



STEERS ELECTRONIC SUBMITTAL

Texas Commission on Environmental Quality
Air Permits Initial Review Team (APIRT), MC-161
P.O. Box 13087
Austin, TX 78711-3087

Re: Corteva Freeport Operations (RN110746757)
Corteva Agriscience LLC (CN601287600)
Dichlorophenol (DCP) Manufacturing Facility
PBR 106.472 Registration

To the Air Permits Initial Review Team:

Corteva Agriscience LLC (Corteva) owns the Dichlorophenol (DCP) Manufacturing facility at the Corteva Freeport Operations site located in Freeport, Texas (Brazoria County). The purpose of this registration is to certify the requirements of Permit by Rule (PBR) §106.472 authorizing the operation of loading tars waste into tank trucks at the DCP Manufacturing facility. The facility impacted by this project is currently authorized under NSR Permit No. 98806.

The following attachments are being included in this submittal:

- PI-7-CERT Form
- §106.4 Checklist
- §106.472 Checklist
- Table 1(a) – Emission Point Summary

In addition, Corteva has included in this application information which has been marked as “**CONFIDENTIAL**” that is being submitted as a separate attachment.

If you have any questions or require any additional information, please contact Ms. Sharareh Rafati at (979) 292-6711 or Sharareh.Rafati@corteva.com.

Sincerely,

A handwritten signature in black ink that reads 'S. Rafati'.

Sharareh Rafati
Environmental Specialist
Corteva Agriscience LLC

cc: Director of Environmental Health, Brazoria County Health Department



Corteva Agriscience LLC (CN601287600)
Corteva Freeport Operations (RN110746757)
Dichlorophenol (DCP) Manufacturing Facility
PBR 106.472 Registration
March 2024

TABLE OF CONTENTS

PROJECT INFORMATION 2

PROCESS DESCRIPTION 3

AREA MAP 4

PROCESS FLOW DIAGRAM..... 5

EMISSION DATA AND CALCULATIONS..... 7

TCEQ FORMS 8

EMISSION CALCULATIONS (CONFIDENTIAL)..... 22

Project Information

Overview

Corteva Agriscience LLC (Corteva) currently owns a Dichlorophenol (DCP) Manufacturing facility at their site located in Freeport, Texas. This project is proposing the authorize loading of DCP tars waste onto tank trucks to be shipped offsite.

Affected Sources

The following table lists the affected sources (EPN) associated with this project:

FIN	EPN	Description
A32DCTL445	A32DCTL445	Truck Loading – DCP Tars (Uncontrolled)
A32CSTO500 / A32CSTO560	A32STHROX / A32TO560	Truck Loading – DCP Tars (Controlled)

Impacts on Associated Facilities

There will be no increases to actual raw material usage or production for the site; therefore, there are no upstream or downstream impacts associated with this permit registration.

MSS Emissions

This project does not address any MSS activities. Any future MSS activities will be addressed using either the PBR 106.263 registration or the NSR Permit No. 98806.

Air Pollution Watch List

This project will not have any emissions of arsenic, cobalt, nickel, or vanadium with the Brazoria County Air Pollutant Watch List area.

Confidential Information

Confidential information is included with this submittal and has been included in the appendices. This information has been labeled “**CONFIDENTIAL**” as required.

Maintenance of Control Device Effectiveness

This project will not lessen the effectiveness or the destruction removal efficiency DRE of any existing air pollution control device. Compliance with the previously authorized representations of the control device effectiveness will be maintained.

Title V and Other Regulations

The plant is authorized under the Title V Permit No. O-2206. An off-permit notification will be submitted as required.

Process Description

Introduction	The DCP Manufacturing facility is located at the A-3200 block of the Corteva Freeport Operations site in the Plant A complex and serves as a manufacturing plant.
Dichlorophenol (DCP) Manufacturing Facility	Dichlorophenol is produced by chlorinating phenol. The Dichlorophenol product is loaded into rail cars for shipment. The waste product is sent offsite by truck for incineration at a facility authorized to process this type of waste. Vapor balancing is utilized for loading operations to minimize emissions. Loading hoses are cleared back to the originating tanks.

Area Map

Overview

The Area Map for the DCP facility indicates a 3,000-ft radius from the property boundary. There are no schools located within 3,000 ft of these facilities.

FILE: O:\Projects\AirMod\Air_modeling_data_07\Deliverables\Drawings\BlueCube_Map - Blue Cube_Map - Plant A - UTM83-15.dwg ; SAVED: Tuesday, September 05, 2017 4:23:02 PM ; PLOTTED: Tuesday, September 05, 2017 4:23:27 PM



LEGEND:

--- PLANT A COMPLEX PROPERTY BOUNDARY

400 0 400 800 1200

SCALE IN METERS

(1 cm = 400 m)

COORDINATE SYSTEM: UTM WITH NAD83 DATUM, ZONE 15;
METERS. AERIAL FROM TNRS, DATED AS FEBRUARY 10, 2015

AECOM

19219 KATY FREEWAY, SUITE 100
HOUSTON, TEXAS 77094
PH: (281) 646-2400
FAX: (281) 646-2401

Scale

AS
NOTED

Drawn by

NAB

Date

9-5-2017

Chk'd by

SC

Date

9-5-2017

Title

AREA MAP

Project

DICHLOROPHENOL MANUFACTURING PLANT
PLANT A COMPLEX
FREEPORT, BRAZORIA COUNTY, TEXAS

Client

CORTEVA AGRSCIENCE LLC

Project No.

60390283

File Name

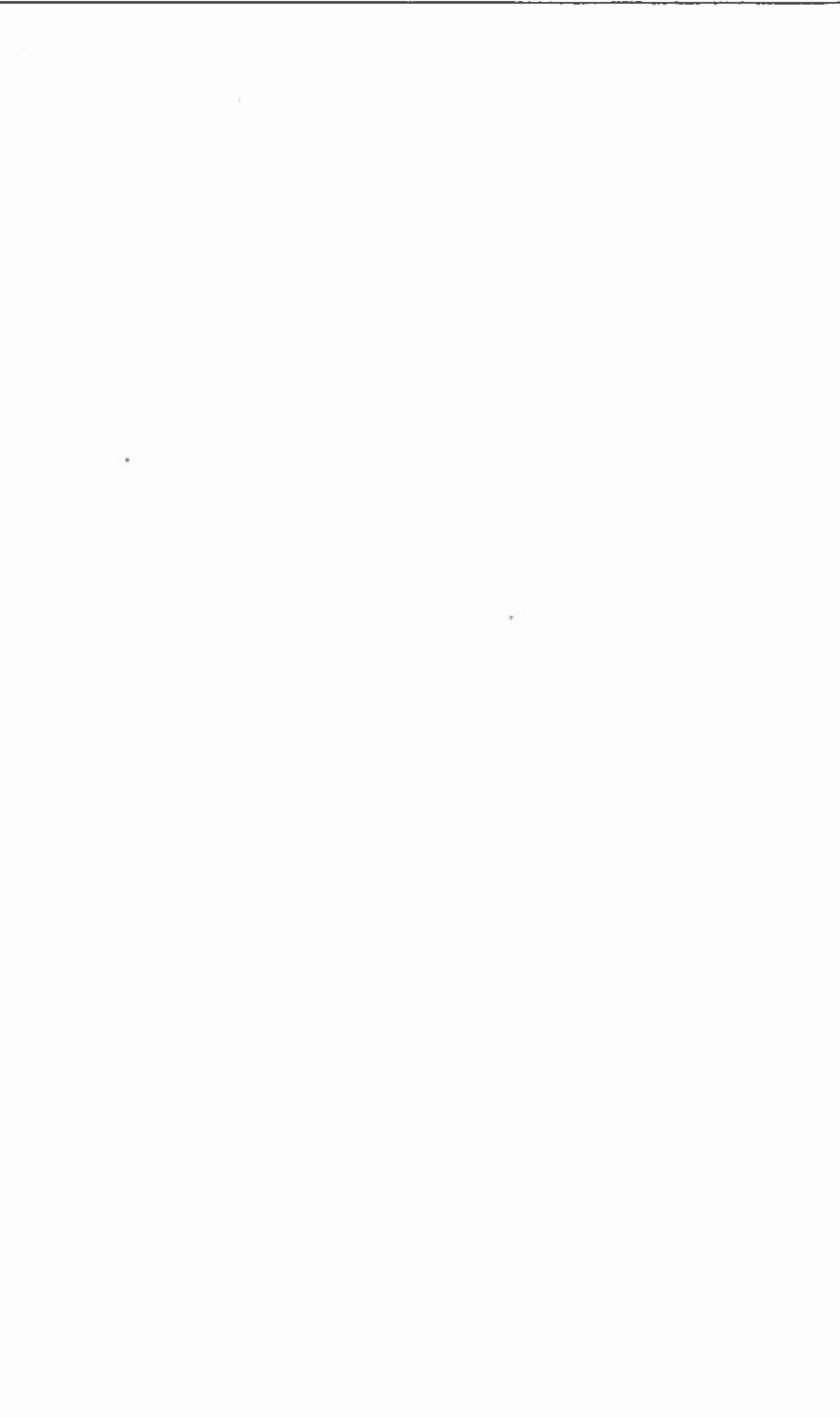
AREA MAP - BLUE
CUBE, PLANT A -
UTM83-15.DWG

Figure No.

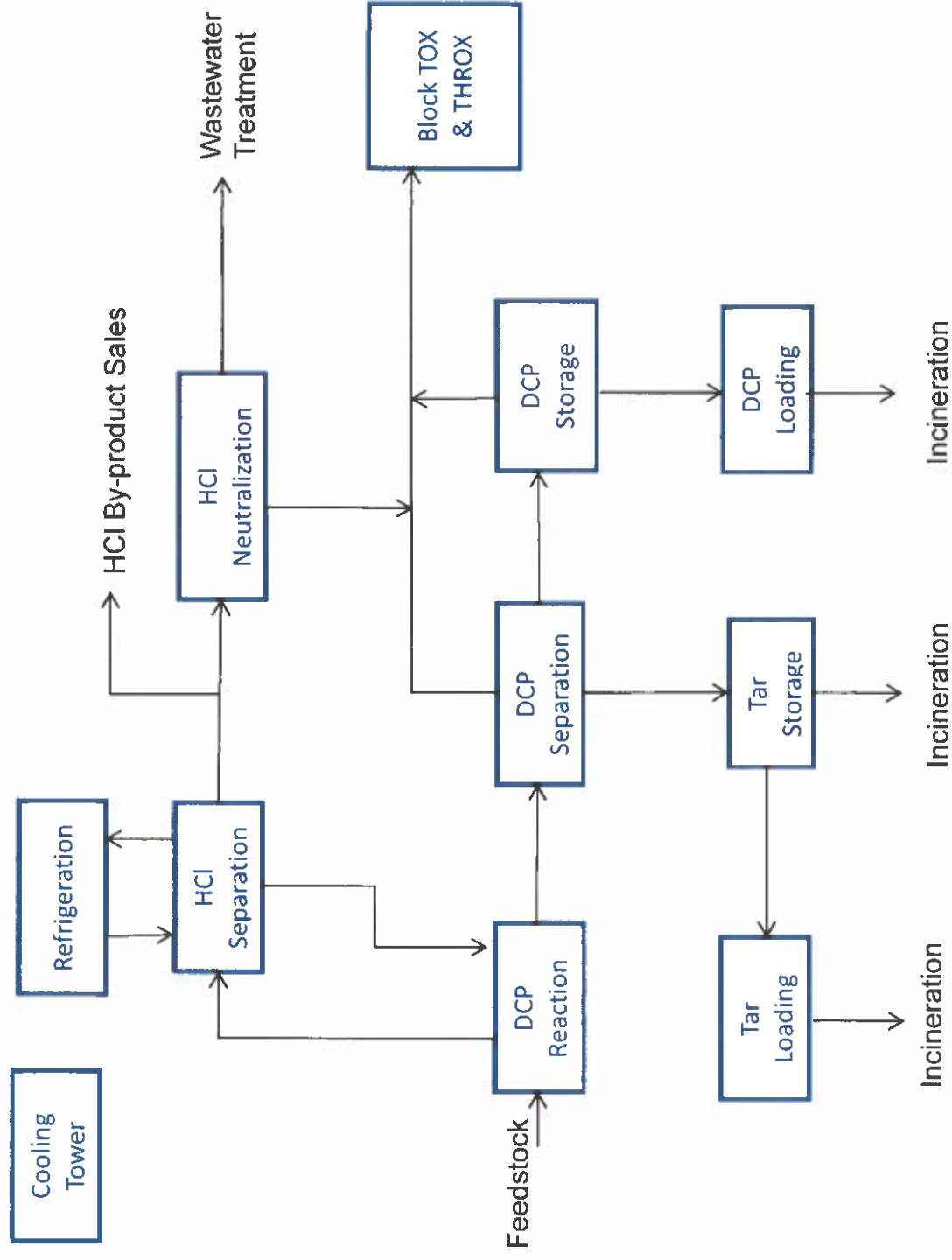
Process Flow Diagram

Overview

The following page shows a process flow diagram for the DCP facility.



Process Flow Diagram



Emission Data and Calculations

Overview

All emission calculations can be found in the **CONFIDENTIAL** portion of the application.

DCP Tars Truck Loading

The DCP Tars truck loading emissions were estimated using the methodology in AP-42, Chapter 5, Section 5.2 (Fifth Edition, June 2008). All loading is submerged - bottom loading, dedicated service. For an estimation of the hourly emission rate, it is assumed that loading at each connection could occur within the same hour. The captured loading emissions are routed to the THROX/TOX control device (EPN A32STHROX / A32TO560) with a 99.95% destruction efficiency. Any uncollected truck loading losses are assumed to be fugitive emissions (EPN A32DCTL445).

TCEQ Forms

This section contains the following forms:

- PI-7-CERT Form
- 30 TAC §106.4 Checklist
- Exemption § 106.472 Checklist
- Table 1(a) – Emission Point Summary

**Certification and Registration for Permits by Rule
Form PI-7-CERT
Page 1
Texas Commission on Environmental Quality**

I. Registrant Information
A. Company or Other Legal Customer Name: Corteva Agriscience LLC
Company Official Contact Information (<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Other _____)
Name: John Phillips
Title: Freeport Site Leader
Mailing Address: Building A-3210, 2301 N. Brazosport Blvd.
City: Freeport
State: Texas
ZIP Code: 77541
Phone: (515) 535-1401
Fax:
Email Address: John-Phillips-1@Corteva.com
<i>All PBR registration responses will be sent via email.</i>
A. Technical Contact Information (<input type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input checked="" type="checkbox"/> Ms. <input type="checkbox"/> Other _____)
Name: Sharareh Rafati
Title: Environmental Specialist
Company Name: Corteva Agriscience LLC
Mailing Address: Building A-3210, 2301 N. Brazosport Blvd.
City: Freeport
State: Texas
ZIP Code: 77541
Phone Number: (979) 292-6711
Fax Number:
Email Address: Sharareh.Rafati@Corteva.com

**Certification and Registration for Permits by Rule
Form PI-7-CERT
Page 2
Texas Commission on Environmental Quality**

II. Facility and Site Information	
A. Name and Type of Facility	
Facility Name: Corteva Freeport Operations	
Facility Type:	<input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Temporary
For portable units, please provide the serial number of the equipment being authorized below.	
Serial No(s):	
B. Facility Location Information	
Street Address: 565 Midway Road, Building A-3210	
If there is no street address, provide written driving directions to the site and provide the closest city or town, county, and ZIP code for the site (attach description if additional space is needed).	
City: Freeport	
County: Brazoria	
ZIP Code: 77541	
C. TCEQ Core Data Form	
Is the Core Data Form (TCEQ Form Number 10400) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
If "NO," provide customer reference number (CN) and regulated entity number (RN) below.	
Customer Reference Number (CN): 601287600	
Regulated Entity Number (RN): 110746757	
D. TCEQ Account Identification Number (if known):	
E. Type of Action	
<input checked="" type="checkbox"/> Initial Application <input type="checkbox"/> Change to Registration	
For Change to Registration provide the Registration Number:	
F. PBR number(s) claimed under 30 TAC Chapter 106	
(List all the individual rule number(s) that are being claimed.)	
106.472	
106.	
106.	
106.	

**Certification and Registration for Permits by Rule
Form PI-7-CERT
Page 3
Texas Commission on Environmental Quality**

II. Facility and Site Information (continued)	
G. Historical Standard Exemption or PBR	
Are you claiming a historical standard exemption or PBR? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
<i>If "YES," enter rule number(s) and associated effective date in the spaces provided below.</i>	
Rule Number:	Effective Date:
Rule Number:	Effective Date:
H. Previous Standard Exemption or PBR Registration Number	
Is this authorization for a change to an existing facility previously authorized under a standard exemption or PBR? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
<i>If "YES," enter previous standard exemption number(s) and PBR registration number(s) and associated effective dates in the spaces provided below.</i>	
Standard Exemption and PBR Registration Number:	
Effective Date:	
I. Other Facilities at this Site Authorized by Standard Exemption, PBR, or Standard Permit	
Are there any other facilities at this site that are authorized by an Air Standard Exemption, PBR, or Standard Permit? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
<i>If "YES," enter standard exemption number(s), PBR registration number(s), and Standard Permit registration number(s), and associated effective date in the spaces provided below.</i>	
Standard Exemption, PBR Registration, and Standard Permit Registration Number(s):	
Effective Date:	
Standard Exemption, PBR Registration, and Standard Permit Registration Number(s):	
Effective Date:	
Standard Exemption, PBR Registration, and Standard Permit Registration Number(s):	
Effective Date:	
J. Other Air Preconstruction Permits	
Are there any other air preconstruction permits at this site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
<i>If "YES," enter permit number(s) in the spaces provided below.</i>	
NSR 98806	
K. Affected Air Preconstruction Permits	
Does the PBR being claimed directly affect any permitted facility? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	

**Certification and Registration for Permits by Rule
Form PI-7-CERT
Page 4
Texas Commission on Environmental Quality**

II. Facility and Site Information <i>(continued)</i>	
If "YES," enter the permit number(s) in the spaces provided below.	
NSR 98806	
L. Federal Operating Permit (FOP) Requirements (30 TAC Chapter 122 Applicability)	
1. Is this facility located at a site that is required to obtain an FOP pursuant to 30 TAC Chapter 122?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> To Be Determined
If the site currently has an existing FOP, enter the permit number: 2206	
Check the requirements of 30 TAC Chapter 122 that will be triggered if this certification is accepted. <i>(check all that apply)</i>	
<input type="checkbox"/> Initial Application for a FOP <input type="checkbox"/> Significant Revision for an SOP <input type="checkbox"/> Minor Revision for an SOP	
<input checked="" type="checkbox"/> Operational Flexibility/Off Permit Notification for an SOP <input type="checkbox"/> Revision for a GOP	
<input type="checkbox"/> To be Determined <input type="checkbox"/> None	
2. Identify the type(s) of FOP issued and/or FOP application(s) submitted/pending for the site. <i>(check all that apply)</i>	
<input checked="" type="checkbox"/> SOP review) <input type="checkbox"/> GOP <input type="checkbox"/> GOP application/revision (submitted or under APD review)	
<input type="checkbox"/> N/A <input type="checkbox"/> SOP application/revision (submitted or under APD review)	
III. Fee Information <i>(See Section VII. for address to send fee or go to www.tceq.texas.gov/epa to pay online.)</i>	
A. Fee Requirements	
Is a fee required per Title 30 TAC § 106.50? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
If "NO," specify the exception. There are three exceptions to paying a PBR fee. <i>(check all that apply)</i>	
1. Registration is solely to establish a federally enforceable emission limit.	<input type="checkbox"/>
2. Registration is within six months of an initial PBR review, and it is addressing deficiencies, administrative changes, or other allowed changes.	<input type="checkbox"/>
3. Registration is for a remediation project (30 TAC § 106.533).	<input type="checkbox"/>
B. Fee Amount	
1. A \$100 fee is required if <i>any</i> of the answers in III.B.1 are "YES."	
This business has less than 100 employees.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
This business has less than \$6 million dollars in annual gross receipts.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
This registration is submitted by a governmental entity with a population of less than 10,000.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
This registration is submitted by a non-profit organization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

Certification and Registration for Permits by Rule
Form PI-7-CERT
Page 5
Texas Commission on Environmental Quality

III. Fee Information (See Section VII. for address to send fee or go to www.tceq.texas.gov/epay to pay online.) (continued)	
2. A \$450 fee is required for all other registrations	
A. Payment Information	
Check/money order/transaction or voucher number:	
Individual or company name on check: Corteva Agriscience LLC	
Fee Amount: \$450.00	
Was the fee paid online? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
IV. Technical Information Including State and Federal Regulatory Requirements Check the appropriate box to indicate what is included in your submittal. NOTE: Any technical or essential information needed to confirm that facilities are meeting the requirements of the PBR must be provided. Not providing key information could result in a deficiency of the project.	
A. PBR requirements (Checklists are optional; however, your review will go faster if you provide applicable checklists.)	
Did you demonstrate that the general requirements in 30 TAC § 106.4 are met? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Did you demonstrate that the individual requirements of the specific PBR are met? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
B. Confidential Information Included (If confidential information is submitted with this registration, all confidential pages must be properly marked "CONFIDENTIAL.") <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
C. Process Flow Diagram: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
D. Process Description: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
E. Maximum Emissions Data and Calculations: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
<i>Note: If the facilities listed in this registration are subject to the Mass Emissions Cap & Trade program under 30 TAC Chapter 101, Subchapter H, Division 3, the owner/operator of these facilities must possess NO_x allowances equivalent to the actual NO_x emissions from these facilities.</i>	
F. Is this certification being submitted to certify the emissions for the entire site? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
If "NO," include a summary of the specific facilities and emissions being certified.	
G. Table I(a) (Form 10153) Emission Point Summary: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
H. Distances from Property Line and Nearest Off-Property Structure	
Distance from this facility's emission release point to the nearest property line:	2,880 feet
Distance from this facility's emission release point to the nearest off-property structure:	3,870 feet

Certification and Registration for Permits by Rule
Form PI-7-CERT
Page 6
Texas Commission on Environmental Quality

IV. Technical Information Including State and Federal Regulatory Requirements Check the appropriate box to indicate what is included in your submittal. <i>NOTE: Any technical or essential information needed to confirm that facilities are meeting the requirements of the PBR must be provided. Not providing key information could result in a deficiency of the project.</i>
I. Project Status
Has the company implemented the project or waiting on a response from TCEQ? <input checked="" type="checkbox"/> Implemented <input type="checkbox"/> Waiting
J. Projected Start of Construction and Projected Start of Operation Dates:
Projected Start of Construction (provide date):
Projected Start of Operation (provide date):
V. Delinquent Fees
This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ is paid in accordance with the Delinquent Fee and Penalty Protocol. For more information regarding Delinquent Fees and Penalties, go to the TCEQ website at: www.tceq.texas.gov/agency/financial/fees/delin/index.html .
VI. Signature For Registration and Certification
The signature below confirms that I have knowledge of the facts included in this application and that these facts are true and correct to the best of my knowledge and belief. I further state that to the best of my knowledge and belief, the project for which this application is made will not in any way violate any provision of the Texas Water Code (TWC), Chapter 7; the Texas Health and Safety Code, Chapter 382, the Texas Clean Air Act (TCAA); the air quality rules of the Texas Commission on Environmental Quality; or any local governmental ordinance or resolution enacted pursuant to the TCAA. I further state that I understand my signature indicates that this application meets all applicable nonattainment, prevention of significant deterioration, or major source of hazardous air pollutant permitting requirements. The signature further signifies awareness that intentionally or knowingly making or causing to be made false material statements or representations in the application is a criminal offense subject to criminal penalties.
Name (printed): John Phillips
Signature (original signature required)
SIGNED IN STEERS
Date:

**Certification and Registration for Permits by Rule
Form PI-7-CERT
Page 7
Texas Commission on Environmental Quality**

VII. Submitting Copies of the Certification and Registration

Copies must be sent as listed below.

Processing delays may occur if copies are not sent as noted.

Who	Where	What
Air Permits Initial Review Team (APIRT)	Regular, Certified, Priority Mail MC 161, P.O. Box 13087 Austin, Texas 78711-3087 Hand Delivery, Overnight Mail MC 161, 12100 Park 35 Circle, Building C, Third Floor Austin, Texas 78753	Originals Form PI-7-CERT, Core Data Form, and all attachments. Not required if using ePermits1.
Revenue Section, TCEQ	Regular, Certified, Priority Mail MC 214, P.O. Box 13088 Austin, Texas 78711-3088 Hand Delivery, Overnight Mail MC 214, 12100 Park 35 Circle, Building A, Third Floor Austin, Texas 78753	Original Money Order or Check, Copy of Form PI-7-CERT, and Core Data Form. Not required if fee was paid using ePay2.
Appropriate TCEQ Regional Office	To find your Regional Office address, go to the TCEQ website at www.tceq.texas.gov/agency/directory/region , or call (512) 239-1250.	Copy of Form PI-7-CERT, Core Data Form, and all attachments. Not required if using ePermits1
Appropriate Local Air Pollution Control Program(s)	To Find your local or Regional Air Pollution Control Programs go to the TCEQ, APD website at www.tceq.texas.gov/permitting/air/local_programs.html , or call (512)-239-1250	Copy of Form PI-7-CERT, Core Data Form, and all attachments.

1 ePermits located at www3.tceq.texas.gov/steers/

2 ePay located at www.tceq.texas.gov/epay

Texas Commission on Environmental Quality
Permit by Rule Applicability Checklist
Title 30 Texas Administrative Code § 106.4

The following checklist was developed by the Texas Commission on Environmental Quality (TCEQ), **Air Permits Division**, to assist applicants in determining whether or not a facility meets all of the applicable requirements. Before claiming a specific Permit by Rule (PBR), a facility must first meet all of the requirements of **Title 30 Texas Administrative Code § 106.4** (30 TAC § 106.4), "Requirements for Permitting by Rule." Only then can the applicant proceed with addressing requirements of the specific Permit by Rule being claimed.

The use of this checklist is not mandatory; however, it is the responsibility of each applicant to show how a facility being claimed under a PBR meets the general requirements of 30 TAC § 106.4 and also the specific requirements of the PBR being claimed. If all PBR requirements cannot be met, a facility will not be allowed to operate under the PBR and an application for a construction permit may be required under 30 TAC § 116.110(a).

Registration of a facility under a PBR can be performed by completing **Form PI-7** (Registration for Permits by Rule) or **Form PI-7-CERT** (Certification and Registration for Permits by Rule). The appropriate checklist should accompany the registration form. Check the most appropriate answer and include any additional information in the spaces provided. If additional space is needed, please include an extra page and reference the question number. The PBR forms, tables, checklists, and guidance documents are available from the TCEQ, Air Permits Division website at:

www.tceq.texas.gov/permitting/air/nav/air_pbr.html.

1. 30 TAC § 106.4(a)(1) and (4): Emission Limits	Answer
List emissions in tpy for each facility (add additional pages or table if needed):	
Are the SO ₂ , PM ₁₀ , VOC, or other air contaminant emissions claimed for each facility in this PBR submittal less than 25 tpy?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Are the NO _x and CO emissions claimed for each facility in this PBR submittal less than 250 tpy?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<i>If the answer to both is "Yes," continue to the question below. If the answer to either question is "No," a PBR cannot be claimed.</i>	
Has any facility at the property had public notice and opportunity for comment under 30 TAC Section 116 for a regular permit or permit renewal? (This does not include public notice for voluntary emission reduction permits, grandfathered existing facility permits, or federal operating permits.)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<i>If "Yes," skip to Section 2. If "No," continue to the questions below.</i>	
If the site has had no public notice, please answer the following:	
Are the SO ₂ , PM ₁₀ , VOC, or other emissions claimed for all facilities in this PBR submittal less than 25 tpy?	<input type="checkbox"/> YES <input type="checkbox"/> NO
Are the NO _x and CO emissions claimed for all facilities in this PBR submittal less than 250 tpy?	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>If the answer to both questions is "Yes," continue to Section 2.</i>	
<i>If the answer to either question is "No," a PBR cannot be claimed. A permit will be required under Chapter 116.</i>	

**Texas Commission on Environmental Quality
Permit by Rule Applicability Checklist
Title 30 Texas Administrative Code § 106.4**

2. 30 TAC § 106.4(a)(2): Nonattainment Check	Answer
Are the facilities to be claimed under this PBR located in a designated ozone nonattainment county?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<i>If "Yes," please indicate which county by checking the appropriate box to the right.</i>	
(Moderate) - Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller counties:	<input checked="" type="checkbox"/> HGB
(Moderate) - Collin, Dallas, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, Tarrant, and Wise counties:	<input type="checkbox"/> DFW
<i>If "Yes," to any of the above, continue to the next question. If "No," continue to Section 3.</i>	
Does this project trigger a nonattainment review?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Is the project's potential to emit (PTE) for emissions of VOC or NO _x increasing by 100 tpy or more?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<i>PTE is the maximum capacity of a stationary source to emit any air pollutant under its worst-case physical and operational design unless limited by a permit, rules, or made federally enforceable by a certification.</i>	
Is the site an existing major nonattainment site and are the emissions of VOC or NO _x increasing by 40 tpy or more?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<i>If needed, attach contemporaneous netting calculations per nonattainment guidance.</i>	
Additional information can be found at: www.tceq.texas.gov/permitting/air/forms/newsource/tables/nsr_table8.html and www.tceq.texas.gov/permitting/air/nav/air_docs_newsource.html	
<i>If "Yes," to any of the above, the project is a major source or a major modification and a PBR may not be used. A Nonattainment Permit review must be completed to authorize this project. If "No," continue to Section 3.</i>	
3. 30 TAC § 106.4(a)(3): Prevention of Significant Deterioration (PSD) check	
Does this project trigger a review under PSD rules?	
To determine the answer, review the information below:	
Are emissions of any regulated criteria pollutant increasing by 100 tpy of any criteria pollutant at a named source?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Are emissions of any criteria pollutant increasing by 250 tpy of any criteria pollutant at an unnamed source?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Are emissions increasing above significance levels at an existing major site?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
PSD information can be found at: www.tceq.texas.gov/assets/public/permitting/air/Forms/NewSourceReview/Tables/10173tbl.pdf and www.tceq.texas.gov/permitting/air/nav/air_docs_newsource.html	
<i>If "Yes," to any of the above, a PBR may not be used. A PSD Permit review must be completed to authorize the project.</i>	
<i>If "No," continue to Section 4.</i>	

Texas Commission on Environmental Quality
Permit by Rule Applicability Checklist
Title 30 Texas Administrative Code § 106.4

4. 30 TAC § 106.4(a)(6): Federal Requirements	Answer
Will all facilities under this PBR meet applicable requirements of Title 40 Code of Federal Regulations (40 CFR) Part 60, New Source Performance Standards (NSPS)?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
If "Yes," which Subparts are applicable? <i>(answer below.)</i>	
Will all facilities under this PBR meet applicable requirements of 40 CFR Part 63, Hazardous Air Pollutants Maximum Achievable Control Technology (MACT) standards?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
If "Yes," which Subparts are applicable? <i>(answer below.)</i>	
Will all facilities under this PBR meet applicable requirements of 40 CFR Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAPs)?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
If "Yes," which Subparts are applicable? <i>(answer below.)</i>	
If "Yes" to any of the above, please attach a discussion of how the facilities will meet any applicable standards.	
5. 30 TAC § 106.4(a)(7): PBR prohibition check	
Are there any air permits at the site containing conditions which prohibit or restrict the use of PBRs?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If "Yes," PBRs may not be used or their use must meet the restrictions of the permit. A new permit or permit amendment may be required.	
List permit number(s):	
6. 30 TAC § 106.4(a)(8): NO_x Cap and Trade	
Is the facility located in Harris, Brazoria, Chambers, Fort Bend, Galveston, Liberty, Montgomery, or Waller County?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
If "Yes," answer the question below.	
If "No," continue to Section 7.	
Will the proposed facility or group of facilities obtain required allowances for NO _x if they are subject to 30 TAC Chapter 101, Subchapter H, Division 3 (relating to the Mass Emissions Cap and Trade Program)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

Texas Commission on Environmental Quality
Permit by Rule Applicability Checklist
Title 30 Texas Administrative Code § 106.4

7. Highly Reactive Volatile Organic Compounds (HRVOC) check		
Is the facility located in Harris County?		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<i>If "Yes," answer the next question. If "No," skip to the box below.</i>		
Will the project be constructed after June 1, 2006?		<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>If "Yes," answer the next question.</i>		
<i>If "No," skip to the box below.</i>		
Will one or more of the following HRVOC be emitted as a part of this project?		<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>If "Yes," complete the information below:</i>		
Information	lb/hr	tpy
▶ 1,3-butadiene		
▶ all isomers of butene (e.g., isobutene [2-methylpropene or isobutylene])		
▶ alpha-butylene (ethylethylene)		
▶ beta-butylene (dimethylethylene, including both cis- and trans-isomers)		
▶ ethylene		
▶ propylene		
Is the facility located in Brazoria, Chambers, Fort Bend, Galveston, Liberty, Montgomery, or Waller County?		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<i>If "Yes," answer the next question. If "No," the checklist is complete.</i>		
Will the project be constructed after June 1, 2006?		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<i>If "Yes," answer the next question. If "No," the checklist is complete.</i>		
Will one or more of the following HRVOC be emitted as a part of this project?		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<i>If "Yes," complete the information below:</i>		
Information	lb/hr	tpy
▶ ethylene		
▶ propylene		

**Exemption § 106.472 Checklist
(Previously Standard Exemption 51)
Organic Liquid Loading and Unloading
Texas Commission on Environmental Quality**

The following checklist is designed to help you confirm that you meet § 106.472, previously Standard Exemption 51 (STDX 51), requirements. **Any “no” answers indicate that the claim of registration may not meet all requirements for the use of Exemption § 106.472, previously Standard Exemption 51.** If you do not meet all the requirements, you may alter the project design/operation in such a way that all the requirements of the exemption are met or obtain a construction permit.

For additional assistance with your application, including resources to help calculate your emissions, please visit the Small Business and Local Government Assistance (SBLGA) webpage at the following link: www.TexasEnviroHelp.org

Please Complete the Following:	
Have you included a description of how this exemption claim meets the general rule for the use of exemptions. (§ 106, Subchapter A checklist is available)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Are all the facilities claimed for exemption specifically named in the general section of § 106.472, previously STDX 51?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Is the equipment designed to prevent visible emissions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Are all the chemicals to be loaded, unloaded, or stored described in §106.472 (previously STDX 51a-i)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Attach a list of the chemicals and identify the appropriate item of § 106.472, previously STDX 51 that applies.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Include additional supporting data. For example, a § 106.472, previously STDX 51(i), claim should identify initial boiling points of all compounds to be covered.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Will aqueous ammonia solutions, hydrochloric acid, or acetic acid be vented through a water scrubber?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Are facilities loading, unloading, or storing butyric acid, isobutyric acid, methacrylic acid, mercaptans, croton oil, 2-methyl styrene, or any other compound with an initial boiling point of 300 degrees F or greater listed in 40 CFR 261, Appendix VIII, located at least 500 feet from any recreational area or residence or other structure not occupied or used solely by the owner or operator of the facility or the owner of the property upon which the facility is located?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
List these compounds and show their handling location on an attached scaled plot plan.	



Texas Commission on Environmental Quality
Table 1(a) Emission Point Summary

Date:	March 2024	Permit No.:	Regulated Entity No.:	RN110746757
Area Name:	Corteva Freepport Operations - Dichlorophenol Manufacturing Facility			Customer Reference No.: CN601287600

AIR CONTAMINANT DATA					
1. Emission Point		2. Component or Air Contaminant Name		3. Air Contaminant Emission Rate	
EPN	FIN	NAME	Pounds per Hour	TPY	
(A)	(B)	(C)	(A)	(B)	
A32STHROX /	A32CSTO500/	DCP Tars Tank Truck Loading -	0.01	0.01	
A32TO560	A32CSTO560	THROX/TOX	0.01	0.01	
A32DCTL445	A32DCTL445	DCP Tars Tank Truck Loading -	1.19	0.01	
		Fugitives	0.02	0.01	



Texas Commission on Environmental Quality
Table 1(a) Emission Point Summary - Air Contaminant Data

Date	March 2024		Permit No.	RN110746757			
Area Name:	Corteva Freeport Operations - Dichlorophenol Manufacturing Facility				Customer Reference No.	CN601287600	

EMISSION POINT DISCHARGE PARAMETERS																
AIR CONTAMINANT DATA				Source												
1. Emission Point				4. UTM Coordinates of Emission Point			5. Building Height (Feet)		6. Height Above Ground (Feet)		7. Stack Exit Data		8. Fugitives			
EPN (B)	FIN (A)	NAME (C)		Zone	East (Meters)	North (Meters)					Diameter (Feet) (A)	Velocity (fps) (B)	Temperature (°F) (C)	Length (ft.) (A)	Width (ft.) (B)	Axis Degrees (C)
A32STHROX / A32TO560	A32CSTO500/A	DCP Tars Tank Truck Loading - THROX		15	274,117.00	3,204,743.00			49.00		1.00	44.00	155.00			
A32STHROX / A32TO560	A32CSTO500/A	DCP Tars Tank Truck Loading - TOX		15	274,105.00	3,204,751.00			100.00		2.00	11.00	155.00			
A32DCCTL445	A32DCCTL445	DCP Tars Tank Truck Loading - Fugitives		15	274177.00	3204826.00			10.00				ambient			



Corteva Agriscience LLC (CN601287600)
Corteva Freeport Operations (RN110746757)
Dichlorophenol (DCP) Manufacturing Facility
PBR 106.472 Registration
March 2024

CONFIDENTIAL INFORMATION