MEMORANDUM

TO: Angela D. Marconi, P.E.

FROM: Amy S. Mann, P.E.

SUBJECT: **Croda Inc.**
Atlas Point
"Proposed" Permit: APC-2023/0098-CONSTRUCTION (FE)
Flare System

DATE: December 3, 2024

BACKGROUND INFORMATION

Croda Inc. (Croda, the Company, or the Facility) manufactures chemical products and surfactants in various reactors, kettles, autoclaves, and other vessels. The Facility currently operates under a Title V permit, **Permit: APC-003/00058-Renewal (03) Revision (07)**, dated April 19, 2023, and is a major source of NO_X and CO_2.

Croda requested a Construction Permit for the installation of a 20" diameter steam assisted natural gas flare with a 3" diameter steam assisted piggyback flare (the "Flare System") in an application dated June 16, 2023. Additional information was requested on November 7, 2023, and the information was received on November 20, 2023. A Pre-Notification Draft of **Permit: APC-2023/0098-CONSTRUCTION (FE)** was provided to Croda on March 6, 2024, and Croda's written response was received on March 15, 2024.

Croda's construction permit application preemptively requested that a public hearing be held regarding this Flare System. A public notice was issued on March 24, 2024, advertising both the application and the April 24, 2024, Public Hearing, in the **News Journal** and the **Delaware State News** for 30 days.

The virtual public hearing was held on April 24, 2024. The public comment period remained open after the public hearing and closed on May 10, 2024. Croda provided a response to the public hearing and submitted comments on May 24, 2024. The Department requested additional information from Croda on June 18, 2024. Croda responded to the request for additional information on July 15, 2024. The Division of Air Quality submitted a technical response memo and accompanying proposed permit to the Hearing Officer on August 26, 2024.

On December 2, 2024, the Department's Secretary Garvin requested that a requirement that Croda complete corrective actions based upon the results of the root cause analysis required when the flare system is activated be added to the proposed permit. This requirement was not originally included as not all flare activations (i.e. power outages) will require corrective actions. Please see the table below for the changes made to the proposed permit.

Condition Number	Action Type	Condition Language
3.7.4	Addition	If applicable, the corrective action(s) taken to address the process malfunction.
6.7.9	Addition	Any corrective actions taken pursuant to Condition 3.7.4.

RECOMMENDATIONS

It is recommended that the updated proposed permit be sent to the Secretary.

ASM;asm
F:\EngAndCompliance\ASM\asm24026.docx

pc: Dover File

STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
DIVISION OF AIR QUALITY
STATE STREET COMMONS
100 W. WATER STREET, SUITE 6A
DOVER, DELAWARE 19904

ENGINEERING & COMPLIANCE

PHONE
(302) 739-9402

PROPOSED

December 3, 2024

"Proposed" Permit: APC-2023/0098-CONSTRUCTION (FE)

Croda Inc.
Flare System
Atlas Point
315 Cherry Lane
New Castle, DE 19720

ATTENTION: Chris Hood
Acting Site Director

Dear Mr. Hood:

Pursuant to 7 DE Admin. Code 1102 Section 2 and Section 11, approval by the Department of Natural Resources and Environmental Control (the Department) is hereby granted for the construction of a 20" Steam Assisted Flare with 3" Steam Assisted Piggyback Flare (Flare System) located at the Croda Inc. Atlas Point facility in New Castle, Delaware, in accordance with the application submitted on Form Nos. AQM-1 and AQM-2, AQM-4.3 and AQM-5 dated June 16, 2023 signed by Josh Dube, Site Director, and email dated November 20, 2023 from Allison Bard, Lead SHE Advisor.

This permit is issued subject to the following conditions all of which are federally enforceable except Condition 6.1 and 2.3:

1. General Provisions

1.1 This permit expires on <insert date>. If the equipment covered by this permit will not be constructed by <insert date>, an application for renewal of this construction permit must be submitted by <insert date minus 180 days>>. *[Reference 7 DE Admin. Code 1102 Section 11.10 dated 06/11/2006]*

1.2 The project shall be constructed in accordance with the information described above. If changes are necessary, revised plans must be submitted and a supplemental approval issued prior to actual construction. *[Reference 7 DE Admin. Code 1102 Section 11 dated 06/11/2006]*

1.3 Upon presentation of identification, the Company shall authorize officials of the Department to:

1.3.1 Enter upon the Company's premises where a source is located or an emissions-related activity is conducted, or where records that must be kept under the terms and conditions of this permit are located. **[This condition was taken from**

Permit: AQM-003/00058-Renewal (03) Revision (07)] *[Reference 7 DE Admin. Code 1130 Section 6.3.2.1 dated 08/11/2022]*

1.3.2 Have access to and copy, at reasonable times, any record(s) that must be kept under the terms and conditions of this permit. **[This condition was taken from Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.3.2.2 dated 08/11/2022]*

1.3.3 Inspect, at reasonable times, any record(s) that must be kept under the terms and conditions of this permit. **[This condition was taken from Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.3.2.3 dated 08/11/2022]*

1.3.4 Sample or monitor, at reasonable times, any substance or parameter for the purposes of assuring compliance with this permit or any applicable requirement. **[This condition was taken from Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.3.2.4 dated 08/11/2022]*

1.4 This permit may not be transferred to another location or to another piece of equipment or process. *[Reference 7 DE Admin. Code 1102 Section 7.1 dated 06/01/1997]*

1.5 This permit may not be transferred to another person, owner, or operator unless the transfer has been approved in advance by the Department. Approval (or disapproval) of the permit transfer will be provided by the Department in writing. A request for a permit transfer shall be received by the Department at least thirty (30) days before the date of the requested permit transfer. This request shall include: *[Reference 7 DE Admin. Code 1102 Section 7.1 dated 06/01/1997 and 7 Del. C., Chapter 79]*

1.5.1 Signed letters from each person stating the permit transfer is agreeable to each person; and

1.5.2 An Applicant Background Information Questionnaire pursuant to 7 Del. C., Chapter 79 if the person receiving the permit has not been issued any permits by the Department in the previous five (5) years.

1.6 The Company shall, upon completion of the construction, installation, or alteration of each emission unit, request in writing that the Department transfer the terms and conditions of this construction permit into the 7 DE Admin. Code 1130 operating permit. *[Reference 7 DE Admin. Code 1102 Section 11.5 dated 06/11/2006]*

1.7 The request shall contain the following information, and shall contain the following language from the responsible official: "I certify, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete." *[Reference 7 DE Admin. Code 1102 Section 11.5.1 dated 06/11/2006]*

1.7.1 A description of the compliance status, a complete schedule, and a certification of compliance for the equipment, facility, or air contaminant control device with respect to all applicable requirements, in accordance with 7 DE Admin. Code 1130 Section 5.4.8 and 5.4.9; and

1.7.2 A statement of the methods used to determine compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods.

PROPOSED

1.8 Upon satisfactory demonstration that the equipment, facility, or air contaminant control device complies with all applicable requirements and all terms and conditions of the construction permit, and not prior to the expiration of the EPA review period provided for in 7 DE Admin. Code 1102, Section 12.5, the Department shall transfer the specified terms and conditions to the 7 DE Admin. Code 1130 permit via the administrative amendment process specified in 7 DE Admin. Code 1130. *[Reference 7 DE Admin. Code 1102 Section 11.5.2 dated 06/11/2006]*

1.9 The provisions of 7 DE Admin. Code 1102 Sections 2.1, 11.3, and 11.5 shall not apply to the operation of equipment or processes for the purpose of initially demonstrating satisfactory performance to the Department following construction, installation, modification, or alteration of the equipment or processes. The Company shall notify the Department sufficiently in advance of the demonstration and shall obtain the Department's prior concurrence of the operating factors, time period, and other pertinent details relating to the demonstration. *[Reference 7 DE Admin. Code 1102 Section 11.12 dated 06/11/2006]*

1.10 The owner or operator shall not initiate construction, install, or alter any equipment or facility or air contaminant control device which will emit or prevent the emission of an air contaminant prior to submitting an application to the Department pursuant to 7 DE Admin. Code 1102, and, when applicable, 7 DE Admin. Code 1125, and receiving approval of such application from the Department; except as exempted in 7 DE Admin. Code 1102 Section 2.2. *[Reference 7 DE Admin. Code 1102 Section 2.1 dated 06/11/2006]*

2. Emission Limitations

2.1 Air contaminant emission levels for the Flare System shall not exceed those specified in 7 DE Admin. Code 1100 and the following:

2.1.1 Nitrogen Oxides (NO_X) Emissions

NO_X emissions from operation of the flare system shall not exceed 5.2 pounds per hour and 2.6 tons per twelve (12) month rolling period; **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.1 dated 08/11/2022]*

2.1.2 Sulfur Oxides (SO_X) Emissions

SO_x emissions from operation of the flare system shall not exceed 0.03 pounds per hour and 0.02 tons per twelve (12) month rolling period; **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.1 dated 08/11/2022]*

2.1.3 Carbon Monoxide (CO) Emissions

CO emissions from operation of the flare system shall not exceed 4.4 pounds per hour and 2.2 tons per twelve (12) month rolling period; **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.1 dated 08/11/2022]*

PROPOSED

2.1.4 Volatile Organic Compound (VOC) Emissions

2.1.4.1 VOC emissions from operation of the Flare System shall not exceed 0.3 pounds per hour and 0.1 tons per twelve (12) month rolling period; **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.1 dated 08/11/2022]*

2.1.4.2 VOC emissions from gases directed through the Flare System shall meet all emission limitations from the 7 DE Admin. Code Section 1102 Permit or Section 1130 (Title V) Permit which pertains to the process unit the gases originated from. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.1 dated 08/11/2022]*

2.1.5 Particulate Matter (PM) Emissions

2.1.5.1 Total Particulate Matter (TPM or PT) emissions from operation of the flare system shall not exceed 0.4 pounds per hour and 0.2 tons per twelve (12) month rolling period; **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.1 dated 08/11/2022]*

2.1.5.2 The owner or operator shall not cause or allow the emission of total particulate matter (TPM or PT) in excess of 0.3 lb/MMBtu heat input, maximum two (2) hour average. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1104 Section 2.1 dated 01/11/2017 and 7 DE Admin. Code Section 1130 Section 6.1.1 dated 08/11/2022.]*

2.2 No person shall cause or allow the emission of visible air contaminants and/or smoke from a stationary or mobile source, the shade or appearance of which is greater than twenty percent (20%) opacity for an aggregate of more than three (3) minutes in any one (1) hour or more than fifteen (15) minutes in any twenty-four (24) hour period. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1114 Section 2.0 dated 11/11/2013]*

2.3 Odors from this source shall not be detectable beyond the plant property line in sufficient quantities such as to cause a condition of air pollution. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1119 Section 2.0 dated 02/01/1981]*

3. Operational Limitations

3.1 The Flare System shall be operated with a flame present at all times that connected equipment is in operation. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 40 CFR Part 60 Subpart A §60.18(c)(2) dated 12/22/2008]*

3.2 The Flare System shall be activated only during periods of start-up, shut-down and malfunction.

3.2.1 An activation shall be any time gases are flared in the 3" steam assisted piggyback flare OR the firing of the 20" steam assisted flare. **[This condition will**

PROPOSED

be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)] *[Reference 7 DE Admin. Code 1130 Section 6.1.1 dated 08/11/2022]*

3.2.2 A malfunction shall mean any sudden and unavoidable failure of air pollution control equipment or of a process to operate in a normal or usual manner. Failures that are caused entirely or in part by poor maintenance, careless operation, or any other preventable upset condition or preventable equipment breakdown shall not be considered malfunctions. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1101 Section 2.0 dated 01/11/2019 and 7 DE Admin. Code 1130 Section 6.1.1 dated 08/11/2022]*

3.3 The Flare System shall only be fueled by natural gas.

3.3.1 When the net heating value of the waste gas being combusted is less than 300 btu/scf, additional natural gas shall supplement the gas being combusted to bring the neat heating value to greater than or equal to 300 btu/scf. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 40 CFR Part 60 Subpart A §60.18(c)(3)(ii) dated 12/22/2008 and 7 DE Admin. Code 1130 Section 6.1.1 dated 08/11/2022]*

3.4 The Flare System shall be designed for and operated with no visible emissions except for periods not to exceed a total of 5 minutes during any 2 consecutive hours, or periods of startup, shutdown, and malfunction of the Flare System. The provisions of Condition 2.2 of this permit apply at all times. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 40 CFR Part 60 Subpart A §60.11(c) dated 10/17/2000, 40 CFR Part 60 Subpart A §60.18(c)(1) dated 12/22/2008 and 7 DE Admin. Code 1130 Section 6.1.1 dated 08/11/2022]*

3.5 The Flare System shall not operate greater than 876 hours per twelve (12) month rolling period. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.1 dated 08/11/2022]*

3.6 Only the process units and associated tie-in points listed in Appendix A may be routed to the Flare System. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.1 dated 08/11/2022]*

3.6.1 The addition of points to be routed to the Flare System shall be requested via the administrative amendment process.

3.6.1.1 The administrative amendment shall contain, at a minimum, the following information:

3.6.1.1.1 The process unit(s);

3.6.1.1.2 The associated tie-in points;

3.6.1.1.3 The 7 DE Admin. Code Section 1102 Permit or Section 1130 (Title V) Permit emissions limitations associated with the process unit(s)

3.6.1.2 The owner or operator shall provide the Department with a thirty (30) day review period from the date of its receipt of the administrative amendment. It is the responsibility of the owner or operator to ensure

PROPOSED

that the Department has received the administrative amendment, either by hand delivering it, by using certified mail (or equivalent service) and obtaining a confirmation of delivery receipt, or by confirming with the appropriate Department staff, either orally or in writing that it has been received. If no response is received from the Department within thirty days, the owner or operator may initiate construction to tie in the requested process unit(s)/tie-in points. If the Department objects to the construction as proposed, the owner or operator shall not initiate construction until the concerns of the Department have been addressed and the Department grants approval for its use. The Department may, at its discretion, grant approval before the full thirty days have passed.

3.7 The owner or operator shall conduct a root cause analysis within thirty (30) business days of each process malfunction that activates the Flare System. A root cause analysis shall include, but is not limited to:

3.7.1 The source of the gas flow(s) which activated the Flare System;

3.7.2 The flow rate (or estimated flow rate), duration and chemical identity of the gas flow(s) which activated the Flare System;

3.7.3 The cause(s) for gas flowing to the Flare System.

3.7.4 If applicable, the corrective action(s) taken to address the process malfunction.

3.8 At all times, including periods of startup, shutdown, and malfunction, the owner or operator shall, to the extent practicable, maintain and operate the facility, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determinations of whether acceptable operating procedures are being used will be based on information available to the Department, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1101 Section 3 dated 11/11/2013 and 7 DE Admin. Code 1102 Section 11.6 dated 06/11/2006]*

3.9 All structural and mechanical components of the equipment covered by this permit and in use shall be maintained in proper operating condition. **[This condition was taken from Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1101 Section 3 dated 11/11/2013 and 7 DE Admin. Code 1102 Section 11.6 dated 06/11/2006]*

4. Testing and Monitoring Requirements

4.1 The Department reserves the right to require that the owner or operator perform emission tests using methods approved in advance by the Department. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.3.2.2 dated 08/11/2022]*

4.2 The Company shall install, maintain and operate the Flare System according to manufacturer specifications. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.1 dated 08/11/2022]*

PROPOSED

4.3 Compliance with the emission limits of Conditions 2.1.1, 2.1.2, 2.1.3, 2.1.4.1, and 2.1.5.1 shall be demonstrated by monitoring of natural gas usage and hours of Flare System uptime and activation. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 08/11/2022]*

4.4 Compliance with the opacity limits of Conditions 2.2 and 3.4 shall be demonstrated by visible emissions monitoring using Method 22 of Appendix A of 40 CFR Part 60. The observation period shall be 2 hours or the length of the Flare System activation, if less than 2 hours. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 40 CFR Part 60 Subpart A §60.18(f)(1) dated 12/22/2008 and 7 DE Admin. Code 1130 Section 6.1.3.1.1 dated 08/11/2022]*

4.5 Compliance with the requirement of Condition 2.3 shall be demonstrated by monitoring for complaints from local residents and neighboring facilities. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 08/11/2022]*

4.6 Compliance with the operational limit of 3.1 shall be demonstrated by monitoring for the presence of a flare pilot flame using a thermocouple or any other equivalent device to detect the presence of a flame. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 40 CFR Part 60 Subpart A §60.18(f)(2) dated 12/22/2008 and 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 08/11/2022]*

4.7 Compliance with the operational limitations of Condition 3.2, 3.2.1, and 3.2.2, and 3.7 shall be demonstrated through recordkeeping. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.3.2.2 dated 08/11/2022]*

4.8 Compliance with the operational limitations of Condition 3.3, 3.3.1, and 3.5 shall demonstrated through monitoring of natural gas usage and hours of Flare System uptime and activation. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 08/11/2022]*

4.9 Compliance with the operation limitation of Condition 3.6 shall be demonstrated through recordkeeping. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 08/11/2022]*

5. Record Keeping Requirements

5.1 The owner or operator shall maintain, at a minimum, all of the information required by this permit for a minimum of five (5) years from such information's date of record. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.3.2.2 dated 08/11/2022]*

5.2 The owner or operator shall maintain a copy of the manufacturer specifications and operations manual for the lifetime of the Flare System. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.3.2.2 dated 08/11/2022]*

5.3 The monthly and rolling twelve (12) month totals shall be calculated and recorded in a log within 15 days of the end of each calendar month for the following: **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.3.2.2 dated 08/11/2022]*

PROPOSED

5.3.1 Natural gas usage by the Flare System;

5.3.2 Hours of Flare System uptime;

5.3.3 Hours of Flare System activation.

5.4 The owner or operator shall keep a log of Method 22 monitoring performed in accordance with Condition 4.4. The log shall note the absence or presence of visible emissions, the length of time of visible emissions (if applicable) and the signature of the person performing the monitoring. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.3.2.2 dated 08/11/2022]*

5.5 The owner or operator shall keep a log of odor complaints and any associated monitoring/testing to demonstrate compliance with Condition 4.5. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.3.2.2 dated 08/11/2022]*

5.6 The owner or operator shall record flare pilot flame temperatures in a computer database at least hourly to demonstrate compliance with Condition 4.6. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.3.2.2 dated 08/11/2022]*

5.6.1 If at any time logging in the computer database is not possible, the owner or operator shall record the flare pilot flame temperatures hourly in a log containing the date, time, identification of the flare pilot, temperature and the signature of the person recording the data.

5.7 The owner or operator shall maintain records of the root cause analysis conducted pursuant to Condition 3.7 for each process malfunction that activates the Flare System. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.3.2.2 dated 08/11/2022]*

5.8 The owner or operator shall maintain updated process flow diagrams for the Flare System. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.3.2.2 dated 08/11/2022]*

5.9 The rolling twelve (12) month total emissions shall be calculated and recorded in a log within 15 days of the end of each calendar month for each of the following pollutants: **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.3.2.2 dated 08/11/2022]*

5.9.1 Nitrogen Oxides (NO_X) Emissions from Flare System combustion

5.9.2 Sulfur Oxides (SO_x) Emissions from Flare System combustion

5.9.3 Carbon Monoxide (CO) Emissions from Flare System combustion

5.9.4 Volatile Organic Compound (VOC) Emissions from Flare System combustion

5.9.5 Particulate Matter (PM) Emissions from Flare System combustion

5.9.6 Volatile Organic Compound (VOC) Emissions from waste gas destruction

PROPOSED

6. Reporting Requirements

6.1 Emission in excess of any permit condition or emissions which create a condition of air pollution shall be reported to the Department:

6.1.1 Immediately upon discovery and after activating the appropriate site emergency plan to the Department's 24-hour complaint line (1-800-662-8802) any deviation that poses an imminent and substantial danger to public health, safety, or the environment. **[This condition was taken from Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.3.3.3.2 dated 08/11/2022]*

6.1.2 Immediately upon discovery by calling the Environmental Emergency Notification and Complaint number, (800) 662-8802. (State Enforceable Only) **[This condition was taken from Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.3.3.3.3 dated 08/11/2022]*

6.2 Discharges to the atmosphere in excess of any quantity specified 7 DE Admin. Code 1203 "**Reporting of a Discharge of a Pollutant or an Air Contaminant**" shall be reported, immediately upon discovery and after activating the appropriate site emergency plan, either in person or to the Department's 24-hour complaint line (1-800-662-8802). Discharges in compliance with this permit and excess emissions previously reported under Condition 6.1 of this permit are exempt from this reporting requirement. **[This condition was modified from Permit: AQM-003/00058- Renewal (03) Revsion (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.3.3.3.5 dated 08/11/2022 and 7 Del. C. Chapter 60, Section 6028]*

6.3 In addition to complying with Condition 6.1 and 6.2 of this permit, any reporting required by 7 DE Admin. Code 1203 "**Reporting of a Discharge of a Pollutant or an Air Contaminant**" and any other reporting requirements mandated by the State of Delaware, the owner or operator shall for each occurrence of excess emissions, within thirty (30) calendar days of becoming aware of such occurrence, supply the Department in writing with the following information: **[This condition was modified from and will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1112 Section 7.3 paragraphs 1, 2, 3, 4, and 5 dated 11/24/1993]*

6.3.1 The name and location of the facility;

6.3.2 The subject source(s) that caused the excess emissions;

6.3.3 The time and date of first observation of the excess emissions;

6.3.4 The cause and expected duration of the excess emissions;

6.3.5 For sources subject to numerical emission limitations, the estimated rate of emissions (expressed in the units of the applicable emission limitation) and the operating data and calculations used in determining the magnitude of the excess emissions; and

6.3.6 The proposed corrective actions and schedule to correct the conditions causing the excess emissions.

PROPOSED

6.4 Emissions to the atmosphere of gases directed through the Flare System shall meet all emission limitations from the 7 DE Admin. Code Section 1102 Permit or Section 1130 (Title V) Permit which pertains to the process unit where those gases originated. Emissions in excess of applicable emission limits shall be reported in accordance with the 7 DE Admin. Code Section 1102 Permit or Section 1130 TV Permit which pertains to the process unit the gases originated from. **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Sections 6.1.3.3.3.2 and 6.1.3.3.3.3 dated 08/11/2022]*

6.5 Each document submitted to the Department/EPA pursuant to this permit shall be certified by a Responsible Official as to truth, accuracy, and completeness. Such certification shall be signed by a Responsible Official and shall contain the language: "I certify, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete." **[This condition was taken from Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 5.6 dated 11/15/93 and 6.3.1 dated 08/11/2022]*

6.6 Each document submitted to the Department/EPA pursuant to this permit, shall be sent to the following addresses: **[This condition was modified from Permit: AQM-003/00058-Renewal (03) Revision (07)]**

State of Delaware – DNREC Division of Air Quality State Street Commons 100 W. Water Street, Suite 6A Dover, DE 19904 ATTN: Division Director	United States Environmental Protection Agency Region III, Enforcement & Compliance Assurance Division Air, RCRA and Toxics Branch (3ED21) Four Penn Center 1600 John F. Kennedy Boulevard Philadelphia, Pennsylvania 19103-2852
No. of Originals: **1**	No. of Copies: **1**

6.7 The owner or operator shall submit to the Department within 30 days of the end of each quarter a Flare Activation Report consisting of the following: **[This condition will be transferred to Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.1.3.3.1 dated 08/11/2022]*

6.7.1 The date of each activation of the Flare System;

6.7.2 For each activation of the Flare System, the flow rate (or estimated flow rate) and location where flow originated for each gas flow;

6.7.3 For each gas flow to the Flare System, the duration of the gas flow;

6.7.4 For each gas flow to the Flare System, the constituents for the gas flow;

6.7.5 For each activation of the Flare System, the calculation (or estimate) of mass of pollutant(s) supplied to the Flare System;

6.7.6 For each activation of the Flare System, the estimated mass of pollutant(s) emitted to the atmosphere;

6.7.7 For each gas flow to the Flare System, an indication of whether the estimated emissions are in compliance, or out of compliance, with any permitted emissions rate;

PROPOSED

6.7.8 For those gas flows that are not in compliance with a permitted emissions rate, or for which no permitted emissions rate exist, the date the excess emissions were reported.

6.7.9 Any corrective actions taken pursuant to Condition 3.7.4.

7. Compliance Certification

7.1 Compliance with the terms and conditions of this permit shall be certified to the Department not later than the first day of February of each year unless the terms and conditions require Compliance Certifications to be submitted more frequently. Such certifications shall cover the previous calendar year and shall be submitted on Form AQM-1001BB. The Compliance Certification shall include the following information: **[This condition was taken from Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.3.5.3.1 dated 08/11/2022]*

7.1.1 The identification of each term or condition of the permit that is the basis of the certification. **[This condition was taken from Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.3.5.3.1 dated 08/11/2022]*

7.1.2 The Company's current compliance status, as shown by monitoring data and other information reasonably available to the Company. **[This condition was taken from Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.3.5.3.2 dated 08/11/2022]*

7.1.3 Such certification shall indicate whether compliance was continuous or intermittent during the covered period. **[This condition was taken from Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7* ***DE Admin. Code*** *1130 Section 6.3.5.3.3 dated 08/11/2022]*

7.1.4 The method(s) used for determining the compliance status of the Company, currently and over the reporting period as required by the monitoring, record keeping, and reporting required under Conditions 4, 5, and 6. **[This condition was modified from Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.3.5.3.4 dated 08/11/2022]*

7.1.5 Such other facts that the Department may require to determine the compliance status of the source. **[This condition was taken from Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.3.5.3.5 dated 08/11/2022]*

7.2 Each compliance certification shall be submitted to the Department and EPA and shall be certified in accordance with Condition 6.5 of this permit. **[This condition was modified from Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1130 Section 6.3.5.4 dated 08/11/2022]*

7.3 Any additional information possessed by the Company that demonstrates noncompliance with any applicable requirement must also be used as the basis for Compliance Certifications. **[This condition was taken from Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 62 FR 8314 dated 2/24/97]*

PROPOSED

8. Administrative Conditions

8.1 The Company shall have available at the facility at all times a copy of this permit and shall provide a copy of this permit to the Department upon request. **[This condition was taken from Permit: AQM-003/00058-Renewal (03) Revision (07)]** *[Reference 7 DE Admin. Code 1102 Section 8.0 dated 06/01/1997]*

8.2 Failure to comply with the provisions of this permit may be grounds for suspension or revocation. *[Reference 7 DE Admin. Code 1102 Section 6 dated 06/11/2006]*

Sincerely,

Amy S. Mann, P.E.
Program Administrator
Engineering & Compliance Section

ASM;asm
F:\EngAndCompliance\asm\asm24025.docx

pc: Dover Title V File
James H. Gill
Eric S. Rowland

PROPOSED

Appendix A

Process Unit and Tie-In Points Permitted to Route to Flare System

Process Unit	Tie-In Point
T115	PSV-1750
	PSV-1751
T220	XV-2210B
T310	PSV-3200
	PSV-3201
C320	PSV Header (Multiple PSVs)
D320	PSV-3410
	PSV-3411
T320	PSV-3322B
	PSV-3301
	PSV-3302
D430	PV-4206
T430	PSV-4201
	PSV-4202
	XV-4281
D431	PSV-4206
	PSV-4207
D1210	XV-12202B
E1220	PSV-12100
	PSV-12101
D1260	PSV-12610
	PSV-12611
R1260	PSV-12602
	PSV-12603
T1270	PSV-12700
	PSV-12701
U1280	PSV Header (Multiple PSVs)
T1290	PSV-12901
	PSV-12902
D1410A	PV-14115B
	PSV-14110
	PSV-14111
D1410B	PV-14125B
	PSV-14120
	PSV-14121
Sample Vents	FV-3423
	V-9177
	V-4292
EO Transfer Line	SV-14156
	XV-14166
	P-14151

PROPOSED