[If different from owner]



# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AIR QUALITY PROGRAM

#### TITLE V/STATE OPERATING PERMIT

Issue Date: May 31, 2023 Effective Date: May 31, 2023

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to operate the air emission source(s) more fully described in this permit. This Facility is subject to all terms and conditions specified in this permit. Nothing in this permit relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable applicable requirements unless otherwise designated as "State-Only" or "non-applicable" requirements.

TITLE V Permit No: 09-00015

Federal Tax Id - Plant Code: 23-1028370-3

Owner Information

Name: ROHM & HAAS CO Mailing Address: 200 ROUTE 413

BRISTOL, PA 19007-3606

Plant Information

Plant: ROHM & HAAS CO/BRISTOL

Location: 09 Bucks County 09001 Bristol Township

SIC Code: 2821 Manufacturing - Plastics Materials And Resins

Operator

Name: ROHM & HAAS CHEMLLC

Mailing Address: 200 ROUTE 413

BRISTOL, PA 19007-3606

Responsible Official

Name: PATRICK PEDROTTI

Title: SR SITE MANUFACTURING LDR

Phone (215) 785 - 7026 Email: ppedrotti@dow.com

Permit Contact Person

Name: BRANDON SHIMP

Title: ENVIRONMENTAL MANAGER

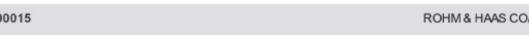
Phone: (215) 781 - 4737 Email: bshimp@dow.com

[Signature] James Kelvickon

JAMES D. RÉBARCHAK, SOUTHEAST REGION AIR PROGRAM MANAGER

Site Inventory List

SECTION A.

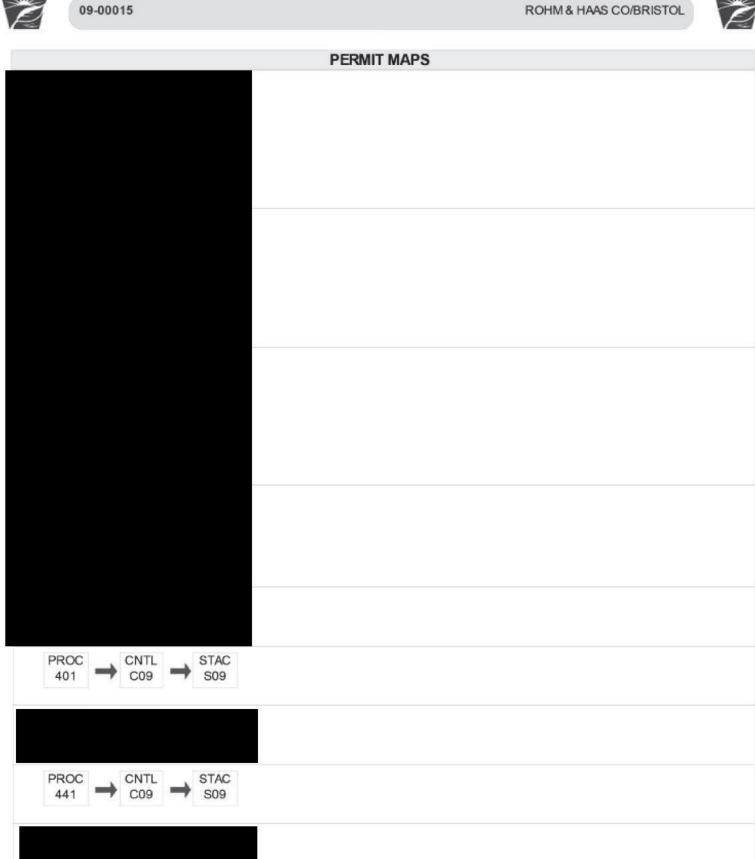


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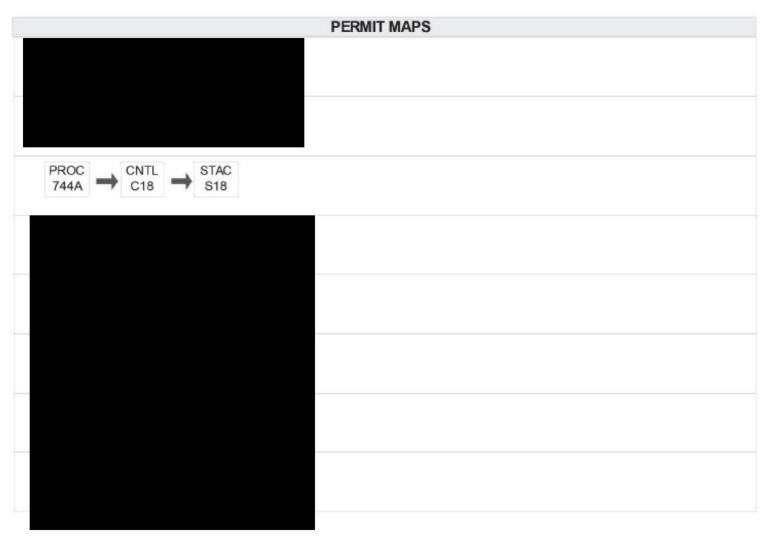
Source II	O Source Name	Capacity/	Throughput	Fuel/Material
101	CRU PROCESS (CROYDON)	30.500	Tons/HR	ACRYLIC
141	CRUX PROCESS (CROYDON)	6.300	Tons/HR	ACRYLIC EMULSION
	,			
744A	RAW MATERIAL STORAGE TANKS (BRISTOL)		N/A	VOC EMISSIONS FROMT
009	CATALYTIC OXIDIZER		N/A	VOC
218	REGENERATIVE THERMAL OXIDIZER		N/A	VOC

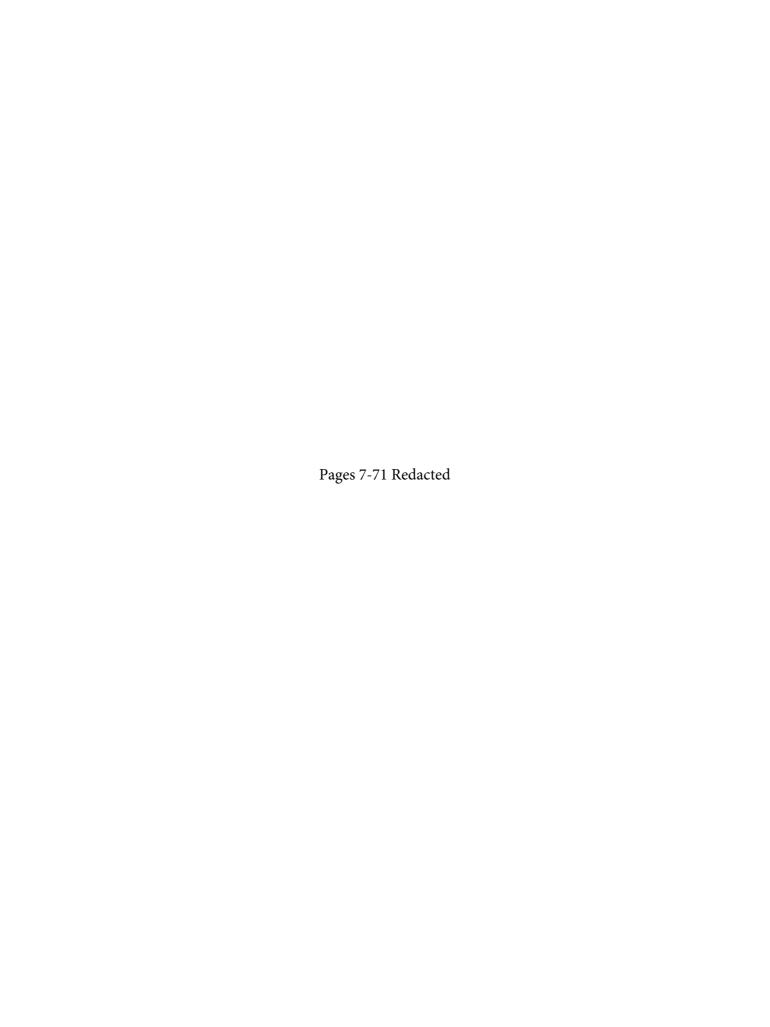
Page 4 DEP Auth ID: 1405827 DEP PF ID: 245649















Source ID: C09 Source Name: CATALYTIC OXIDIZER

Source Capacity/Throughput: N/A VOC

CNTL → STAC S09

#### RESTRICTIONS.

Control Device Efficiency Restriction(s).

# 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Catalytic Oxidizer (Source C09), which controls pollutant emissions from the CRU and CRUX Processes, shall achieve 98% destruction efficiency for VOC or an outlet concentration not exceeding 20 ppmv measured as propane.

#### II. TESTING REQUIREMENTS.

### # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall perform a stack test on the Catalytic Oxidizer (Source C09) using the Department-approved procedures once every five (5) calendar years, where five calendar years is defined as beginning with the calendar year the latest stack test was performed and ending on December 31, five years later. In accordance with 25 Pa. Code § 139.11(1), performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department. Refer to PADEP Source Testing Program website online for further information related to source testing including Source Testing FAQ and the PADEP Source Testing Manual.
- (b) The stack test shall, at a minimum, test for VOCs, and and Tests shall be conducted in accordance with the provisions of EPA Methods 3A, 7E, 10, and 25A, or other Department approved methodology and 25 Pa. Code Chapter 139. Tests shall also be conducted in accordance with the provisions of the current version of the DEP Source Testing Manual and the EPA Clean Air Act National Stack Testing Guidance.
- (c) At least ninety (90) days prior to the test, the company shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.
- (d) At least thirty (30) days prior to the test, the Regional Air Quality Manager shall be informed of the date and time of the test.
- (e) Within sixty (60) days after the source test(s) (unless a more stringent regulatory requirement applies), an electronic copy of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.
- (f) In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.

### III. MONITORING REQUIREMENTS.

### # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following operational parameters for the Catalytic Oxidizer (Source C09):

(a) The inlet and outlet temperature continuously. The temperature monitoring shall be performed using a thermocouple or



other Department approved method.

(b) Monitor the airflow or fan amperage on a daily basis and prior to routing a source's exhaust to the oxidizer, and before and after subsequent sources are put into service.

### IV. RECORDKEEPING REQUIREMENTS.

# 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall record all excursions and corrective actions taken in response to an excursion and the time elapsed until the corrective actions have been taken.

(d) All records shall be kept for a period of five (5) years and shall be made available to the Department upon request.

# 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall maintain records of the following operational parameters for the Catalytic Oxidizer (Source C09):
  - (i) Inlet and outlet temperature continuously,
  - (ii) The airflow or fan amperage prior to and after putting a source on line that exhausts to this catalytic oxidizer.
- (b) Recordkeeping of the above operational parameters may be done with strip charts recorders, data acquisition systems, or manual log entries.

## V. REPORTING REQUIREMENTS.

# 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall submit reports of all excursions and corrective actions taken, the dates, times, durations and probable causes, every six (6) months.

# 007

Operating permit terms and conditions.

#### VI. WORK PRACTICE REQUIREMENTS.

# 008 [25 Pa. Code §127.441]

Operating permit terms and conditions.



(a) The Catalytic Oxidizer (Source C09) shall be operated at a minimum temperature of 550°F measured at the inlet to the catalyst bed.
(b) The permittee shall adhere to the approved minimum temperature for the catalytic oxidizer so that operation at the minimum temperature shall provide reasonable assurance of compliance. Adeparture from the minimum temperature over any fifteen (15) minute period shall be defined as an excursion.
# 009 Operating permit terms and conditions.
# 010 Operating permit terms and conditions.
# 011 Operating permit terms and conditions.
# 012 Operating permit terms and conditions.
# 013 Operating permit terms and conditions.



# VII. ADDITIONAL REQUIREMENTS.

# 014
Operating permit terms and conditions.
# 015
Operating permit terms and conditions.
# 016
Operating permit terms and conditions.
# 017
Operating permit terms and conditions.





\*\*\* Permit Shield in Effect. \*\*\*



Source ID: C18 Source Name: REGENERATIVE THERMAL OXIDIZER

Source Capacity/Throughput: N/A VOC

Conditions for this source occur in the following groups: GROUP 4



#### RESTRICTIONS.

Control Device Efficiency Restriction(s).

# 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

The Regenerative Thermal Oxidizer (Source C18) shall have a minimum 98% efficiency for reduction of volatile organic compounds (VOC), or an outlet concentration not exceeding 20 parts per million (ppmv), measured as propane.

### II. TESTING REQUIREMENTS.

### # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall perform a stack test on the Regnerative Thermal Oxidizer (Source C18) using the Departmentapproved procedures once every five (5) calendar years, where five calendar years is defined as beginning with the calendar
  year the latest stack test was performed and ending on December 31, five years later. In accordance with 25 Pa. Code §
  139.11(1), performance tests shall be conducted while the source is operating at maximum routine operating conditions or
  under such other conditions, within the capacity of the equipment, as may be requested by the Department. When
  determining the VOC destruction efficiency of a thermal oxidizer, the source shall be operated within normal parametric
  ranges and the oxidizer shall be maintained at the minimum temperature that it will ever be operated. Refer to PADEP
  Source Testing Program website online for further information related to source testing including Source Testing FAQ and
  the PADEP Source Testing Manual.
- (b) The stack test shall, at a minimum, test for VOCs, and and test shall be conducted in accordance with the provisions of Department approved methodology and 25 Pa. Code Chapter 139. Tests shall also be conducted in accordance with the provisions of the current version of the DEP Source Testing Manual and the EPA Clean Air Act National Stack Testing Guidance.
- (c) At least ninety (90) days prior to the test, the company shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.
- (d) At least thirty (30) days prior to the test, the Regional Air Quality Manager, shall be informed of the date and time of the test.
- (e) Within sixty (60) days after the source test(s) (unless a more stringent regulatory requirement applies), two copies of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.
- (f) In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.





#### III. MONITORING REQUIREMENTS.

# 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) Continuously monitor the inlet, combustion chamber, and outlet temperatures of the Regenerative Thermal Oxidizer (Source C18), when operating. The temperature monitoring shall be performed using a Department approved method.
- (b) Monitor the airflow or fan amperage on a daily basis and prior to routing a source's exhaust to the oxidizer, and before and after subsequent sources are put into service.
- IV. RECORDKEEPING REQUIREMENTS.

# 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall record all excursions and corrective actions taken in response to an excursion and the time elapsed until the corrective actions have been taken.

(d) All records shall be kept for a period of five (5) years and shall be made available to the Department upon request.

# 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall maintain records the following operational parameters for the Regenerative Thermal Oxidizer (Source C18):
  - (i) Inlet, combustion chamber, and outlet temperatures of the RTO continuously, when operating;
- (ii) The airflow or fan amperage on a daily basis, prior to and after putting a source on line that exhausts to this regenerative thermal oxidizer.
- (b) Recordkeeping for the above operational parameters may be done with strip charts recorders, data acquisition systems, or manual log entries.
- REPORTING REQUIREMENTS.

# 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall report all excursions and corrective actions taken, the dates, times, durations and probable causes, every six (6) months.

# 007

Operating permit terms and conditions.



WORK PRACTICE REQUIREMENTS.
# 008 [25 Pa. Code §127.441] Operating permit terms and conditions.
(a) The Regenerative Thermal Oxidizer (Source C18) shall be operated at a minimum temperature of 1,450°F measured at the outlet of the combustion chamber. These temperatures may be modified by the Department based on the performance test conducted on the RTO.
(b) The permittee shall adhere to the minimum temperature for the Regenerative Thermal Oxidizer (Source C18) so that operation at this minimum temperature shall provide reasonable assurance of compliance. A departure from the minimum temperature over any fifteen (15) minute period shall be defined as an excursion.
# 009 Operating permit terms and conditions.
#010
Operating permit terms and conditions.
# 011 Operating permit terms and conditions.
#.042
# 012 Operating permit terms and conditions.

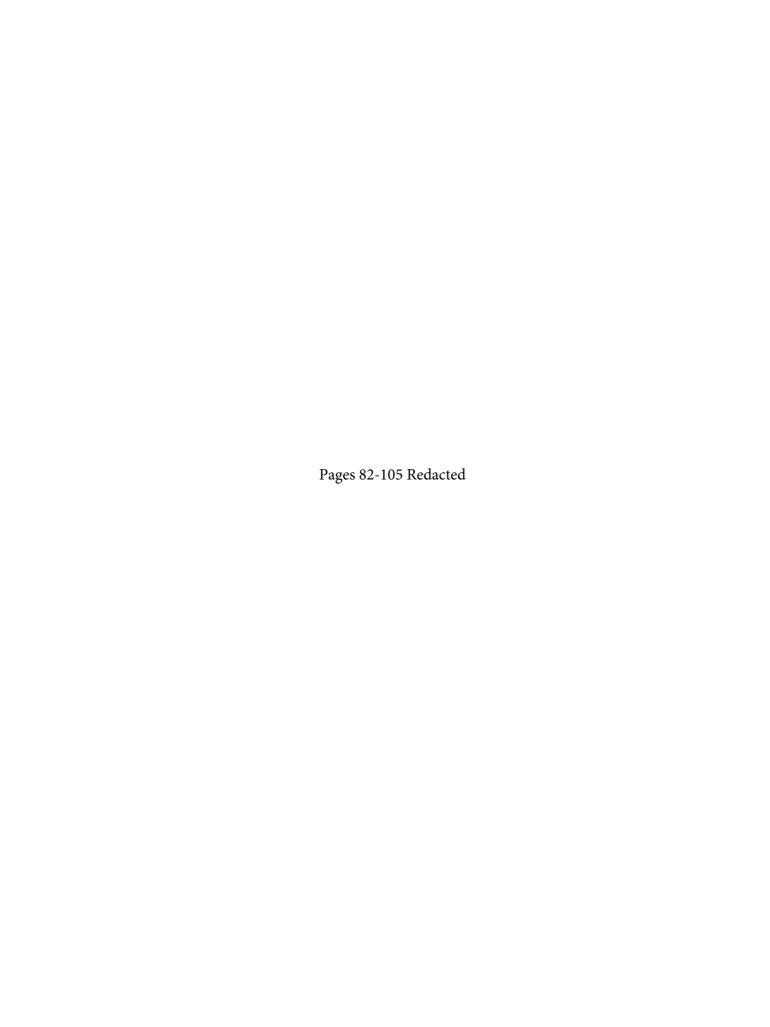


#013
Operating permit terms and conditions.
VII. ADDITIONAL REQUIREMENTS.
# 014 Operating permit terms and conditions.
# 015 Operating permit terms and conditions.
# 016 Operating permit terms and conditions.
Operating permit terms and conditions.





\*\*\* Permit Shield in Effect. \*\*\*







\*\*\*\*\*\* End of Report \*\*\*\*\*\*