Blue Cube Operations LLC

604 Texas Hwy 332 Lake Jackson, TX 77566 www.Olin.com

January 31, 2025

E-PERMIT SUBMISSION

STEERS MC-226 Texas Commission on Environmental Quality P.O. Box 13087 Austin, TX 78711-3087

RE: Connector Addition Chlorinated Methane Products Facility Blue Cube Operations LLC* CN604930784, RN108772245, Acct No. BL-A044-R PBR §106.262 Registration

Dear APIRT Team Leader:

Blue Cube Operations LLC* (Blue Cube) is submitting the following Permit by Rule (PBR) §106.261/262 registration to authorize replacement valves at the Chlorinated Methane Products Facility in Freeport, Texas. There will be no new MSS activities associated with this project.

The attachments to this submittal are:

- Form PI-7 CERT
- §106.4 Demonstration of Compliance
- §106.261/262 Workbook
- Process Flow Diagram and Process Description
- Table 1 Emission Limits
- PBR Compliance Table
- Emission Calculations

Blue Cube has included in this PBR registration information that is confidential. The confidential information is labeled and included in a separate section.

Please contact me at (979) 979-529-3209 or via email at VLProper1@Olin.com for question regarding this submittal.

Sincerely,

Lauren Proper Air Permit Manager Blue Cube Operations LLC*

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

I. Registrant Information
 Company or Other Legal Customer Name: Blue Cube Operations LLC (a wholly owned subsidiary of Olin Corporation)
Company Official Contact Information (Mr. Mrs. Mrs. Other)
Name: Gretchen Abney
Title: Site Leveraged EH&S Leader
Mailing Address: 604 Highway 332
City: Lake Jackson
State: Texas
ZIP Code: 77566
Phone: 979-529-3050
Fax: N/A
Email Address: FBCLEHS@Olin.com
All PBR registration responses will be sent via email.
A. Technical Contact Information (Mr. Mrs. Mrs. Other)
Name: Lauren Proper
Title: Air Permit Manager
Company Name: Blue Cube Operations LLC
Mailing Address: 604 Highway 332
City: Lake Jackson
State: Texas
ZIP Code: 77566
Phone Number: 979-529-3209
Fax Number: N/A
Email Address: VLProper1@Olin.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: Chlorinated Methane Products Facility
Facility Type:
For portable units, please provide the serial number of the equipment being authorized below.
Serial No(s):
B. Facility Location Information
Street Address: 2301 N. Brazosport Blvd
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: 77541-3257
C. TCEQ Core Data Form
Is the Core Data Form (TCEQ Form Number 10400) attached?
If "NO," provide customer reference number (CN) and regulated entity number (RN) below.
Customer Reference Number (CN): CN604930784
Regulated Entity Number (RN): RN108772245
D. TCEQ Account Identification Number (if known): BL-A044-R
E. Type of Action
⊠ Initial Application □ 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.)
106.261
106.262
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?	🗌 YES 🖾 NO
If "YES," enter rule number(s) and associated effective date in the spaces provided below.	
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?	🗌 YES 🔀 NO
If "YES," enter previous standard exemption number(s) and PBR registration number(s) and effective dates in the spaces provided below.	associated
Standard Exemption and PBR Registration Number:	
Effective Date:	
I. Other Facilities at this Site Authorized by Standard Exemption, PBR, or Standard Perm	it
Are there any other facilities at this site that are authorized by an Air Standard Exemption, PBR, or Standard Permit?	YES 🗌 NO
If "YES," enter standard exemption number(s), PBR registration number(s), and Standard Pe number(s), and associated effective date in the spaces provided below.	rmit registration
Standard Exemption, PBR Registration, and Standard Permit Registration Number(s):	
Effective Date: There are many PBRs and Standard Permits registered at this site. A provided if necessary for review of this project.	list can be
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?	YES 🗌 NO
If "YES," enter permit number(s) in the spaces provided below.	
There are many NSR Permits issued for this site. A list can be provided if necessary for review	of this project.
K. Affected Air Preconstruction Permits	
Does the PBR being claimed directly affect any permitted facility?	XES 🗌 NO

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

II.	Facility and Site Information (continued)		
lf "YE	ES," enter the permit number(s) in the spaces provided below.		
5340			
L.	Federal Operating Permit (FOP) Requirements (30 TAC Chapter 122 Appl	licability)	
1.	Is this facility located at a site that is required to Obtain an FOP pursuant to 30 TAC Chapter 122?	🗌 NO 🗌 To	Be Determined
If the	e site currently has an existing FOP, enter the permit number: O1388		
	ck the requirements of 30 TAC Chapter 122 that will be triggered if this certi ck all that apply)	fication is acc	epted.
🗌 Ir	nitial Application for a FOP] Minor Revis	sion for an SOP
0 🗌	perational Flexibility/Off Permit Notification for an SOP	Revision fo	r a GOP
П Т	o be Determined 🛛 None		
2.	Identify the type(s) of FOP issued and/or FOP application(s) submitted/per (check all that apply)	nding for the s	site.
⊠S	OP GOP GOP application/revision (sub	omitted or und	der APD review)
□ N	A SOP application/revision (submitted or a	under APD re	view)
III.	Fee Information (See Section VII. for address to send fee or go to <u>www.to</u> online.)	<u>ceq.texas.gov</u>	<mark>r∕epay</mark> to pay
A.	Fee Requirements		
ls a f	fee required per Title 30 TAC § 106.50?		🖾 YES 🗌 NO
lf "N	O," specify the exception. There are three exceptions to paying a PBR fee.	(check all tha	t apply)
1.	Registration is solely to establish a federally enforceable emission limit.		
2.	Registration is within six months of an initial PBR review, and it is addressing deficiencies, administrative changes, or other allowed changes	□ 6.	
3.	Registration is for a remediation project (30 TAC § 106.533).		
В.	Fee Amount		
1.	A \$100 fee is required if any of the answers in III.B.1 are "YES."		
This	business has less than 100 employees.		
This	business has less than \$6 million dollars in annual gross receipts.		
This	registration is submitted by a governmental entity with a population of less	than 10,000.	🗌 YES 🖾 NO
This	registration is submitted by a non-profit organization.		

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 <u>www.tceq.texas.go</u> online.) (continued)	<mark>v/epay</mark> to pay	
2.	A \$450 fee is required for all other registrations		
Α.	Payment Information		
Che	ck/money order/transaction or voucher number: Paid via STEERS		
Indiv	idual or company name on check: Not applicable		
Fee	Amount: \$ 450		
Was	the fee paid online?	YES 🗌 NO	
IV.	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 p checklists.)	rovide applicable	
Did y	you demonstrate that the general requirements in 30 TAC § 106.4 are met?	🛛 YES 🗌 NO	
Did y	you demonstrate that the individual requirements of the specific PBR are met?	🛛 YES 🗌 NO	
В	Confidential Information Included (If confidential information is submitted with this registration, all confidential pages must be properly marked "CONFIDENTIAL.")	🛛 YES 🗌 NO	
C.	Process Flow Diagram:	XES 🗌 NO	
D.	Process Description:	XES 🗌 NO	
E.	Maximum Emissions Data and Calculations:	🛛 YES 🗌 NO	
30 T	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.		
F.	Is this certification being submitted to certify the emissions for the entire site?	🗌 YES 🖾 NO	
lf "N	O," include a summary of the specific facilities and emissions being certified.		
G.	Table 1(a) (Form 10153) Emission Point Summary:	🛛 YES 🗌 NO	
Н.	Distances from Property Line and Nearest Off-Property Structure		
Dista	ance from this facility's emission release point to the nearest property line:	1000 feet	
Dista	ance from this facility's emission release point to the nearest off-property structure:	1000 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. 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. Project Status

Has the company implemented the project or waiting on a response from TCEQ?

Implemented D Waiting

J. Projected Start of Construction and Projected Start of Operation Dates:

Projected Start of Construction (provide date): January 31, 2025

Projected Start of Operation (provide date): February 1, 2025

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): Gretchen Abney		
	111	
Signature (original signature required)	Anthen abrey	
	C. J.	
Date: 1/31/2025		

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 ePermits ¹ .
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 ePay ² .
Appropriate TCEQ Regional Office	To find your Regional Office address, go to the TCEQ website at <u>www.tceq.texas.gov/agency/directory/region</u> , or call (512) 239-1250.	Copy of Form PI-7-CERT, Core Data Form, and all attachments. Not required if using ePermits ¹
Appropriate Local Air Pollution Control Program(s)	To Find your local or Regional Air Pollution Control Programs go to the TCEQ, APD website at <u>www.tceq.texas.gov/permitting/air/local_programs.html</u> , or call (512)-239-1250	Copy of Form PI-7-CERT, Core Data Form, and all attachments.

¹ ePermits located at <u>www3.tceq.texas.gov/steers/</u>

² ePay located at <u>www.tceq.texas.gov/epay</u>

Blue Cube Operations LLC Permit by Rule Connector Addition Chlorinated Methane Products Facility

January 31, 2025

Project Description

Overview	This project is to authorize the addition of connectors associated with a replacement heat exchanger. This project will only generate fugitive emissions from the piping components that will be installed. There are no changes to operating conditions or production rates. The applicable requirements will be maintained, and no new requirements are triggered. There are no MSS emissions or upstream/downstream impacts associated with this project.
Affected sources	The following source EPN is being affected by this project:
	 A18FU01 – A1800 Process Area Fugitives
Upstream and downstream impacts	There are no upstream or downstream impacts.
Impact on central wastewater and solid waste facilities	There will be no impact on the central wastewater treatment facilities or the solid waste facilities.
Emission Calculations	The emission calculations contain confidential information and can be found in the confidential section of this submittal.
MSS Emissions	MSS emissions have not been identified for inclusion in this PBR.
Air Pollutant Watch List	This project occurs within an Air Pollutant Watch List area (APL1201) but does not include any increases or decreases of any pollutant of concern for that area (arsenic, cobalt, nickel, or vanadium).

Project Description (continued)

Title V and Other
RegulationsThis plant is authorized under the Title V Permit O1388.The affected fugitive area for this project is an existing fugitive emission area.
This change does not require notification under Title V since the addition of
components to a fugitive emission source is not considered an "addition of an
emission source". This exclusion from notification is documented in TCEQ's
"Site Operating Permit (SOP) Revision Application Guidance", APDG
5951v16, revised 01/21, middle of page 7 under "Note" in section VII, part D.

General Information

In this section

The permit by rule requirements specified on Form PI-7 CERT are addressed in this section as follows:

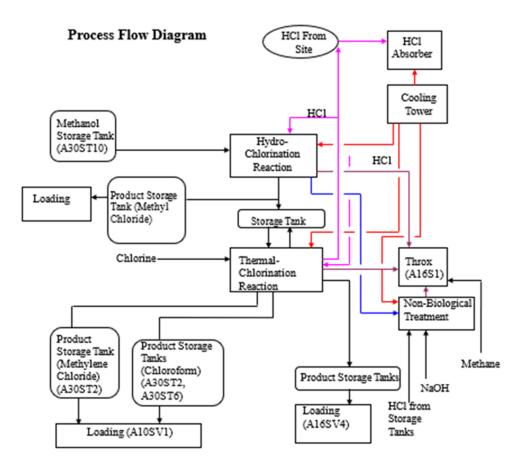
PI-7 CERT Section	Description	See Page
IV	Process Description (Non-Confidential)	5
IV	Process Flow Diagram	7

Process Description

Chlorinated Methane Products	Chlorinated methanes are produced in the A-1800 block using two process methods. The first method is the hydrochlorination of methanol, which is stored in NV-11 (EPN A30ST10). HCl and methanol are reacted to methyl chloride and water. Most of the water and HCl are removed in the cooler and sent to treatment at the NBT (Non-Biological Treatment System). Sulfuric acid is fed to the drying tower to continue drying the methyl chloride. After neutralization with water, this liquid effluent flows to the water treatment unit. The methyl chloride is condensed and sent to storage tanks for further reaction in the thermal chlorination system or to loading. The methyl chloride is stored in spherical storage tanks with vents that tie into the process to re-condense.
	The second method for producing chlorinated methanes is the thermal chlorination of methyl chloride. Methyl chloride and chlorine are reacted to produce HCl and chloromethanes. HCl and methyl chloride are distilled and the HCl is recycled back to the hydro reactor or the site HCl absorber, while the methyl chloride is recycled to the thermal reactor. The methylene chloride is then separated from the chloroform and crude carbon tetrachloride and then sent to storage for loading.
	The chloroform is distilled from crude carbon tetrachloride. The chloroform flows to storage tanks for loading. Crude carbon tetrachloride is stored for loading.
	Vents from the production units flow through condensers before flowing to the A16 THROX (EPN A16S1).
HCl Absorption and Storage	Anhydrous HCl gas is sent to absorber E-1300 where it is absorbed in water to make 32-38% aqueous HCl acid. The vent streams from the absorbers are sent to the A16 THROX and the acid flows to storage tanks. Storage tank vents and marine loading vents are scrubbed with water in Scrubbers S-2 (EPN A16SV2) and S-1 (EPN A16SV4), respectively. Tank truck loading vents are routed to the Scrubber S-1000 (EPN A10SV1).
Non-Biological Treatment Systems	Process water from A-1800, A-1000, A-1600, A-2400, A-3200, A-2600, A-1400 and A-2200 blocks is pH controlled and air stripped before being diverted to a permitted outfall. The air and organics from this process are sent to the A16 THROX, for use as combustion air.
A-1600 THROX Treatment System	The "THROX" or Thermal Heat Recovery Oxidizer system uses Blue Cube technology for recovering energy and HCl from waste gas streams. The streams are mixed with methane and burned in excess air to produce HCl, CO2 and water. The heat of combustion is removed by boiling condensate to generate steam. This steam flows into the plant distribution system. The flue gas from the two redundant boilers, FTB-1A/B flows to a water scrubber T-1 to remove the HCl combustion product. The overhead gas from the water scrubber then flows to a caustic scrubber T-2 which uses water and caustic to react with trace amounts of hydrogen halides and chlorine. The scrubber overhead gas then flows through a blower to a stack (EPN A16S1).

Perchloroethylene	Perchloroethylene is brought in from other Blue Cube locations and stored in
Storage	storage tanks.

Process Flow Diagram



Fugitive Areas: A10FU01 - HC1 T/T Loading A16FU02 - A1600 Area A18FU01 - A1800 Area A28FUST - A2800 Area A30FU02 - A3000 Area

Regulatory Requirements

In this section

Following is a list of topics in this section:

Description	See Page
§106.4 General Requirements for Permitting by Rule	9

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: <u>www.tceq.texas.gov/permitting/air/nav/air_pbr.html</u>.

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): Please see Table	1.a and Table 2						
Are the SO ₂ , PM ₁₀ , VOC, or other air contaminant emissions claimed for each facility in this PBR submittal less than 25 tpy?	🛛 YES 🗌 NO						
Are the NO _x and CO emissions claimed for each facility in this PBR submittal less than 250 tpy?	🛛 YES 🗌 NO						
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 .							
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.)	YES 🗌 NO						
If "Yes," skip to Section 2. If "No," continue to the questions below.							
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?	YES NO						
Are the NO _x and CO emissions claimed for all facilities in this PBR submittal less than 250 tpy?	YES NO						
If the answer to both questions is "Yes," continue to Section 2.							
If the answer to either question is "No," a PBR cannot be claimed . A permit will be required und	er Chapter 116.						

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?	🛛 YES 🗌 NO							
If "Yes," please indicate which county by checking the appropriate box to the right.								
(Moderate) - Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller counties:	HGB							
(Moderate) - Collin, Dallas, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, Tarrant, and Wise counties:	DFW							
If "Yes," to any of the above, continue to the next question. If "No," continue to Section 3.								
Does this project trigger a nonattainment review? □ YES ⊠ NO								
Is the project's potential to emit (PTE) for emissions of VOC or NO _x increasing by 100 tpy or more?	🗌 YES 🖾 NO							
PTE is the maximum capacity of a stationary source to emit any air pollutant under its worst-case operational design unless limited by a permit, rules, or made federally enforceable by a certificat								
Is the site an existing major nonattainment site and are the emissions of VOC or NOx increasing by 40 tpy or more?	🗌 YES 🖾 NO							
If needed, attach contemporaneous netting calculations per nonattainment guidance.								
Additional information can be found at: <u>www.tceq.texas.gov/permitting/air/forms/newsourcereview/tables/nsr_table8.html</u> and <u>www.tceq.texas.gov/permitting/air/nav/air_docs_newsource.html</u>								
If "Yes," to any of the above, the project is a major source or a major modification and a PBR ma Nonattainment Permit review must be completed to authorize this project. If "No," continue to Se								
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?	🗌 YES 🖾 NO							
Are emissions of any criteria pollutant increasing by 250 tpy of any criteria pollutant at an unnamed source?	🗌 YES 🖾 NO							
Are emissions increasing above significance levels at an existing major site?	🗌 YES 🖾 NO							
PSD information can be found at: <u>www.tceq.texas.gov/assets/public/permitting/air/Forms/NewSourceReview/Tables/10173tbl.pdf</u> a <u>www.tceq.texas.gov/permitting/air/nav/air_docs_newsource.html</u>	and							
If "Yes," to any of the above, a PBR may not be used . A PSD Permit review must be completed	to authorize the project.							
If "No," continue to Section 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)?	🗌 YES 🗌 NO 🖾 NA
If "Yes," which Subparts are applicable? (answer below.)	
Will all facilities under this PBR meet applicable requirements of 40 CFR Part 63, Hazardous Air Pollutants Maximum Achievable Control Technology (MACT) standards?	🛛 YES 🗌 NO 🗌 NA
If "Yes," which Subparts are applicable? <i>(answer below.)</i>	
G,H, EEEE	
Will all facilities under this PBR meet applicable requirements of 40 CFR Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAPs)?	🗌 YES 🗌 NO 🖾 NA
If "Yes," which Subparts are applicable? (answer below.)	
If "Yes" to any of the above, please attach a discussion of how the facilities will meet any applic	able 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?	🗌 YES 🖾 NO
If "Yes," PBRs may not be used or their use must meet the restrictions of the permit. A new per may be required.	mit or permit amendment
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?	🖾 YES 🗌 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)?	🗌 YES 🖾 NO

7. Highly Reactive Volatile Organic Compounds (HRVOC)									
Is the facility located in Harris County?									
If "Yes," answer the next question. If "No," skip to the box below.									
Will the project be constructed after June 1, 2006?									
If "Yes," answer the next question.									
If "No," skip to the box below.									
Will one or more of the following HRVOC be emitted as a part of this project? \[YES \[NO \]									
If "Yes," complete the information below:									
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, Montgomery, or Waller County?	, Liberty,	YES 🗌 NO							
If "Yes," answer the next question. If "No," the checklist is complete	Э.								
Will the project be constructed after June 1, 2006?		YES 🗌 NO							
If "Yes," answer the next question. If "No," the checklist is complete	<i>∋.</i>								
Will one or more of the following HRVOC be emitted as a part of th	is project?								
If "Yes," complete the information below:									
Information	lb//hr	tpy							
▶ ethylene									
► propylene									

APPENDICES

In this section

Following is a list of topics in this section:

Description	Page
Appendix A: PBR Compliance Table	A-1
Appendix B: Table 1(a) - Page 1 Table 1(a) - Page 2	B-1
Appendix C: Monitoring Requirements	C-1
Appendix D: Emission Calculations (CONFIDENTIAL)	D-1

Appendix A PBR Compliance Table

EPN	Air Contaminant	Project	Increase	TLV or L ncrease Value		R Limit	Limit Citation	In Compliance
		lb/hr	T/yr	mg/m3	lb/hr	T/yr		
A18FU01	METHYL CHLORIDE	2.3E-04	9.9E-04					
	Total METHYL CHLORIDE	2.3E-04	9.9E-04	103.0	3.03	5.00	106.262(a)(2)	YES
A18FU01	METHANOL	6.8E-04	3.0E-03					
	Total METHANOL	6.8E-04	3.0E-03	262.0	1.00	4.38	106.261(a)(3)	YES
A18FU01	HYDROGEN CHLORIDE	5.0E-03	2.2E-02					
	Total HYDROGEN CHLORIDE	5.0E-03	2.2E-02	1.0	0.03	0.13	106.262(a)(4)	YES
	Grand Total VOC		3.9E-03			5	106.4(a)(2)	YES
	Total HYDROGEN CHLORIDE		2.2E-02			25	106.4(a)(3)	YES
Note: Emiss	ions shown as 0.00 are <0.01 but > zero.			ft from the r				

Table 2 PBR Compliance

Note: Emissions shown as 0.00 are <0.01 but > zero.		
A-1800	1,000	ft. from the nearest off-site receptor.
Therefore in 106.262, the value for K is:	34	

Project Summary of Emission Changes

Plant NameChlorinated Methane Products FacilityProject NameHigh Level Indicator

	со	NOx	РМ	PM 10	PM 2.5	SO ₂	voc
Total of Increases only	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PSD Significance Levels	100	40	25	15	10	40	
Site Netting Supplied?	NO	NO	NO	NO	NO	NO	
Site Contemporaneous Net	NA	NA	NA	NA	NA	NA	
PSD Applicable?	NO	NO	NO	NO	NO	NO	
NNSR Project Netting Required?		NO					NO
NNSR Net Project Increase		0.00					0.00
NNSR Site Contemporaneous Net							
NNSR Applicable?		NO					NO

Basis for Determination:

This determination is based on project and AEI information according to TCEQ's draft "PSD Air Quality Guidance Document" dated January, 2001 and the "Nonattainment New Source Review" draft guidance document dated January, 2002.

Post-Project Maximum Allowable Annual Emissions, T/yr

Emission Units affected		со	NOx	РМ	PM 10	PM _{2.5}	SO ₂	voc
FIN	EPN							
A18CMFU01	A18FU01							10.36

Pre-Project Actual Annual Emissions, T/yr (24 month average)

SUBSTITUTE THE PRECHANGE ALLOWABLE IF IT IS SMALLER THAN THE ACTUAL

Emission Units affected		со	NOx	РМ	PM10	PM 2.5	SO2	voc
FIN	EPN							
A18CMFU01	A18FU01							10.36

For fugitive emissions, assumed the pre-project actuals are equal to permit limit.

Changes in Emissions, T/yr

(Post-Project Allowable, T/yr) - (Pre-Project Actual, T/yr)

Emission Units affected		со	NOx	PM 10	PM2.5	SO2	voc
FIN	EPN						
A18CMFU01	A18FU01						0.00

Appendix B

 Table 1(a)-Page 1

Table 1(a)-Page 2

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY Table 1(a) Emissions Point Summary

Date:	January 2025	Permit Number:	5340	RN Number:	108772245
Area Name:	Area Name: Chlorinated Methane Products Facility				604930784

Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.

AIR CONTAMINANT DATA										
	1. Emi	ssion Point		3. Air Contaminant Emission Rate						
EPN (A)	FIN (B)	NAME (C)	2. Component or Air Contaminanct Name	Pound Per Hour [A]	Ton Per Year [B]					
A18FU01	A18CMFU01	A1800 Fugitive Area	VOC Hydrogen Chloride	<0.01 <0.01	0.00 0.02					

TCEQ - 10153 (Revised 04/08) Table 1(a)

This form is for use by sources subject to air quality permit requirements and

may be revised periodically. (APDG 5178 v5)

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY Table 1(a) Emissions Point Summary

Date:	January 2025			Permit Number:	5340	RN Number:	108772245
Area Name:	Chlorinated Methane Products Facility						604930784

Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.

AIR CONTAMINANT DATA		EMISSION POINT DISCHARGE PARAMETERS											
			4. UTM COORIDINATES OF EMISSION			SOURCE							
1. EMISSION POINT		POINT			6. HEIGHT	7. STACK EXIT DATA		8. FUGITIVES					
EPN	FIN	NAME		EAST	NORTH	5. BUILDING	ABOVE			TEMP (oF)	LENGTH	WIDHT	
(A)	(B)	(C)	ZONE	(Meters)	(Meters)	HEIGHT (ft)	GROUND (ft)	DIA (ft) [A]	VEL (fps) [B]	[C)]	(ft) [A]	(ft) [B]	AXIS DEG. [C]
A18FU01	A18CMFU01	A1800 Fugitive Area	15	274,191	3,204,052						700	800	28.62

TCEQ - 10153 (Revised 04/08) Table 1(a)

This form is for use by sources subject to air quality permit requirements and may be revised periodically. (APDG 5178 v5)

APPENDIX C

Monitoring Requirements

Monitoring Requirements:

The emissions from this project are from fugitive components.

The plant will follow 28VHP and 28AVO monitoring requirements.