollution Control Technology consistent with the protocol submitted by Permittee, with the objective of establishing optimum operating levels to minimize SO<sub>2</sub> emissions for, at a minimum, the following parameters:

- a. Sorbent Injection (for DGS only)
  - i. Type and chemical composition of sorbent
  - ii. Sorbent injection rate
- b. Pressure drop
- c. Emission Rates
  - i. Outlet SO<sub>2</sub> Concentration
  - ii. Actual Removal Efficiency

Within 30 Days of completion of the first 3 Months of each Optimization and Demonstration Study, Permittee shall submit to EPA a written report that documents any conclusions that it reached in its analysis of the data from that period, and provides any relevant data supporting those conclusions.

During the last 15 Months of each Optimization and Demonstration Study, Permittee shall operate the applicable DGS or Alternative Equivalent Pollution Control Technology in a manner consistent with the conclusions reflected in the written report of the Optimization and Demonstration Study, with the objective of minimizing SO<sub>2</sub> emissions to the extent practicable based on the design criteria.

4. Optimization and Demonstration Study Report. Permittee shall submit the results of the complete Optimization and Demonstration Study to EPA in a written report no later than 60 Days after the completion of the Optimization and Demonstration Study. The report shall include the following information:

- a. Each hourly average SO<sub>2</sub> and O<sub>2</sub> concentration at the point of emission to the atmosphere and at the inlet to the DGS or Alternative Equivalent Pollution Control Technology, as measured by a CEMS during the Optimization and Demonstration Study, and each hourly average value for each of the operating parameters listed in Paragraph 2 of this Appendix.
- b. An evaluation of the effect, and identification of the optimum operating level, of each operating parameter listed in Paragraph 2 of this Appendix, on the minimization of SO<sub>2</sub> emissions from the relevant Process System.
- c. A proposed final 7-day Rolling Average Emissions Limit (in ppmvd, at 0% oxygen), and a proposed final 365-day Rolling Average Emissions Limit for SO<sub>2</sub> (in ppmvd, at 0% oxygen), within the range set forth for Option B in the applicable cell in the table in Paragraph 17, to optimize operation of the DGS or Alternative Equivalent Pollution Control Technology and minimize SO<sub>2</sub> emissions to the extent practicable.

Permittee shall supplement the report with any other information that EPA identifies as relevant to its evaluation of the Optimization and Demonstration Study.

5. Compliance with Proposed Final Emissions Limits. Permittee shall immediately upon submission of the Optimization and Demonstration Study to EPA, and, continuing thereafter, until such time as Permittee is required to comply with the applicable Final 7- day Rolling Average Emissions Limit and Final 365-day Rolling Average Emissions Limit established pursuant to Paragraphs 6 and 7 of this Appendix, Continuously Operate, a DGS or Alternative Equivalent Pollution Control Technology on the Process System, so as to achieve and maintain the applicable proposed final 7-day Rolling Average Emissions Limit and proposed final 365-day Rolling Average Emissions Limit.

6. EPA Establishment of Final Emission Limits. EPA shall establish Final 7-day Rolling Average Emissions Limits and Final 365- day Rolling Average Emissions Limits for SO<sub>2</sub> within the range set forth for Option B in the applicable cell in the table in Paragraph 17. EPA shall base its determination on: (i) the level of performance of the applicable DGS or WGS or Alternative Equivalent Pollution Control Technology during the Optimization and Demonstration Study; (ii) a reasonable certainty of compliance; and (iii) any other available and relevant information.

7. Compliance with Final Emission Limits. Permittee shall immediately, or, if the EPA established Final 7-day Rolling Average Emissions Limit or Final 365-day Rolling Average Emissions Limit for SO<sub>2</sub> for the applicable Process System is different from Permittee's proposed final Emissions Limits, no later than 30 Days after receipt of written notice from EPA, and, continuing thereafter, Continuously Operate, a DGS or Alternative Equivalent Pollution Control Technology on each Process System, so as to achieve and maintain the applicable Final 7-day Rolling Average Emissions Limit and Final 365-day Rolling Average Emissions Limit.

8. Emissions Limits Option. At any time, Permittee may notify the EPA and Plaintiff- Intervenors in writing in accordance with the notice provisions of Section XXI (Notices) of the Consent Decree that it will accept and agree to immediately, and continuing thereafter Continuously Operate, a DGS or Alternative Equivalent Pollution Control Technology on the Process System, so as to

achieve and maintain the Final 7-day Rolling Average Emissions Limits and Final 365-day Rolling Average Emissions Limits for SO<sub>2</sub> set forth for Option A in the applicable cell in the table in Paragraph 17 of the consent decree.

The following SCs of **Permit No. 2017-0914-TVR2, which was issued on August 21, 2018**, and which were not already listed above, were evaluated based on observations made during the inspection, records obtained from CCC, and documentation archived at DEQ. The thermal oxidizers were replaced by the CGEUs on July 19, 2022. Therefore, SCs related to the thermal oxidizers will not be listed. Some emission limits also differ in Permit No. 2017-0914-TVR2 from those listed above, but since Permit No. 2004-302-C (M-4) was also issued later in 2018 and was referenced above, the differences will not be listed below.

4. The sulfur content of carbon black feedstock oils processed at the facility shall not exceed 3.0% by weight on an annual average basis. No carbon black feedstock oil shall be processed which exceeds 4.0% sulfur content by weight. [OAC 252:100-8-6(a)(1)]

**CCC provides reports of daily and weekly analyses of sulfur content of feedstock, which are labeled Sulfur [year] and [year] %S – Feedstock & Product in the SARs (OIDs 5971801, 6115819, 6250491). The data provided show sulfur content of the feedstock is less than 4% as required. CCC also includes annual average sulfur content, which was less than 3.0% in 2024 and 2025 as required.**

5. At least once during every operating day, the permittee shall take a sample of the sulfur content of feedstock oils being processed and the resulting carbon black product to determine a weekly average sulfur content. The composite results from these measurements shall be used in conjunction with reactor feed rates to calculate an average hourly sulfur dioxide emissions rate. [OAC 252:100-8-6(a)(1)]

**See SC 4 of Permit No. 2017-0914-TVR2 above.**

9. Except for periods of start-up, shut-down, or malfunction of air pollution control equipment, the permittee shall operate and maintain the thermal oxidizers and waste gas combustors as follows: [OAC 252:100-8-6(a)(3)(A)]

**The thermal oxidizers were replaced with the CGEUs as of July 19, 2022. Therefore, the SC 9(a) through (d) were only evaluated for the waste gas combustors.**

- a. Operate at a temperature of 1,500 °F or greater when waste gas is being injected into the equipment as detailed by the control circuitry.

**Records of “out-of-range” waste gas combustor temperatures for #11, 12, and 21 are reported in CBPF’s SARs (OIDs 5971801, 6115819, 6250491). Records for #31, 32, and 41 were provided upon request (OID 6329368, Folders #2c, 23). Additionally, no records were provided in the SARs for January 2026. Failure to provide these records in the SARs is a violation of Standard Condition III(C) of Permit No. 2017-0914-TVR2, which lists the**



|  |   |                     |   |   |                     |   |   |   |
|--|---|---------------------|---|---|---------------------|---|---|---|
|  | █ | █                   | █ | █ | █                   | █ | █ |   |
|  | █ | █                   | █ | █ | █                   | █ | █ |   |
|  | █ | █                   | █ | █ | █                   | █ | █ |   |
|  | █ | █                   | █ | █ | no records provided |   |   |   |
|  | █ | no records provided |   |   |                     | █ | █ | █ |
|  | █ | █                   | █ | █ | █                   | █ | █ |   |

\*a period is 1 hour

\*\*█

**Violations for operating below the 1,500°F limit for █ periods for waste gas combustor #12, █ periods for waste gas combustor #31, █ periods for waste gas combustor #32, and █ periods for waste gas combustor #41 will be listed in the *Exit Interview/Summary* section below.**

**Compliance cannot be determined for waste combustors #11, 12, and 21 in January 2026 and for waste gas combustors #31, 32, and 41 in December 2025 due to a lack of records. This violation will be listed in the *Exit Interview/Summary* section below.**

- b. The temperature shall be monitored and recorded continuously using a thermocouple (at least four times an hour and averaged over the hour with a minimum data availability of 90 percent).

**The waste gas combustors are equipped with thermocouples to continuously monitor temperature. Mr. Curfman stated that the temperatures are recorded continuously. See discussion of records in SC 9.a above.**

- c. The residence time of the stack gases shall be at least 1 (one) second.

**Mr. Curfman confirmed that the residence time of the stack gases is at least 1 second based on stack gas velocity and stack height.**

- d. Proper operation of the thermocouple shall be verified annually by an instrument which is calibrated annually.

**Compliance cannot be determined with this condition as records were not provided in the SARs. This is a violation of Standard Condition III(C) of Permit No. 2017-0914-TVR2, which lists the requirement to maintain records of annual calibrations of the thermocouple in SC 16.b.**

12. The permittee shall take all reasonable precautions to minimize emissions of fugitive dust and prevent visible fugitive dust emissions from crossing the boundary of the property on which those emissions originated. These actions shall include, but not be limited to: [OAC 252:100-29]

- Maintain and repair Unit No. 4 Bagfilter System so as to prevent excessive temperatures.

**Mr. Curfman stated that CCC maintains and repairs the Unit No. 4 Bag Filter System to prevent excessive temperatures. CCC uses a feed forward system that can feed water to the system, which also prevents excessive temperatures.**

- Conduct product loading operations in such a manner so as to minimize, to the extent possible, any fugitive emissions of carbon black.

**Mr. Curfman stated that CCC conducts product loading operations in a manner to minimize fugitive emissions of carbon black as much as possible. Torit clean up (load out) bag filters are used, leaks are checked for often, and bags are changed out as needed. A riding sweeper is used to clean up any spills of carbon black during loading operations, and all units are equipped with an exhaust system.**

16. The permittee shall maintain records of operations as listed below. These records shall be maintained on-site or at a local field office for at least five years after the date of recording and shall be provided to regulatory personnel upon request. [OAC 252:100-8-6 (a)(3)(B)]

- a. Continuously-recorded temperature in the thermal oxidizers and waste gas combustors as required by Specific Condition 9(b).

**See SC 9.a of Permit No. 2017-0914-TVR2 above.**

- b. Records of annual calibrations of the thermocouple verification device and annual verification of the thermocouple as required by Specific Condition 9(d).

**See SC 9.d of Permit No. 2017-0914-TVR2 above.**

- d. All occasions when operating temperatures of the thermal oxidizers and waste gas combustors fall outside the established temperature range.

**See SC 9.a of Permit No. 2017-0914-TVR2 above.**

- e. Weekly records of average sulfur content by weight of oils processed.

**See SC 4 of Permit No. 2017-0914-TVR2 above.**

- f. Weekly records of oil feed to all units, fuel sulfur content of all feedstock, sulfur content of the products, and daily carbon black production in each unit. These records shall be used to calculate an average hourly SO<sub>2</sub> emission rate for each operating week.

**CCC includes weekly records of oil feed, fuel sulfur content, sulfur content of the products, and carbon black production for all four units in the SARs (OIDs 5971801, 6115819, 6250491). These records are labeled as SEM [year].**

18. Notwithstanding the issuance date of the original Title V permit (April 21, 2000), there is hereby established an alternative date of July 31st for Annual Compliance Certification and Semi-annual Reporting submittal purposes. Pursuant to such alternative date, the permittee shall submit to the Air Quality Division of DEQ, with a copy to the US EPA, Region 6, a certification of compliance with the terms and conditions of this permit no later than 30 days after July 31st of each year, except for 2013. For the year of 2013, the permittee shall submit to the Air Quality Division of DEQ, with a copy to the US EPA, Region 6, a certification of compliance with the terms and conditions of this permit no later than 30 days after both April 21st and July 31<sup>st</sup> to ensure no annual compliance certification is submitted longer than a year.

[OAC 252:100-8-6 (c)(5)(A) & (D)]

**See *Annual Compliance Certifications/Semiannual Reports* section above.**

19. No later than 30 days after each six (6) month period, after the alternative date of July 31<sup>st</sup>, the permittee shall submit to AQD a report of the results of any required monitoring. All instances of deviations from permit requirements since the previous report shall be clearly identified in the report. As in Specific Condition No. 18, permittee shall assure that no semi-annual report is filed longer than 6 months.

[OAC 252:100-8-6 (a)(3)(C)(i) and (ii)]

**See *Annual Compliance Certifications/Semiannual Reports* section above.**

22. This permit supersedes all previous air quality operating permits, which are now cancelled.

The following requirements of *CD 5:15-cv-00290-F* were evaluated based on observations made during the inspection, records obtained from CCC, and documentation archived at DEQ. Some CD requirements are still being evaluated. DEQ will partner with EPA to further evaluate CD compliance, after which, stipulated penalties associated with any alleged CD violations may be assessed in a separate action.

**Section VI. SO<sub>2</sub> Requirements (Paragraphs 17-20):**

**17 – Covered in SC 1.EUG 5 of Permit No. 2017-0914-C (M-3) above.**

**18/19 – CCC uses a dry gas scrubber (“DGS”) with 95% removal of SO<sub>2</sub> efficiency to comply with the SO<sub>2</sub> limits of the CD. Covered in Appendix B of Permit No. 2017-0914-C (M-3).**

**20 – Covered in SC 1. EUG 5.d of Permit No. 2017-0914-C (M-3) above.**

**Section VII. NO<sub>x</sub> Requirements (Paragraphs 23-29):**

**23-25 – Covered in SC 1.EUG 5 of Permit No. 2017-0914-C (M-3) above.**

**26 – Covered in SC 1.EUG 5 of Permit No. 2017-0914-C (M-3) above.**

**27/28 – CCC uses SCR to comply with the NO<sub>x</sub> limits established by the CD.**

**29 – Covered in SC 1. EUG 5.d of Permit No. 2017-0914-C (M-3) above.**

**Section VIII. PM Requirements (Paragraphs 31-35):**

**31 – Covered in SC 1.EUG 5 of Permit No. 2017-0914-C (M-3) above. CCC uses a DGS to comply with the PM limits of the CD.**

**32 – Covered in SC 1. EUG 5.e of Permit No. 2017-0914-C (M-3) above.**

**33 – Covered in Appendix A of Permit No. 2017-0914-C (M-3).**

**34 – Covered in SC 11 of Permit No. 2017-0914-C (M-3) above.**

**35 – Covered in Appendix A of Permit No. 2017-0914-C (M-3).**

**Paragraph 38: Prior to termination of the CD, Defendant shall not operate any flares at the facility. There are currently no flares in use at CBPF.**

**Paragraph 53: Within 30 days after the end of each half calendar year (i.e., by January 30th and July 30th), until termination of the CD, CCC shall submit a semi-annual report to EPA and DEQ for the immediately preceding half calendar year period that shall contain the information described in Paragraph 53 (a)-(j) for such immediately preceding half calendar year period. Reports submitted since the last FCE are summarized below.**

| Report No. | OID                     | Reporting Period       | Due Date  | Postmark Date | Late? |
|------------|-------------------------|------------------------|-----------|---------------|-------|
| 19         | 4970211                 | 1/1/2024 to 6/30/2024  | 7/30/2024 | 7/29/2024     | no    |
|            | *6329368,<br>Folder #27 |                        |           | NA            |       |
| 20         | 5819652                 | 7/1/2024 to 12/31/2024 | 1/30/2025 | 1/31/2025     | yes   |
|            | 5965168                 |                        |           | 2/12/2025     |       |
| 21         | 6087372                 | 1/1/2025 to 6/30/2025  | 7/30/2025 | 7/31/2025     | yes   |
| 22         | 6225929                 | 7/1/2025 to 12/31/2025 | 1/30/2026 | 1/30/2026     | no    |
|            | 6230791                 |                        |           | 1/30/2026     |       |

\*Multiple pages and attachments were missing from the original submitted report. The missing data was provided upon request. It cannot be determined if the pages were not originally included or if there was an error in scanning the submittal; therefore, no violation will be issued.

\*\*revised Attachments A, D

\*\*\*Two documents were postmarked on the same date. One document is 152 pages long and the other is 193 pages long. Upon further inspection, it appears that the difference in the documents is that every other page of data is missing from the shorter version. In a records request, CCC stated that they did not know why two reports were submitted.

**CD Progress Reports 20 and 21 were each submitted one day late. These violations will be listed in the *Exit Interview/Summary* section below.**

**The table below summarizes submittal of items that are to be included in the CD Progress Reports per Paragraph 53 of the CD.**

| Records  | Progress Report  |   |   |                           |
|--|--|---|---|---------------------------|
|  | #19  | #20   | #21   | #22                       |
|  | 1H 2024  | 2H 2024   | 1H 2025   | 2H 2025                   |
| 1. Records to demonstrate compliance with 7-day and 365-day SO <sub>2</sub> limits (Paragraph 17).                       | Not included; supplied upon request (OID 6329368, Folders #8, #28 (1&3)). See discussion under SC 1.EUG 5 of Permit No. 2017-0914-C (M-3) above. |   |   |                           |
| 2. Records to demonstrate compliance with heat load, startup, and shutdown 365-day NO <sub>x</sub> limit (Paragraph 23). | Not included; supplied upon request (OID 6329368, Folder #8). See discussion under SC 1.EUG 5 of Permit No. 2017-0914-C (M-3) above.             |   |   |                           |
| 3. Records to demonstrate compliance with 7-day and 365-day NO <sub>x</sub> limits (Paragraph 26).                       | Not included; supplied upon request (OID 6329368, Folders #8, #28 (1&3)). See discussion under SC 1.EUG 5 of Permit No. 2017-0914-C (M-3) above. |   |   |                           |
| 4. Records to demonstrate compliance with 3-hr PM limit (Paragraph 31).  | Compliance is to be demonstrated via annual stack tests. See discussion under SC 1.EUG 5 of Permit No. 2017-0914-C (M-3) above.                  |   |   |                           |
| 5. CEMS data for any time an emissions limit is exceeded.  | None   | Attach. D: SO <sub>2</sub> 7-day Exceedances:<br>██████████<br>██████████ | Attach. D: SO <sub>2</sub> 7-day Exceedances:<br>██████████<br>██████████ | None                      |
| 6. Explanation of any periods of downtime for CEMS.  | None included  | ██████████<br>██████████  | None included   | None included             |
| 7. Protocol for any PM stack tests performed.  | Missing from report; supplied upon request (OID 6329368, Request No. 5)<br>Statement: none performed   | Statement: none performed   | Statement: none performed   | Statement: none performed |
| 8. PM Early Warning System data collected during alarm periods.  | Missing from report; supplied upon request (OID 6329368, Folder #27)   | Att. B  | Att. B  | Att. B                    |
| 9. Explanation of any periods of downtime for PM Early Warning System.   | Not included.  |   |   |                           |
| 10. Description of any violation, including exceedances of limits.   | NA   | ██████████<br>██████████  | ██████████<br>██████████  | NA                        |
| 11. Statement of no violations if none occurred.   | Included   | Violations occurred   | Violations occurred   | Included                  |
| 12. State of any permit apps.  | Missing from report; supplied upon request (OID 6329368, Request No. 5)  | Included  | Included  | Included                  |

**Records 1-3:** Failure to include the following records in the CDs is a violation of Paragraph 53 of the CD and will be listed in the *Exit Interview/Summary* section below.

- Records to demonstrate compliance with 7-day and 365-day SO<sub>2</sub> limits.
- Records to demonstrate compliance with heat load, startup, and shutdown 365-day NO<sub>x</sub> limit.
- Records to demonstrate compliance with 7-day and 365-day NO<sub>x</sub> limits.

**Records 4 and 7:** As discussed in SC 1.EUG 5.e of Permit No. 2017-0914-C (M-3) above, CCC has not conducted a PM stack test since October 11-12, 2022.

**Record 5:** In a records request, CCC stated that this record is only included if an emissions limit is exceeded. As discussed in SC 1.EUG 5 of Permit No. 2017-0914-C (M-3) above, there were multiple exceedances of the 7-day rolling average limits of SO<sub>2</sub> and one exceedance of the 7-day rolling average for NO<sub>x</sub> during the reporting periods of Progress Reports 19-22. Additionally, the record (Attachment D) included in Progress Reports 20 and 21 does not appear to calculate 7-day rolling averages, but rather a daily average and an average of those days. The days listed also do not correspond to the exceedances discovered in SC 1.EUG 5 using the provided CEMS data. Failure to report them in the CD Progress Reports will be listed as a violation of Paragraph 53 of the CD in the *Exit Interview/Summary* section below.

**Record 6:** In a records request, CCC stated that this record is only included if an emissions limit is exceeded. CCC stated in Progress Report #20 that the [REDACTED].  
[REDACTED]. It appears based on CEMS data provided that the CEMS was operating sporadically throughout the last two quarters of 2024. See further discussion under SC 1.EUG 5 of Permit No. 2017-0914-C (M-3) above.

**Record 8:** Records were included as required. See discussion under Appendix A of Permit No. 2017-0914-C (M-3) above.

**Record 9:** In a response to a records request, CCC stated that records of periods of PM Early Warning System downtime are “explained in the PM Alarm Events that is submitted as an attachment with each Progress Report.” There do not appear to be any records included that show this. It cannot be determined whether no events occurred or if the records were not included. Therefore, compliance cannot be determined with this requirement. This violation will be listed in the *Exit Interview/Summary* section below.

**Records 10-11:** Progress Reports #19 and 22 included a statement that no violations occurred. However, as discussed above under Record 5, multiple violations of exceedances of the 7-day rolling average for SO<sub>2</sub> occurred.

**Record 12:** A statement regarding the current permitting status was included in each report.

**Paragraph 54** states that CCC shall notify EPA and DEQ of any violation of the CD within 30 business days of the day they became aware of the violation, with an explanation of the

likely cause of the event, remedial steps or corrective actions taken, or to be taken, including all design operation, and maintenance changes consistent with good engineering practices, if any, to reduce or eliminate the probability of recurrence of such violation. Numerous violations of the CD were identified in this evaluation that were not reported to EPA and DEQ within 30 days. Failure to report these violations will be listed as violation in the *Exit Interview/Summary* section below.

**Paragraph 70/71:** CCC is required to submit oral/electronic notice within seven business days of any force majeure event, defined as any event arising from causes beyond their control that causes a delay or impediment to performance in complying with any obligation under the CD. Written notice must also be submitted within 21 business days. CCC claimed a force majeure event occurred on [REDACTED]. Initial notice was submitted timely via email on [REDACTED]. The 21-day notice was postmarked [REDACTED] (OID 5954159), which is within 21 business days as required. The requirements listed in Paragraph 71 were included in the 21-day notice.

**Appendix A:** Appendix A outlines requirements for Environmental Mitigation Projects, including the installation and use of continuous-duty, cartridge dust collector technology (“Dust Collectors”) to minimize PM emissions from the carbon black product storage tanks. See SC 1.EUG 10.a of Permit No. 2017-0914-C (M-3) above.

**Appendix B:** The requirements in Appendix B are included in SCs 1.EUG 10.a, 1.EUG 6.a, 1.EUG2.b, and 1.EUG2.a of Permit No. 2017-0914-C (M-3).

**Appendix C:** The requirements in Appendix C are included in SC 11 of Permit No. 2017-0914-C (M-3).

**Appendix D:** The requirements in Appendix D are included in Appendix A of Permit No. 2017-0914-C (M-3).

**Appendix E:** The requirements in Appendix E are included in Appendix B of Permit No. 2017-0914-C (M-3).

**Appendix F:** Appendix F does not apply to CBPF as NO<sub>x</sub> emission limits were established without interim and final limits per Paragraph 26. Appendix F applies to the Sunray facility.

### ***Exit Interview/Summary***

Based on the information obtained by DEQ for purposes of this FCE, the following violations were discovered:

#### **EIs and Permitting**

1. CCC failed to report emissions from emergency diesel generator Cogen 1 in the 2022-2024 EIs in violation of OAC 252:100-5-2.1(b). The unit was listed as Emergency Generator 5 in the 2025 EI.

2. CCC commenced operation of emergency diesel generator Cogen 1 prior to submitting a minor modification application in violation of OAC 252:100-8-7.2(b)(1)(E).

#### NESHAP Subpart SS

3. CCC conducted the 2023 AVO inspections 104 days late and the 2025 AVO inspections 49 days late in violation of § 63.983(b)(1)(i)(B) of Subpart SS. Annual inspections for AVO indications of leaks are performed timely if they occur within the 12<sup>th</sup> month from the previous activity.
4. Per § 63.983(d)(1), if there are AVO leaks at the time of the annual inspection, CCC is required to eliminate the leak or monitor the equipment according to the procedures in § 63.983(c), which requires Method 21 monitoring. A first attempt at repair is required within 5 days after a leak is detected, and repairs must be completed within 15 days of detection per § 63.983(d)(2). Per the records provided, there were 12 leaks identified in the COGEN area during the 2023 inspections. The date of the initial inspection appears to be December 14, 2023; however, repair dates are listed as September 8, 2023. Additionally, CCC stated in a records request that there were no components on DOR during the 2023 inspection; however, each of these components is listed with a DOR code of “WOP,” which stands for waiting on parts. Waiting on parts is not listed as an acceptable reason for DOR per § 63.983(d)(3). It cannot be determined based on this information if CCC is in compliance with the first attempt and final repair deadlines or DOR requirements of Subpart SS.
5. CCC failed to include a statement that no leaks were detected in AVO records per § 63.998(d)(1)(iv) of Subpart SS. The records provided for the 2024 COGEN inspections do not include a statement that no leaks were detected or verification that inspections occurred. Similarly, the 2023 COGEN inspections have some components highlighted red, which appear to correspond to leaks, but the remaining components do not include a statement that no leaks were detected or verification that inspections occurred.
6. CCC failed to include the information recorded in § 63.998(d)(1)(iii)(B) through (E) in the MACT periodic reports in violation of § 63.999(c)(2)(i) of Subpart SS.

#### ACCs/SARs

7. CCC failed to include the deviations table in the SAR covering August 1, 2024, through January 31, 2025, in violation of Standard Condition III(C) of Permit Nos. 2017-0914-TVR2 and 2004-302-C (M-4). The table was attached to the subsequent SAR submitted on August 28, 2025.
8. The ACC covering August 1, 2024, through January 31, 2025, does not certify compliance with all conditions of Permit Nos. 2017-0914-TVR2 or 2004-302-C (M-4). The SC numbers are not always listed in the Permit and Condition Number column, making review difficult. Some SCs are labeled as 2017-0914-TVR2, but the text listed under Applicable Requirement is from Permit No. 2004-302-C (M-4). Sometimes an SC is labeled as 2004-302-TVR, which was cancelled in 2015. Failure to certify compliance with all active permit conditions is a violation of SC 18 of Permit No. 2017-0914-TVR2, and SC 20 of Permit No. 2004-302-C (M-4).
9. The deviations reported in the SARs all appear to be associated with EE events. However, none of the deviations are reported with any citation of which SC or rule was violated, thereby leaving the deviations tables incomplete. Additionally, the pollutant is commonly listed as

carbon black but should be listed as PM. Failure to accurately report deviations is a violation of Standard Condition III(C) of Permit Nos. 2017-0914-TVR2, 2004-302-C (M-4), and 2017-0914-C (M-3).

10. CCC has only reported EE violations as deviations in the SARs. Numerous non-EE violations were discovered during this FCE that were not reported as deviations in violation of Standard Condition III(C) of Permit Nos. 2017-0914-TVR2, 2004-302-C (M-4), and 2017-0914-C (M-3).

#### EEs

11. The points of emissions listed in the EE reports do not always directly match an emission point listed in the active permit. CCC has failed to include the correct permit established identifier from which the EEs occurred, which is a violation of OAC 252:100-9-7(b)(3). CCC confirmed the names of emission points as listed in the permit in a records request.
12. CCC failed to submit an immediate notice for EE event HQB-0P39-5WVXA, which occurred on December 23, 2024. When asked about this missing immediate notice, CCC referred to the February 10, 2025, report as the immediate notice. This report, however, was a 30-day report, and no immediate notice was submitted. Failure to submit an immediate notice no later than 4:30 pm the following working day of the first occurrence of EEs is a violation of OAC 252:100-9-7(a).
13. The 30-day report for EE event HQB-0P39-5WVXA, which occurred on December 23, 2024, was due to be submitted on January 22, 2025. It was submitted 19 days late on February 10, 2025. No extension was requested. This is a violation of OAC 252:100-9-7(b).
14. The 30-day report for EE event HQD-G6V8-6N05V, which occurred on May 20, 2025, was due to be submitted on June 19, 2025. It was submitted 1 day late on June 20, 2025. No extension was requested. This is a violation of OAC 252:100-9-7(b).
15. The date of EE event HQG-2NX0-RSYY6 was listed as September 5, 2025, on the immediate notice. The actual event date was September 4, 2025. Failure to accurately report the event start date in the immediate notice is a violation of OAC 252:100-9-7(a)(3).
16. The limit listed for EE event HQD-91MW-W7314, which occurred on March 10, 2025, is associated with Production Unit 1 / EPN #3 in Permit No. 2004-302-C (M-4); however, the report states that the EE is from Production Unit 3, which has a permit limit of 8.00 lb/hr in Permit No. 2004-302-C (M-4). The reported EE is therefore overcalculated. Failure to list the correct applicable authorized emission limit is a violation of OAC 252:100-9-7(b)(4), and failure to accurately calculate the EE is a violation of OAC 252:100-9-7(b)(5).
17. For EE event HQG-C42E-266FT, which occurred on September 19, 2025, the limit listed is 12.24 lb/hr, which is a NOx lb/hr limit for Production Unit 3 / EPN #11 in Permit No. 2017-0914-C (M-3). The 30-day report for this event specified that the source of the emissions was CGEUH1, which CCC confirmed in a records request was equivalent to EUG 5: CGEU 1 / EPN #40. Additionally, the report specifies TPM as the pollutant in exceedance. Therefore, the reported EE is not calculated correctly. Failure to list the correct applicable authorized emission limit is a violation of OAC 252:100-9-7(b)(4), and failure to accurately calculate the EE is a violation of OAC 252:100-9-7(b)(5).
18. For EE event HQG-DNST-CP3V5, which occurred on September 23, 2025, the limit listed is 3.90 lb/hr, which is a NOx TPY limit for Production Unit 2 / EPN #7 in Permit No. 2017-0914-C (M-3). The 30-day report specified TPM is the pollutant in exceedance. Therefore, the

- reported EE is not calculated correctly. Failure to list the correct applicable authorized emission limit is a violation of OAC 252:100-9-7(b)(4), and failure to accurately calculate the EE is a violation of OAC 252:100-9-7(b)(5).
19. For EE events HQM-NM55-4MP29, which occurred on February 13, 2026, and HQP-6YRM-TCP5B, which occurred on April 22, 2026, 5.36 lb/hr is listed as the limit. This number is listed in the total potential criteria pollutant emissions table and in the CAM Plan Background section for CGEU 1 / EPN #40 of the permit memo of Permit No. 2017-091-C (M-3). This is not a limit that is listed in the SCs of Permit No. 2017-0914-C (M-3). Additionally, EE event HQM-NM55-4MP29 is listed with Production Unit 1 / EPN #3 as the emission point, which is not associated with the 5.36 lb/hr limit anywhere in the permit memo or permit specific conditions. Therefore, the reported EEs are not calculated correctly. Failure to list the correct applicable authorized emission limit is a violation of OAC 252:100-9-7(b)(4), and failure to accurately calculate the EE is a violation of OAC 252:100-9-7(b)(5).
  20. For EE event HQP-6YGV-NB92M, which occurred on April 27, 2026, 12.46 lb/hr is listed as the limit. This number is the NOx lb/hr limit for Production Unit 1 / EPN #3 in Permit No. 2017-0914-C (M-3). The 30-day report specified PM is the pollutant in exceedance. Therefore, the reported EE is not calculated correctly. Failure to list the correct applicable authorized emission limit is a violation of OAC 252:100-9-7(b)(4), and failure to accurately calculate the EE is a violation of OAC 252:100-9-7(b)(5).
  21. For EE event HQP-1Q3P-AX916, which occurred on May 4, 2026, the limit is listed as 16.80 lbs, which is not listed in any of the permits in the memos or the SCs; it is unclear where this limit comes from. Therefore, the reported EE is not calculated correctly. Failure to list the correct applicable authorized emission limit is a violation of OAC 252:100-9-7(b)(4), and failure to accurately calculate the EE is a violation of OAC 252:100-9-7(b)(5).
  22. For the following EE events, the event reason is listed as shutdown or startup; however, per the event descriptions, the events were caused by a malfunction that forced a shutdown or a malfunction that occurred during startup. Failure to accurately report the primary cause of the event is a violation of OAC 252:100-9-7(b)(6).
    - a. HQM-Q026-T85XF, March 11, 2025
    - b. HQH-Z2ZE-H7CMM, June 18, 2025
    - c. HQE-ZZQW-SJTJG, July 28, 2025
    - d. HQP-1Q3P-AX916, May 4, 2026
  23. The following events were exceedances of the lb/hr PM limit for Production Unit 1 / EPN #3 established in SC 1.EUG 2/8 of Permit Nos. 2004-302-C (M-4) or 2017-0914-C (M-3). The exceedances lasted less than seven days and are not exceedances of a federally promulgated emission limit.
    - a. HQD-90JB-KM6CQ, February 14, 2025
    - b. HQD-90WR-3NBXC, February 21, 2025
    - c. HQD-91J3-W41AJ, March 6, 2025
    - d. HQM-Q026-T85XF, March 11, 2025
    - e. HQH-Z2ZE-H7CMM, June 18, 2025
    - f. HQE-ZZQW-SJTJG, July 28, 2025
    - g. HQF-H7N5-KMAFY, August 7, 2025
    - h. HQM-NM55-4MP29, February 13, 2026 (incorrectly calculated)
    - i. HQP-6YGV-NB92M, April 27, 2026 (incorrectly calculated)

24. The following event was an exceedance of the lb/hr PM limit for Production Unit 2 / EPN #7 established in SC 1.EUG 2/8 of Permit No. 2004-302-C (M-4). The exceedance lasted less than seven days and is not an exceedance of a federally promulgated emission limit.
  - a. HQG-DNST-CP3V5, September 23, 2025 (incorrectly calculated)
25. The following event was an exceedance of the lb/hr PM limit for Production Unit 3 / EPN #11 established in SC 1.EUG 2/8 of Permit No. 2004-302-C (M-4). The exceedance lasted less than seven days and is not an exceedance of a federally promulgated emission limit.
  - a. HQD-91MW-W7314, March 10, 2025 (incorrectly calculated)
26. The following events were exceedances of the lb/hr PM limit for CGEU 1 / EPN #40 established in SC 1.EUG 5 of Permit Nos. 2004-302-C (M-4) or 2017-0914-C (M-3). The exceedances lasted less than seven days and are not exceedances of a federally promulgated emission limit.
  - a. HQD-48B8-CQS15, April 21, 2025
  - b. HQE-VD91-K82T1, July 17, 2025
  - c. HQG-2NX0-RSYY6, September 4, 2025
  - d. HQG-C42E-266FT, September 19, 2025 (incorrectly calculated)
  - e. HQP-6YRM-TCP5B, April 22, 2026 (incorrectly calculated)
  - f. HQP-1Q3P-AX916, May 4, 2026 (incorrectly calculated)
27. The following event was an exceedance of the lb/hr PM limit for CGEU 1 / EPN #40 established in SC 1.EUG 5 of Permit No. 2004-302-C (M-4). The exceedance lasted more than seven days and is not an exceedance of a federally promulgated emission limit. The event was reportedly due to a malfunction and is being evaluated to see if it qualifies for mitigation of penalties under OAC 252:100-9-8(b).
  - a. HQD-G6V8-6N05V, May 20, 2025 (32,040 minutes or 22.25 days)
28. The following events were exceedances of the 7-day rolling average SO<sub>2</sub> limit for CGEU 1/ EPN #40 established in SC 1.EUG 5 of Permit Nos. 2004-302-C (M-4) and 2017-0914-C (M-3). They are also exceedances of the limit established in CD 5:15-cv-00290-F, Paragraph 17. The exceedances lasted less than seven days.
  - a. HQB-HXX0-RWSGH, March 16, 2025
  - b. HQM-NKDB-M6W2F, February 2, 2026
29. The following events were exceedances of the 7-day rolling average SO<sub>2</sub> limit for CGEU 1/ EPN #40 established in SC 1.EUG 5 of Permit No. 2004-302-C (M-4). They are also exceedances of the limit established in CD 5:15-cv-00290-F, Paragraph 17. The exceedances lasted seven days or more.
  - a. HQM-T7NS-M24HD on October 9, 2024; (11,760 minutes or 8.17 days)
  - b. HQB-0P39-5WVXA on December 23, 2024; (11,040 minutes or 7.67 days)
  - c. HQD-G743-NGW66 on May 23, 2025; (10,070 minutes or 6.99 days)
30. The following events were exceedances of the 20% opacity limit established by OAC 252:100-25-3(b) at Production Unit 1 / EPN #3. The exceedances lasted less than seven days.
  - a. HQM-Q026-T85XF, March 11, 2025
  - b. HQH-Z2ZE-H7CMM, June 18, 2025
  - c. HQE-ZZQW-SJTJG, July 28, 2025
  - d. HQF-H7N5-KMAFY, August 7, 2025
  - e. HQM-NM55-4MP29, February 13, 2026
  - f. HQP-6YGV-NB92M, April 27, 2026

31. The following events were exceedances of the 20% opacity limit established by OAC 252:100-25 at Production Unit 2 / EPN #7. The exceedances lasted less than seven days.
  - a. HQG-DNST-CP3V5, September 23, 2025
32. The following events were exceedances of the 20% opacity limit established by OAC 252:100-25 at CGEU 1 / EPN #40. The exceedances lasted less than seven days.
  - a. HQD-48B8-CQS15, April 21, 2025
  - b. HQE-VD91-K82T1, July 17, 2025
  - c. HQG-2NX0-RSYY6, September 4, 2025
  - d. HQG-C42E-266FT, September 19, 2025
  - e. HQP-6YRM-TCP5B, April 22, 2026
  - f. HQP-1Q3P-AX916, May 4, 2026
33. The following event was an exceedance of the 20% opacity limit established by OAC 252:100-25 at CGEU 1 / EPN #40. The exceedance lasted more than seven days. The event was reportedly due to a malfunction and is being evaluated to see if it qualifies for mitigation of penalties under OAC 252:100-9-8(b).
  - a. HQD-G6V8-6N05V, May 20, 2025

SCs of Permit No. 2017-0914-C (M-3), Cross-referenced with SCs of Permit Nos. 2004-302-C (M-4), and/or 2017-0914-TVR2

EUG 2/8: Production Units 1-4

34. Reported NO<sub>x</sub> and PM emissions for EPN 3, 7, 11, and 20 were in exceedance of the limits listed in SC 1.EUG 2/8 of Permit Nos. 2017-0914-C (M-3) in 2025 and of 2004-302-C (M-4), in 2022, 2023, and 2024, with the exception of NO<sub>x</sub> emissions from EPN 7 in 2025. Additionally, CO, VOC, and SO<sub>2</sub> emissions were in exceedance of the TPY limits in 2023 for EPN 3, 7, 11, and 20, with the exception of SO<sub>2</sub> for EPN 7. In response to this issue, CCC stated in a records request the emissions exceedances are due to the COGEN units initially being under-permitted since CCC is the first carbon black company to install a COGEN system, and therefore the emission limits were based on theoretical emissions. CCC stated that the emission limits were raised in Permit No. 2017-0914-C (M-3) in order to account for actual emissions; however, the reported emissions remain in exceedance of the new (2025) limits. Additionally, the limits listed in the permit draft for Permit No. 2023-099-TVR3 are the same as those listed in Permit No. 2017-0914-C (M-3).
35. Records of transition events to demonstrate compliance with SC 1. EUG 2/8.a of Permit Nos. 2017-0914-C (M-3) and Permit No. 2004-302-C (M-4) are reported in the SARs in documents labeled WEG [year]. The WEG [year] report was not included in the SAR covering 2/1/2025 to 7/31/2025. Additionally, events that occurred in January 2026 were not included in the SAR covering 8/1/2025 to 1/31/2026. Failure to provide these records in the SARs is a violation of Standard Condition III(C) of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4), which both list the requirement to maintain records of transition events in SC 18.
36. Records showing 12-month rolling totals of number of transition events for all four reactors were requested for August 2024 through January 2026 to demonstrate compliance with SC 1. EUG 2/8.c of Permit No. 2017-0914-C (M-3). CCC only provided totals, and not rolling totals, for each reactor for August to December 2024, all of 2025, and January of 2026. Failure to provide these records in the February 2026 SAR is a violation of Standard Condition III(C) of

Permit Nos. 2017-0914-C (M-3), which lists the requirement to maintain records of transition events in any 12 months in SC 18.

37. CCC exceeded the 10-minute limit for transition events [REDACTED] times between January 2024 and January 2026 in violation of SC 1.EUG 2/8.a of Permit Nos. 2004-302-C (M-4) and 2017-0914-C (M-3).

#### EUG 5: CGEUs

38. Records of 7-day rolling averages and 365-day rolling averages for SO<sub>2</sub> and NO<sub>x</sub> were requested for the period of August 2024 through January 2026 to demonstrate compliance with SC 1.EUG 5 of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4) and Paragraphs 17 and 26 of CD 5:15-cv-00290-F. CCC provided these records for the period of January 2024 through December 2025. Compliance cannot be determined during the month of January 2026 due to a lack of records.

39. CCC failed to provide records of NO<sub>x</sub> and SO<sub>2</sub> CEMS data in the last three SARs in violation of Standard Condition III(C) of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4), which both list the requirement to maintain records of NO<sub>x</sub> and SO<sub>2</sub> CEMS data in SC 18.

40. For the period of August 2024 through January 2026, the following exceedances of the 158-ppmvd @ 0% O<sub>2</sub> SO<sub>2</sub> limit for CGEU1 were identified in the CEMS records provided. This is a violation of SC 1.EUG 5 of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4) and Paragraph 17 of CD 5:15-cv-00290-F.

- 1/23/2024; 1 day
- 2/29/2024; 1 day
- 3/21/2024 to 3/24/2024; 4 days
- 9/11/2024 to 9/12/2024; 2 days
- 12/24/2024 to 1/2/2025; 10 days
- 3/14/2025 to 3/16/2025; 3 days
- 4/13/2025 to 4/19/2025; 7 days
- 4/23/2025; 1 day
- 5/22/2025 to 5/29/2025; 8 days
- 11/23/2025 to 11/30/2025; 8 days
- Total between January 2024 and December 2025: 45 days

41. For the period of August 2024 through January 2026, the following exceedances of the 158-ppmvd @ 0% O<sub>2</sub> SO<sub>2</sub> limit for CGEU2 were identified in the CEMS records provided. This is a violation of SC 1.EUG 5 of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4) and Paragraph 17 of CD 5:15-cv-00290-F.

- 1/21/2024; 1 day
- 2/1/2024 to 2/2/2024; 2 days
- 6/23/2024 to 6/26/2024; 4 days
- 10/3/2024 to 10/16/2024; 14 days
- 12/12/2025 to 12/21/2025; 10 days
- Total between January 2024 and December 2025: 31 days

42. For the period of August 2024 through January 2026, the following exceedances of the 54-ppmvd @ 0% O<sub>2</sub> NO<sub>x</sub> limit for CGEU2 were identified in the CEMS records provided. This

is a violation of SC 1.EUG 5 of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4) and Paragraph 26 of CD 5:15-cv-00290-F.

- 12/5/2025 to 12/21/2025; 17 days

43. Per Paragraph 32 of the CD, CCC is required to demonstrate compliance with the PM limit of 0.0069 gr/dscf for each COGEN unit by conducting annual stack tests. The last stack tests were conducted on October 13, 2022, for CGEU1 and on October 11-12, 2022, for CGEU2. The results were in exceedance of the limit for both COGENs, which was addressed in Enforcement Case 13265. The COGENs have not been tested since the failed tests. Therefore, DEQ alleges that the COGENs have been operating out of compliance with the PM limits ever since. This is a violation of SC 1.EUG 5 of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4) and Paragraph 32 of CD 5:15-cv-00290-F.
44. Records of 365-day rolling sums of NOx emissions during heat load, startup, and shutdown for the period of August 2024 through January 2026 were requested to demonstrate compliance with SC 1.EUG 5 and SC 7 of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4) and Paragraph 23 of CD 5:15-cv-00290-F. CCC provided a summary of monthly and annual NOx emissions for heat load. The records provided are not 365-day rolling sums and do not appear to account for startup and shutdown. The records provided show 52.19 TPY in 2025 for all reactors from heat load. Compliance cannot entirely be determined due to a lack of records, but it appears the 50 TPY-limit was at minimum exceeded in 2025.
45. The previous FCE cited violations for exceeding the permit limits for CO and PM for EPN 40 and EPN 41 in performance tests and/or the 2022 and 2023 EIs. Reported CO emissions from EPN 40 and EPN 41 exceeded the limits of Permit No. 2004-302-C (M-4) in the 2024 EI as well; however, the CO limits were significantly increased with the issuance of Permit No. 2017-0914-C (M-3) in August 2025. No further action is required for this violation.
46. Records showing the designed SO<sub>2</sub> removal efficiency of the dry scrubbers were provided upon request and show that SOx removal efficiency at max conditions is 93.56%. Failure to achieve 95% removal of SO<sub>2</sub> emissions at all times is a violation of SC 1.EUG 5.a of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4).
47. Records of CGAs conducted on the CEMS for CGEU1 and CGEU2 going back to Q1 2024 were requested. CCC stated that CGAs are not conducted on the CEMS. Failure to conduct CGAs is a violation of SC 1.EUG 5.d of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4) and Paragraphs 20 and 29 of CD 5:15-cv-00290-F, which require compliance with Appendix F. Appendix F, Paragraph 5, requires that each CEMS be audited at least once each calendar quarter. For the time period of records requested, seven CGAs were missed on each CEMS.
48. Per paragraph 53(d) of the CD, CCC is required to submit summaries of CEMS downtime in the semi-annual CD progress reports. CD Progress Report #20 stated that [REDACTED]; however, the CEMS data provided upon request has intermittent readings during this period. Therefore, it appears the unit was not down continuously during this period. The CEMS downtime summaries should list specific days that the CEMS was not operational. The other three CD progress reports did not include any downtime information. Failure to report downtime summaries in the CD progress reports is a violation of Paragraph 53(d) of CD 5:15-cv-00290-F.
49. The December 14/16, 2023, RATA results for the CGEU2 outlet do not list results in ppmvw @ 0% O<sub>2</sub> for NOx or SO<sub>2</sub> on the summary page. Since the NOx and SO<sub>2</sub> limits established by the CD are listed in ppmvw @ 0% O<sub>2</sub>, the RATA results should be calculated for the same

units per Appendix F, 6.1. The RATA data sheet for NO<sub>x</sub> for units in ppmvw @ 0% O<sub>2</sub> an RA of 23.0%, which is in exceedance of the 20% limit established in Appendix B, PS 2, 13.2. There is no data sheet included in the report for SO<sub>2</sub> for units in ppmvw @ 0% O<sub>2</sub>; therefore, compliance cannot be determined. Failure to submit a passing RATA for NO<sub>x</sub> and SO<sub>2</sub> for CGEU2 in Q4 2023 is a violation of SC 1.EUG 5.d of Permit Nos. 2004-302-C (M-4) and Paragraphs 20 and 29 of CD 5:15-cv-00290-F, which require compliance with Appendices B and F.

50. The February 2025 RATA on CGEU1 was conducted one quarter late. The RATA was required to be conducted in Q4 of 2024. The initial notification had a planned test date during the week of October 14, 2024. CCC submitted three reschedule notifications, one with no explanation, one due to mechanical malfunction, and one due to inclement weather. The RATA was ultimately conducted on February 6-7, 2025. A statement provided in CD Progress Report #20 explained that the CEMS on CGEU1 was not operational for the last two quarters of 2024 due to a major failure with the generator. The RATA was further delayed due to weather. The RATA was eventually conducted by connecting the CGEU2 generator in order to test the CGEU1 CEMS. CEMS data provided indicated that the CEMS was operating sporadically throughout Q3 and Q4 of 2024. Failure to conduct a RATA every four calendar quarters is a violation of SC 1.EUG 5.d of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4) and Paragraphs 20 and 29 of CD 5:15-cv-00290-F, which require compliance with Appendix F.
51. The January 2026 RATA on CGEU2 was conducted one quarter late. The RATA was required to be conducted in Q4 of 2025. The initial notification has a planned test date during the week of November 17, 2025. One reschedule notification was submitted on November 14, 2025, with a planned date during the week of December 15, 2025. There were no subsequent reschedule notifications, and the RATA was ultimately conducted on January 13, 2026. Failure to conduct a RATA every four calendar quarters is a violation of SC 1.EUG 5.d of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4) and Paragraphs 20 and 29 of CD 5:15-cv-00290-F, which require compliance with Appendix F.
52. RATA results are required to be submitted within 60 days of each evaluation per § 60.13(c)(2). The RATA results for the January 2026 tests were submitted timely in response to a records request associated with PCE 63547 on March 12, 2026. The RATA results for the December 2024 and February 2025 tests were submitted upon request for this evaluation. This is a violation of SC 1.EUG 5.d of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4) and Paragraphs 20 and 29 of CD 5:15-cv-00290-F, which require compliance with § 60.13. Additionally, failure to provide these records in the SARs is a violation of Standard Condition III(C) of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4), which both list the requirement to maintain records of CEMS RATA tests in SC 18.
53. CCC has not conducted a PM stack test on CGEU1 and CGEU2 since October 11-12, 2022. Therefore, CCC has missed three annual PM stack tests on each CGEU in violation of SC 1.EUG 5.e of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4) and Paragraphs 32 of CD 5:15-cv-00290-F.

#### EUG 6: Dryer Firebox Stacks

54. NO<sub>x</sub> and PM TPY emissions as reported in the EIs from all six dryers were in exceedance of the limits listed in SC 1.EUG 6 of Permit No. 2017-0914-C (M-3) in 2025 and those of SC 1.EUG 6 of Permit No. 2004-302-C (M-4) in 2022, 2023, and 2024, with the exception of

Dryer 11, 12, and 21 in 2025. VOC emissions from Dryer 41 were also in exceedance in 2022-2025.

#### EUG 10: Carbon Black Tanks

55. CCC uses Donaldson Torit P032358-016-340 cartridge filters for the dust collectors. Donaldson stated that the Ultra-Web Powercore filters are rated MERV 15, which reduces PM 2.5, capturing 85-90% of fine particulates. Failure to comply with 99% collection efficiency is a violation of SC 1.EUG 10.a of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4).

#### SCs 2-10

56. The Baghouse Recordkeeping plan was requested to demonstrate compliance with SC 9.d of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4). Failure to provide these records in the SARs is a violation of Standard Condition III(C) of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4), which both list the requirement to maintain records required by SC 9 in SC 18. This is also a violation of Standard condition III(C) of Permit No. 2017-0914-TVR2, which lists the requirement to maintain records required by SC 11 (Baghouse Recordkeeping condition) in SC 16.

57. The records provided to demonstrate compliance with SC 9.d of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4) do not include information regarding how and where used bag filters are disposed, in violation of SC 9.d.3. This is also a violation of SC 11.d.4 of Permit No. 2017-0914-TVR2.

#### SCs 11-15

58. CCC failed to maintain incident reports of leaks and spills of all carbon black to demonstrate compliance with SC 11.a.6 of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4). CCC stated that there were no incidents that caused a spill or leak of carbon black which needed to be cleaned up. However, while on-site during Complaint PCE 63547 on February 25, 2026, DEQ observed an area east of Production Unit 4 that had stored off spec material with broken bags. The wet sprinklers were running on these piles. During the afternoon on-site inspection on April 16, 2026, DEQ observed a broken bag that had fallen off a pallet that was not present during the morning walk-through. DEQ believes these observations qualify as spills that should be documented in incident reports per this SC. Since the SC references leaks and spills that are "otherwise identified," (i.e., not related to the PM Early Warning System), records of all leaks and spills at the facility should be documented. This is also a violation of Appendix C(6) of CD 5:15-cv-00290-F.

59. Records of daily Method 22 assessments were requested to demonstrate compliance with SC 13.d of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4). The records provided indicate assessments occur at "Shipping Location 4-5" on non-holiday weekdays and at "Production Locations 1 2 3" on most days. It is unclear from these records if all the equipment listed in the SC is included in these areas. The records also only indicate that the assessment was "completed." There is no information regarding findings of any emissions. The records also indicate several days when no assessment was conducted or only a portion of the Production Locations (1, 2, or 3) were assessed. Based on the records provided, it appears that CCC does not conduct daily Method 22 assessments consistently on all required equipment, and the

records appear incomplete regarding findings. This is also a violation of Paragraph 33 of CD 5:15-cv-00290-F.

60. Failure to provide records of Method 22 assessments in the SARs is a violation of Standard Condition III(C) of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4), which both list the requirement to maintain records required by SC 13 in SC 18.
61. CCC stated that they comply with the requirements of SC 13.c of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4). Since the Method 22 records do not contain findings, compliance cannot be determined with SC 13 c. Records of seven Method 9 events were provided, but it cannot be confirmed if other Method 9s were required to be conducted.
62. Failure to provide all Subpart ZZZZ maintenance records in the SARs is a violation of Standard Condition III(C) of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4), which both list the requirement to maintain records required by Subpart ZZZZ in SC 18, and Permit No. 2017-0914-TVR2, which lists the same requirement in SC 16.
63. Since the emergency generators do not operate more than the 500/1000 hour limits of Subpart ZZZZ, CCC is required to conduct maintenance within 1 year + 30 days of the previous maintenance activity. Based on records provided for this FCE and the previous FCE, it appears that the following violations of § 63.6640(a) and Table 2c occurred:
  - Spark Plugs Inspections
    - More than 1 year + 30 days passed between spark plugs inspections on Unit 1&2 (8/8/2023 to 8/6/2025).
    - There are no records of spark plugs inspections on Unit 3.
    - More than 1 year + 30 days passed between spark plugs inspections on Unit 4 (8/8/2023 to 2/6/2025).
  - Hoses/Belts Inspections
    - More than 1 year + 30 days passed between hoses/belts inspections on Unit 1&2 and Unit 4 (8/8/2023 to 11/8/2024).
    - More than 1 year + 30 days passed between hoses/belts inspections on Unit 3 (no records identified during the period reviewed prior to 11/8/2024 inspection).
  - Oil/Oil Filter Changes
    - More than 1 year + 30 days passed between oil and oil filter changes on Unit 1&2 and Unit 3 (no records identified during the period reviewed prior to 6/18/2025 changes).
    - More than 1 year + 30 days passed between oil and oil filter changes on Unit 4 (no records identified during the period reviewed prior to 5/15/2025 changes).
64. Records of total emergency generator operating hours were included with the August 2025 SAR, but not with the February 2025 or February 2026 SAR. Failure to provide these records in the SARs is a violation of Standard Condition III(C) of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4), which both list the requirement to maintain records required by NESHAP Subpart ZZZZ in SC 18, and Permit No. 2017-0914-TVR2, which lists the same requirement in SC 16.
65. Records showing a breakdown of emergency generator usage going back to 2022 were requested, including the purpose of operation (emergency, maintenance and testing, non-emergency). It is unclear from the records provided what the breakdown of operating hours is, though the descriptions appear to be for maintenance checks and readiness testing. Unit 2 operated 168 hours in 2023, which would be in exceedance of the 100 hour-limit for

maintenance checks and readiness testing. Compliance with the limits of § 63.6640(f) cannot be determined.

SCs 16-20

66. The biennial Subpart DDDDD compliance report covering January 1, 2024, to December 31, 2025, was not submitted by January 31, 2026, in violation of § 63.7550(b)(1) and (2). This violation was submitted in a Self-Disclosure on May 21, 2026 (Enforcement Case 14271); however, the case was closed in order to address the violation in this inspection report. The disclosure acknowledged a failure to submit the biennial compliance reports that were due on January 31, 2024, and on January 31, 2026. It should be noted that a violation was already issued in FCE 10414 (Enforcement Case 13265) for failure to submit the 2024 biennial report. A records request for the current FCE was sent to CCC on April 20, 2026. The request asked for the most recent biennial report as it was unable to be located in DEQ's records or in CEDRI. CCC's self-disclosure was not submitted until one month later. Additionally, this violation is a recurring noncompliance issue as it has been issued in the last three FCEs conducted at CBPF (FCE 9056 in 2020, FCE 9404 in 2021, and FCE 10414 to 2024). Since this violation was already identified by DEQ and the issue is recurring, CCC did not meet the requirements of OAC 252:4-9-5 and all eight of the necessary criteria for full credit for mitigation of penalties.
67. A biennial compliance report that was attached to the Self-Disclosure listed a tune-up date of November 11, 2024, for both boilers. Records of the last two biennial tune-ups and burner inspections were requested. The records provided show maintenance reports for what appear to be repairs covering November 11 to December 18, 2024, for the north boiler (Boiler #1) and August 28, 2024, to October 9, 2024, for the south boiler (Boiler #2). Additional maintenance/repair reports were provided for April 7, 2026, for Boiler #1, and for February 16, 2026, for Boiler #2. Based on records provided, November 11, 2024, is not the tune-up date for both boilers and should not have been listed in the biennial report as such. Failure to accurately report tune-up dates in the biennial report is a violation of § 63.7550(c)(5)(xiv).
68. Based on boiler maintenance records provided, it cannot be determined that the tune-up and burner inspection requirements of § 63.7540(a)(10)(i) through (iv) were followed. The records provided appear to be service calls due to repair requirements. Following the February 2024 tune-ups cited by FCE 10414, subsequent tune-ups were required by the end of March 2026.
69. CCC provided reports of transition events (labeled WEG [year]) in the February 2025 and February 2026 SARs to demonstrate compliance with SC 17 of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4). The report was not included with the August 2025 SAR; however, per the WEG report submitted with the February 2026 SAR, there were several transition events to report during the period covered by the August 2025 SAR. Additionally, reports for January 2026 were not included in the February 2026 SAR. Failure to provide these records in all SARs is a violation of Standard Condition III(C) of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4), which both list the requirement to maintain records of transition events in SC 18.
70. CCC provides reports of daily and weekly analyses of sulfur content of feedstock, which are labeled Sulfur [year] and [year] %S – Feedstock & Product, respectively, in the SARs to demonstrate compliance with SC 17 of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4). All three SAR submittals of Sulfur [year] only include results from [REDACTED] of that year. The missing records were provided upon request; however, they do not match the [REDACTED] data

originally submitted, nor do daily totals align with the weekly totals listed in the weekly reports. Failure to provide these records in all SARs is a violation of Standard Condition III(C) of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4), which both list the requirement to maintain records of fuel sulfur content of all feedstock required by SC 17 in SC 18, and Permit No. 2017-0914-TVR2, which lists the same requirement in SC 16.

71. CCC failed to provide records of operation and maintenance of the CGEUs to demonstrate compliance with SC 18.a of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4). The records provided upon request are invoices for parts purchased and maintenance conducted on the CEMS by CEMTK. This record should include operating hours and records of maintenance conducted on the CGEUs themselves. Additionally, failure to provide these records in the SARs is a violation of Standard Condition III(C) of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4).
72. CCC failed to provide records of natural gas usage for the boilers to demonstrate compliance with SC 18.c of Permit Nos. 2017-0914-C (M-3) and 2004-302-C (M-4) and SC 16.g of Permit No. 2017-0914-TVR2. The records included in the SARs are labeled as Plant Boiler NG Usage [year], but they only list total hours and weeks of operation per month for each boiler. Records showing natural gas usage by volume were requested, but the same records that were in the SARs were provided.

#### SCs 21-24

73. CCC had not requested a modification of Permit No. 2017-0914-TVR2 at the time of the inspection and was notified of this violation of SC 23 of Permit No. 2017-0914-C (M-3) during the on-site inspection. CCC subsequently submitted a modification request on May 4, 2025; therefore, no further action is required.
74. Records of semiannual PM sensor inspections and annual system inspections were requested to demonstrate compliance with SC 24 of Permit No. 2017-0914-C (M-3). In response, CCC provided a plan for “particulate monitor daily PMs” and daily maintenance log sheets. The records indicate that the transmitter and receiver lenses are cleaned daily. CCC failed to provide records of comprehensive annual inspections.

#### SCs Specific Only to 2017-0914-TVR2

75. Records of “out-of-range” waste gas combustor temperatures for #11, 12, and 21 are reported in CBPF’s Semiannual Reports to demonstrate compliance with SC 9.a of Permit No. 2017-0914-TVR2. Records for #31, 32, and 41 were provided upon request. Additionally, no records were provided in the SARs for January 2026. Failure to provide these records for #31, 32, and 41 and for all combustors in January 2026 in the SARs is a violation of Standard Condition III(C) of Permit No. 2017-0914-TVR2, which lists the requirement to maintain records of continuously recorded temperature of the waste gas combustors in SC 16.
76. The “out-of-range” temperatures that were provided upon request for waste gas combustors #31, 32, and 41 to demonstrate compliance with SC 9.a of Permit No. 2017-0914-TVR2 are simply a list of times and do not have associated explanations. Therefore, it is assumed that these are violations of this SC. The combustors operated below the 1,500°F limit for [REDACTED] periods (hours) for waste gas combustor #12, [REDACTED] periods for waste gas combustor #31, [REDACTED] periods for waste gas combustor #32, and [REDACTED] periods for waste gas combustor #41.

77. Compliance with the 1,500°F limit of SC 9.a of Permit No. 2017-0914-TVR2 cannot be determined for waste combustors #11, 12, and 21 in January 2026 and for waste gas combustors #31, 32, and 41 in December 2025 due to a lack of records.
78. Compliance with the requirement to conduct annual verification of the thermocouples on the waste gas combustors and annual verification of the thermocouple calibration device per SC 9.d of Permit No. 2017-0914-TVR2 cannot be determined due to lack of records. Failure to provide these records in the SARs is a violation of Standard Condition III(C) of Permit No. 2017-0914-TVR2, which lists the requirement to maintain records of annual calibrations of the thermocouple in SC 16.b.

Additional Violations of CD 5:15-cv-00290-F

79. CD Progress Report 20 was submitted one day late on January 31, 2025. CD Progress Report 21 was submitted one day late on July 31, 2025. These are violations of Paragraph 53 of the CD, which requires submittal by January 30 and July 30.
80. CCC failed to include the following records in the CD progress reports in violation of Paragraph 53 of the CD.
- Records to demonstrate compliance with 7-day and 365-day SO<sub>2</sub> limits.
  - Records to demonstrate compliance with heat load, startup, and shutdown 365-day NO<sub>x</sub> limit.
  - Records to demonstrate compliance with 7-day and 365-day NO<sub>x</sub> limits.
  - CEMS data for any time an emissions limit is exceeded.
    - In a records request, CCC stated that this record is only included if an emissions limit is exceeded. As discussed in SC 1.EUG 5 of Permit No. 2017-0914-C (M-3) above, there were multiple exceedances of the 7-day rolling average limits of SO<sub>2</sub> and one exceedance of the 7-day rolling average for NO<sub>x</sub> during the reporting periods of Progress Reports 19-22. Additionally, the record (Attachment D) included in Progress Reports 20 and 21 does not appear to calculate 7-day rolling averages, but rather a daily average and an average of those days. The days listed also do not correspond to the exceedances discovered in SC 1.EUG 5 using the provided CEMS data.
  - Explanation of any periods of downtime for PM Early Warning System
    - In a response to a records request, CCC stated that records of periods of PM Early Warning System downtime are “explained in the PM Alarm Events that is submitted as an attachment with each Progress Report.” There do not appear to be any records included that show this. It cannot be determined whether no events occurred or if the records were not included. Therefore, compliance cannot be determined with this requirement.
81. Paragraph 54 of the CD states that CCC shall notify EPA and DEQ of any violation of the CD within 30 business days of the day they became aware of the violation, with an explanation of the likely cause of the event, remedial steps or corrective actions taken, or to be taken, including all design operation, and maintenance changes consistent with good engineering practices, if any, to reduce or eliminate the probability of recurrence of such violation. Numerous violations of the CD were identified in this evaluation that were not reported to EPA and DEQ within 30 days.

The following AOCs were also identified:

1. The limit listed in the 30-day report for EE event HQD-91J3-W41AJ, which occurred on March 6, 2025, appears to be a typo. The limit should be 7.86 lb/hr. The amount of excess appears to be calculated correctly with a limit of 7.86 lb/hr. DEQ requests that reported limits are entered accurately in the EE forms.
2. SC 1.EUG 5 incorrectly lists SO<sub>2</sub> limits as ranges. The CD outlines two options (A and B) for final SO<sub>2</sub> emission limits. Option B, which is what is listed in the SC, was meant to be one number (an upper limit) within the range of 120 ppmvd and 158 ppmvd, as determined in the Optimization and Demonstration Study per Appendix E of the CD. The Final SO<sub>2</sub> Optimization and Demonstration Study results were submitted to EPA and DEQ on August 30, 2024. Per the results, final SO<sub>2</sub> emission limits should be set at 158 ppmvd @ 0% O<sub>2</sub> for the 7-day average and 130 ppmvd @ 0% O<sub>2</sub> for the 365-day average. This should be corrected in the next permit update.
3. The SN for emergency generator Unit 3 is listed as 2077604 in the permit memo of Permit No. 2017-0914-C (M-3). The maintenance records for Unit 3 alternate between SN 9120059 and SN 2077604. DEQ requests consistency in records and permitting in order to better track maintenance of Unit 3.
4. Many of the records provided in the SARs and/or upon request do not specify units for the data provided. Additionally, columns and rows of data are often unlabeled making it difficult to interpret what is provided. DEQ requests that all records provided are appropriately labeled with units and that columns and rows of data are clearly labeled.
5. SC 24 of Permit No. 2017-0914-C (M-3) lists requirements for the “tunnel kiln EU-04,” which is not a piece of equipment at CBPF. This should be corrected to “CGEUs” in the next permit update.

***OnBase References***

|                    | Document                            | OID / *CEDRI CROMERR<br>Doc ID |
|--------------------|-------------------------------------|--------------------------------|
| Permits            | 92-092-C PSD (M-1)                  | 5685284                        |
|                    | 2004-302-C (M-2)                    | 5740403                        |
|                    | 2017-0914-TVR2                      | 5700603                        |
|                    | 2004-302-C (M-4)                    | 5700492                        |
|                    | 2017-0914-C (M-3) PSD               | 6110032                        |
|                    | 2023-0099-TVR3 Application          | 5701427                        |
|                    | 2017-0914-C (M-5) Application       | 5659482                        |
|                    | 2017-0914-C (M-5) Withdrawal        | 6134604                        |
|                    | 2017-0914-TVR2 Modification Request | 6296064                        |
| Emission Inventory | 2022                                | 5823830                        |
|                    | 2023                                | 5858949                        |
|                    | 2024                                | 6160087                        |
|                    | 2025                                | 6268814                        |
| ACCs               | 8/1/2024 to 7/31/2025               | 6115821                        |
|                    |                                     | 6119838                        |

|  |                              |                                       |                                |
|--|------------------------------|---------------------------------------|--------------------------------|
|  |                              | 6119837                               |                                |
| SARs   | 8/1/2024 to 1/31/2025        | 5971801                               |                                |
|  |                              | 6115858                               |                                |
|  | 2/1/2025 to 7/31/2025        | 6119837                               |                                |
|  |                              | 6115819                               |                                |
|  | 8/1/2025 to 1/31/2026        | 6250491                               |                                |
| CD Semiannual Progress Reports                                 | #19: 1/1/2024 to 6/30/2024   | 4970211                               |                                |
|  |                              | 6329368                               |                                |
|  | #20: 7/1/2024 to 12/31/2024  | 5819652                               |                                |
|  |                              | 5965168                               |                                |
|  | # 21: 1/1/2025 to 6/30/2025  | 6087372                               |                                |
|  |                              | 6225929                               |                                |
|  | # 22: 7/1/2025 to 12/31/2025 | 6230791                               |                                |
| CD Final SO <sub>2</sub> Optimization and Demonstration Report |                              | 5783585                               |                                |
| CD Force Majeure Claim   | February 10, 2025            | 5954159                               |                                |
| RATAs  | December 2023                | 5624172                               |                                |
| MACT Semiannual Reports (Subparts SS and YY)                   | 8/1/2024 to 1/31/2025        | 5972267                               |                                |
|  | 2/1/2025 to 7/31/2025        | 6118802                               |                                |
|  | 8/1/2025 to 1/31/2026        | 6243422                               |                                |
| MACT Subpart DDDDD Biennial Reports                            | 2022                         | *13cd0944-6d9e-42a4-ac38-fe4cacce637e |                                |
|  | 2026 (Self-Disclosure)       | 6311614                               |                                |
| <b>Records Received from CCC</b>                               |                              |                                       |                                |
| Filter Efficiencies  |                              | 6330576                               |                                |
| Responses to Questions   | Records Request 1            | 6329368                               |                                |
|  | Records Request 2            |                                       |                                |
| Emergency Generator Operating Hours                            |                              |                                       | PO Records Request 2026        |
| AVO/LDAR Records   |                              |                                       | ODEQ Records Request #2        |
| Method 9 Events  |                              |                                       | Folder #14d, Request No. 1c    |
| CEMS Data  |                              |                                       | Folder LDAR Records            |
| NOx Emissions for Heat Load                                    |                              |                                       | Folder #12, #13                |
| Dry Scrubber Efficiency  |                              |                                       | Folder #8, #28 (1&3)           |
| RATAs  |                              |                                       | Folder #8                      |
| Natural Gas Receipt  |                              |                                       | Folder #8                      |
| Baghouse Recordkeeping   |                              |                                       | Folder #8                      |
| Method 22 Summaries  |                              |                                       | Folder #9                      |
| NESHAP Subpart ZZZZ Maintenance                                |                              |                                       | Folder #11, Bag Filter Records |
| NESHAP Subpart DDDDD Maintenance                               |                              |                                       | Folder #12, #13                |
| Transition Events  |                              |                                       | Folder #14c                    |
| Sulfur Content of Feedstock                                    |                              |                                       | Folder #15                     |
|  |                              | Folder 7.SC1.EUG 28.b and c           |                                |
|  |                              | Folder #16                            |                                |

|  |               |                                |
|--|---------------|--------------------------------|
| CEMS Maintenance Receipts              |               | Folder #17                     |
| Boiler Natural Gas Usage (hours/weeks) |               | Folder #18                     |
| Insignificant Activities               | Storage Tanks | #19 - Insignificant Activities |
| Particulate Monitor Maintenance        |               | Folder #2c                     |
| Waste Gas Combustor<br>Temperatures    | #31, 32, 41   | Folder #2c, #23                |
| CD Progress Report #19 Missing Pages   |               | Folder #27, Request No. 5      |