

Texas Commission on Environmental Quality

Title V Existing

2030

Site Information (Regulated Entity)

| | |
|---|--------------------------|
| What is the name of the permit area to be authorized? | ETHYLENE OXIDE / GLYCOL |
| Does the site have a physical address? | No |
| Because there is no physical address, describe how to locate this site: | 7501 State Hwy 185 N |
| City | Seadrift |
| State | TX |
| ZIP | 77983 |
| County | CALHOUN |
| Latitude (N) (##.#####) | 28.510277 |
| Longitude (W) (-###.#####) | 96.770833 |
| Primary SIC Code | 2869 |
| Secondary SIC Code | |
| Primary NAICS Code | 325199 |
| Secondary NAICS Code | |
| Regulated Entity Site Information | |
| What is the Regulated Entity's Number (RN)? | RN102181526 |
| What is the name of the Regulated Entity (RE)? | UCC SEADRIFT OPERATIONS |
| Does the RE site have a physical address? | Yes |
| Physical Address | |
| Number and Street | 7501 STATE HIGHWAY 185 N |
| City | SEADRIFT |
| State | TX |
| ZIP | 77983 |
| County | CALHOUN |
| Latitude (N) (##.#####) | 28.499581 |
| Longitude (W) (-###.#####) | -96.767508 |
| Facility NAICS Code | |
| What is the primary business of this entity? | CHEMICAL PLANT |

Customer (Applicant) Information

| | |
|--|---------------------------|
| How is this applicant associated with this site? | Owner Operator |
| What is the applicant's Customer Number (CN)? | CN601688781 |
| Type of Customer | Corporation |
| Full legal name of the applicant: | |
| Legal Name | Union Carbide Corporation |
| Texas SOS Filing Number | 1335606 |
| Federal Tax ID | 980626782 |
| State Franchise Tax ID | 11314217305 |
| State Sales Tax ID | |

| | |
|-----------------------------------|---------|
| Local Tax ID | |
| DUNS Number | 1289008 |
| Number of Employees | 101-250 |
| Independently Owned and Operated? | No |

Responsible Official Contact

Person TCEQ should contact for questions about this application:

| | |
|--|----------------------------------|
| Organization Name | THE DOW CHEMICAL COMPANY |
| Prefix | MS |
| First | HEATHER |
| Middle | |
| Last | LYONS |
| Suffix | |
| Credentials | |
| Title | LEAD SITE MANUFACTURING DIRECTOR |
| Enter new address or copy one from list: | |
| Mailing Address | |
| Address Type | Domestic |
| Mailing Address (include Suite or Bldg. here, if applicable) | PO BOX 186 |
| Routing (such as Mail Code, Dept., or Attn:) | |
| City | PORT LAVACA |
| State | TX |
| ZIP | 77979 |
| Phone (###-###-####) | 3615532769 |
| Extension | |
| Alternate Phone (###-###-####) | |
| Fax (###-###-####) | |
| E-mail | HLyons@dow.com |

Duly Authorized Representative Contact

Person TCEQ should contact for questions about this application

| | |
|--|--|
| Select existing DAR contact or enter a new contact. | FERNANDO FROLLINI(UNION CARBIDE C...) |
| Organization Name | UNION CARBIDE CORPORATION |
| Prefix | MR |
| First | FERNANDO |
| Middle | |
| Last | FROLLINI |
| Suffix | |
| Credentials | |
| Title | RESPONSIBLE CARE DIRECTOR |
| Enter new address or copy one from list | |
| Mailing Address | |
| Address Type | Domestic |
| Mailing Address (include Suite or Bldg. here, if applicable) | PO BOX 186 |

Routing (such as Mail Code, Dept., or Attn:)

City

State

Zip

Phone (###-###-####)

Extension

Alternate Phone (###-###-####)

Fax (###-###-####)

E-mail

PORT LAVACA

TX

77979

3615716238

f.frollini@dow.com

Technical Contact

Person TCEQ should contact for questions about this application:

Select existing TC contact or enter a new contact.

Organization Name

Prefix

First

Middle

Last

Suffix

Credentials

Title

Enter new address or copy one from list:

Mailing Address

Address Type

Mailing Address (include Suite or Bldg. here, if applicable)

Routing (such as Mail Code, Dept., or Attn:)

City

State

ZIP

Phone (###-###-####)

Extension

Alternate Phone (###-###-####)

Fax (###-###-####)

E-mail

VANESSA PEPPERS(UNION CARBIDE C...)

UNION CARBIDE CORPORATION

MRS

VANESSA

PEPPERS

ENVIRONMENTAL SPECIALIST

Domestic

PO BOX 186

PORT LAVACA

TX

77979

3615532174

vpeppers@dow.com

Title V General Information - Existing

1) Permit Type:

2) Permit Latitude Coordinate:

3) Permit Longitude Coordinate:

4) Is this submittal a new application or an update to an existing application?

4.1. What type of permitting action are you applying for?

4.1.1. Are there any permits that should be voided upon issuance of this permit application through permit conversion?

SOP

28 Deg 30 Min 37 Sec

96 Deg 46 Min 15 Sec

New Application

Streamlined Revision

No

4.1.2. Are there any permits that should be voided upon issuance of this permit application through permit consolidation?

No

5) Who will electronically sign this Title V application?

Duly Authorized Representative

6) Does this application include Acid Rain Program or Cross-State Air Pollution Rule requirements?

N/A

Title V Attachments Existing

Attach OP-1 (Site Information Summary)

Attach OP-2 (Application for Permit Revision/Renewal)

Attach OP-REQ1 (Application Area-Wide Applicability Determinations and General Information)

Attach OP-REQ2 (Negative Applicable Requirement Determinations)

Attach OP-REQ3 (Applicable Requirements Summary)

Attach OP-PBRSUP (Permits by Rule Supplemental Table)

Attach OP-SUMR (Individual Unit Summary for Revisions)

Attach OP-MON (Monitoring Requirements)

Attach OP-UA (Unit Attribute) Forms

If applicable, attach OP-AR1 (Acid Rain Permit Application)

Attach OP-CRO2 (Change of Responsible Official Information)

Attach OP-DEL (Delegation of Responsible Official)

Attach any other necessary information needed to complete the permit.

An additional space to attach any other necessary information needed to complete the permit.

[File Properties]

File Name

O2030 T5 Minor Revision Application 06-26-2025.pdf

Hash

380C293E7008CEFF970E1881A59CF1883A8AFB14F0EC79BDE2F177AA13F4A736

MIME-Type

application/pdf

Expedite Title V

1) Per Texas Health and Safety Code, Section 382.05155, does the applicant want to expedite the processing of this application?

No

Certification

I certify that I am the Duly Authorized Representative for this application and that, based on information and belief formed after reasonable inquiry, the statements and information on this form are true, accurate, and complete.

1. I am Fernando Frollini, the owner of the STEERS account ER100782.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Title V Existing 2030.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEC

OWNER OPERATOR Signature: Fernando Frollini OWNER OPERATOR

| | |
|--------------------------------------|--|
| Account Number: | ER100782 |
| Signature IP Address: | 165.225.32.112 |
| Signature Date: | 2025-06-30 |
| Signature Hash: | 60612B9C913A6EE7573B7B8EDEF1DF44C01523E226D9CACEA6740E4692B5EB52 |
| Form Hash Code at time of Signature: | 161A187576C0CC6D1E5905E91F9A9B3BF6134487A3BCE49F4F03FD0A6BFE6CBE |

Submission

| | |
|----------------------|--|
| Reference Number: | The application reference number is 796655 |
| Submitted by: | The application was submitted by ER100782/Fernando Frollini |
| Submitted Timestamp: | The application was submitted on 2025-06-30 at 14:04:49 CDT |
| Submitted From: | The application was submitted from IP address 165.225.32.112 |
| Confirmation Number: | The confirmation number is 661747 |
| Steers Version: | The STEERS version is 6.92 |
| Permit Number: | The permit number is 2030 |

Additional Information

Application Creator: This account was created by Vanessa N Peppers



June 26, 2025

Electronic Submittal via ePermits

Mr. Johnny Bowers
TCEQ Air Permits Initial Review Team (APIRT), MC-161
P.O. Box 13087
Austin, TX 78711-3087

**Union Carbide Corporation: CN601688781; RN102181526
Ethylene Oxide/Ethylene Glycol – Title V Operating Permit O2030
Site Operating Permit Minor Revision Application**

Dear Mr. Bowers,

The purpose of this submittal is to apply for a Title V minor revision in compliance with 30 TAC Chapter 122, Subchapter, C §122.215 and §122.217, for Federal Operating Permit No. O2030, Ethylene Oxide/Glycol Plant. This minor revision is being submitted to incorporate units that are a part of an expansion of the existing production unit that was authorized via NSR 22321 and NSR 48653, which was approved on 10/05/2023.

The following forms are included in this submittal as part of the permit application:

- Form OP-2
- Form OP-SUMR
- Form OP-UAs
- Form OP-REQ1 (87-88 only)
- Form OP-REQ3

For future correspondence regarding this permit application, Vanessa Peppers can be contacted at 361-553-2174 or via email at VPeppers@dow.com.

Sincerely,

A handwritten signature in blue ink that reads "Vanessa Peppers".

Vanessa Peppers
Environmental Manager

enclosure

cc:
US EPA Region 6
TCEQ Air Section Manager, Region 14

R6AirPermitsTX@epa.gov
R14APDMail@tceq.texas.gov



Union Carbide Corporation

Permit O2030 Ethylene Oxide/Glycol Plant

Site Operating Permit Minor Revision Application

June 26, 2025

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Section 1 - Administrative Forms

**Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 1
Texas Commission on Environmental Quality**

| | |
|--|--|
| Date: June 26, 2025 | |
| Permit No.: O2030 | |
| Regulated Entity No.: RN102181526 | |
| Company Name: Union Carbide Corporation | |
| For Submissions to EPA | |
| Has an electronic copy of this application been submitted (or is being submitted) to EPA? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | |
| I. Application Type | |
| Indicate the type of application: | |
| <input type="checkbox"/> Renewal | |
| <input checked="" type="checkbox"/> Streamlined Revision (Must include provisional terms and conditions as explained in the instructions.) | |
| <input type="checkbox"/> Significant Revision | |
| <input type="checkbox"/> Revision Requesting Prior Approval | |
| <input type="checkbox"/> Administrative Revision | |
| <input type="checkbox"/> Response to Reopening | |
| II. Qualification Statement | |
| For SOP Revisions Only <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | |
| For GOP Revisions Only <input type="checkbox"/> YES <input type="checkbox"/> NO | |

**Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 1 (continued)
Texas Commission on Environmental Quality**

| | | | | | | |
|--|---|--|--|--|--|---|
| III. Major Source Pollutants (Complete this section if the permit revision is due to a change at the site or change in regulations.) | | | | | | |
| Indicate all pollutants for which the site is a major source based on the site's potential to emit: (Check the appropriate box[es].) | | | | | | |
| <input checked="" type="checkbox"/> VOC | <input checked="" type="checkbox"/> NO _x | <input type="checkbox"/> SO ₂ | <input checked="" type="checkbox"/> PM ₁₀ | <input checked="" type="checkbox"/> CO | <input type="checkbox"/> Pb | <input checked="" type="checkbox"/> HAP |
| Other: | | | | | | |
| IV. Reference Only Requirements (For reference only) | | | | | | |
| Has the applicant paid emissions fees for the most recent agency fiscal year (September 1 - August 31)? | | | | | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | |
| V. Delinquent Fees and Penalties | | | | | | |
| Notice: 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 are paid in accordance with the Delinquent Fee and penalty protocol. | | | | | | |

**Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 2
Texas Commission on Environmental Quality**

| |
|---|
| Date: June 26, 2025 |
| Permit No.: O2030 |
| Regulated Entity No.: RN102181526 |
| Company Name: Union Carbide Corporation |

Using the table below, provide a description of the revision.

| Revision No. | Revision Code | | Unit/Group | Process | NSR Authorization | Description of Change and Provisional Terms and Conditions |
|--------------|---------------|----------|------------|-------------------|----------------------|--|
| | | New Unit | ID No. | Applicable Form | | |
| 1 | MS-A | NO | N/A | OP-REQ1 | N/A | Union Carbide Corporation (UCC) is requesting to update the Preconstruction Authorizations. Please see the attached Form OP-REQ1 . |
| 2 | MS-A | NO | OX2-FUG | OP-UA1 | 22321 48653 | Please add 40 CFR Part 60, Subpart VVb positive applicability to this process vent. |
| 3 | MS-A | YES | C-414 | OP-SUMR OP-UA3 | 22321 | Please add this unit to the Title V Permit. This unit is part of an expansion to an existing storage and loading/unloading facility that was authorized via NSR 22321, which was issued on 10/5/2023 (Project #349223). Please add 30 TAC Chapter 115, Storage of VOCs and 40 CFR Part 63, Subpart G positive applicability to this process vent. |

**Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 2
Texas Commission on Environmental Quality**

| |
|---|
| Date: June 26, 2025 |
| Permit No.: O2030 |
| Regulated Entity No.: RN102181526 |
| Company Name: Union Carbide Corporation |

| Revision No. | Revision Code | | Unit/Group | Process | NSR Authorization. | Description of Change and Provisional Terms and Conditions |
|--------------|---------------|----------|------------|-------------------------------|-----------------------|--|
| | | New Unit | ID No. | Applicable Form | | |
| 4 | MS-A | YES | 523 | OP-SUMR OP-UA15 OP-UA17 | 48653 | <p>Please add this unit to the Title V Permit. This unit is part of an expansion to an existing ethylene oxide production facility that was authorized via NSR 48653, which was issued on 10/05/2023 (Project #349222).</p> <p>Please add 30 TAC Chapter 115, Vent Gas Controls, 40 CFR Part 60, Subpart NNN, and 40 CFR Part 63, Subpart G positive applicability to this process vent.</p> |
| 5 | MS-A | YES | 563 | OP-SUMR OP-UA15 OP-UA17 | 48653 | <p>Please add this unit to the Title V Permit. This unit is part of an expansion to an existing ethylene oxide production facility that was authorized via NSR 48653, which was issued on 10/05/2023 (Project #349222).</p> <p>Please add 30 TAC Chapter 115, Vent Gas Controls, 40 CFR Part 60, Subpart NNN, and 40 CFR Part 63, Subpart G positive applicability to this process vent.</p> |

**Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 2
Texas Commission on Environmental Quality**

| |
|---|
| Date: June 26, 2025 |
| Permit No.: O2030 |
| Regulated Entity No.: RN102181526 |
| Company Name: Union Carbide Corporation |

| Revision No. | Revision Code | | Unit/Group | Process | NSR Authorization. | Description of Change and Provisional Terms and Conditions |
|--------------|---------------|----------|------------|-------------------------------|-----------------------|--|
| | | New Unit | ID No. | Applicable Form | | |
| 6 | MS-A | YES | 573 | OP-SUMR OP-UA15 OP-UA17 | 48653 | <p>Please add this unit to the Title V Permit. This unit is part of an expansion to an existing ethylene oxide production facility that was authorized via NSR 48653, which was issued on 10/05/2023 (Project #349222).</p> <p>Please add 30 TAC Chapter 115, Vent Gas Controls, 40 CFR Part 60, Subpart NNN, and 40 CFR Part 63, Subpart G positive applicability to this process vent.</p> |
| 7 | MS-A | YES | 598 | OP-SUMR OP-UA1 OP-UA15 | 48653 | <p>Please add this unit to the Title V Permit. This unit is part of an expansion to an existing ethylene oxide production facility that was authorized via NSR 48653, which was issued on 10/05/2023 (Project #349222).</p> <p>Please add 30 TAC Chapter 115, Vent Gas Controls and 40 CFR Part 60, Subpart RRRa positive applicability to this process vent.</p> |

**Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 3
Texas Commission on Environmental Quality**

| | |
|---|--|
| Date: June 26, 2025 | |
| Permit No.: O2030 | |
| Regulated Entity No.: RN102181526 | |
| Company Name: Union Carbide Corporation | |
| I. Significant Revision <i>(Complete this section if you are submitting a significant revision application or a renewal application that includes a significant revision.)</i> | |
| A. | Is the site subject to bilingual requirements pursuant to 30 TAC § 122.322? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| B. | Indicate the alternate language(s) in which public notice is required: Spanish |
| C. | Will, there be a change in air pollutant emissions as a result of the significant revision? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |

**Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 3
Texas Commission on Environmental Quality**

Using the table below, indicate the air pollutant(s) that will be changing and include a brief description of the change in pollutant emissions for each pollutant:

| Pollutant | Description of the Change in Pollutant Emissions |
|----------------------------|---|
| Carbon Monoxide | The increase in emissions is due to vent streams being flared from new process equipment and the new Alkoxylation Plant as well as maintenance, startup, and shutdown emissions. |
| Nitrogen Oxides | The increase in emissions is due to vent streams being flared from new process equipment and the new Alkoxylation Plant as well as maintenance, startup, and shutdown emissions. |
| Sulfur Dioxide | The increase in emissions is due to vent streams being flared from new process equipment and the new Alkoxylation Plant as well as maintenance, startup, and shutdown emissions. |
| Hydrochloric Acid | The increase in emissions is due to vent streams being flared from new process equipment and the new Alkoxylation Plant as well as maintenance, startup, and shutdown emissions. |
| Volatile Organic Compounds | The increase in emissions is due to the installation of a new analyzer vent, vent streams being flared from the new Alkoxylation Plant and new process equipment, as well as corresponding fugitive and maintenance, startup, and shutdown emissions. |

**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR**

[Table 1](#)

| Date | Permit No. | Regulated Entity No. |
|---------------|------------|----------------------|
| June 26, 2025 | O2030 | RN102181526 |

| Unit/Process AI | Unit/Process Revision No. | Unit/Process ID No. | Unit/Process Applicable Form | Unit/Process Name/ Description | Unit/Process CAM | Preconstruction Authorizations 30 TAC Chapter 116/ 30 TAC Chapter 106 | Preconstruction Authorizations Title I |
|--------------------|------------------------------|---------------------|------------------------------------|--------------------------------|---------------------|---|---|
| A | 3 | C-414 | OP-UA3 | #3 EO SURGE TANK | | 22321 | |
| A | 4 | 523 | OP-UA15 OP-UA17 | EXHAUSTING COLUMN | | 48653 | |
| A | 5 | 563 | OP-UA15 OP-UA17 | PURIFICATION COLUMN | | 48653 | |
| A | 6 | 573 | OP-UA15 OP-UA17 | RECOVERY COLUMN | | 48653 | |
| A | 7 | 598 | OP-UA1 OP-UA15 | EORC TAILS REACTOR | | 48653 | |
| | | | | | | | |

Section 2 – Unit Attribute Forms

**Texas Commission on Environmental Quality
Miscellaneous Unit Attributes
Form OP-UA1 (Page 1)
Federal Operating Permit Program**

| | |
|------------------------------|---------------|
| Date: | June 26, 2025 |
| Permit No.: | O2030 |
| Regulated Entity No.: | RN102181526 |

| Unit ID No. | SOP/GOP Index No. | Unit Type | Date Constructed/Placed in Service | Functionally Identical Replacement | Maximum Rated Capacity | Technical Information and Unit Description |
|----------------|-------------------|-----------|------------------------------------|------------------------------------|------------------------|--|
| <i>OX2-FUG</i> | <i>60VVB-01</i> | <i>EP</i> | | | | <i>Please add General High-Level Applicability to 40 CFR Part 60, Subpart VVb</i> |
| <i>598</i> | <i>60RRRa-01</i> | <i>EP</i> | | | | <i>Please add General High-Level Applicability to 40 CFR Part 60, Subpart RRRa</i> |
| | | | | | | |
| | | | | | | |
| | | | | | | |

TCEQ 10044 (APDG 5756v2 Revised 06/14) OP-UA1 Instructions
This form for use by facilities subject to air quality permit requirements and may be revised periodically. (Title V Release 10/98)

Storage Tank/Vessel Attributes
Form OP-UA3 (Page 1)
Federal Operating Permit Program
Table 1: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart K: Standards of Performance for Storage Vessels for Petroleum Liquids
Texas Commission on Environmental Quality

| Date | Permit No. | Regulated Entity No. |
|---------------|------------|----------------------|
| June 26, 2025 | O2030 | RN102181526 |

| Unit ID No. | SOP/GOP Index No. | Construction/Modification Date | Storage Capacity | Product Stored | True Vapor Pressure | Storage Vessel Description | Reid Vapor Pressure | Maximum TVP | Estimated TVP | Control Device ID No. |
|-------------|-------------------|--------------------------------|------------------|----------------|---------------------|----------------------------|---------------------|-------------|---------------|-----------------------|
| SDMG301 | | 73- | | | | | | | | |
| SDMG513 | | 73- | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |

Subpart Kb: Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels)
Texas Commission on Environmental Quality

[illegible]

Storage Tank/Vessel Attributes
Form OP-UA3 (Page 4)
Federal Operating Permit Program
Table 4a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B, Division 1: Storage of Volatile Organic Compounds (VOCs)
Texas Commission on Environmental Quality

| Date | Permit No. | Regulated Entity No. |
|---------------|------------|----------------------|
| June 26, 2025 | O2030 | RN102181526 |

| Unit ID No. | SOP/GOP Index No. | Alternate Control Requirement | ACR ID No. | Product Stored | Storage Capacity | Throughput | Potential to Emit | Uncontrolled Emissions |
|-------------|-------------------|-------------------------------|------------|----------------|------------------|------------|-------------------|------------------------|
| GRPGLYCLTK | | Yes | | | VOC2 | | | |
| SDMG301 | | Yes | | | VOC2 | | | |
| SDMG513 | | Yes | | | VOC2 | | | |
| C-411 | R5112-01 | Yes | | | VOC2 | | | |
| C-412 | R5112-01 | Yes | | | VOC2 | | | |
| C-413 | R5112-01 | Yes | | | VOC2 | | | |
| C-414 | R5112-01 | Yes | | | VOC2 | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Storage Tank/Vessel Attributes
Form OP-UA3 (Page 5)
Federal Operating Permit Program
Table 4b: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B, Division 1: Storage of Volatile Organic Compounds (VOCs)
Texas Commission on Environmental Quality

| Date | Permit No. | Regulated Entity No. |
|---------------|------------|----------------------|
| June 26, 2025 | O2030 | RN102181526 |

| Unit ID No. | SOP/GOP Index No. | Construction Date | Tank Description | True Vapor Pressure | Primary Seal | Secondary Seal | Control Device Type | Control Device ID No. |
|-------------|-------------------|-------------------|------------------|---------------------|--------------|----------------|---------------------|-----------------------|
| GRPGLYCLTK | | | | 1.5-B | | | | |
| SDMG301 | | | | 1.5-B | | | | |
| SDMG513 | | | | 1.5-B | | | | |
| C-411 | R5112-01 | | SPVRS2 | 1.5+B | | | FLARE | 1013/1014 |
| C-412 | R5112-01 | | SPVRS2 | 1.5+B | | | FLARE | 1013/1014 |
| C-413 | R5112-01 | 73+ | SPVRS2 | 1.5+B | | | FLARE | 1013/1014 |
| C-414 | R5112-01 | 73+ | SPVRS2 | 1.5+B | | | FLARE | 1013/1014 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Federal Operating Permit Program

Subpart G: National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Storage Vessels

| Date | Permit No. | Regulated Entity No. |
|---------------|------------|----------------------|
| June 26, 2025 | O2030 | RN102181526 |

[illegible]

Subpart G: National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Storage Vessels
Texas Commission on Environmental Quality

[illegible]

Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 1)
Federal Operating Permit Program
Table 1a: Title 30 Texas Administrative Code Chapter 111 (30 TAC Chapter 111)
Subchapter A: Visible Emissions
Texas Commission on Environmental Quality

| Date | Permit No. | Regulated Entity No. |
|---------------|------------|----------------------|
| June 26, 2025 | O2030 | RN102181526 |

| Emission Point ID No. | SOP/GOP Index No. | Alternate Opacity Limitation | AOL ID No. | Vent Source | Opacity Monitoring System | Construction Date | Effluent Flow Rate |
|-----------------------|-------------------|------------------------------|------------|-------------|---------------------------|-------------------|--------------------|
| 97A | R1111-01 | NO | | OTHER | OP MON | 72- | 100+ |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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Federal Operating Permit Program
Table 1b: Title 30 Texas Administrative Code Chapter 111 (30 TAC Chapter 111)

Subchapter A: Visible Emissions
Texas Commission on Environmental Quality

| Date | Permit No. | Regulated Entity No. |
|---------------|------------|----------------------|
| June 26, 2025 | O2030 | RN102181526 |

[illegible]

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 3)**

Federal Operating Permit Program

Table 2a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)

Subchapter B: Vent Gas Control

Texas Commission on Environmental Quality

| Date | Permit No. | Regulated Entity No. |
|---------------|------------|----------------------|
| June 26, 2025 | O2030 | RN102181526 |

| Emission Point ID No. | SOP/GOP Index No. | Chapter 115 Division | Combustion Exhaust | Vent Type | Total Uncontrolled VOC Weight | Combined 24-Hour VOC Weight | VOC Concentration | VOC Concentration or Emission Rate at Maximum Operating Conditions |
|-----------------------|-------------------|----------------------|--------------------|-----------|-------------------------------|-----------------------------|-------------------|--|
| 97A | | NO | NO | CLASVOC | | | 30K- | |
| SD108VNT | | NO | NO | CLASVOC | | | | |
| 100 | | NO | NO | CLASVOC | | 100- | | |
| 101 | | NO | NO | CLASVOC | | 100- | | |
| 99 | | NO | NO | CLASVOC | | 100- | | |
| 118 | | NO | NO | CLASVOC | | 100- | | |
| 1042 | | NO | NO | CLASVOC | | 100- | | |
| 523 | R5121-01 | NO | NO | CLASVOC | | 100- | | |
| 563 | R5121-01 | NO | NO | CLASVOC | | 100- | | |
| 573 | R5121-01 | NO | NO | CLASVOC | | 100- | | |
| 598 | R5121-01 | NO | NO | CLASVOC | | 100- | | |

Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 4)
Federal Operating Permit Program
Table 2b: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Vent Gas Control
Texas Commission on Environmental Quality

| Date | Permit No. | Regulated Entity No. |
|---------------|------------|----------------------|
| June 26, 2025 | O2030 | RN102181526 |

| Emission Point ID No. | SOP Index No. | Alternate Control Requirement | ACR ID No. | Control Device Type | Control Device ID No. |
|-----------------------|---------------|-------------------------------|------------|---------------------|-----------------------|
| 97A | | NONE | | | |
| SD108VNT | | NONE | | FLARE | SD108 |
| 100 | | NONE | | | |
| 101 | | NONE | | | |
| 99 | | NONE | | | |
| 118 | | NONE | | | |
| 1042 | | NONE | | | |
| 523 | | NONE | | FLARE | SD108 |
| 563 | | NONE | | FLARE | SD108 |
| 573 | | NONE | | FLARE | SD108 |
| 598 | | NONE | | | |
| | | | | | |

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 13)**

Federal Operating Permit Program

Table 6a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)

**Subpart G: National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic
Organic Chemical Manufacturing Industry for Process Vents
Texas Commission on Environmental Quality**

| Date | Permit No. | Regulated Entity No. |
|---------------|------------|----------------------|
| June 26, 2025 | O2030 | RN102181526 |

| Emission Point ID No. | SOP Index No. | Overlap | Group 1 | Regulation | HAP Concentration | Flow Rate | Electing Control | NSPS TRE Index Value | MACT TRE Index Value | Plant Type |
|-----------------------|---------------|---------|---------|------------|-------------------|-----------|------------------|----------------------|----------------------|------------|
| 100 | | NONE | NO | | NCE | NCE | NOELECT | 8+ | 4+ | |
| 101 | | NONE | NO | | NCE | NCE | NOELECT | 8+ | 4+ | |
| RB-109 | | NONE | YES | | | | | | | |
| RB-110 | | NONE | NO | | NCE | NCE | NOELECT | 8+ | 4+ | |
| RB-111 | | NONE | NO | | NCE | NCE | NOELECT | 8+ | 4+ | |
| 99 | | NONE | NO | | NCE | NCE | NOELECT | 8+ | 4+ | |
| 118 | | NONE | NO | | NCE | NCE | NOELECT | 8+ | 4+ | |
| RB-101 | | NONE | NO | | NCE | NCE | NOELECT | 8+ | 4+ | |
| 1042 | | NONE | NO | | NCE | NCE | NOELECT | 8+ | 4+ | |
| 97A | | NONE | NO | | NCE | NCE | NOELECT | 8+ | 4+ | |
| 523 | | NONE | YES | | | | | | | |
| 563 | | NONE | YES | | | | | | | |
| 573 | | NONE | YES | | | | | | | |

Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes

Form OP-UA15 (Page 14)

Federal Operating Permit Program

Table 6b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)

**Subpart G: National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic
Organic Chemical Manufacturing Industry for Process Vents
Texas Commission on Environmental Quality**

| Date | Permit No. | Regulated Entity No. |
|---------------|------------|----------------------|
| June 26, 2025 | O2030 | RN102181526 |

| Emission Point ID No. | SOP Index No. | Control Device | Control Device ID No. | Halogenated | TRE for Halogenated Vent Stream | Halogen Reduction Device | Installation Date | Performance Test |
|-----------------------|---------------|----------------|-----------------------|-------------|---------------------------------|--------------------------|-------------------|------------------|
| 100 | | | | NO | | | | YES |
| 101 | | | | NO | | | | NO |
| RB-109 | | FLARE | SD108A | NO | | | | YES |
| RB-110 | | FLARE | SD108A | NO | | | | NO |
| RB-111 | | FLARE | SD108A | NO | | | | NO |
| 99 | | | | NO | | | | YES |
| 118 | | | | NO | | | | YES |
| RB-101 | | FLARE | SD108A | NO | | | | NO |
| 1042 | | | | NO | | | | YES |
| 97A | | | | NO | | | | NO |
| 523 | | FLARE | SD108A | NO | | | | YES |
| 563 | | FLARE | SD108A | NO | | | | YES |
| 573 | | FLARE | SD108A | NO | | | | YES |

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 15)**

Federal Operating Permit Program

Table 6c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)

**Subpart G: National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic
Organic Chemical Manufacturing Industry for Process Vents
Texas Commission on Environmental Quality**

| Date | Permit No. | Regulated Entity No. |
|---------------|------------|----------------------|
| June 26, 2025 | O2030 | RN102181526 |

| Emission Point ID No. | SOP Index No. | Alternate Monitoring Parameters (AMP) | AMP ID No. | Continuous Monitoring | Continuous Monitoring Alt ID No. | Bypass Lines | Flow Indicator |
|--------------------------|---------------|---|------------|--------------------------|--|--------------|----------------|
| 100 | | NO | | NOALT | | NO | |
| 101 | | NO | | NOALT | | NO | |
| RB-109 | | NO | | NOALT | | NO | |
| RB-110 | | NO | | NOALT | | NO | |
| RB-111 | | NO | | NOALT | | NO | |
| 99 | | NO | | NOALT | | NO | |
| 118 | | NO | | NOALT | | NO | |
| RB-101 | | NO | | NOALT | | NO | |
| 1042 | | NO | | NOALT | | NO | |
| 97A | | NO | | NOALT | | NO | |
| 523 | | NO | | NOALT | | NO | |
| 563 | | NO | | NOALT | | NO | |
| 573 | | NO | | NOALT | | NO | |

**Texas Commission on Environmental Quality
Distillation Unit Attributes
Form OP-UA17 (Page 1)**

Federal Operating Permit Program

Table 1a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)

**Subpart NNN: Standards of Performance for Volatile Organic Compound (VOC) Emissions From Synthetic
Organic Chemical Manufacturing Industry (SOCMI) Distillation Operations**

| | |
|-----------------------|---------------|
| Date: | June 26, 2025 |
| Permit No.: | O2030 |
| Regulated Entity No.: | RN102181526 |

| Unit ID No. | SOP Index No. | Subpart NNN Chemicals | Construction/Modification Date | Vent Type | Distillation Unit Type | Total Design Capacity | Vent Stream Flow Rate |
|-------------|---------------|--------------------------|-----------------------------------|--------------|---------------------------|--------------------------|--------------------------|
| 99 | | YES | 83+ | NOVRS | NONE | 1+ | 8+ |
| 100 | | YES | 83+ | NOVRS | NONE | 1+ | 8+ |
| 118 | | YES | 83+ | NOVRS | NONE | 1+ | 8+ |
| 1042 | | YES | 83+ | NOVRS | NONE | 1+ | 8+ |
| 523 | | YES | 83+ | NOVRS | NONE | 1+ | 8+ |
| 563 | | YES | 83+ | NOVRS | NONE | 1+ | 8+ |
| 573 | | YES | 83+ | NOVRS | NONE | 1+ | 8+ |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Table 1b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart NNN: Standards of Performance for Volatile Organic Compound (VOC) Emissions From Synthetic Organic Chemical Manufacturing Industry (SOCMI) Distillation Operations

| | |
|-----------------------|---------------|
| Date: | June 26, 2025 |
| Permit No.: | O2030 |
| Regulated Entity No.: | RN102181526 |

[illegible]

**Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program**

Section 3 - Applicability Identification Forms

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

| | |
|-------------|---------------|
| Date: | June 26, 2025 |
| Permit No.: | O2030 |
| RN No.: | RN102181526 |

Form OP-REQ1: Page 87

XII. NSR Authorizations (Attach additional sheets if necessary for sections E-J)

E. PSD Permits and PSD Major Pollutants

| | | |
|-----------------|----------------|---------------|
| PSD Permit No.: | Issuance Date: | Pollutant(s): |
| PSD Permit No.: | Issuance Date: | Pollutant(s): |
| PSD Permit No.: | Issuance Date: | Pollutant(s): |

If PSD Permits are held for the application area, please complete the Major NSR Summary Table located under the Technical Forms heading at: www.tceq.texas.gov/permitting/air/titlev/site/site_experts.html.

F. Nonattainment (NA) Permits and NA Major Pollutants

| | | |
|----------------|----------------|---------------|
| NA Permit No.: | Issuance Date: | Pollutant(s): |
| NA Permit No.: | Issuance Date: | Pollutant(s): |
| NA Permit No.: | Issuance Date: | Pollutant(s): |

If NA Permits are held for the application area, please complete the Major NSR Summary Table located under the Technical Forms heading at: www.tceq.texas.gov/permitting/air/titlev/site/site_experts.html.

G. NSR Authorizations with FCAA § 112(g) Requirements

| | | | |
|-----------------|----------------|-----------------|----------------|
| NSR Permit No.: | Issuance Date: | NSR Permit No.: | Issuance Date: |
| NSR Permit No.: | Issuance Date: | NSR Permit No.: | Issuance Date: |
| NSR Permit No.: | Issuance Date: | NSR Permit No.: | Issuance Date: |

H. Title 30 TAC Chapter 116 Permits, Special Permits, Standard Permits, Other Authorizations (Other Than Permits By Rule, PSD Permits, NA Permits) for the Application Area

| | | | |
|--------------------------|---------------------------|--------------------|----------------|
| Authorization No.: 22321 | Issuance Date: 10/05/2023 | Authorization No.: | Issuance Date: |
| Authorization No.: 48653 | Issuance Date: 11/16/2023 | Authorization No.: | Issuance Date: |
| Authorization No.: | Issuance Date: | Authorization No.: | Issuance Date: |

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

| | |
|-------------|---------------|
| Date: | June 26, 2025 |
| Permit No.: | O2030 |
| RN No.: | RN102181526 |

| | |
|---|-----------------------------|
| Form OP-REQ1: Page 88 | |
| XII. NSR Authorizations (Attach additional sheets if necessary for sections E-J) | |
| I. Permits by Rule (30 TAC Chapter 106) for the Application Area | |
| <i>A list of selected Permits by Rule (previously referred to as standard exemptions) that are required to be listed in the FOP application is available in the instructions.</i> | |
| PBR No.: 106.261 | Version No./Date: 11/1/2003 |
| PBR No.: 106.262 | Version No./Date: 11/1/2003 |
| PBR No.: 106.263 | Version No./Date: 11/1/2001 |
| PBR No.: 106.264 | Version No./Date: 9/4/2000 |
| PBR No.: | Version No./Date: |
| PBR No.: | Version No./Date: |
| PBR No.: | Version No./Date: |
| PBR No.: | Version No./Date: |
| PBR No.: | Version No./Date: |
| PBR No.: | Version No./Date: |
| PBR No.: | Version No./Date: |
| PBR No.: | Version No./Date: |
| PBR No.: | Version No./Date: |
| PBR No.: | Version No./Date: |
| PBR No.: | Version No./Date: |
| PBR No.: | Version No./Date: |
| J. Municipal Solid Waste and Industrial Hazardous Waste Permits With an Air Addendum | |
| Permit No.: | Issuance Date: |
| Permit No.: | Issuance Date: |
| Permit No.: | Issuance Date: |
| Permit No.: | Issuance Date: |

Applicable Requirements Summary
Form OP-REQ3 (Page 1)
Federal Operating Permit Program
Table 1a: Additions

| | | |
|--|---|--------------------------|
| Date: June 26, 2025 | Regulated Entity No.: RN102181526 | Permit No.: O2030 |
| Company Name: Union Carbide Corporation | Area Name: Ethylene Oxide/Glycol Plant | |

| Revision No. | Unit/Group/Process | | SOP/GOP Index No. | Pollutant | Applicable Regulatory Requirement | |
|--------------|--------------------|-----------------|-------------------|-------------|--|---|
| | ID No. | Applicable Form | | | Name | Standard(s) |
| 2 | <i>OX2-FUG</i> | <i>OP-UA1</i> | <i>60VVb-01</i> | <i>VOC</i> | <i>40 CFR Part 60, Subpart VVb</i> | <i>General High Level Applicability</i> |
| 3 | <i>C-414</i> | <i>OP-UA3</i> | <i>R5112-01</i> | <i>VOC</i> | <i>30 TAC Chapter 115, Storage of VOCs</i> | <i>115.112(c)(1)</i> |
| 3 | <i>C-414</i> | <i>OP-UA3</i> | <i>63G-01</i> | <i>HAPS</i> | <i>40 CFR Part 63, Subpart G</i> | <i>63.119(e), 63.11, 63.119(a)(2), 63.119(e)(1), 63.119(e)(3), 63.119(e)(4), 63.119(e)(5), 63.172(a), [G] 63.172(h), 63.172(i), 63.172(j)(2), 63.172(m)</i> |
| 4 | <i>523</i> | <i>OP-UA15</i> | <i>R5121-01</i> | <i>VOC</i> | <i>30 TAC Chapter 115, Vent Gas Controls</i> | <i>115.127(c)(1)(B), 115.127(c)(1)</i> |
| 4 | <i>523</i> | <i>OP-UA15</i> | <i>63G-01</i> | <i>HAPS</i> | <i>40 CFR Part 63, Subpart G</i> | <i>63.113(e), [G] 63.115(f)</i> |
| 4 | <i>523</i> | <i>OP-UA17</i> | <i>60NNN-01</i> | <i>HAPS</i> | <i>40 CFR Part 60, Subpart NNN</i> | <i>60.660(c)(4), 60.662(c)</i> |
| 5 | <i>563</i> | <i>OP-UA15</i> | <i>R5121-01</i> | <i>VOC</i> | <i>30 TAC Chapter 115, Vent Gas Controls</i> | <i>115.127(c)(1)(B), 115.127(c)(1)</i> |
| 5 | <i>563</i> | <i>OP-UA15</i> | <i>63G-01</i> | <i>HAPS</i> | <i>40 CFR Part 63, Subpart G</i> | <i>63.113(e), [G] 63.115(f)</i> |
| 5 | <i>563</i> | <i>OP-UA17</i> | <i>60NNN-01</i> | <i>HAPS</i> | <i>40 CFR Part 60, Subpart NNN</i> | <i>60.660(c)(4), 60.662(c)</i> |
| 6 | <i>573</i> | <i>OP-UA15</i> | <i>R5121-01</i> | <i>VOC</i> | <i>30 TAC Chapter 115, Vent Gas Controls</i> | <i>115.127(c)(1)(B), 115.127(c)(1)</i> |
| 6 | <i>573</i> | <i>OP-UA15</i> | <i>63G-01</i> | <i>HAPS</i> | <i>40 CFR Part 63, Subpart G</i> | <i>63.113(e), [G] 63.115(f)</i> |
| 6 | <i>573</i> | <i>OP-UA17</i> | <i>60NNN-01</i> | <i>HAPS</i> | <i>40 CFR Part 60, Subpart NNN</i> | <i>60.660(c)(4), 60.662(c)</i> |
| 7 | <i>598</i> | <i>OP-UA1</i> | <i>60RRRa-01</i> | <i>VOC</i> | <i>40 CFR Part 60, Subpart RRRa</i> | <i>General High Level Applicability</i> |
| 7 | <i>598</i> | <i>OP-UA15</i> | <i>R5121-01</i> | <i>VOC</i> | <i>30 TAC Chapter 115, Vent Gas Controls</i> | <i>115.127(c)(1)(B), 115.127(c)(1)</i> |

Applicable Requirements Summary
Form OP-REQ3 (Page 1)
Federal Operating Permit Program
Table 1a: Additions

| | | |
|--|---|--------------------------|
| Date: June 26, 2025 | Regulated Entity No.: RN102181526 | Permit No.: O2030 |
| Company Name: Union Carbide Corporation | Area Name: Ethylene Oxide/Glycol Plant | |

| Revision No. | Unit/Group/ Process ID No. | SOP/GOP Index No. | Pollutant | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
|--------------|----------------------------|-------------------|-------------|---|---|--|
| 2 | <i>OX2-FUG</i> | <i>60VVb-01</i> | <i>VOC</i> | <i>General High-Level Applicability</i> | <i>General High-Level Applicability</i> | <i>General High-Level Applicability</i> |
| 3 | <i>C-414</i> | <i>R5112-01</i> | <i>VOC</i> | <i>General High-Level Applicability</i> | <i>NONE</i> | <i>NONE</i> |
| 3 | <i>C-414</i> | <i>63G-01</i> | <i>HAPS</i> | <i>63.120(e)(1), 63.120(e)(4)</i> <i>[G] 63.172(f)(1), [G] 63.172(f)(2),</i> <i>63.172(g), [G] 63.172(h),</i> <i>63.172(j)(2), [G] 63.172(k)</i> <i>[G] 63.172(l), [G] 63.180(b), [G]</i> <i>63.180(d)</i> | <i>63.123(a), [G] 63.123(f)(2)</i> <i>[G] 63.152(a), [G]§ 63.172(k)</i> <i>[G] 63.172(l), 63.181(a)</i> <i>[G] 63.181(b), 63.181(c)</i> <i>[G] 63.181(d), 63.181(g),</i> <i>63.181(g)(1)(i), 63.181(g)(1)(ii)</i> <i>[G] 63.181(g)(2), [G] 63.181(g)(3)</i> | <i>[G] 63.120(e)(2), 63.122(c)(2)</i> <i>[G] 63.122(g)(1), [G] 63.122(g)(3)</i> <i>63.151(a)(7), [G] 63.151(b)</i> <i>[G]63.151(j), [G] 63.152(a), 63.152(b)</i> <i>[G]63.152(b)(1), 63.152(b)(4)</i> <i>63.152(c)(1), 63.152(c)(2)</i> <i>63.152(c)(2)(i), [G] 63.152(c)(2)(ii)</i> <i>63.152(c)(2)(iii), 63.152(c)(3)</i> <i>63.152(c)(3)(i), 63.152(c)(4)(ii)</i> <i>[G]63.152(c)(6), [G] 63.182(a)</i> <i>[G]63.182(b), 63.182(c)</i> <i>[G] 63.182(c)(1), 63.182(c)(4)</i> <i>[G] 63.182(d)</i> |
| 4 | <i>523</i> | <i>R5121-01</i> | <i>VOC</i> | <i>[G] 115.125, 115.126(2)</i> | <i>115.126, 115.126(2), 115.126(3),</i> <i>115.126(4)</i> | <i>None</i> |

Applicable Requirements Summary
Form OP-REQ3 (Page 1)
Federal Operating Permit Program
Table 1a: Additions

| | | |
|--|---|--------------------------|
| Date: June 26, 2025 | Regulated Entity No.: RN102181526 | Permit No.: O2030 |
| Company Name: Union Carbide Corporation | Area Name: Ethylene Oxide/Glycol Plant | |

| Revision No. | Unit/Group/Process ID No. | SOP/GOP Index No. | Pollutant | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
|--------------|---------------------------|-------------------|-----------|--|---|--|
| 4 | 523 | 63G-01 | HAPS | [G] 63.115(a), [G] 63.115(b), [G] 63.115(c), [G] 63.115(d), 63.115(e), 63.115(e)(1), [G] 63.115(f) | 63.117(b), [G] 63.118(c) [G] 63.152(a) | 63.115(e)(2), [G] 63.118(g), [G] 63.118(h), [G] 63.118(k), [G] 63.151(b), 63.151(e), [G] 63.151(e)(1), 63.151(e)(3) [G] 63.151(j), [G] 63.152(a), 63.152(b) [G] 63.152(b)(1), 63.152(c)(1), 63.152(c)(2), 63.152(c)(2)(i), [G] 63.152(c)(2)(ii), 63.152(c)(2)(iii), 63.152(c)(4)(i), 63.152(c)(4)(ii), 63.152(c)(4)(iii) |
| 4 | 523 | 60NNN-01 | VOC/TOC | [G] 60.664(e), 60.664(f), [G] 60.664(f)(1), 60.664(f)(2), 60.664(g), 60.664(g)(1), 60.664(g)(2) | [G]§ 60.665(h), 60.665(p) | 60.664(g)(1), 60.665(l), 60.665(l)(7), 60.665(p) |
| 5 | 563 | R5121-01 | VOC | [G] 115.125, 115.126(2) | 115.126, 115.126(2), 115.126(3), 115.126(4) | None |
| 5 | 563 | 63G-01 | HAPS | [G] 63.115(a), [G] 63.115(b), [G] 63.115(c), [G] 63.115(d), 63.115(e), 63.115(e)(1), [G] 63.115(f) | 63.117(b), [G] 63.118(c) [G] 63.152(a) | 63.115(e)(2), [G] 63.118(g), [G] 63.118(h), [G] 63.118(k), [G] 63.151(b), 63.151(e), [G] 63.151(e)(1), 63.151(e)(3) [G] 63.151(j), [G] 63.152(a), 63.152(b) [G] 63.152(b)(1), 63.152(c)(1), 63.152(c)(2), 63.152(c)(2)(i), [G] 63.152(c)(2)(ii), 63.152(c)(2)(iii), 63.152(c)(4)(i), 63.152(c)(4)(ii), 63.152(c)(4)(iii) |

**Applicable Requirements Summary
Form OP-REQ3 (Page 1)
Federal Operating Permit Program
Table 1a: Additions**

| | | |
|--|---|--------------------------|
| Date: June 26, 2025 | Regulated Entity No.: RN102181526 | Permit No.: O2030 |
| Company Name: Union Carbide Corporation | Area Name: Ethylene Oxide/Glycol Plant | |

| Revision No. | Unit/Group/ Process ID No. | SOP/GOP Index No. | Pollutant | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
|--------------|----------------------------|-------------------|-----------|--|---|---|
| 5 | 563 | 60NNN-01 | VOC/TOC | [G] 60.664(e), 60.664(f), [G] 60.664(f)(1), 60.664(f)(2), 60.664(g), 60.664(g)(1), 60.664(g)(2) | [G]§ 60.665(h), 60.665(p) | 60.664(g)(1), 60.665(l), 60.665(l)(7), 60.665(p) |
| 6 | 573 | R5121-01 | VOC | [G] 115.125, 115.126(2) | 115.126, 115.126(2), 115.126(3), 115.126(4) | None |
| 6 | 573 | 63G-01 | HAPS | [G] 63.115(a), [G] 63.115(b), [G] 63.115(c), [G] 63.115(d), 63.115(e), 63.115(e)(1), [G] 63.115(f) | 63.117(b), [G] 63.118(c) [G] 63.152(a) | 63.115(e)(2), [G] 63.118(g), [G] 63.118(h), [G] 63.118(k), [G] 63.151(b), 63.151(e), [G] 63.151(e)(1), 63.151(e)(3) [G] 63.151(j), [G] 63.152(a), 63.152(b) [G] 63.152(b)(1), 63.152(c)(1), 63.152(c)(2), 63.152(c)(2)(i), [G]63.152(c)(2)(ii), 63.152(c)(2)(iii), 63.152(c)(4)(i), 63.152(c)(4)(ii), 63.152(c)(4)(iii) |
| 6 | 573 | 60NNN-01 | VOC/TOC | [G] 60.664(e), 60.664(f), [G] 60.664(f)(1), 60.664(f)(2), 60.664(g), 60.664(g)(1), 60.664(g)(2) | [G]§ 60.665(h), 60.665(p) | 60.664(g)(1), 60.665(l), 60.665(l)(7), 60.665(p) |
| 7 | 598 | 60RRRa-01 | VOC | General High-Level Applicability | General High-Level Applicability | General High-Level Applicability |
| 7 | 598 | R5121-01 | VOC | [G] 115.125, 115.126(2) | 115.126, 115.126(2), 115.126(3), 115.126(4) | None |

TCEQ 10018 (APDG 5939v2, Revised 06/15) OP-REQ3 – Applicable Requirements Summary

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